

System Reference Codes (1xxx-Axxx)

ESCALA Power7



REFERENCE  
86 A1 47FF 03



# ESCALA Power7

## System Reference Codes (1xxx-Axxx)

The ESCALA Power7 publications concern the following models:

- Bull Escala E5-700 (Power 750 / 8233-E8B)
- Bull Escala M6-700 (Power 770 / 9117-MMB)
- Bull Escala M6-705 (Power 770 / 9117-MMC)
- Bull Escala M7-700 (Power 780 / 9179-MHB)
- Bull Escala M7-705 (Power 780 / 9179-MHC)
- Bull Escala E1-700 (Power 710 / 8231-E2B)
- Bull Escala E1-705 (Power 710 / 8231-E1C)
- Bull Escala E2-700 / E2-700T (Power 720 / 8202-E4B)
- Bull Escala E2-705 / E2-705T (Power 720 / 8202-E4C)
- Bull Escala E3-700 (Power 730 / 8231-E2B)
- Bull Escala E3-705 (Power 730 / 8231-E2C)
- Bull Escala E4-700 / E4-700T (Power 740 / 8205-E6B)
- Bull Escala E4-705 (Power 740 / 8205-E6C)

References to Power 755 / 8236-E8C models are irrelevant.

## Hardware

October 2011

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357 AVENUE PATTON  
B.P.20845  
49008 ANGERS CEDEX 01  
FRANCE

**REFERENCE**  
**86 A1 47FF 03**

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## Contents

<b>Safety notices</b> . . . . .	<b>vii</b>	<b>(266E) Reference codes</b> . . . . .	<b>181</b>
<b>System reference codes (1xxx - Axxx) overview</b> . . . . .	<b>1</b>	<b>(266F) Reference codes</b> . . . . .	<b>183</b>
Block replacement of FRUs . . . . .	1	<b>(2689) Reference codes</b> . . . . .	<b>185</b>
<b>(1000) Reference codes</b> . . . . .	<b>3</b>	<b>(2742) Reference codes</b> . . . . .	<b>191</b>
<b>(1100) Reference codes</b> . . . . .	<b>23</b>	<b>(2743) Reference codes</b> . . . . .	<b>193</b>
<b>(1402) Reference codes</b> . . . . .	<b>45</b>	<b>(2744) Reference codes</b> . . . . .	<b>195</b>
<b>(169C) Reference codes</b> . . . . .	<b>115</b>	<b>(2745) Reference codes</b> . . . . .	<b>197</b>
<b>(1750) Reference codes</b> . . . . .	<b>119</b>	<b>(2746) Reference codes</b> . . . . .	<b>199</b>
<b>(198B) Reference codes</b> . . . . .	<b>121</b>	<b>(2749) Reference codes</b> . . . . .	<b>201</b>
<b>(198C) Reference codes</b> . . . . .	<b>125</b>	<b>(2757) Reference codes</b> . . . . .	<b>213</b>
<b>(198D) Reference codes</b> . . . . .	<b>129</b>	<b>(2760) Reference codes</b> . . . . .	<b>221</b>
<b>(198E) Reference codes</b> . . . . .	<b>133</b>	<b>(2763) Reference codes</b> . . . . .	<b>223</b>
<b>(19A1) Reference codes</b> . . . . .	<b>137</b>	<b>(2767) Reference codes</b> . . . . .	<b>231</b>
<b>(19A3) Reference codes</b> . . . . .	<b>141</b>	<b>(2768) Reference codes</b> . . . . .	<b>243</b>
<b>(19A4) Reference codes</b> . . . . .	<b>145</b>	<b>(2771) Reference codes</b> . . . . .	<b>255</b>
<b>(19B0) Reference codes</b> . . . . .	<b>149</b>	<b>(2772) Reference codes</b> . . . . .	<b>257</b>
<b>(19B1) Reference codes</b> . . . . .	<b>153</b>	<b>(2780) Reference codes</b> . . . . .	<b>259</b>
<b>(19B3) Reference codes</b> . . . . .	<b>157</b>	<b>(2782) Reference codes</b> . . . . .	<b>267</b>
<b>(19B4) Reference codes</b> . . . . .	<b>161</b>	<b>(2787) Reference codes</b> . . . . .	<b>275</b>
<b>(19B5) Reference codes</b> . . . . .	<b>165</b>	<b>(2793) Reference codes</b> . . . . .	<b>277</b>
<b>(19B7) Reference codes</b> . . . . .	<b>169</b>	<b>(2805) Reference codes</b> . . . . .	<b>279</b>
<b>(2058) Reference codes</b> . . . . .	<b>173</b>	<b>(280D) Reference codes</b> . . . . .	<b>281</b>
<b>(2105) Reference codes</b> . . . . .	<b>175</b>	<b>(280E) Reference codes</b> . . . . .	<b>283</b>
<b>(2107) Reference codes</b> . . . . .	<b>177</b>	<b>(2838) Reference codes</b> . . . . .	<b>285</b>
<b>(266D) Reference codes</b> . . . . .	<b>179</b>	<b>(283C) Reference codes</b> . . . . .	<b>287</b>

(283D) Reference codes . . . . .	289	(2BE0) Reference codes . . . . .	425
(2842) Reference codes . . . . .	291	(2BE1) Reference codes . . . . .	441
(2843) Reference codes . . . . .	303	(2BE2) Reference codes . . . . .	457
(2844) Reference codes . . . . .	315	(2BF3) Reference codes . . . . .	459
(2847) Reference codes . . . . .	327	(2BF4) Reference codes . . . . .	461
(2849) Reference codes . . . . .	331	(2C4C) Reference codes . . . . .	463
(284B) Reference codes . . . . .	333	(2C4D) Reference codes . . . . .	465
(2875) Reference codes . . . . .	345	(3494) Reference codes . . . . .	467
(2876) Reference codes . . . . .	347	(3580) Reference codes . . . . .	469
(2890) Reference codes . . . . .	349	(3592) Reference codes . . . . .	475
(2892) Reference codes . . . . .	355	(4320) Reference codes . . . . .	481
(28B9) Reference codes . . . . .	363	(4322) Reference codes . . . . .	485
(28CB) Reference codes . . . . .	365	(4323) Reference codes . . . . .	489
(28CC) Reference codes . . . . .	367	(4325) Reference codes . . . . .	493
(293C) Reference codes . . . . .	369	(4326) Reference codes . . . . .	497
(293D) Reference codes . . . . .	371	(4327) Reference codes . . . . .	501
(297D) Reference codes . . . . .	373	(4328) Reference codes . . . . .	505
(2A39) Reference codes . . . . .	375	(4329) Reference codes . . . . .	509
(2B4C) Reference codes . . . . .	377	(433B) Reference codes . . . . .	513
(2B56) Reference codes . . . . .	393	(433C) Reference codes . . . . .	517
(2B57) Reference codes . . . . .	395	(433D) Reference codes . . . . .	521
(2B6C) Reference codes . . . . .	397	(4685) Reference codes . . . . .	525
(2B93) Reference codes . . . . .	399	(4758) Reference codes . . . . .	531
(2BBE) Reference codes . . . . .	403	(4764) Reference codes . . . . .	533
(2BD6) Reference codes . . . . .	405	(4765) Reference codes . . . . .	535
(2BD8) Reference codes . . . . .	407	(4812) Reference codes . . . . .	537
(2BD9) Reference codes . . . . .	409	(506D) Reference codes . . . . .	541

(506E) Reference codes . . . . .	543	(573A) Reference codes . . . . .	731
(509A) Reference codes . . . . .	545	(573B) Reference codes . . . . .	733
(509D) Reference codes . . . . .	547	(573C) Reference codes . . . . .	735
(50A4) Reference codes . . . . .	549	(573D) Reference codes . . . . .	737
(50AD) Reference codes . . . . .	551	(573E) Reference codes . . . . .	747
(50B1) Reference codes . . . . .	553	(5746) Reference codes . . . . .	757
(5619) Reference codes . . . . .	555	(574E) Reference codes . . . . .	763
(5638) Reference codes . . . . .	561	(574F) Reference codes . . . . .	779
(5675) Reference codes . . . . .	567	(5755) Reference codes . . . . .	783
(5700) Reference codes . . . . .	573	(575B) Reference codes . . . . .	789
(5701) Reference codes . . . . .	575	(575C) Reference codes . . . . .	793
(5702) Reference codes . . . . .	577	(5767) Reference codes . . . . .	797
(5703) Reference codes . . . . .	589	(5768) Reference codes . . . . .	799
(5704) Reference codes . . . . .	597	(576A) Reference codes . . . . .	801
(5706) Reference codes . . . . .	599	(576B) Reference codes . . . . .	803
(5707) Reference codes . . . . .	601	(576C) Reference codes . . . . .	807
(5708) Reference codes . . . . .	603	(576D) Reference codes . . . . .	809
(5709) Reference codes . . . . .	607	(576E) Reference codes . . . . .	811
(570B) Reference codes . . . . .	615	(576F) Reference codes . . . . .	813
(571A) Reference codes . . . . .	627	(5774) Reference codes . . . . .	815
(571B) Reference codes . . . . .	637	(577D) Reference codes . . . . .	819
(571E) Reference codes . . . . .	647	(57B1) Reference codes . . . . .	823
(571F) Reference codes . . . . .	657	(57B2) Reference codes . . . . .	839
(572A) Reference codes . . . . .	667	(57B3) Reference codes . . . . .	855
(572B) Reference codes . . . . .	683	(57B4) Reference codes . . . . .	871
(572C) Reference codes . . . . .	699	(57B5) Reference codes . . . . .	887
(572F) Reference codes . . . . .	715	(57B7) Reference codes . . . . .	903

<b>(57B8) Reference codes . . . . .</b>	<b>907</b>	<b>(6333) Reference codes . . . . .</b>	<b>1141</b>
<b>(57C3) Reference codes . . . . .</b>	<b>923</b>	<b>(6336) Reference codes . . . . .</b>	<b>1145</b>
<b>(57C4) Reference codes . . . . .</b>	<b>939</b>	<b>(6337) Reference codes . . . . .</b>	<b>1149</b>
<b>(57C6) Reference codes . . . . .</b>	<b>955</b>	<b>(6382) Reference codes . . . . .</b>	<b>1153</b>
<b>(57C7) Reference codes . . . . .</b>	<b>971</b>	<b>(6383) Reference codes . . . . .</b>	<b>1159</b>
<b>(57CB) Reference codes . . . . .</b>	<b>987</b>	<b>(6384) Reference codes . . . . .</b>	<b>1165</b>
<b>(57CC) Reference codes . . . . .</b>	<b>1003</b>	<b>(6386) Reference codes . . . . .</b>	<b>1171</b>
<b>(57CD) Reference codes . . . . .</b>	<b>1019</b>	<b>(6387) Reference codes . . . . .</b>	<b>1177</b>
<b>(57CE) Reference codes . . . . .</b>	<b>1033</b>	<b>(63A0) Reference codes . . . . .</b>	<b>1183</b>
<b>(57CF) Reference codes . . . . .</b>	<b>1049</b>	<b>(63A1) Reference codes . . . . .</b>	<b>1189</b>
<b>(57FC) Reference codes . . . . .</b>	<b>1065</b>	<b>(6607) Reference codes . . . . .</b>	<b>1195</b>
<b>(57FF) Reference codes . . . . .</b>	<b>1069</b>	<b>(6713) Reference codes . . . . .</b>	<b>1199</b>
<b>(58B0) Reference codes . . . . .</b>	<b>1079</b>	<b>(6714) Reference codes . . . . .</b>	<b>1203</b>
<b>(58B2) Reference codes . . . . .</b>	<b>1083</b>	<b>(6717) Reference codes . . . . .</b>	<b>1207</b>
<b>(58B3) Reference codes . . . . .</b>	<b>1087</b>	<b>(6718) Reference codes . . . . .</b>	<b>1211</b>
<b>(58B4) Reference codes . . . . .</b>	<b>1091</b>	<b>(6719) Reference codes . . . . .</b>	<b>1215</b>
<b>(58B5) Reference codes . . . . .</b>	<b>1095</b>	<b>(6A59) Reference codes . . . . .</b>	<b>1219</b>
<b>(58B6) Reference codes . . . . .</b>	<b>1099</b>	<b>(6B25) Reference codes . . . . .</b>	<b>1221</b>
<b>(5907) Reference codes . . . . .</b>	<b>1103</b>	<b>(7207) Reference codes . . . . .</b>	<b>1223</b>
<b>(6258) Reference codes . . . . .</b>	<b>1109</b>	<b>(A1xx) Reference codes . . . . .</b>	<b>1229</b>
<b>(6279) Reference codes . . . . .</b>	<b>1115</b>	<b>(A2xx) Reference codes . . . . .</b>	<b>1231</b>
<b>(6320) Reference codes . . . . .</b>	<b>1121</b>	<b>(A6xx) Reference codes . . . . .</b>	<b>1233</b>
<b>(6321) Reference codes . . . . .</b>	<b>1125</b>	<b>(A7xx) Reference codes . . . . .</b>	<b>1291</b>
<b>(632B) Reference codes . . . . .</b>	<b>1129</b>	<b>(AAxx) Reference codes . . . . .</b>	<b>1297</b>
<b>(632C) Reference codes . . . . .</b>	<b>1131</b>	<b>Notices . . . . .</b>	<b>1299</b>
<b>(6330) Reference codes . . . . .</b>	<b>1133</b>	Trademarks . . . . .	1300
<b>(6331) Reference codes . . . . .</b>	<b>1137</b>	Electronic emission notices . . . . .	1300
		Class A Notices . . . . .	1301
		Class B Notices . . . . .	1304
		Terms and conditions . . . . .	1307



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## Safety notices

Safety notices may be printed throughout this guide:

- **DANGER** notices call attention to a situation that is potentially lethal or extremely hazardous to people.
- **CAUTION** notices call attention to a situation that is potentially hazardous to people because of some existing condition.
- **Attention** notices call attention to the possibility of damage to a program, device, system, or data.

### World Trade safety information

Several countries require the safety information contained in product publications to be presented in their national languages. If this requirement applies to your country, a safety information booklet is included in the publications package shipped with the product. The booklet contains the safety information in your national language with references to the U.S. English source. Before using a U.S. English publication to install, operate, or service this product, you must first become familiar with the related safety information in the booklet. You should also refer to the booklet any time you do not clearly understand any safety information in the U.S. English publications.

### German safety information

Das Produkt ist nicht für den Einsatz an Bildschirmarbeitsplätzen im Sinne § 2 der Bildschirmarbeitsverordnung geeignet.

### Laser safety information

IBM® servers can use I/O cards or features that are fiber-optic based and that utilize lasers or LEDs.

### Laser compliance

IBM servers may be installed inside or outside of an IT equipment rack.

## DANGER

When working on or around the system, observe the following precautions:

Electrical voltage and current from power, telephone, and communication cables are hazardous. To avoid a shock hazard:

- Connect power to this unit only with the IBM provided power cord. Do not use the IBM provided power cord for any other product.
- Do not open or service any power supply assembly.
- Do not connect or disconnect any cables or perform installation, maintenance, or reconfiguration of this product during an electrical storm.
- The product might be equipped with multiple power cords. To remove all hazardous voltages, disconnect all power cords.
- Connect all power cords to a properly wired and grounded electrical outlet. Ensure that the outlet supplies proper voltage and phase rotation according to the system rating plate.
- Connect any equipment that will be attached to this product to properly wired outlets.
- When possible, use one hand only to connect or disconnect signal cables.
- Never turn on any equipment when there is evidence of fire, water, or structural damage.
- Disconnect the attached power cords, telecommunications systems, networks, and modems before you open the device covers, unless instructed otherwise in the installation and configuration procedures.
- Connect and disconnect cables as described in the following procedures when installing, moving, or opening covers on this product or attached devices.

To Disconnect:

1. Turn off everything (unless instructed otherwise).
2. Remove the power cords from the outlets.
3. Remove the signal cables from the connectors.
4. Remove all cables from the devices

To Connect:

1. Turn off everything (unless instructed otherwise).
2. Attach all cables to the devices.
3. Attach the signal cables to the connectors.
4. Attach the power cords to the outlets.
5. Turn on the devices.

(D005)

## DANGER

Observe the following precautions when working on or around your IT rack system:

- Heavy equipment—personal injury or equipment damage might result if mishandled.
- Always lower the leveling pads on the rack cabinet.
- Always install stabilizer brackets on the rack cabinet.
- To avoid hazardous conditions due to uneven mechanical loading, always install the heaviest devices in the bottom of the rack cabinet. Always install servers and optional devices starting from the bottom of the rack cabinet.
- Rack-mounted devices are not to be used as shelves or work spaces. Do not place objects on top of rack-mounted devices.



- Each rack cabinet might have more than one power cord. Be sure to disconnect all power cords in the rack cabinet when directed to disconnect power during servicing.
- Connect all devices installed in a rack cabinet to power devices installed in the same rack cabinet. Do not plug a power cord from a device installed in one rack cabinet into a power device installed in a different rack cabinet.
- An electrical outlet that is not correctly wired could place hazardous voltage on the metal parts of the system or the devices that attach to the system. It is the responsibility of the customer to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

#### CAUTION

- Do not install a unit in a rack where the internal rack ambient temperatures will exceed the manufacturer's recommended ambient temperature for all your rack-mounted devices.
- Do not install a unit in a rack where the air flow is compromised. Ensure that air flow is not blocked or reduced on any side, front, or back of a unit used for air flow through the unit.
- Consideration should be given to the connection of the equipment to the supply circuit so that overloading of the circuits does not compromise the supply wiring or overcurrent protection. To provide the correct power connection to a rack, refer to the rating labels located on the equipment in the rack to determine the total power requirement of the supply circuit.
- *(For sliding drawers.)* Do not pull out or install any drawer or feature if the rack stabilizer brackets are not attached to the rack. Do not pull out more than one drawer at a time. The rack might become unstable if you pull out more than one drawer at a time.
- *(For fixed drawers.)* This drawer is a fixed drawer and must not be moved for servicing unless specified by the manufacturer. Attempting to move the drawer partially or completely out of the rack might cause the rack to become unstable or cause the drawer to fall out of the rack.

(R001)

**CAUTION:**

Removing components from the upper positions in the rack cabinet improves rack stability during relocation. Follow these general guidelines whenever you relocate a populated rack cabinet within a room or building:

- Reduce the weight of the rack cabinet by removing equipment starting at the top of the rack cabinet. When possible, restore the rack cabinet to the configuration of the rack cabinet as you received it. If this configuration is not known, you must observe the following precautions:
  - Remove all devices in the 32U position and above.
  - Ensure that the heaviest devices are installed in the bottom of the rack cabinet.
  - Ensure that there are no empty U-levels between devices installed in the rack cabinet below the 32U level.
- If the rack cabinet you are relocating is part of a suite of rack cabinets, detach the rack cabinet from the suite.
- Inspect the route that you plan to take to eliminate potential hazards.
- Verify that the route that you choose can support the weight of the loaded rack cabinet. Refer to the documentation that comes with your rack cabinet for the weight of a loaded rack cabinet.
- Verify that all door openings are at least 760 x 230 mm (30 x 80 in.).
- Ensure that all devices, shelves, drawers, doors, and cables are secure.
- Ensure that the four leveling pads are raised to their highest position.
- Ensure that there is no stabilizer bracket installed on the rack cabinet during movement.
- Do not use a ramp inclined at more than 10 degrees.
- When the rack cabinet is in the new location, complete the following steps:
  - Lower the four leveling pads.
  - Install stabilizer brackets on the rack cabinet.
  - If you removed any devices from the rack cabinet, repopulate the rack cabinet from the lowest position to the highest position.
- If a long-distance relocation is required, restore the rack cabinet to the configuration of the rack cabinet as you received it. Pack the rack cabinet in the original packaging material, or equivalent. Also lower the leveling pads to raise the casters off of the pallet and bolt the rack cabinet to the pallet.

(R002)

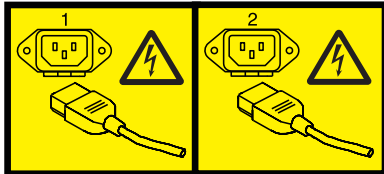
(L001)



(L002)



(L003)



or



All lasers are certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter J for class 1 laser products. Outside the U.S., they are certified to be in compliance with IEC 60825 as a class 1 laser product. Consult the label on each part for laser certification numbers and approval information.

**CAUTION:**

This product might contain one or more of the following devices: CD-ROM drive, DVD-ROM drive, DVD-RAM drive, or laser module, which are Class 1 laser products. Note the following information:

- Do not remove the covers. Removing the covers of the laser product could result in exposure to hazardous laser radiation. There are no serviceable parts inside the device.
- Use of the controls or adjustments or performance of procedures other than those specified herein might result in hazardous radiation exposure.

(C026)

**CAUTION:**

Data processing environments can contain equipment transmitting on system links with laser modules that operate at greater than Class 1 power levels. For this reason, never look into the end of an optical fiber cable or open receptacle. (C027)

**CAUTION:**

This product contains a Class 1M laser. Do not view directly with optical instruments. (C028)

**CAUTION:**

Some laser products contain an embedded Class 3A or Class 3B laser diode. Note the following information: laser radiation when open. Do not stare into the beam, do not view directly with optical instruments, and avoid direct exposure to the beam. (C030)

**CAUTION:**

The battery contains lithium. To avoid possible explosion, do not burn or charge the battery.

*Do Not:*

- \_\_\_ Throw or immerse into water
- \_\_\_ Heat to more than 100°C (212°F)
- \_\_\_ Repair or disassemble

Exchange only with the IBM-approved part. Recycle or discard the battery as instructed by local regulations. In the United States, IBM has a process for the collection of this battery. For information, call 1-800-426-4333. Have the IBM part number for the battery unit available when you call. (C003)

## **Power and cabling information for NEBS (Network Equipment-Building System) GR-1089-CORE**

The following comments apply to the IBM servers that have been designated as conforming to NEBS (Network Equipment-Building System) GR-1089-CORE:

The equipment is suitable for installation in the following:

- Network telecommunications facilities
- Locations where the NEC (National Electrical Code) applies

The intrabuilding ports of this equipment are suitable for connection to intrabuilding or unexposed wiring or cabling only. The intrabuilding ports of this equipment *must not* be metallically connected to the interfaces that connect to the OSP (outside plant) or its wiring. These interfaces are designed for use as intrabuilding interfaces only (Type 2 or Type 4 ports as described in GR-1089-CORE) and require isolation from the exposed OSP cabling. The addition of primary protectors is not sufficient protection to connect these interfaces metallically to OSP wiring.

**Note:** All Ethernet cables must be shielded and grounded at both ends.

The ac-powered system does not require the use of an external surge protection device (SPD).

The dc-powered system employs an isolated DC return (DC-I) design. The DC battery return terminal *shall not* be connected to the chassis or frame ground.

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## System reference codes (1xxx - Axxx) overview

Reference codes are diagnostics aids that help you find solutions to system problems.

Reference codes are diagnostic aids that help you determine the source of a hardware or operating system problem. Using a reference code enables you to find the solution to fix the problem. To use reference codes effectively, you must use them in conjunction with other service and support procedures.

**Note:** System reference codes (SRCs) often indicate failing items. Some failing items are required to be exchanged in groups until the problem is solved. Other failing items are flagged as mandatory exchange and must be exchanged before the service action is complete, even if the problem appears to have been repaired. For more information, see “Block replacement of FRUs.”

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### Block replacement of FRUs

Sometimes, multiple field replaceable units (FRUs) or procedures are called out for replacement by an SRC listed in the service action log (SAL). Each FRU or procedure has a priority, and procedures are always in priority order, from highest to lowest priority. Follow the steps below:

1. Perform all high priority or mandatory FRU replacements or procedures at the same time (as a block).
2. If the problem persists after performing the high priority FRU replacements or procedures, then perform the medium priority FRU replacements or procedures one at a time, unless a medium grouping priority is associated with the FRUs or procedures that are called out in the SRC. A medium grouping priority, shown with an A, B, or C, means that you need to perform all the FRU replacements or procedures in that group at the same time (as a block).
3. Finally, if the problem still persists after performing the medium priority FRU replacements or procedures, then perform the low priority FRU replacements or procedures one at a time.

The priorities of performing the FRU replacements or procedures are shown in the following ways, depending on how you view the SRC:

- Advanced System Management Interface (ASMI): The ASMI shows a priority with each callout in the log.
- Control panel: The control panel shows one of the following priorities with each callout:
  - H = High
  - M = Medium
  - MA = Medium group A
  - MB = Medium group B
  - MC = Medium group C
  - L = Low
- Management console: The details of the serviceable event display the FRU replacement priority as high, medium, and so on.
- Service action log: In the SAL, the Part Action for the FRU in the view of the event shows the replacement priority.





---

## (1000) Reference codes

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10000A0    10000A0

**Explanation:** SPCN BATs in process

**Response:** No action required. This reference code is logged for information only. If this reference code is present for more than 1 minute, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

10000AA    10000AA

**Explanation:** Download in process

**Response:** No action required. This reference code is logged for information only.

10000AC    10000AC

**Explanation:** Detected AC loss

**Response:** If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed. If parts are replaced, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- ACMODUL
- 

10000AD    10000AD

**Explanation:** A reset of the service processor caused the system to power off.

10001500    10001500

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

10001501    10001501

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

10001502    10001502

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
- 

10001503    10001503

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

10001507    10001507

**Explanation:** Power supply plugging ID error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - VPDPART
- 

10001511    10001511

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

10001512    10001512

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
  - CBLALL
-

## 10001513 • 10001526

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10001513    10001513

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001514    10001514

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001516    10001516

**Explanation:** No power supplies are present

**Response:** The required power supplies are not installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001517    10001517

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- VPDPART
- TWRCARD

---

10001520    10001520

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct, follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001521    10001521

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001522    10001522

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD
- CBLALL

---

10001523    10001523

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001524    10001524

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

10001526    10001526

**Explanation:** No power supplies present

**Response:** The required power supplies are not installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
-

---

**10001527**    **10001527**
**Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
  - TWRCARD
- 

**10001530**    **10001530****Explanation:** Detected AC loss**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
  - TWRCARD
- 

**10001531**    **10001531****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
  - TWRCARD
- 

**10001532**    **10001532****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
  - TWRCARD
  - CBLALL
- 

**10001533**    **10001533****Explanation:** Power supply failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
  - TWRCARD
- 

**10001601**    **10001601****Explanation:** Power supply missing**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
- 

**10001602**    **10001602****Explanation:** Power supply missing**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPLY
- 

**10001B01**    **10001B01****Explanation:** Load fault on the +12V bus**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10001B02**    **10001B02****Explanation:** Load fault on the +5V bus**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10001B03**    **10001B03****Explanation:** Load fault on the +3.3V bus**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
- 

**10001B04**    **10001B04****Explanation:** Load fault on the -12V bus**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1900
  - TWRCARD
-

## 10001B18 • 10002612

---

**10001B18**    **10001B18**

**Explanation:** Load fault on the +1.5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900

---

**10001DA0**    **10001DA0**

**Explanation:** I/O planar SPCN fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900

---

**10001F02**    **10001F02**

**Explanation:** SPCN trace information saved

**Response:** No action required. This reference code is logged for information only.

---

**10002600**    **10002600**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

---

**10002601**    **10002601**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

---

**10002603**    **10002603**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PGDPART

---

**10002605**    **10002605**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

---

**10002606**    **10002606**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

---

**10002607**    **10002607**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

---

**10002608**    **10002608**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

---

**10002609**    **10002609**

**Explanation:** Power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1900
- TWRCARD

---

**10002612**    **10002612**

**Explanation:** Optical Converter 5V Fault

**Response:** The SPCN detected a fault on the SPCN card optical converter 5V. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- CBLALL
- TWRCARD

---

**10003100**    **10003100**
**Explanation:** I2C bus controller communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003101**    **10003101****Explanation:** I2C bus 1 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003102**    **10003102****Explanation:** I2C bus 2 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003103**    **10003103****Explanation:** I2C bus 3 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003104**    **10003104****Explanation:** I2C bus 4 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003105**    **10003105****Explanation:** I2C bus 5 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003106**    **10003106****Explanation:** I2C bus 6 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**1000310A**    **1000310A****Explanation:** I2C bus SPCN VPD communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**1000310B**    **1000310B****Explanation:** I2C bus SPCN VPD communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003110**    **10003110****Explanation:** I2C bus DASD backplane 1 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
- 

**10003111**    **10003111****Explanation:** I2C bus DASD backplane 2 communication fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- I2CBUS
  - TWRCARD
-

## 10003112 • 10003125

---

### 10003112    10003112

**Explanation:** I2C bus DASD backplane 3 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003113    10003113

**Explanation:** I2C bus adapter communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003114    10003114

**Explanation:** I2C bus PCI backplane communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003115    10003115

**Explanation:** I2C bus panel communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003116    10003116

**Explanation:** I2C bus fan local controller communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003118    10003118

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003121    10003121

**Explanation:** I2C bus 2 communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003122    10003122

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003123    10003123

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003124    10003124

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

### 10003125    10003125

**Explanation:** I2C bus SPCN VPD communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- TWRCARD

---

10003140    10003140

**Explanation:** Midplane VPD I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003141    10003141

**Explanation:** Conduit I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003142    10003142

**Explanation:** DASD backplane VPD I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003143    10003143

**Explanation:** Planar I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003144    10003144

**Explanation:** DCA0 I2C multiplexer (MUX) error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY

---

10003145    10003145

**Explanation:** DCA0 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- I2CBUS

---

10003146    10003146

**Explanation:** DCA0 I2C fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003147    10003147

**Explanation:** DCA0 I2C fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003148    10003148

**Explanation:** Port card 1 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

10003149    10003149

**Explanation:** Port card 2 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

1000314A    1000314A

**Explanation:** Port card 3 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

## 1000314B • 10006003

- I2CBUS
- PWRSPPLY

---

### 1000314B 1000314B

**Explanation:** Port card 4 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

### 10003154 10003154

**Explanation:** DCA1 I2C multiplexer (MUX) error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY

---

### 10003155 10003155

**Explanation:** DCA1 I2C error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRSPPLY
- I2CBUS

---

### 10003156 10003156

**Explanation:** DCA1 I2C fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

### 10003157 10003157

**Explanation:** DCA1 I2C fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- I2CBUS
- PWRSPPLY

---

### 10004600 10004600

**Explanation:** UPS Interface Failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- UPSUNIT
- TWRCARD

---

### 10004601 10004601

**Explanation:** UPS Interface Failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- UPSUNIT
- TWRCARD

---

### 10006000 10006000

**Explanation:** Midplane VPD error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

### 10006001 10006001

**Explanation:** Conduit card VPD data error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

### 10006002 10006002

**Explanation:** DASD backplane VPD data error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

### 10006003 10006003

**Explanation:** I/O planar InfiniBand cable short

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- CBLALL
-



---

**10006004**    **10006004**
**Explanation:** Chip fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VDPART
- 

**10006006**    **10006006****Explanation:** DCA0 VPD UFM, or flash error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
- 

**10006007**    **10006007****Explanation:** Hypervisor persistent data error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- NEXTLVL
- 

**10006008**    **10006008****Explanation:** The hypervisor persistent data was cleared**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- NEXTLVL
- 

**10006009**    **10006009****Explanation:** Port card 1 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VDPART
- 

**1000600A**    **1000600A****Explanation:** Port card 2 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VDPART
- 

---

**1000600B**    **1000600B**
**Explanation:** Port card 3 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VDPART
- 

**1000600C**    **1000600C****Explanation:** Port card 4 VPD error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VDPART
- 

**10006016**    **10006016****Explanation:** DCA1 VPD UFM, or flash error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWRSPPLY
- 

**10007208**    **10007208****Explanation:** DCA0 ambient temperature warning**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AMBTEMP
- 

**10007209**    **10007209****Explanation:** DCA0 ambient temperature error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AMBTEMP
- 

**1000720A**    **1000720A****Explanation:** I/O chip ambient temperature warning**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AMBTEMP
-

---

1000720B    1000720B

**Explanation:** I/O chip ambient temperature error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

10007218    10007218

**Explanation:** DCA1: ambient temperature warning

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

10007219    10007219

**Explanation:** DCA1: ambient temperature error

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AMBTEMP

---

10007600    10007600

**Explanation:** DCA0: fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

---

10007601    10007601

**Explanation:** DCA0: fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

---

10007602    10007602

**Explanation:** DCA1: fan 1 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

---

10007603    10007603

**Explanation:** DCA1: fan 2 fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR

---

10007610    10007610

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

10007611    10007611

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

10007620    10007620

**Explanation:** Fan Fault

**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

10007621    10007621

**Explanation:** Fan missing error

**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AIRMOVR
  - TWRCARD
-

---

**10007630**    **10007630**
**Explanation:** Fan Fault**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007631**    **10007631****Explanation:** Fan missing error**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007640**    **10007640****Explanation:** Fan Fault**Response:** The Fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007641**    **10007641****Explanation:** Fan missing error**Response:** A problem was detected with a Fan which can be caused by a Fan not being installed. Install Fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007650**    **10007650****Explanation:** Fan Fault**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10007651**    **10007651****Explanation:** Fan missing error**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AIRMOVR
  - TWRCARD
- 

**10008400**    **10008400****Explanation:** Configuration ID decode failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- PWR1917
  - TWRCARD
- 

**10008402**    **10008402****Explanation:** Unable to Collect VPD**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- VPDPART
  - TWRCARD
- 

**1000840D**    **1000840D****Explanation:** Configuration ID decode failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- IDPART
  - TWRCARD
- 

**1000840E**    **1000840E****Explanation:** Configuration ID decode failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- IDPART
  - TWRCARD
- 

**10008752**    **10008752****Explanation:** DCA0 firmware download failed**Response:** No action required. This reference code is logged for information only.

---

10008753    10008753

**Explanation:** DCA1 firmware download failed

**Response:** No action required. This reference code is logged for information only.

---

10008756    10008756

**Explanation:** DCA0 firmware download has started.

**Response:** No action required. This reference code is logged for information only.

---

10008757    10008757

**Explanation:** DCA1 firmware download has started.

**Response:** No action required. This reference code is logged for information only.

---

10008758    10008758

**Explanation:** DCA firmware download has ended.

**Response:** No action required. This reference code is logged for information only.

---

10008910    10008910

**Explanation:** External Netfinity Server 3.3V fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- ALTMANL
- TWRCARD

---

10008920    10008920

**Explanation:** External Netfinity server power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- ALTMANL

---

10008930    10008930

**Explanation:** Integrated Netfinity Adapter fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

10008940    10008940

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10008941    10008941

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10008942    10008942

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10008943    10008943

**Explanation:** External Netfinity Server R485 Communication fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10008A00    10008A00

**Explanation:** IO power control changed to another system unit

**Response:** No action required. This reference code is logged for information only.

---

10009002    10009002

**Explanation:** Received a bad return code

**Response:** The SPCN firmware has detected a condition that may require attention. Check error log for other errors that may have been reported at the

same time as this condition was reported. If this SRC persists contact next level of support.

---

10009012      10009012

**Explanation:** Address not valid.

**Response:** LIC command had a frame address that was not valid. Exchange the SPCN frame-to-frame cables to the failing frame. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10009013      10009013

**Explanation:** Invalid Node Address.

**Response:** The address in the SPCN command does not match the secondary nodes assigned address. Exchange the failing items for the SPCN node reporting the error. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

10009014      10009014

**Explanation:** A command has an invalid address mode.

**Response:** A command from the system unit specified a unit address of D or E or had a frame address of 00. Exchange the failing items in the system unit. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301
- TWRCARD

---

10009015      10009015

**Explanation:** An invalid rack command was encountered.

**Response:** Informational message: The command is invalid for the addressed rack and has not been executed. This status is also returned if the address mode is not valid for the command. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

10009016      10009016

**Explanation:** A command to an SPCN node was rejected.

**Response:** No action required. This reference code is logged for information only.

---

10009018      10009018

**Explanation:** An invalid modifier was found in a command.

**Response:** Informational message: This status is used by the slave, rack and CEC to identify invalid command modifier values in commands directed to the node. An APX command will be rejected by the CEC without transmission on the network if the modifier field contains an invalid address. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

10009019      10009019

**Explanation:** An invalid command was encountered.

**Response:** Informational message: The command is not valid for transmission on the network. The following conditions are detected by the CEC node during hypervisor command processing. The command is rejected directly by the CEC node for the following reasons:

- The command from the hypervisor was not defined.
- The RPF or RPN command from the hypervisor specified R = 0. (Programming cannot power the system off via this mechanism).
- The LSP subset command (0x'1X') was not addressed to a specific node.
- The APX command was not addressed to RRRR=01-3FFF, UU=0.
- A QSX command was not addressed to RRRR=0 , UU=D.

The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

1000901B      1000901B

**Explanation:** A CEC port addressing problem was found.

**Response:** Informational message: This status is inserted by the primary rack on broadcast commands to identify the location of the CEC node. This response is returned to node specific commands addressed to the CEC node using the CEC physical RRRRUU value. The CEC cannot be addressed with this address. The information found in this error log entry may be used

## 10009021 • 10009035

by product engineering to debug system power control network (SPCN) failures.

---

10009021    10009021

**Explanation:** A command to an SPCN node was rejected.

**Response:** No action required. This reference code is logged for information only.

---

10009022    10009022

**Explanation:** Addressed Unit not in frame.

**Response:** The addressed unit does not exist in the addressed frame. No action required. This reference code is logged for information only.

---

10009023    10009023

**Explanation:** Addressed Unit exists, but the frame is powered off.

**Response:** The addressed unit is in a frame that is powered off. No action required. This reference code is logged for information only.

---

10009024    10009024

**Explanation:** SPCN Licensed Internal Code not valid.

**Response:** The Licensed Internal Code in one of the secondary nodes is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

10009025    10009025

**Explanation:** SPCN Licensed Internal Code is not valid.

**Response:** The Licensed Internal Code in one of the frames is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

10009028    10009028

**Explanation:** SPCN Licensed Internal Code is not valid.

**Response:** The Licensed Internal Code in the primary node is not valid. The code will be reloaded. No action required. This reference code is logged for error analysis only.

---

10009029    10009029

**Explanation:** SPCN VPD Damaged

**Response:** The VPD record in the EEPROM has bad data. Exchange the failing items for the node reporting

the failure. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

1000902D    1000902D

**Explanation:** Addressed frame is not in SPCN configuration table.

**Response:** The addressed frame is not in the SPCN configuration table. No action required. This reference code is logged for information only.

---

10009031    10009031

**Explanation:** Frame-to-Frame Communications Failure

**Response:** The SPCN detected a BCC error on a transmission from another frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

10009032    10009032

**Explanation:** SPCN Communications Failure, unit to rack.

**Response:** The frame detected a BCC error on a transmission from a secondary node to the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

10009033    10009033

**Explanation:** SPCN Communications Failure, rack to unit.

**Response:** A secondary node detected a BCC error on a transmission from the frame. The transmission is attempted again. No action required. This reference code is logged for error analysis only.

---

10009034    10009034

**Explanation:** Unsupported Packet Size

**Response:** The receiving node detected a packet exceeding 70 bytes. The frame can also return this code if a secondary node returns more than 10 bytes to a PAS command. No action required. This reference code is logged for error analysis only.

---

10009035    10009035

**Explanation:** Secondary SPCN node timeout.

**Response:** A secondary SPCN node did not respond to a command. The command was attempted again and failed. No action required. This reference code is logged for error analysis only.

---

10009036    10009036

**Explanation:** Frame Timeout

**Response:** One or more frames did not respond to a command. The command is attempted again. No action required. This reference code is logged for error analysis only.

---

1000903B    1000903B

**Explanation:** Invalid Packet Length for data sent.

**Response:** The number of bytes sent or received does not match the number of bytes specified in the command. No action required. This reference code is logged for error analysis only.

---

10009041    10009041

**Explanation:** Invalid Load Type

**Response:** The down load was successful, but the wrong type of Licensed Internal Code was loaded. The operation was attempted again but was not successful. Exchange the failing items for the node reporting the fault. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- AJDG301
  - TWRCARD
- 

10009042    10009042

**Explanation:** EEPROM Failure

**Response:** The EEPROM in an SPCN node cannot be written successfully. Exchange the SPCN node reported in the failure. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

10009043    10009043

**Explanation:** Download Failure

**Response:** The Licensed Internal Code download to an SPCN node was completed but was not successful. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

10009046    10009046

**Explanation:** QDS Packet Sequence Error

**Response:** The Packet Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

10009047    10009047

**Explanation:** QDS Block Sequence Error

**Response:** The Block Sequence number is wrong. The download was stopped. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- 

10009048    10009048

**Explanation:** The SPCN ROS and EEPROM LIC is not compatible.

**Response:** The LIC levels in the nodes ROS and EEPROM are not compatible. Exchange the failing items for the failing node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
  - AJDG301
- 

10009080    10009080

**Explanation:** Undefined Status Code

**Response:** An SPCN node returned an unknown status code. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
  - SYSBKPL
- 

10009088    10009088

**Explanation:** A problem was found in the SPCN firmware.

**Response:** Informational message: A problem was found in the SPCN firmware. The information found in this error log entry may be used by product engineering to debug system power control network (SPCN) failures.

---

100090F0    100090F0

**Explanation:** A frame was dropped from the SPCN configuration.

**Response:** A frame was dropped from the SPCN configuration. This is usually caused by a loss of ac power or a problem with the frame-to-frame cable. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

## 100090F1 • 10009109

- PWR1907
- TWRCARD
- CBLALL

---

### 100090F1 100090F1

**Explanation:** A frame was added to the SPCN configuration.

**Response:** No action required. This reference code is logged for information only.

---

### 100090F2 100090F2

**Explanation:** Slave disappeared

**Response:** A slave was dropped from the SPCN configuration. This is usually caused by a loss of ac power. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

---

### 100090F3 100090F3

**Explanation:** Slave reappeared

**Response:** No action required. This reference code is logged for information only.

---

### 10009101 10009101

**Explanation:** VLIC-SPCN Timeout

**Response:** A Licensed Internal Code timeout occurred. The SPCN failed to respond to a Licensed Internal Code command. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 10009102 10009102

**Explanation:** Assign Permanent Address command failure

**Response:** A node failed to perform an Assign Permanent Address command. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 10009103 10009103

**Explanation:** Download Initialize Timeout

**Response:** An SPCN node failed to enter the download state after an Initialize for Download command. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 10009104 10009104

**Explanation:** Download Completion Timeout

**Response:** An SPCN node failed to leave the download state. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 10009105 10009105

**Explanation:** Load Damaged Timeout

**Response:** An SPCN node failed to enter the operational state. Exchange the failing SPCN node. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD

---

### 10009106 10009106

**Explanation:** An SPCN LID was not found.

**Response:** No action required. This reference code is logged for information only.

---

### 10009107 10009107

**Explanation:** An SPCN microcode download is required.

**Response:** No action required. This reference code is logged for error analysis only.

---

### 10009108 10009108

**Explanation:** A status change occurred in one of the SPCN nodes.

**Response:** No action required. This reference code is logged for information only.

---

### 10009109 10009109

**Explanation:** Licensed Internal Code part number is not correct.

**Response:** The AROS part number field was not updated to the correct level after the system attempted to load new Licensed Internal Code. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD



---

**1000910A**    **1000910A****Explanation:** RIO Download Required**Response:** No action required. This reference code is logged for information only.

---

**1000910B**    **1000910B****Explanation:** Maximum number of retries exceeded**Response:** No action required. This reference code is logged for information only.

---

**10009111**    **10009111****Explanation:** SPCN is too large for hypervisor.**Response:** There are more nodes in the network than the hypervisor can service. Go to System Configuration in ASMI . Under Configure I/O Enclosures select Clear Inactive Enclosures. If the error persists follow the instructions for the items listed in the FRU List.**Failing Item:**

- AJDG301

---

**10009112**    **10009112****Explanation:** Primary SPCN node is reporting load damaged.**Response:** The Licensed Internal Code for the primary SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009113**    **10009113****Explanation:** Secondary SPCN node is reporting load damaged.**Response:** The Licensed Internal Code for the secondary SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009114**    **10009114****Explanation:** Frame SPCN node is reporting load damaged.**Response:** The Licensed Internal Code for a SPCN node is damaged. The reload failed because the code could not be found. Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**10009115**    **10009115****Explanation:** SPCN Command rejected by the firmware.**Response:** The service processor rejected an SPCN command from the Licensed Internal Code. No action required. This reference code is logged for information only.

---

**10009116**    **10009116****Explanation:** SPCN - Control Panel interface failure.**Response:** The SPCN to control panel interface is not working.

---

**10009117**    **10009117****Explanation:** SPCN - Control Panel interface is now working.**Response:** The SPCN to control panel interface is now working. No action required. This reference code is logged for information only.

---

**10009118**    **10009118****Explanation:** Hypervisor out of memory**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AJDG301

---

**10009119**    **10009119****Explanation:** NVRAM Write Failed**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- TWRCARD

---

**1000911A**    **1000911A****Explanation:** Too many racks attached**Response:** Reduce the number of racks to maximum configuration on the system.

---

**1000911B**    **1000911B****Explanation:** SPCN CEC node code failure**Response:** Follow the instructions for the items listed in the FRU List.**Failing Item:**

- AJDG301

## 1000911C • 10009138

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1000911C    1000911C

**Explanation:** Two nodes have same VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- VPDPART

---

1000911D    1000911D

**Explanation:** RIO Download Failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- SI\_CARD

---

1000911E    1000911E

**Explanation:** Temporary VPD written

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRVPD

---

1000911F    1000911F

**Explanation:** CEC not found

**Response:** Call your next level of support.

---

10009120    10009120

**Explanation:** Duplicate backplane VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- SYSBKPL

---

10009131    10009131

**Explanation:** Invalid XM Return Code

**Response:** No action required. Logged for error analysis only.

---

10009132    10009132

**Explanation:** Node contains temporary VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWRVPD

---

10009133    10009133

**Explanation:** Bad PCI Correlation Problem

**Response:** PCI bus not matched. Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

**Failing Item:**

- CBLALL

---

10009134    10009134

**Explanation:** PCI bus VPD error

**Response:** Check Error Log for B700 xxxx Reference Codes.

---

10009135    10009135

**Explanation:** Open SPCN Loop

**Response:** Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

**Failing Item:**

- CBLALL
- TWRCARD

---

10009136    10009136

**Explanation:** The manually started download was interrupted

**Response:** Needs to be Manually restarted

---

10009137    10009137

**Explanation:** Bad PCI Correlation Problem

**Response:** SPCN node not matched. Follow the instructions for the items listed in the FRU list. If this SRC is logged during a concurrent maintenance operation, it is informational only and can be ignored.

**Failing Item:**

- CBLALL

---

10009138    10009138

**Explanation:** Bad Location Code

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- CBLALL

---

10009139    10009139

**Explanation:** Open SPCN loop resolved

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- TWRCARD

---

1000913A    1000913A

**Explanation:** RIO download sent retry

**Response:** No action required. This reference code is logged for information only.

---

1000913B    1000913B

**Explanation:** Go to ASMi to start a download manually

**Response:** Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- PWR1907

---

100091DD    100091DD

**Explanation:** All SPCN Downloads Complete

**Response:** No action required. This reference code is logged for information only.

---

100091DE    100091DE

**Explanation:** RIO Download Complete

**Response:** No action required. This reference code is logged for information only.

---

100091FB    100091FB

**Explanation:** Write VPD on next IPL

**Response:** No action required. This reference code is logged for information only.

---

1000C62E    1000C62E

**Explanation:** Polling error

**Response:** An SPCN frame-to-frame communication failure was detected. Follow the instructions for the items listed in the FRU List.

**Failing Item:**

- TWRCARD
- CBLALL

---

1000CB15    1000CB15

**Explanation:** EEPROM Failure.

**Response:** Follow the instructions for the items listed in the FRU List.



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## (1100) Reference codes

---

11000AC 11000AC

**Explanation:** Detected AC loss

**Response:** If system powers on normally or stays powered on after AC power failure, no replacement of parts may be needed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ACMODUL

---

11000AD 11000AD

**Explanation:** A reset of the service processor caused the system to power off.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

---

11001510 11001510

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

11001511 11001511

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

11001512 11001512

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD
- CBLALL

---

11001513 11001513

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

11001514 11001514

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

1100151E 1100151E

**Explanation:** The power supply fan on Un-E1 experienced a short stoppage, but recovered. The power supply should be replaced as soon as possible before the fan fails permanently.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

## 1100151F • 1100152F

---

### 1100151F 1100151F

**Explanation:** The power supply fan on Un-E1 failed. The power supply should be replaced as soon as possible.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001520 11001520

**Explanation:** Detected AC loss

**Response:** Before replacing any parts, verify that the AC input voltage is correct. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001521 11001521

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001522 11001522

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD
- CBLALL

---

### 11001523 11001523

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 11001524 11001524

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 1100152E 1100152E

**Explanation:** The power supply fan on Un-E2 experienced a short stoppage, but recovered. The power supply should be replaced as soon as possible before the fan fails permanently.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
- TWRCARD

---

### 1100152F 1100152F

**Explanation:** The power supply fan on Un-E2 failed. The power supply should be replaced as soon as possible.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
-

---

**11001611**    **11001611****Explanation:** Regulator 1 Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001612**    **11001612****Explanation:** Regulator 1 Communication Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001613**    **11001613****Explanation:** Regulator 1 Domain Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001621**    **11001621****Explanation:** Regulator 2 Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001622**    **11001622****Explanation:** Regulator 2 Communication Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001623**    **11001623****Explanation:** Regulator 2 Domain Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001631**    **11001631****Explanation:** Regulator 3 Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001632**    **11001632****Explanation:** Regulator 3 Communication Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11001633**    **11001633****Explanation:** Regulator 3 Domain Fault**Response:** Follow the instructions for the items listed in the FRU List.**Problem determination:** No additional problem determination.**Failing Item:**

- PWR1918
  - TWRCARD
-

---

110016F1    110016F1

**Explanation:** No power supplies detected in drawer number 1

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

110016F2    110016F2

**Explanation:** No power supplies detected in drawer number 2

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

110016F3    110016F3

**Explanation:** No power supplies detected in drawer number 3

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

110016F4    110016F4

**Explanation:** No power supplies detected in drawer number 4

**Response:** Perform the following in order:

- Check for system firmware updates; apply if available.
- Replace the primary service processor.
- Replace the backplane in the failing drawer.
- Replace all of the power supplies in the failing drawer.

**Problem determination:** No additional problem determination.

---

11001B01    11001B01

**Explanation:** Level 1 load fault (+12V)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900

---

11001B02    11001B02

**Explanation:** Load fault on the +5V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900
- TWRCARD

---

11001B03    11001B03

**Explanation:** Load fault on the +3.3V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1900
- TWRCARD

---

11001B05    11001B05

**Explanation:** Load fault on the +1.8V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

---

11001B06    11001B06

**Explanation:** Load fault on the +2.5V bus

**Response:** Follow the instructions for the items listed in the FRU List.



**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001B0A 11001B0A**

**Explanation:** Load Fault on the +12V/-12v bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001B0F 11001B0F**

**Explanation:** Load Fault on the +1.2V bus

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C10 11001C10**

**Explanation:** Regulator Level 1 Load Fault (1.1A)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C11 11001C11**

**Explanation:** Regulator Level 2 Load Fault (1.1B)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C12 11001C12**

**Explanation:** Regulator Level 2 Load Fault (1.8)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C13 11001C13**

**Explanation:** Regulator Level 2 Load Fault (1.2A)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C14 11001C14**

**Explanation:** Regulator Level 2 Load Fault (1.25)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001C15 11001C15**

**Explanation:** Regulator Level 2 Load Fault (1.2B)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1904
- TWRCARD

**11001D60 11001D60**

**Explanation:** RIO Adapter Card 1 Softswitch fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

## 11001D63 • 11002613

**Failing Item:**

- SI\_CARD
- TWRCARD

---

**11001D63    11001D63**

**Explanation:** RIO Adapter Card 2 Softswitch fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SI\_CARD
- TWRCARD

---

**11001F01    11001F01**

**Explanation:** TMS limit reached - log only

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

**11001F02    11001F02**

**Explanation:** SPCN trace information saved

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

**11001F03    11001F03**

**Explanation:** Invalid TMS or location code; log only.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

**11002600    11002600**

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PGDPART

---

**11002602    11002602**

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- TWRCARD

---

**11002603    11002603**

**Explanation:** Power Good Fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PGDPART

---

**11002610    11002610**

**Explanation:** A power signal failure has been detected

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

**11002611    11002611**

**Explanation:** A power signal failure has been detected

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

**11002613    11002613**

**Explanation:** 100V check fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- CBLALL
- SYSBKPL

---

**11002614**    **11002614**

**Explanation:** The power supplies are mismatched; one is ac, and one is dc.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPLY
- 

**11002620**    **11002620**

**Explanation:** 12V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL
- 

**11002622**    **11002622**

**Explanation:** 1.52V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002623**    **11002623**

**Explanation:** 1.8V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002624**    **11002624**

**Explanation:** 5.0V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002625**    **11002625**

**Explanation:** 3.3V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002626**    **11002626**

**Explanation:** 2.5V power-good input fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002627**    **11002627**

**Explanation:** GX slot 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002629**    **11002629**

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL
- 

**1100262A**    **1100262A**

**Explanation:** GX slot 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100262B**    **1100262B**

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

## 1100262C • 11002635

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

1100262C    1100262C

**Explanation:** DASD 5V regulator P\_GOOD fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

1100262D    1100262D

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

1100262E    1100262E

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

1100262F    1100262F

**Explanation:** P\_GOOD fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

11002630    11002630

**Explanation:** Processor 2 P7\_VRM pgood fault (pluggable)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

11002632    11002632

**Explanation:** Processor 1 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

---

11002633    11002633

**Explanation:** Processor 1 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- SYSBKPL

---

11002634    11002634

**Explanation:** Processor 1 1.8V VRM or processor 1 power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- SYSBKPL

---

11002635    11002635

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918

---

**11002636**    **11002636**

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**1100263A**    **1100263A**

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100263B**    **1100263B**

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100263C**    **1100263C**

**Explanation:** Memory card 1 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002640**    **11002640**

**Explanation:** Processor 1 P7\_VRM pgood fault (pluggable)

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002642**    **11002642**

**Explanation:** Processor 2 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
- 

**11002643**    **11002643**

**Explanation:** Processor 2 1.8V VRM or processor 2 power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
  - SYSBKPL
- 

**11002645**    **11002645**

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**1100264A**    **1100264A**

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100264B**    **1100264B**

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100264C**    **1100264C**

**Explanation:** Memory card 2 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

11002650      11002650

**Explanation:** Processor 3 VRM 1A or 1B power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

---

11002652      11002652

**Explanation:** Processor 3 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

---

11002653      11002653

**Explanation:** Processor 3 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- SYSBKPL

---

11002654      11002654

**Explanation:** Processor 3 1.8V VRM or processor 3 power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- SYSBKPL

---

1100265A      1100265A

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

1100265B      1100265B

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

1100265C      1100265C

**Explanation:** Memory card 3 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

11002660      11002660

**Explanation:** Processor 4 VRM 1A or 1B power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- ANYPROC
- SYSBKPL

---

11002662      11002662

**Explanation:** Processor 4 VRM2 array power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - ANYPROC
  - SYSBKPL
-

---

**11002663**    **11002663**

**Explanation:** Processor 4 1.2V VRM power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - SYSBKPL
- 

**11002664**    **11002664**

**Explanation:** Processor 4 1.8V VRM failed or processor 4 power-good fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
  - SYSBKPL
- 

**1100266A**    **1100266A**

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100266B**    **1100266B**

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**1100266C**    **1100266C**

**Explanation:** Memory card 4 pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002690**    **11002690**

**Explanation:** Processor 1 and 2 VDDA pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002691**    **11002691**

**Explanation:** Processor 1 and 2 VSN pgood fault.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

**11002700**    **11002700**

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002701**    **11002701**

**Explanation:** VRM fault on the processor card.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002702**    **11002702**

**Explanation:** VRM fault on the DASD backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
- 

**11002703**    **11002703**

**Explanation:** VRM fault on the DASD backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
-

---

11002704    11002704

**Explanation:** VRM fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

11002705    11002705

**Explanation:** VRM fault on the I/O backplane.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

11002800    11002800

**Explanation:** The system was automatically shut down because the top cover was removed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- LDSWTCH

---

11003100    11003100

**Explanation:** Service processor I2C failure

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- I2CBUS
- TWRCARD

---

11003105    11003105

**Explanation:** Service processor I2C failure.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

---

11003114    11003114

**Explanation:** Service processor I2C failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- I2CBUS
- SYSBKPL
- TWRCARD

---

11003116    11003116

**Explanation:** I2C failure: blower control chip

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- SYSBKPL

---

11003120    11003120

**Explanation:** VRM failure

**Response:** Follow the instructions for the items listed in the FRU list in the error log entry.

**Problem determination:** No additional problem determination.

---

11004201    11004201

**Explanation:** UPS reported: utility failure signal is on

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

11004203    11004203

**Explanation:** UPS reported: battery low signal is on

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

11004600    11004600

**Explanation:** UPS interface failure

**Response:** Follow the instructions for the items listed in the FRU List.



**Problem determination:** No additional problem determination.

**Failing Item:**

- UPSUNIT
- TWRCARD

**11004601      11004601**

**Explanation:** UPS interface failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- UPSUNIT
- TWRCARD

**11005000      11005000**

**Explanation:** Service processor fail over failed due to configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

**11005001      11005001**

**Explanation:** Service processor fail over failed due to configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- TWRCARD

**11005010      11005010**

**Explanation:** SPCN ports not present. mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- CBLALL

**11007110      11007110**

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPLY
- TWRCARD

**11007120      11007120**

**Explanation:** Power supply failure

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPLY
- TWRCARD

**11007200      11007200**

**Explanation:** The system is located at an altitude greater than 4000 meters (13,120 feet). This is outside the range of the system specifications.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ALTITUDE

**11007201      11007201**

**Explanation:** Ambient temperature is out of range

**Response:** Follow the procedure for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

**11007202      11007202**

**Explanation:** Ambient temperature is back in range

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

11007203      11007203

**Explanation:** Ambient temperature exceeded limit

**Response:** The system will shut down in 15 minutes. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

---

11007205      11007205

**Explanation:** Ambient temperature exceeded limit

**Response:** The system will shut down in 20 seconds. Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

---

11007207      11007207

**Explanation:** Ambient temperature has dropped below the low temperature limit.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTEMP

---

11007211      11007211

**Explanation:** Ambient temperature is out of range

**Response:** Ambient temperature is above nominal for CPU performance. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTMP1

---

11007212      11007212

**Explanation:** Ambient temperature is back in range

**Response:** Ambient temperature has returned to nominal.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBTMP2

---

11007220      11007220

**Explanation:** The system is located at an altitude that is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Response:** The system is located at an altitude that is within the range of the system specification, but the thermal/power management firmware may reduce performance due to the altitude.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ALTPERF

---

11007221      11007221

**Explanation:** The ambient temperature is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Response:** The ambient temperature is outside the range of the system performance specification, and the thermal/power management firmware may reduce performance in heavy workload situations.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AMBPERF

---

11007222      11007222

**Explanation:** The ambient temperature is back in range.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

11007610      11007610

**Explanation:** Fan fault

**Response:** The fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR

- TWRCARD

---

**11007611**    **11007611**

**Explanation:** Fan missing error

**Response:** A problem was detected with a fan which can be caused by a fan not being installed. Install fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007620**    **11007620**

**Explanation:** Fan fault

**Response:** The fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007621**    **11007621**

**Explanation:** Fan missing error

**Response:** A problem was detected with a fan which can be caused by a fan not being installed. Install fan if missing, replace if already installed. Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007630**    **11007630**

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007631**    **11007631**

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007640**    **11007640**

**Explanation:** A fan is operating at the wrong speed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**11007641**    **11007641**

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

**110076A0**    **110076A0**

**Explanation:** A problem was detected with a fan. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

## 110076A1 • 11008405

- AIRMOVR
- TWRCARD

---

### 110076A1 110076A1

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 110076B0 110076B0

**Explanation:** A problem was detected with a fan. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 110076B1 110076B1

**Explanation:** A problem was detected with a fan which can be caused by a fan not being installed. Install the fan if it is missing; replace it if already installed. Follow the instructions for the items listed in the FRU list.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AIRMOVR
- TWRCARD

---

### 110076C0 110076C0

**Explanation:** Fan fault on a GX++ adapter card

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 110076C1 110076C1

**Explanation:** Fan fault on a GX++ adapter card

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

---

### 11008400 11008400

**Explanation:** No VPD was found due to invalid bypass

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- AJDG301

---

### 11008402 11008402

**Explanation:** Unable to collect VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

### 11008404 11008404

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

### 11008405 11008405

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- TWRCARD

---

**11008406**    **11008406**

**Explanation:** Processor unit VPD mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008409**    **11008409**

**Explanation:** No processor installed

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008413**    **11008413**

**Explanation:** Invalid processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008414**    **11008414**

**Explanation:** Invalid processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008415**    **11008415**

**Explanation:** Invalid processor 3 VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- 

**11008416**    **11008416**

**Explanation:** Invalid processor 4 VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- ANYPROC
- 

**11008423**    **11008423**

**Explanation:** No processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008424**    **11008424**

**Explanation:** No processor VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008442**    **11008442**

**Explanation:** An attempt was made to enable TurboMode, but one or more processor cards in the system is not TurboMode-capable.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
-

---

**11008443**    **11008443**

**Explanation:** A drawer was added to a system that has TurboMode enabled, but the newly-added drawer is not TurboMode-capable.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- 

**11008444**    **11008444**

**Explanation:** A TurboMode register failed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- 

**11008450**    **11008450**

**Explanation:** SPCN configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11008451**    **11008451**

**Explanation:** SPCN configuration mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11008452**    **11008452**

**Explanation:** Wrong power supply installed.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**11008453**    **11008453**

**Explanation:** There is an extra processor voltage regulator in the system.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11008454**    **11008454**

**Explanation:** A fan is installed at location Un-A3 in a single-socket system. This configuration is not valid.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11008455**    **11008455**

**Explanation:** Power supply missing

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
- 

**11008456**    **11008456**

**Explanation:** Power supply missing

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWRSPPLY
  - TWRCARD
-

---

**11008457**    **11008457**

**Explanation:** The wrong processor VRMs are installed in the system; high-power VRMs are required.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR1918
  - TWRCARD
- 

**11008460**    **11008460**

**Explanation:** All PWR nodes guarded

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

---

**11008480**    **11008480**

**Explanation:** The DIMM or DIMM controller ID data is missing or corrupt.

**Response:** No action required. This reference code is logged for information only.

**Problem determination:** No additional problem determination.

**Failing Item:**

- FSPSP04
- 

**110084A1**    **110084A1**

**Explanation:** Invalid power distribution backplane VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
- 

**110084A2**    **110084A2**

**Explanation:** Power distribution backplane mismatch

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART

- TWRCARD
- 

**110084A3**    **110084A3**

**Explanation:** Invalid service processor card VPD

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**110084A4**    **110084A4**

**Explanation:** Service processor card mismatch.

**Response:** Follow the instructions for the items listed in the FRU List.

**Problem determination:** No additional problem determination.

**Failing Item:**

- VPDPART
  - TWRCARD
- 

**11008700**    **11008700**

**Explanation:** BPC A lost input power

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR2402
- 

**11008701**    **11008701**

**Explanation:** BPC B lost input power

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

**Failing Item:**

- PWR2402
- 

**11008710**    **11008710**

**Explanation:** DCA 1 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008711    11008711

**Explanation:** DCA 2 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008712    11008712

**Explanation:** DCA 3 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008713    11008713

**Explanation:** DCA 4 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008714    11008714

**Explanation:** DCA 5 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008715    11008715

**Explanation:** DCA 6 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008716    11008716

**Explanation:** DCA 7 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008717    11008717

**Explanation:** DCA 8 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

11008718    11008718

**Explanation:** DCA 10 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

1100871A    1100871A

**Explanation:** DCA 11 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

1100871B    1100871B

**Explanation:** DCA 12 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

1100871C    1100871C

**Explanation:** DCA 13 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

1100871D    1100871D

**Explanation:** DCA 14 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

1100871E    1100871E

**Explanation:** DCA 15 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---



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**1100871F**      **1100871F**

**Explanation:** DCA 16 UART communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008720**      **11008720**

**Explanation:** BPC A Ethernet communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008721**      **11008721**

**Explanation:** BPC B Ethernet communication fault

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008724**      **11008724**

**Explanation:** BPC A machine type/model/serial number mismatch

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008725**      **11008725**

**Explanation:** BPC B machine type/model/serial number mismatch

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008731**      **11008731**

**Explanation:** BPC critical fault; none of the nodes in the system can be powered on.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---



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**11008732**      **11008732**

**Explanation:** BPC critical fault; there's a CEC cage ID mismatch due to a cabling error.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008733**      **11008733**

**Explanation:** BPC critical fault; no nodes are present to power on.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008734**      **11008734**

**Explanation:** BPC fault; service processor error log collection failed.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008735**      **11008735**

**Explanation:** Service processor fault; no BPC IP addresses were found.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008740**      **11008740**

**Explanation:** BPC A failed to reach standby.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---

**11008741**      **11008741**

**Explanation:** BPC B failed to reach standby.

**Response:** Follow the instructions for the items listed in the FRU list.

**Problem determination:** No additional problem determination.

---



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## (1402) Reference codes

The bulk power subsystem reference codes are issued from the 24-inch power subsystem and are meant to be serviced through the management console. This list of (1402) reference codes is included here for informational use only.

**Note:** Serviceable actions for the following SRCs require that you use the management console to access more specific information, including isolation procedures, MAPs, and instruction on how to remove and replace parts.

---

**14020018**      **14020018**

**Explanation:** The P1 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P1\_NODE

---

**14020019**      **14020019**

**Explanation:** One VTM has broadcast an alert from the indicated node. This is an informational only SRC and has no system impact.

---

**14020020**      **14020020**

**Explanation:** The P2 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P2\_NODE

---

**14020021**      **14020021**

**Explanation:** The P3 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P3\_NODE

---

**14020022**      **14020022**

**Explanation:** The P4 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P4\_NODE

---

**14020023**      **14020023**

**Explanation:** The P5 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P5\_NODE

---

**14020024**      **14020024**

**Explanation:** The P6 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P6\_NODE

---

**14020025**      **14020025**

**Explanation:** The P7 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P7\_NODE

---

**14020026**      **14020026**

**Explanation:** The P8 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P8\_NODE

---

**14020027**      **14020027**

**Explanation:** The P9 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P9\_NODE

---

**14020028**      **14020028**

**Explanation:** The P10 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P10\_NODE

---

**14020029**      **14020029**

**Explanation:** The P11 node has indicated a critical VTM failure and needs to be replaced.

**Failing Item:**

- P11\_NODE

---

**14020030**      **14020030**

## 14020056 • 14020075

**Explanation:** The P12 node has indicated a critical VTМ failure and needs to be replaced.

**Failing Item:**

- P12\_NODE

---

14020056      14020056

**Explanation:** Water Moving Device number three is defective.

**Failing Item:**

- MDAW-3
- MWU-3

---

14020057      14020057

**Explanation:** Water Moving Device number four is defective.

**Failing Item:**

- MDAW-4
- MWU-4

---

14020058      14020058

**Explanation:** Water Moving Device number one is defective.

**Failing Item:**

- MDAW-1
- MWU-1

---

14020059      14020059

**Explanation:** Water Moving Device number two is defective.

**Failing Item:**

- MDAW-2
- MWU-2

---

14020060      14020060

**Explanation:** Air Moving Device number one is defective.

**Failing Item:**

- MDAA-1
- MSAA-1

---

14020061      14020061

**Explanation:** Air Moving Device number two is defective.

**Failing Item:**

- MDAA-2
- MSAA-2

---

14020062      14020062

**Explanation:** Air Moving Device number three is defective.

**Failing Item:**

- MDAA-3
- MSAA-3

---

14020063      14020063

**Explanation:** Air Moving Device number four is defective.

**Failing Item:**

- MDAA-4
- MSAA-4

---

14020072      14020072

**Explanation:** The ambient room temperature is out of specification (to hot). The sensors are located in the EPO panel and read/converted by the BPC or BPCH.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14020073      14020073

**Explanation:** The ambient room temperature is out of specification (to cold). The sensors are located in the EPO panel and read/converted by the BPC or BPCH.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14020074      14020074

**Explanation:** The chilled input water to MWU1 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU1) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

14020075      14020075

**Explanation:** The chilled input water to MWU2 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU2) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14020076**      **14020076**

**Explanation:** The chilled input water to MWU1 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU1) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14020077**      **14020077**

**Explanation:** The chilled input water to MWU2 is out of specification (to Hot) or there is an issue with flow. ((Monitored by MWU2) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU
- 

**14020078**      **14020078**

**Explanation:** Logic on a PU book has reached a warning level. Next level of support should be notified of potential problem.

---

**14020079**      **14020079**

**Explanation:** All DCAs have detected a critical logic over temperature in the called PU enclosure.

**Failing Item:**

- ANY-NODE
- 

**1402007A**      **1402007A**

**Explanation:** A fault has been detected on MCM1 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM1
- 

**1402007B**      **1402007B**

**Explanation:** A fault has been detected on MCM2 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM2
- 

**1402007C**      **1402007C**

**Explanation:** A fault has been detected on MCM3 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM3
- 

**1402007D**      **1402007D**

**Explanation:** A fault has been detected on MCM4 in the PU book indicated in failure information. See Power fault reason code for further information and contact next level of support.

**Failing Item:**

- MCM4
- 

**1402007E**      **1402007E**

**Explanation:** There is a problem with sensed and passed configuration of the MCMs that are installed in the system.

---

**1402007F**      **1402007F**

**Explanation:** LGA shorts test has failed.

**Failing Item:**

- MCM1
  - MCM2
  - ANY-NODE
- 

**14020080**      **14020080**

**Explanation:** All DCAs in CEC assembly have recieved bad voltage settings from VPD. Contact next level of support for resolution of this issue. The affected hardware will not power on.

---

**14020081**      **14020081**

**Explanation:** Input power to BPA A has been lost or partially lost.

**Failing Item:**

- BPR-1A
  - BPR-2A
  - BPR-3A
  - CBL-PWRC-BPE-A1-PWR
  - BPC-A
  - BPE-BOARD-A
- 

**14020082**      **14020082**

**Explanation:** The input power to BPA B has been lost or partially lost.

**Failing Item:**

- BPR-1B
- BPR-2B
- BPR-3B
- CBL-PWRC-BPE-B1-PWR
- BPC-B

## 14020083 • 14020093

- BPE-BOARD-B

---

### 14020083    14020083

**Explanation:** Input power to BPA A has been lost or partially lost.

**Failing Item:**

- BPR-4A
- BPR-5A
- BPR-6A
- CBL-PWRC-BPE-A2-PWR
- BPC-A
- BPE-BOARD-A

---

### 14020084    14020084

**Explanation:** Input power to BPA B has been lost or partially lost.

**Failing Item:**

- BPR-4B
- BPR-5B
- BPR-6B
- CBL-PWRC-BPE-B2-PWR
- BPC-B
- BPE-BOARD-B

---

### 14020085    14020085

**Explanation:** The thermal sensor(s) on a PU book has indicated a thermal problem and one or more DCAs have turned off. Notify next level of support for further action.

---

### 14020086    14020086

**Explanation:** BPA A has determined that there is an unsupported mix of different BPR part numbers. IBM support should identify that the proper parts are in the BPA and which to remove.

---

### 14020087    14020087

**Explanation:** BPA B has determined that there is an unsupported mix of different BPR part numbers. IBM support should identify that the proper parts are in the BPA and which to remove.

---

### 14020088    14020088

**Explanation:** The chilled input water to MWU3 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU3) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14020089    14020089

**Explanation:** The chilled input water to MWU4 is out of specification (to Hot) or there is an issue with flow. (Monitored by MWU4) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 1402008A    1402008A

**Explanation:** The chilled input water to MWU3 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU3) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 1402008B    1402008B

**Explanation:** The chilled input water to MWU4 is out of specification (to cold) or there is an issue with flow. (Monitored by MWU4) If unable to correct contact IBM support.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14020090    14020090

**Explanation:** Input power has reached a low threshold on BPA A line cord 1. Input should be corrected or contact next level of service support for assistance.

---

### 14020091    14020091

**Explanation:** Input power has reached a high threshold on BPA A line cord 2. Input should be corrected or contact next level of service support for assistance.

---

### 14020092    14020092

**Explanation:** Input power has reached a low threshold on BPA B line cord 1. Input should be corrected or contact next level of service support for assistance.

---

### 14020093    14020093

**Explanation:** Input power has reached a high threshold on BPA B line cord 2. Input should be corrected or contact next level of service support for assistance.

---

**140200F0**    **140200F0**

**Explanation:** The temperature sensed in a PU book has reached a warning level. Next level of support should be notified of potential problem.

---

**140200F1**    **140200F1**

**Explanation:** The temperature sensed in a PU book has returned to normal from a warning level. Next level of support should be notified of potential problem.

---

**140200F2**    **140200F2**

**Explanation:** The temperature sensed in a PU book is approaching a critical level. Next level of support should be notified of potential problem.

---

**140200F3**    **140200F3**

**Explanation:** The temperature sensed in a PU book has returned to normal. Next level of support should be notified of potential problem.

---

**140200F4**    **140200F4**

**Explanation:** The room temperature sensed at the UEPO switch has returned to normal. Next level of support should be notified of potential problem.

---

**140200F5**    **140200F5**

**Explanation:** The input water temperature sensed by MWU1 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200F6**    **140200F6**

**Explanation:** The input water temperature sensed by MWU2 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200F7**    **140200F7**

**Explanation:** Low power mode has been entered. This src is for information only and is not by itself an indication of error.

---

**140200F8**    **140200F8**

**Explanation:** Low power mode has been exited. This src is for information only and is not by itself an indication of error.

---

---

**140200F9**    **140200F9**

**Explanation:** The input water temperature sensed by MWU3 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140200FA**    **140200FA**

**Explanation:** The input water temperature sensed by MWU4 has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FB**    **140200FB**

**Explanation:** The temperature sensed by BPA A has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FC**    **140200FC**

**Explanation:** The temperature sensed by BPA B has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FD**    **140200FD**

**Explanation:** The Ambient Room Humidity has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**140200FE**    **140200FE**

**Explanation:** The Room Dew Point value has returned to normal. IBM support should be notified of potential problem if this occurs without cause being identified.

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**14020100**    **14020100**

**Explanation:** The voltage on voltage level 0 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020101**    **14020101**

**Explanation:** The voltage on voltage level 1 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020102**    **14020102**

**Explanation:** The voltage on voltage level 2 has reached the warning undervoltage limit for the specified cage or drawer.

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## 14020103 • 14020122

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14020103    14020103

**Explanation:** The voltage on voltage level 3 has reached the warning undervoltage limit for the specified cage or drawer.

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14020104    14020104

**Explanation:** The voltage on voltage level 4 has reached the warning undervoltage limit for the specified cage or drawer.

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14020105    14020105

**Explanation:** The voltage on voltage level 5 has reached the warning undervoltage limit for the specified cage or drawer.

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14020106    14020106

**Explanation:** The voltage on voltage level 6 has reached the warning undervoltage limit for the specified cage or drawer.

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14020107    14020107

**Explanation:** The voltage on voltage level 7 has reached the warning undervoltage limit for the specified cage or drawer.

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14020108    14020108

**Explanation:** The voltage on voltage level 8 has reached the warning undervoltage limit for the specified cage or drawer.

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14020109    14020109

**Explanation:** The voltage on voltage level 9 has reached the warning undervoltage limit for the specified cage or drawer.

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14020110    14020110

**Explanation:** The voltage on voltage level 10 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020111    14020111

**Explanation:** The voltage on voltage level 11 has reached the warning undervoltage limit for the specified cage or drawer.

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14020112    14020112

**Explanation:** The voltage on voltage level 12 has reached the warning undervoltage limit for the specified cage or drawer.

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14020113    14020113

**Explanation:** The voltage on voltage level 13 has reached the warning undervoltage limit for the specified cage or drawer.

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14020114    14020114

**Explanation:** The voltage on voltage level 14 has reached the warning undervoltage limit for the specified cage or drawer.

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14020115    14020115

**Explanation:** The voltage on voltage level 15 has reached the warning undervoltage limit for the specified cage or drawer.

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14020116    14020116

**Explanation:** The voltage on voltage level 16 has reached the warning undervoltage limit for the specified cage or drawer.

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14020117    14020117

**Explanation:** The voltage on voltage level 17 has reached the warning undervoltage limit for the specified cage or drawer.

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14020118    14020118

**Explanation:** The voltage on voltage level 18 has reached the warning undervoltage limit for the specified cage or drawer.

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14020119    14020119

**Explanation:** The voltage on voltage level 19 has reached the warning undervoltage limit for the specified cage or drawer.

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14020120    14020120

**Explanation:** The voltage on voltage level 20 has reached the warning undervoltage limit for the specified cage or drawer.

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14020121    14020121

**Explanation:** The voltage on voltage level 21 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020122    14020122

**Explanation:** The voltage on voltage level 22 has reached the warning undervoltage limit for the specified cage or drawer.



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**14020123**    **14020123**

**Explanation:** The voltage on voltage level 23 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020124**    **14020124**

**Explanation:** The voltage on voltage level 24 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020125**    **14020125**

**Explanation:** The voltage on voltage level 25 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020126**    **14020126**

**Explanation:** The voltage on voltage level 26 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020127**    **14020127**

**Explanation:** The voltage on voltage level 27 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020128**    **14020128**

**Explanation:** The voltage on voltage level 28 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020129**    **14020129**

**Explanation:** The voltage on voltage level 29 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020130**    **14020130**

**Explanation:** The voltage on voltage level 30 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020131**    **14020131**

**Explanation:** The voltage on voltage level 31 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020132**    **14020132**

**Explanation:** The voltage on voltage level 32 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020133**    **14020133**

**Explanation:** The voltage on voltage level 33 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020134**    **14020134**

**Explanation:** The voltage on voltage level 34 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020135**    **14020135**

**Explanation:** There has been an internal bulk power software error.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14020136**    **14020136**

**Explanation:** A PU book has entered throttling mode.

---

**14020137**    **14020137**

**Explanation:** The voltage on voltage level 37 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14020138**    **14020138**

**Explanation:** The voltage on voltage level 38 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020139**    **14020139**

**Explanation:** The voltage on voltage level 39 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020140**    **14020140**

**Explanation:** The voltage on voltage level 40 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020141**    **14020141**

**Explanation:** The voltage on voltage level 41 has reached the warning undervoltage limit for the specified cage or drawer.

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**14020142**    **14020142**

**Explanation:** The voltage on voltage level 42 has reached the warning undervoltage limit for the specified cage or drawer.

## 14020143 • 14020165

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14020143      14020143

**Explanation:** The voltage on voltage level 43 has reached the warning undervoltage limit for the specified cage or drawer.

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14020144      14020144

**Explanation:** The voltage on voltage level 44 has reached the warning undervoltage limit for the specified cage or drawer.

---

14020145      14020145

**Explanation:** The voltage on voltage level 45 has reached the warning undervoltage limit for the specified cage or drawer.

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14020146      14020146

**Explanation:** The voltage on voltage level 46 has reached the warning undervoltage limit for the specified cage or drawer.

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14020147      14020147

**Explanation:** The voltage on voltage level 47 has reached the warning undervoltage limit for the specified cage or drawer.

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14020148      14020148

**Explanation:** The voltage on voltage level 48 has reached the warning undervoltage limit for the specified cage or drawer.

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14020149      14020149

**Explanation:** The voltage on voltage level 49 has reached the warning undervoltage limit for the specified cage or drawer.

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14020150      14020150

**Explanation:** The voltage on voltage level 35 has reached the warning undervoltage limit for the specified cage or drawer.

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14020151      14020151

**Explanation:** The voltage on voltage level 36 has reached the warning undervoltage limit for the specified cage or drawer.

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14020160      14020160

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020161      14020161

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020162      14020162

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020163      14020163

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020164      14020164

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020165      14020165

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
- IO\_DCA-01

- IO\_DCA-02
- MIDPLANE

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14020166      14020166

**Explanation:** DCA 1's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-7
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020167      14020167

**Explanation:** DCA 1's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-8
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020168      14020168

**Explanation:** DCA 1's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-9
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020169      14020169

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-10
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020170      14020170

**Explanation:** DCA 2's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-11
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020171      14020171

**Explanation:** DCA 2's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-12
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

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14020190      14020190

**Explanation:** Input power has reached a high threshold on BPA A line cord 1. Input should be corrected or contact next level of service support for assistance.

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14020191      14020191

**Explanation:** Input power has reached a high threshold on BPA A line cord 2. Input should be corrected or contact next level of service support for assistance.

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14020192      14020192

**Explanation:** Input power has reached a high threshold on BPA B line cord 1. Input should be corrected or contact next level of service support for assistance.

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14020193      14020193

**Explanation:** Input power has reached a high threshold on BPA B line cord 2. Input should be corrected or contact next level of service support for assistance.

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14020200      14020200

**Explanation:** The voltage on voltage level 0 has reached the warning over voltage limit for the specified cage or drawer.

---

14020201      14020201

**Explanation:** The voltage on voltage level 1 has reached the warning over voltage limit for the specified cage or drawer.

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14020202      14020202

**Explanation:** The voltage on voltage level 2 has reached the warning over voltage limit for the specified cage or drawer.

## 14020203 • 14020222

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14020203    14020203

**Explanation:** The voltage on voltage level 3 has reached the warning over voltage limit for the specified cage or drawer.

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14020204    14020204

**Explanation:** The voltage on voltage level 4 has reached the warning over voltage limit for the specified cage or drawer.

---

14020205    14020205

**Explanation:** The voltage on voltage level 5 has reached the warning over voltage limit for the specified cage or drawer.

---

14020206    14020206

**Explanation:** The voltage on voltage level 6 has reached the warning over voltage limit for the specified cage or drawer.

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14020207    14020207

**Explanation:** The voltage on voltage level 7 has reached the warning over voltage limit for the specified cage or drawer.

---

14020208    14020208

**Explanation:** The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.

---

14020209    14020209

**Explanation:** The voltage on voltage level 8 has reached the warning over voltage limit for the specified cage or drawer.

---

14020210    14020210

**Explanation:** The voltage on voltage level 10 has reached the warning over voltage limit for the specified cage or drawer.

---

14020211    14020211

**Explanation:** The voltage on voltage level 11 has reached the warning over voltage limit for the specified cage or drawer.

---

14020212    14020212

**Explanation:** The voltage on voltage level 12 has reached the warning over voltage limit for the specified cage or drawer.

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14020213    14020213

**Explanation:** The voltage on voltage level 13 has reached the warning over voltage limit for the specified cage or drawer.

---

14020214    14020214

**Explanation:** The voltage on voltage level 14 has reached the warning over voltage limit for the specified cage or drawer.

---

14020215    14020215

**Explanation:** The voltage on voltage level 15 has reached the warning over voltage limit for the specified cage or drawer.

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14020216    14020216

**Explanation:** The voltage on voltage level 16 has reached the warning over voltage limit for the specified cage or drawer.

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14020217    14020217

**Explanation:** The voltage on voltage level 17 has reached the warning over voltage limit for the specified cage or drawer.

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14020218    14020218

**Explanation:** The voltage on voltage level 18 has reached the warning over voltage limit for the specified cage or drawer.

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14020219    14020219

**Explanation:** The voltage on voltage level 19 has reached the warning over voltage limit for the specified cage or drawer.

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14020220    14020220

**Explanation:** The voltage on voltage level 20 has reached the warning over voltage limit for the specified cage or drawer.

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14020221    14020221

**Explanation:** The voltage on voltage level 21 has reached the warning over voltage limit for the specified cage or drawer.

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14020222    14020222

**Explanation:** The voltage on voltage level 22 has reached the warning over voltage limit for the specified cage or drawer.

---

14020223    14020223

**Explanation:** The voltage on voltage level 23 has reached the warning over voltage limit for the specified cage or drawer.

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14020224    14020224

**Explanation:** The voltage on voltage level 24 has reached the warning over voltage limit for the specified cage or drawer.

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14020225    14020225

**Explanation:** The voltage on voltage level 25 has reached the warning over voltage limit for the specified cage or drawer.

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14020226    14020226

**Explanation:** The voltage on voltage level 26 has reached the warning over voltage limit for the specified cage or drawer.

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14020227    14020227

**Explanation:** The voltage on voltage level 27 has reached the warning over voltage limit for the specified cage or drawer.

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14020228    14020228

**Explanation:** The voltage on voltage level 28 has reached the warning over voltage limit for the specified cage or drawer.

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14020229    14020229

**Explanation:** The voltage on voltage level 29 has reached the warning over voltage limit for the specified cage or drawer.

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14020230    14020230

**Explanation:** The voltage on voltage level 30 has reached the warning over voltage limit for the specified cage or drawer.

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14020231    14020231

**Explanation:** The voltage on voltage level 31 has reached the warning over voltage limit for the specified cage or drawer.

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14020232    14020232

**Explanation:** The voltage on voltage level 32 has reached the warning over voltage limit for the specified cage or drawer.

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14020233    14020233

**Explanation:** The voltage on voltage level 33 has reached the warning over voltage limit for the specified cage or drawer.

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14020234    14020234

**Explanation:** The voltage on voltage level 34 has reached the warning over voltage limit for the specified cage or drawer.

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14020235    14020235

**Explanation:** The voltage on voltage level 35 has reached the warning over voltage limit for the specified cage or drawer.

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14020236    14020236

**Explanation:** The voltage on voltage level 36 has reached the warning over voltage limit for the specified cage or drawer.

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14020237    14020237

**Explanation:** The voltage on voltage level 37 has reached the warning over voltage limit for the specified cage or drawer.

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14020238    14020238

**Explanation:** The voltage on voltage level 38 has reached the warning over voltage limit for the specified cage or drawer.

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14020239    14020239

**Explanation:** The voltage on voltage level 39 has reached the warning over voltage limit for the specified cage or drawer.

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14020240    14020240

**Explanation:** The voltage on voltage level 40 has reached the warning over voltage limit for the specified cage or drawer.

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14020241    14020241

**Explanation:** The voltage on voltage level 41 has reached the warning over voltage limit for the specified cage or drawer.

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14020242    14020242

**Explanation:** The voltage on voltage level 42 has reached the warning over voltage limit for the specified cage or drawer.

## 14020243 • 14020266

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14020243      14020243

**Explanation:** The voltage on voltage level 43 has reached the warning over voltage limit for the specified cage or drawer.

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14020244      14020244

**Explanation:** The voltage on voltage level 44 has reached the warning over voltage limit for the specified cage or drawer.

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14020245      14020245

**Explanation:** The voltage on voltage level 45 has reached the warning over voltage limit for the specified cage or drawer.

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14020246      14020246

**Explanation:** The voltage on voltage level 46 has reached the warning over voltage limit for the specified cage or drawer.

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14020247      14020247

**Explanation:** The voltage on voltage level 47 has reached the warning over voltage limit for the specified cage or drawer.

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14020248      14020248

**Explanation:** The voltage on voltage level 48 has reached the warning over voltage limit for the specified cage or drawer.

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14020249      14020249

**Explanation:** The voltage on voltage level 49 has reached the warning over voltage limit for the specified cage or drawer.

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14020260      14020260

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020261      14020261

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2

- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020262      14020262

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020263      14020263

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020264      14020264

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020265      14020265

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020266      14020266

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-7
- IO\_DCA-02
- IO\_DCA-01

- MIDPLANE

---

14020267    14020267

**Explanation:** DCA 1's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-8
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020268    14020268

**Explanation:** DCA 1's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-9
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020269    14020269

**Explanation:** DCA 2's Air Moving Device number four is defective.

**Failing Item:**

- MSAA-10
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020270    14020270

**Explanation:** DCA 2's Air Moving Device number five is defective.

**Failing Item:**

- MSAA-11
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020271    14020271

**Explanation:** DCA 2's Air Moving Device number six is defective.

**Failing Item:**

- MSAA-12
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

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14020300    14020300

**Explanation:** An over current condition has been detected on voltage level 0 for the specified cage or drawer.

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14020301    14020301

**Explanation:** An over current condition has been detected on voltage level 1 for the specified cage or drawer.

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14020302    14020302

**Explanation:** An over current condition has been detected for voltage level 2 for the specified cage or drawer.

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14020303    14020303

**Explanation:** An over current condition has been detected for voltage level 3 for the specified cage or drawer.

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14020304    14020304

**Explanation:** An over current condition has been detected for voltage level 4 level for the specified cage or drawer.

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14020305    14020305

**Explanation:** An over current condition has been detected for voltage level 5 for the specified cage or drawer.

---

14020306    14020306

**Explanation:** An over current condition has been detected for voltage level 6 for the specified cage or drawer.

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14020307    14020307

**Explanation:** An over current condition has been detected for voltage level 7 for the specified cage or drawer.

---

14020308    14020308

**Explanation:** An over current condition has been detected for voltage level 8 for the specified cage or drawer.

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14020309    14020309

**Explanation:** An over current condition has been detected for voltage level 9 for the specified cage or drawer.

## 14020310 • 14020329

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14020310    14020310

**Explanation:** An over current condition has been detected for voltage level 10 for the specified cage or drawer.

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14020311    14020311

**Explanation:** An over current condition has been detected for voltage level 11 for the specified cage or drawer.

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14020312    14020312

**Explanation:** An over current condition has been detected for voltage level 12 for the specified cage or drawer.

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14020313    14020313

**Explanation:** An over current condition has been detected for voltage level 13 for the specified cage or drawer.

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14020314    14020314

**Explanation:** An over current condition has been detected for voltage level 14 for the specified cage or drawer.

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14020315    14020315

**Explanation:** An over current condition has been detected for voltage level 15 for the specified cage or drawer.

---

14020316    14020316

**Explanation:** An over current condition has been detected for voltage level 16 for the specified cage or drawer.

---

14020317    14020317

**Explanation:** An over current condition has been detected for voltage level 17 for the specified cage or drawer.

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14020318    14020318

**Explanation:** An over current condition has been detected for voltage level 18 for the specified cage or drawer.

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14020319    14020319

**Explanation:** An over current condition has been detected for voltage level 19 for the specified cage or drawer.

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14020320    14020320

**Explanation:** An over current condition has been detected for voltage level 20 for the specified cage or drawer.

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14020321    14020321

**Explanation:** An over current condition has been detected for voltage level 21 for the specified cage or drawer.

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14020322    14020322

**Explanation:** An over current condition has been detected for voltage level 22 for the specified cage or drawer.

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14020323    14020323

**Explanation:** An over current condition has been detected for voltage level 13 for the specified cage or drawer.

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14020324    14020324

**Explanation:** An over current condition has been detected for voltage level 24 for the specified cage or drawer.

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14020325    14020325

**Explanation:** An over current condition has been detected for voltage level 25 for the specified cage or drawer.

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14020326    14020326

**Explanation:** An over current condition has been detected for voltage level 26 for the specified cage or drawer.

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14020327    14020327

**Explanation:** An over current condition has been detected for voltage level 27 for the specified cage or drawer.

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14020328    14020328

**Explanation:** An over current condition has been detected for voltage level 28 for the specified cage or drawer.

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14020329    14020329

**Explanation:** An over current condition has been detected for voltage level 29 for the specified cage or drawer.



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14020330    14020330

**Explanation:** An over current condition has been detected for voltage level 30 for the specified cage or drawer.

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14020331    14020331

**Explanation:** An over current condition has been detected for voltage level 31 for the specified cage or drawer.

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14020332    14020332

**Explanation:** An over current condition has been detected for voltage level 32 for the specified cage or drawer.

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14020333    14020333

**Explanation:** An over current condition has been detected for voltage level 33 for the specified cage or drawer.

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14020334    14020334

**Explanation:** An over current condition has been detected for voltage level 34 for the specified cage or drawer.

---

14020335    14020335

**Explanation:** An over current condition has been detected for voltage level 35 for the specified cage or drawer.

---

14020336    14020336

**Explanation:** An over current condition has been detected for voltage level 36 for the specified cage or drawer.

---

14020337    14020337

**Explanation:** An over current condition has been detected for voltage level 37 for the specified cage or drawer.

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14020338    14020338

**Explanation:** An over current condition has been detected for voltage level 38 for the specified cage or drawer.

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14020339    14020339

**Explanation:** An over current condition has been detected for voltage level 39 for the specified cage or drawer.

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14020340    14020340

**Explanation:** An over current condition has been detected for voltage level 40 for the specified cage or drawer.

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14020341    14020341

**Explanation:** An over current condition has been detected for voltage level 41 for the specified cage or drawer.

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14020342    14020342

**Explanation:** An over current condition has been detected for voltage level 42 for the specified cage or drawer.

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14020343    14020343

**Explanation:** An over current condition has been detected for voltage level 43 for the specified cage or drawer.

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14020344    14020344

**Explanation:** An over current condition has been detected for voltage level 44 for the specified cage or drawer.

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14020345    14020345

**Explanation:** An over current condition has been detected for voltage level 45 for the specified cage or drawer.

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14020346    14020346

**Explanation:** An over current condition has been detected for voltage level 46 for the specified cage or drawer.

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14020347    14020347

**Explanation:** An over current condition has been detected for voltage level 47 for the specified cage or drawer.

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14020348    14020348

**Explanation:** An over current condition has been detected for voltage level 48 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL48
-

## 14020349 • 14020408

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14020349      14020349

**Explanation:** An over current condition has been detected for voltage level 49 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL49
- 

14020360      14020360

**Explanation:** DCA 1's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
  - IO\_DCA-01
- 

14020361      14020361

**Explanation:** DCA 1's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
  - IO\_DCA-01
- 

14020362      14020362

**Explanation:** DCA 1's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
  - IO\_DCA-01
- 

14020363      14020363

**Explanation:** DCA 2's Air Moving Device number one is defective.

**Failing Item:**

- MSAA-4
  - IO\_DCA-02
- 

14020364      14020364

**Explanation:** DCA 2's Air Moving Device number two is defective.

**Failing Item:**

- MSAA-5
  - IO\_DCA-02
- 

14020365      14020365

**Explanation:** DCA 2's Air Moving Device number three is defective.

**Failing Item:**

- MSAA-6
  - IO\_DCA-02
- 

14020400      14020400

**Explanation:** An over voltage condition has been detected for voltage level 0 for the specified cage or drawer.

---

14020401      14020401

**Explanation:** An over voltage condition has been detected for voltage level 1 for the specified cage or drawer.

---

14020402      14020402

**Explanation:** An over voltage condition has been detected for voltage level 2 for the specified cage or drawer.

---

14020403      14020403

**Explanation:** An over voltage condition has been detected for voltage level 3 for the specified cage or drawer.

---

14020404      14020404

**Explanation:** An over voltage condition has been detected for voltage level 4 for the specified cage or drawer.

---

14020405      14020405

**Explanation:** An over voltage condition has been detected for voltage level 5 for the specified cage or drawer.

---

14020406      14020406

**Explanation:** An over voltage condition has been detected for voltage level 6 for the specified cage or drawer.

---

14020407      14020407

**Explanation:** An over voltage condition has been detected for voltage level 7 for the specified cage or drawer.

---

14020408      14020408

**Explanation:** An over voltage condition has been detected for voltage level 8 specified cage or drawer.

---

---

14020409    14020409

**Explanation:** An over voltage condition has been detected for voltage level 9 specified cage or drawer.

---

14020410    14020410

**Explanation:** An over voltage condition has been detected for voltage level 10 specified cage or drawer.

---

14020411    14020411

**Explanation:** An over voltage condition has been detected for voltage level 11 specified cage or drawer.

---

14020412    14020412

**Explanation:** An over voltage condition has been detected for voltage level 12 specified cage or drawer.

---

14020413    14020413

**Explanation:** An over voltage condition has been detected for voltage level 13 specified cage or drawer.

---

14020414    14020414

**Explanation:** An over voltage condition has been detected for voltage level 14 for the specified cage or drawer.

---

14020415    14020415

**Explanation:** An over voltage condition has been detected for voltage level 15 for the specified cage or drawer.

---

14020416    14020416

**Explanation:** An over voltage condition has been detected for voltage level 16 for the specified cage or drawer.

---

14020417    14020417

**Explanation:** An over voltage condition has been detected for voltage level 17 for the specified cage or drawer.

---

14020418    14020418

**Explanation:** An over voltage condition has been detected for voltage level 18 specified cage or drawer.

---

14020419    14020419

**Explanation:** An over voltage condition has been detected for voltage level 19 specified cage or drawer.

---



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14020420    14020420

**Explanation:** An over voltage condition has been detected for voltage level 20 specified cage or drawer.

---

14020421    14020421

**Explanation:** An over voltage condition has been detected for voltage level 21 specified cage or drawer.

---

14020422    14020422

**Explanation:** An over voltage condition has been detected for voltage level 22 specified cage or drawer.

---

14020423    14020423

**Explanation:** An over voltage condition has been detected for voltage level 23 specified cage or drawer.

---

14020424    14020424

**Explanation:** An over voltage condition has been detected for voltage level 24 for the specified cage or drawer.

---

14020425    14020425

**Explanation:** An over voltage condition has been detected for voltage level 25 for the specified cage or drawer.

---

14020426    14020426

**Explanation:** An over voltage condition has been detected for voltage level 26 for the specified cage or drawer.

---

14020427    14020427

**Explanation:** An over voltage condition has been detected for voltage level 27 for the specified cage or drawer.

---

14020428    14020428

**Explanation:** An over voltage condition has been detected for voltage level 28 specified cage or drawer.

---

14020429    14020429

**Explanation:** An over voltage condition has been detected for voltage level 29 specified cage or drawer.

---

14020430    14020430

**Explanation:** An over voltage condition has been detected for voltage level 30 specified cage or drawer.

---

## 14020431 • 14020501

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14020431    14020431

**Explanation:** An over voltage condition has been detected for voltage level 31 specified cage or drawer.

---

14020432    14020432

**Explanation:** An over voltage condition has been detected for voltage level 32 specified cage or drawer.

---

14020433    14020433

**Explanation:** An over voltage condition has been detected for voltage level 33 specified cage or drawer.

---

14020434    14020434

**Explanation:** An over voltage condition has been detected for voltage level 34 for the specified cage or drawer.

---

14020435    14020435

**Explanation:** An over voltage condition has been detected for voltage level 35 for the specified cage or drawer.

---

14020436    14020436

**Explanation:** An over voltage condition has been detected for voltage level 36 for the specified cage or drawer.

---

14020437    14020437

**Explanation:** An over voltage condition has been detected for voltage level 37 for the specified cage or drawer.

---

14020438    14020438

**Explanation:** An over voltage condition has been detected for voltage level 38 specified cage or drawer.

---

14020439    14020439

**Explanation:** An over voltage condition has been detected for voltage level 39 specified cage or drawer.

---

14020440    14020440

**Explanation:** An over voltage condition has been detected for voltage level 40 specified cage or drawer.

---

14020441    14020441

**Explanation:** An over voltage condition has been detected for voltage level 41 specified cage or drawer.

---

14020442    14020442

**Explanation:** An over voltage condition has been detected for voltage level 42 specified cage or drawer.

---

14020443    14020443

**Explanation:** An over voltage condition has been detected for voltage level 43 specified cage or drawer.

---

14020444    14020444

**Explanation:** An over voltage condition has been detected for voltage level 44 for the specified cage or drawer.

---

14020445    14020445

**Explanation:** An over voltage condition has been detected for voltage level 45 for the specified cage or drawer.

---

14020446    14020446

**Explanation:** An over voltage condition has been detected for voltage level 46 for the specified cage or drawer.

---

14020447    14020447

**Explanation:** An over voltage condition has been detected for voltage level 47 for the specified cage or drawer.

---

14020448    14020448

**Explanation:** An over voltage condition has been detected for voltage level 48 specified cage or drawer.

**Failing Item:**

- FRULEVEL48

---

14020449    14020449

**Explanation:** An over voltage condition has been detected for voltage level 49 specified cage or drawer.

**Failing Item:**

- FRULEVEL49

---

14020501    14020501

**Explanation:** Blower number one in the disk enclosure is defective.

**Failing Item:**

- MSAA-1
-

---

14020502      14020502

**Explanation:** Blower number two in the disk enclosure is defective.

**Failing Item:**

- MSAA-2
- 

14020503      14020503

**Explanation:** Blower number three in the disk enclosure is defective.

**Failing Item:**

- MSAA-3
- 

14020504      14020504

**Explanation:** Blower number four in the disk enclosure is defective.

**Failing Item:**

- MSAA-4
- 

14020505      14020505

**Explanation:** Blower number five in the disk enclosure is defective.

**Failing Item:**

- MSAA-5
- 

14020506      14020506

**Explanation:** Blower number six in the disk enclosure is defective.

**Failing Item:**

- MSAA-6
- 

14020507      14020507

**Explanation:** Blower number seven in the disk enclosure is defective.

**Failing Item:**

- MSAA-7
- 

14020508      14020508

**Explanation:** Blower number eight in the disk enclosure is defective.

**Failing Item:**

- MSAA-8
- 

14020509      14020509

**Explanation:** Blower number nine in the disk enclosure is defective.

**Failing Item:**

- MSAA-9
- 

14020510      14020510

**Explanation:** Blower number ten in the disk enclosure is defective.

**Failing Item:**

- MSAA-10
- 

14020511      14020511

**Explanation:** Blower number eleven in the disk enclosure is defective.

**Failing Item:**

- MSAA-11
- 

14020512      14020512

**Explanation:** Blower number twelve in the disk enclosure is defective.

**Failing Item:**

- MSAA-12
- 

14020551      14020551

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- 

14020552      14020552

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

14020553      14020553

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
-

## 14020554 • 1402055F

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14020554      14020554

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- 

14020555      14020555

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

14020556      14020556

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

14020557      14020557

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- 

14020558      14020558

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

14020559      14020559

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- IO\_DCA-02
- IO\_DCA-01

- MIDPLANE
- 

1402055A      1402055A

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
- 

1402055B      1402055B

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

1402055C      1402055C

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

1402055D      1402055D

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
- 

1402055E      1402055E

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

1402055F      1402055F

**Explanation:** An error has been detected on port card five.

**Failing Item:**

- PORTCARD5
- IO\_DCA-02

- IO\_DCA-01
- MIDPLANE

---

14020560    14020560

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6

---

14020561    14020561

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020562    14020562

**Explanation:** An error has been detected on port card six.

**Failing Item:**

- PORTCARD6
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020563    14020563

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7

---

14020564    14020564

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020565    14020565

**Explanation:** An error has been detected on port card seven.

**Failing Item:**

- PORTCARD7

- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020566    14020566

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8

---

14020567    14020567

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020568    14020568

**Explanation:** An error has been detected on port card eight.

**Failing Item:**

- PORTCARD8
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020569    14020569

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

- PORTCARD9

---

1402056A    1402056A

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

- PORTCARD9
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

1402056B    1402056B

**Explanation:** An error has been detected on port card nine.

**Failing Item:**

## 1402056C • 14020576

- PORTCARD9
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 1402056C 1402056C

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10

---

### 1402056D 1402056D

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 1402056E 1402056E

**Explanation:** An error has been detected on port card ten.

**Failing Item:**

- PORTCARD10
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 1402056F 1402056F

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11

---

### 14020570 14020570

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 14020571 14020571

**Explanation:** An error has been detected on port card eleven.

**Failing Item:**

- PORTCARD11
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 14020572 14020572

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12

---

### 14020573 14020573

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

### 14020574 14020574

**Explanation:** An error has been detected on port card twelve.

**Failing Item:**

- PORTCARD12
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

### 14020575 14020575

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13

---

### 14020576 14020576

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13
- IO\_DCA-01
- IO\_DCA-02



- MIDPLANE

---

14020577    14020577

**Explanation:** An error has been detected on port card thirteen.

**Failing Item:**

- PORTCARD13
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020578    14020578

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14

---

14020579    14020579

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

1402057A    1402057A

**Explanation:** An error has been detected on port card fourteen.

**Failing Item:**

- PORTCARD14
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

1402057B    1402057B

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15

---

1402057C    1402057C

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15
- IO\_DCA-01

- IO\_DCA-02
- MIDPLANE

---

1402057D    1402057D

**Explanation:** An error has been detected on port card fifteen.

**Failing Item:**

- PORTCARD15
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

1402057E    1402057E

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16

---

1402057F    1402057F

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020580    14020580

**Explanation:** An error has been detected on port card sixteen.

**Failing Item:**

- PORTCARD16
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020760    14020760

**Explanation:** Disk enclosure Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020761      14020761

**Explanation:** Disk enclosure Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020762      14020762

**Explanation:** Disk enclosure Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020763      14020763

**Explanation:** Disk enclosure Air Moving Device number four is defective.

**Failing Item:**

- MSAA-4
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020764      14020764

**Explanation:** Disk enclosure Air Moving Device number five is defective.

**Failing Item:**

- MSAA-5
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020765      14020765

**Explanation:** Disk enclosure Air Moving Device number six is defective.

**Failing Item:**

- MSAA-6
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020766      14020766

**Explanation:** Disk enclosure Air Moving Device number seven is defective.

**Failing Item:**

- MSAA-7
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020767      14020767

**Explanation:** Disk enclosure Air Moving Device number eight is defective.

**Failing Item:**

- MSAA-8
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020768      14020768

**Explanation:** Disk enclosure Air Moving Device number nine is defective.

**Failing Item:**

- MSAA-9
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020769      14020769

**Explanation:** Disk enclosure Air Moving Device number ten is defective.

**Failing Item:**

- MSAA-10
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

14020770      14020770

**Explanation:** Disk enclosure Air Moving Device number eleven is defective.

**Failing Item:**

- MSAA-11
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
-

---

**14020771**    **14020771**

**Explanation:** Disk enclosure Air Moving Device number twelve is defective.

**Failing Item:**

- MSAA-12
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

**14020960**    **14020960**

**Explanation:** Disk enclosure Air Moving Device number one is defective.

**Failing Item:**

- MSAA-1
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020961**    **14020961**

**Explanation:** Disk enclosure Air Moving Device number two is defective.

**Failing Item:**

- MSAA-2
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020962**    **14020962**

**Explanation:** Disk enclosure Air Moving Device number three is defective.

**Failing Item:**

- MSAA-3
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020963**    **14020963**

**Explanation:** Disk enclosure Air Moving Device number four is defective.

**Failing Item:**

- MSAA-4
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

---

**14020964**    **14020964**

**Explanation:** Disk enclosure Air Moving Device number five is defective.

**Failing Item:**

- MSAA-5
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020965**    **14020965**

**Explanation:** Disk enclosure Air Moving Device number six is defective.

**Failing Item:**

- MSAA-6
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020966**    **14020966**

**Explanation:** Disk enclosure Air Moving Device number seven is defective.

**Failing Item:**

- MSAA-7
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020967**    **14020967**

**Explanation:** Disk enclosure Air Moving Device number eight is defective.

**Failing Item:**

- MSAA-8
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
- 

**14020968**    **14020968**

**Explanation:** Disk enclosure Air Moving Device number nine is defective.

**Failing Item:**

- MSAA-9
  - IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
-

## 14020969 • 1402130B

---

14020969    14020969

**Explanation:** Disk enclosure Air Moving Device number ten is defective.

**Failing Item:**

- MSAA-10
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020970    14020970

**Explanation:** Disk enclosure Air Moving Device number eleven is defective.

**Failing Item:**

- MSAA-11
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14020971    14020971

**Explanation:** Disk enclosure Air Moving Device number twelve is defective.

**Failing Item:**

- MSAA-12
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

14021081    14021081

**Explanation:** The VPD in CEC main storage can not be accessed or has a problem that is preventing the CEC from powering on.

**Failing Item:**

- FRUVPDMEMORY

---

14021082    14021082

**Explanation:** VPD resolution failure in the cage or drawer.

**Failing Item:**

- FRUVPDBUS

---

14021301    14021301

**Explanation:** The DASD backplane is defective.

---

14021302    14021302

**Explanation:** The IO planar is defective.

---

14021304    14021304

**Explanation:** This is a defective DASD on Backplane one.

---

14021305    14021305

**Explanation:** This is a defective DASD on Backplane two.

---

14021306    14021306

**Explanation:** This is a defective DASD on Backplane three.

---

14021307    14021307

**Explanation:** This is a defective DASD on Backplane four.

---

14021308    14021308

**Explanation:** This is a switch riser card.

---

14021309    14021309

**Explanation:** This is a switch PLANAR card.

---

1402130A    1402130A

**Explanation:** An error has been detected on the TRES planar one.

**Failing Item:**

- PLANAR1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

1402130B    1402130B

**Explanation:** An error has been detected on the TRES planar two.

**Failing Item:**

- PLANAR2
  - IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
-

---

**1402130C**    **1402130C**

**Explanation:** An error has been detected on the TRES planar one.

**Failing Item:**

- PLANAR1
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**1402130D**    **1402130D**

**Explanation:** An error has been detected on the TRES planar two.

**Failing Item:**

- PLANAR2
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**1402130E**    **1402130E**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT

---

**1402130F**    **1402130F**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE

---

**14021310**    **14021310**

**Explanation:** An error has been detected on the conduit card.

**Failing Item:**

- CONDUIT
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

---

**14021311**    **14021311**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE

---

**14021312**    **14021312**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE
- CONDUIT

---

**14021313**    **14021313**

**Explanation:** An error has been detected on the DASD backplane.

**Failing Item:**

- DASDBACKPLANE
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE
- CONDUIT

---

**14021314**    **14021314**

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1

---

**14021315**    **14021315**

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

**14021316**    **14021316**

**Explanation:** An error has been detected on port card one.

**Failing Item:**

- PORTCARD1
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE

## 14021317 • 14022043

- CONDUIT
- DASDBACKPLANE

---

### 14021317 14021317

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2

---

### 14021318 14021318

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 14021319 14021319

**Explanation:** An error has been detected on port card two.

**Failing Item:**

- PORTCARD2
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 1402131A 1402131A

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3

---

### 1402131B 1402131B

**Explanation:** An error has been detected on port card three.

**Failing Item:**

- PORTCARD3
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 1402131C 1402131C

**Explanation:** An error has been detected on the port card three.

**Failing Item:**

- PORTCARD3
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 1402131D 1402131D

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4

---

### 1402131E 1402131E

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
- IO\_DCA-01
- IO\_DCA-02
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 1402131F 1402131F

**Explanation:** An error has been detected on port card four.

**Failing Item:**

- PORTCARD4
- IO\_DCA-02
- IO\_DCA-01
- MIDPLANE
- CONDUIT
- DASDBACKPLANE

---

### 14022043 14022043

**Explanation:** Bulk power fan one is defective in BPA-A.

**Failing Item:**

- BPF-A1
- BPC-A

---

14022044    14022044

**Explanation:** Bulk power fan two is defective in BPA-A.

**Failing Item:**

- BPF-A2
  - BPC-A
- 

14022045    14022045

**Explanation:** Bulk power fan Three is defective in BPA-A.

**Failing Item:**

- BPF-A3
  - BPC-A
- 

14022046    14022046

**Explanation:** Bulk power fan four is defective in BPA-A.

**Failing Item:**

- BPF-A4
  - BPC-A
- 

14022047    14022047

**Explanation:** Bulk power fan one is defective in BPA-B.

**Failing Item:**

- BPF-B1
  - BPC-B
- 

14022048    14022048

**Explanation:** Bulk power fan two is defective in BPA-B.

**Failing Item:**

- BPF-B2
  - BPC-B
- 

14022049    14022049

**Explanation:** Bulk power fan Three is defective in BPA-B.

**Failing Item:**

- BPF-B3
  - BPC-B
- 

14022050    14022050

**Explanation:** Bulk power fan four is defective in BPA-B.

**Failing Item:**

- BPF-B4
  - BPC-B
- 

14022051    14022051

**Explanation:** DCA number one is defective.

**Failing Item:**

- IO\_DCA-01
- 

14022052    14022052

**Explanation:** DCA number two is defective.

**Failing Item:**

- IO\_DCA-02
- 

14022054    14022054

**Explanation:** The bulk power fan is defective in BPA-A.

**Failing Item:**

- BPF-A
  - BPC-A
- 

14022055    14022055

**Explanation:** The bulk power fan is defective in BPA-B.

**Failing Item:**

- BPF-B
  - BPC-B
- 

14022056    14022056

**Explanation:** A local I2C failure has been detected on DCA1

**Failing Item:**

- IO\_DCA-01
  - IO\_DCA-02
  - MIDPLANE
- 

14022057    14022057

**Explanation:** A local I2C failure has been detected on DCA2

**Failing Item:**

- IO\_DCA-02
  - IO\_DCA-01
  - MIDPLANE
-

---

14022058      14022058

**Explanation:** A Plug ID error has been detected on DCA1

**Failing Item:**

- IO\_DCA-01
- MIDPLANE

---

14022059      14022059

**Explanation:** A Plug ID error has been detected on DCA2

**Failing Item:**

- IO\_DCA-02
- MIDPLANE

---

1402205A      1402205A

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE

---

1402205B      1402205B

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205C      1402205C

**Explanation:** A defective TRES midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205D      1402205D

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE

---

1402205E      1402205E

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-01
- IO\_DCA-02

---

1402205F      1402205F

**Explanation:** A defective disk enclosure midplane has been detected.

**Failing Item:**

- MIDPLANE
- IO\_DCA-02
- IO\_DCA-01

---

14022069      14022069

**Explanation:** All DCAs reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that all 'circulation flaps' inside affected Air Moving Enclosure are not blocked.

---

140220B9      140220B9

**Explanation:** The EPO panel or the cable between both BPCs and EPO panel is defective.

**Failing Item:**

- EPO-SWITCH
- CBL-BPCA-EPO
- CBL-BPCB-EPO
- BPC-A
- BPC-B

---

140220C1      140220C1

**Explanation:** The UEPO switch on the BPC A-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPC-A

---

140220C2      140220C2

**Explanation:** The BPC on the A-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- BPC-A
- BPR-1A
- BPR-2A
- BPR-3A
- CBL-BPCA-EPO
- BPE-BOARD-A



---

**140221AB 140221AB**

**Explanation:** A communication fault between BPC A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPCA-PORT-10-B
- 

**140221AC 140221AC**

**Explanation:** A communication fault between BPC A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPCA-PORT-10-C
- 

**140221B9 140221B9**

**Explanation:** The EPO panel or the cable between both BPCHs and EPO panel is defective.

**Failing Item:**

- EPO-SWITCH
  - CBL-BPCHA-EPO
  - CBL-BPCHB-EPO
  - BPCH-A
  - BPCH-B
- 

**140221BB 140221BB**

**Explanation:** A communication fault between BPC A and the load on port J11 (B) has been detected.

**Failing Item:**

- BPCA-PORT-11-B
- 

**140221BC 140221BC**

**Explanation:** A communication fault between BPC A and the load on port J11 (C) has been detected.

**Failing Item:**

- BPCA-PORT-11-C
- 

**140221C1 140221C1**

**Explanation:** The UEPO switch on the BPC B-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPC-B
- 

**140221C2 140221C2**

**Explanation:** The BPC on the B-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- 

- BPC-B
  - BPR-1B
  - BPR-2B
  - BPR-3B
  - CBL-BPCB-EPO
  - BPE-BOARD-B
- 

**1402221A 1402221A**

**Explanation:** A communication fault between the BPD 1A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-01-A
- 

**1402222A 1402222A**

**Explanation:** A communication fault between the BPD 1A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-02-A
- 

**1402223A 1402223A**

**Explanation:** A communication fault between the BPD 1A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-03-A
- 

**1402224A 1402224A**

**Explanation:** A communication fault between the BPD 1A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-04-A
- 

**14022251 14022251**

**Explanation:** DCA number one is defective.

**Failing Item:**

- P2\_CEC\_DCA-01
- 

**14022252 14022252**

**Explanation:** DCA number two is defective.

**Failing Item:**

- P2-CEC-DCA\_02
- 

**1402225A 1402225A**

**Explanation:** A communication fault between the BPD 1A and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-05-A
-

## 1402226A • 140222C2

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1402226A    1402226A

**Explanation:** A communication fault between the BPD 1A and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-06-A
- 

1402227A    1402227A

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-07-A
- 

1402227B    1402227B

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-07-B
- 

1402227C    1402227C

**Explanation:** A communication fault between the BPD 1A and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-07-C
- 

1402228A    1402228A

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-08-A
- 

1402228B    1402228B

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-08-B
- 

1402228C    1402228C

**Explanation:** A communication fault between the BPD 1A and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-08-C
- 

1402229A    1402229A

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-09-A
- 

1402229B    1402229B

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-09-B
- 

1402229C    1402229C

**Explanation:** A communication fault between the BPD 1A and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-09-C
- 

140222AA    140222AA

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD1A-PORT-10-A
- 

140222AB    140222AB

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD1A-PORT-10-B
- 

140222AC    140222AC

**Explanation:** A communication fault between the BPD 1A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD1A-PORT-10-C
- 

140222C1    140222C1

**Explanation:** The UEPO switch on the BPCH A-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPCH-A
- 

140222C2    140222C2

**Explanation:** The BPCH on the A-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
- BPCH-A
- BPR-1A
- BPR-2A

- BPR-3A
- CBL-BPCHA-EPO
- BPE-BOARD-A

---

14022301      14022301

**Explanation:** Water cooling system one has failed to adequately cool.

**Failing Item:**

- MDAW-1
- MWU-1

---

14022302      14022302

**Explanation:** Water cooling system two has failed to adequately cool.

**Failing Item:**

- MDAW-2
- MWU-2

---

14022303      14022303

**Explanation:** A problem with water supply has been detected on water cooling system one.

**Failing Item:**

- MDAW-1
- MWU-1

---

14022304      14022304

**Explanation:** A problem with water supply has been detected on water cooling system two.

**Failing Item:**

- MDAW-2
- MWU-2

---

14022305      14022305

**Explanation:** A leak has been detected on water cooling system one.

**Failing Item:**

- MWU-1
- MDAW-1

---

14022306      14022306

**Explanation:** A leak has been detected on water cooling system two.

**Failing Item:**

- MWU-2
- MDAW-2

---

14022309      14022309

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-A
- FDT-A

---

1402230A      1402230A

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-B
- FDT-B

---

1402230B      1402230B

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- FDT-A

---

1402230C      1402230C

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- FDT-B

---

1402230D      1402230D

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-A

---

1402230E      1402230E

**Explanation:** A Problem has been detected on the fill and drain tool.

**Failing Item:**

- MDA-FD-B

---

1402230F      1402230F

**Explanation:** Water cooling system three has failed to adequately cool.

**Failing Item:**

- MDAW-3
- MWU-3

---

14022310    14022310

**Explanation:** Water cooling system four has failed to adequately cool.

**Failing Item:**

- MDAW-4
- MWU-4

---

14022311    14022311

**Explanation:** A problem with water supply has been detected on water cooling system three.

**Failing Item:**

- MDAW-3
- MWU-3

---

14022312    14022312

**Explanation:** A problem with water supply has been detected on water cooling system four.

**Failing Item:**

- MDAW-4
- MWU-4

---

14022313    14022313

**Explanation:** A leak has been detected on water cooling system three.

**Failing Item:**

- MWU-3
- MDAW-3

---

14022314    14022314

**Explanation:** A leak has been detected on water cooling system four.

**Failing Item:**

- MWU-4
- MDAW-4

---

1402231A    1402231A

**Explanation:** A communication fault between the BPD 2A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-01-A

---

1402232A    1402232A

**Explanation:** A communication fault between the BPD 2A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-02-A

---

1402233A    1402233A

**Explanation:** A communication fault between the BPD 2A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-03-A

---

1402234A    1402234A

**Explanation:** A communication fault between the BPD 2A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-04-A

---

14022351    14022351

**Explanation:** DCA number one is defective.

**Failing Item:**

- P3\_CEC\_DCA-01

---

14022352    14022352

**Explanation:** DCA number two is defective.

**Failing Item:**

- P3-CEC-DCA\_02

---

1402235A    1402235A

**Explanation:** A communication fault between the BPD 2A and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-05-A

---

1402236A    1402236A

**Explanation:** A communication fault between the BPD 2A and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-06-A

---

1402237A    1402237A

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-07-A

---

1402237B    1402237B

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-07-B

---

1402237C 1402237C

**Explanation:** A communication fault between the BPD 2A and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-07-C
- 

## 1402238A 1402238A

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-08-A
- 

## 1402238B 1402238B

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-08-B
- 

## 1402238C 1402238C

**Explanation:** A communication fault between the BPD 2A and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-08-C
- 

## 1402239A 1402239A

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-09-A
- 

## 1402239B 1402239B

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-09-B
- 

## 1402239C 1402239C

**Explanation:** A communication fault between the BPD 2A and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-09-C
- 

## 140223AA 140223AA

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD2A-PORT-10-A
- 

## 140223AB 140223AB

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD2A-PORT-10-B
- 

## 140223AC 140223AC

**Explanation:** A communication fault between the BPD 2A and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD2A-PORT-10-C
- 

## 140223C1 140223C1

**Explanation:** The UEPO switch on the BPCCH B-side is defective or in the BYPASS position. Switch to the NORMAL position.

**Failing Item:**

- BPCCH-B
- 

## 140223C2 140223C2

**Explanation:** The BPCCH on the B-side has detected an open UEPO loop.

**Failing Item:**

- EPO-SWITCH
  - BPCCH-B
  - BPR-1B
  - BPR-2B
  - BPR-3B
  - CBL-BPCCHB-EPO
  - BPE-BOARD-B
- 

## 1402241A 1402241A

**Explanation:** A communication fault between the BPD 3A and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-01-A
- 

## 1402242A 1402242A

**Explanation:** A communication fault between the BPD 3A and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-02-A
-

## 1402243A • 14022A02

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1402243A 1402243A

**Explanation:** A communication fault between the BPD 3A and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-03-A

---

1402244A 1402244A

**Explanation:** A communication fault between the BPD 3A and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD3A-PORT-04-A

---

14022451 14022451

**Explanation:** DCA number one is defective.

**Failing Item:**

- P4\_CEC\_DCA-01

---

14022452 14022452

**Explanation:** DCA number two is defective.

**Failing Item:**

- P4\_CEC\_DCA-02

---

14022551 14022551

**Explanation:** DCA number one is defective.

**Failing Item:**

- P5\_CEC\_DCA-01

---

14022552 14022552

**Explanation:** DCA number two is defective.

**Failing Item:**

- P5\_CEC\_DCA-02

---

14022651 14022651

**Explanation:** DCA number one is defective.

**Failing Item:**

- P6\_CEC\_DCA-01

---

14022652 14022652

**Explanation:** DCA number two is defective.

**Failing Item:**

- P6\_CEC\_DCA-02

---

14022751 14022751

**Explanation:** DCA number one is defective.

**Failing Item:**

- P7\_CEC\_DCA-01

---

14022752 14022752

**Explanation:** DCA number two is defective.

**Failing Item:**

- P7\_CEC\_DCA-02

---

14022851 14022851

**Explanation:** DCA number one is defective.

**Failing Item:**

- P8\_CEC\_DCA-01

---

14022852 14022852

**Explanation:** DCA number two is defective.

**Failing Item:**

- P8\_CEC\_DCA-02

---

14022951 14022951

**Explanation:** DCA number one is defective.

**Failing Item:**

- P9\_CEC\_DCA-01

---

14022952 14022952

**Explanation:** DCA number two is defective.

**Failing Item:**

- P9\_CEC\_DCA-02

---

14022A01 14022A01

**Explanation:** A communication fault between (BPA-A) BPC and (BPA-B) BPC.

**Failing Item:**

- BPCA-PORT-01

---

14022A02 14022A02

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 1A has been detected.

**Failing Item:**

- BPD-1A
- BPC-A
- BPE-BOARD-A

---

**14022A03**    **14022A03**

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 2A has been detected.

**Failing Item:**

- BPD-2A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A04**    **14022A04**

**Explanation:** A communication fault between the BPC (BPA-A) and BPD 3A has been detected.

**Failing Item:**

- BPD-3A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A05**    **14022A05**

**Explanation:** Communication error between BPC A and BPR 1A.

**Failing Item:**

- BPR-1A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A06**    **14022A06**

**Explanation:** Communication error between BPC A and BPR 2A.

**Failing Item:**

- BPR-2A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A07**    **14022A07**

**Explanation:** Communication error between BPC A and BPR 3A.

**Failing Item:**

- BPR-3A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A08**    **14022A08**

**Explanation:** Communication error between BPC A and BPR 4A.

**Failing Item:**

- BPR-4A
- BPC-A

- BPE-BOARD-A
- 

**14022A09**    **14022A09**

**Explanation:** Communication error between BPC A and BPR 5A.

**Failing Item:**

- BPR-5A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A0A**    **14022A0A**

**Explanation:** Communication error between BPC A and BPR 6A.

**Failing Item:**

- BPR-6A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A0B**    **14022A0B**

**Explanation:** Communication error between BPC A and BPH A.

**Failing Item:**

- BPCA-PORT-02
- 

**14022A0C**    **14022A0C**

**Explanation:** Communication error between BPC A and BPH B.

**Failing Item:**

- BPCA-PORT-03
- 

**14022A10**    **14022A10**

**Explanation:** BPA-A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A
  - BPD-1A
  - BPC-A
  - BPD-2A
  - BPR-2A
  - BPR-3A
  - BPE-BOARD-A
- 

**14022A11**    **14022A11**

**Explanation:** BPR-1A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A

## 14022A12 • 14022A22

- BPD-1A
- BPC-A
- BPD-2A
- BPR-2A
- BPR-3A
- BPE-BOARD-A

---

### 14022A12 14022A12

**Explanation:** BPR-2A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-2A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-1A
- BPR-3A
- BPE-BOARD-A

---

### 14022A13 14022A13

**Explanation:** BPR-3A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-3A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-1A
- BPR-2A
- BPE-BOARD-A

---

### 14022A14 14022A14

**Explanation:** BPR-4A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-4A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-5A
- BPR-6A
- BPE-BOARD-A

---

### 14022A15 14022A15

**Explanation:** BPR-5A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-5A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-4A
- BPR-6A
- BPE-BOARD-A

---

### 14022A16 14022A16

**Explanation:** BPR-6A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-6A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-4A
- BPR-5A
- BPE-BOARD-A

---

### 14022A20 14022A20

**Explanation:** A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14022A21 14022A21

**Explanation:** BPR-1A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-1A

---

### 14022A22 14022A22

**Explanation:** BPR-2A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-2A



---

**14022A23**    **14022A23**

**Explanation:** BPR-3A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-3A
- 

**14022A24**    **14022A24**

**Explanation:** BPR-4A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-4A
- 

**14022A25**    **14022A25**

**Explanation:** BPR-5A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-5A
- 

**14022A26**    **14022A26**

**Explanation:** BPR-6A located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-6A
- 

**14022A31**    **14022A31**

**Explanation:** BPA-A side detects that IBF-1A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A
  - BPR-1A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A32**    **14022A32**

**Explanation:** BPA-A side detects that IBF-2A has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A
  - BPR-2A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A41**    **14022A41**

**Explanation:** BPA-A side detects that IBF-1A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A
- 

**14022A42**    **14022A42**

**Explanation:** BPA-A side detects that IBF-2A has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A
- 

**14022A51**    **14022A51**

**Explanation:** BPC-A side detects that IBF-1A is disconnected. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- BPR-1A
  - IBF-1A
  - CBL-IBF1A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A52**    **14022A52**

**Explanation:** BPC-A side detects that IBF-2A is disconnected. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- BPR-2A
  - IBF-2A
  - CBL-IBF2A
  - BPC-A
  - BPE-BOARD-A
- 

**14022A85**    **14022A85**

**Explanation:** The A-side BPC has detected that the cross feed from the B-side has failed.

**Failing Item:**

- BPCA-PORT-07
-

## 14022B01 • 14022B0C

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### 14022B01 14022B01

**Explanation:** A communication fault between (BPA-B) BPC and (BPA-A) BPC.

**Failing Item:**

- BPCB-PORT-01

---

### 14022B02 14022B02

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 1B has been detected.

**Failing Item:**

- BPD-1B
- BPC-B
- BPE-BOARD-B

---

### 14022B03 14022B03

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 2B has been detected.

**Failing Item:**

- BPD-2B
- BPC-B
- BPE-BOARD-B

---

### 14022B04 14022B04

**Explanation:** A communication fault between the BPC (BPA-B) and BPD 3B has been detected.

**Failing Item:**

- BPD-3B
- BPC-B
- BPE-BOARD-B

---

### 14022B05 14022B05

**Explanation:** Communication error between BPC B and BPR 1B.

**Failing Item:**

- BPR-1B
- BPC-B
- BPE-BOARD-B

---

### 14022B06 14022B06

**Explanation:** Communication error between BPC B and BPR 2B.

**Failing Item:**

- BPR-2B
- BPC-B
- BPE-BOARD-B

---

### 14022B07 14022B07

**Explanation:** Communication error between BPC B and BPR 3B.

**Failing Item:**

- BPR-3B
- BPC-B
- BPE-BOARD-B

---

### 14022B08 14022B08

**Explanation:** Communication error between BPC B and BPR 4B.

**Failing Item:**

- BPR-4B
- BPC-B
- BPE-BOARD-B

---

### 14022B09 14022B09

**Explanation:** Communication error between BPC B and BPR 5B.

**Failing Item:**

- BPR-5B
- BPC-B
- BPE-BOARD-B

---

### 14022B0A 14022B0A

**Explanation:** Communication error between BPC B and BPR 6B.

**Failing Item:**

- BPR-6B
- BPC-B
- BPE-BOARD-B

---

### 14022B0B 14022B0B

**Explanation:** Communication error between BPC B and BPH B.

**Failing Item:**

- BPCB-PORT-02

---

### 14022B0C 14022B0C

**Explanation:** Communication error between BPC B and BPH A.

**Failing Item:**

- BPCB-PORT-03
-

---

**14022B10**    **14022B10**

**Explanation:** BPA-A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1A
- BPD-1A
- BPC-A
- BPD-2A
- BPR-2A
- BPR-3A
- BPE-BOARD-A

---

**14022B11**    **14022B11**

**Explanation:** BPR-1B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-1B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-2B
- BPR-3B
- BPE-BOARD-B

---

**14022B12**    **14022B12**

**Explanation:** BPR-2B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-2B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-1B
- BPR-3B
- BPE-BOARD-B

---

**14022B13**    **14022B13**

**Explanation:** BPR-3B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-3B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-1B
- BPR-2B
- BPE-BOARD-B

---

**14022B14**    **14022B14**

**Explanation:** BPR-4A has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-4B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-5B
- BPR-6B
- BPE-BOARD-B

---

**14022B15**    **14022B15**

**Explanation:** BPR-5B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-5B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-4B
- BPR-6B
- BPE-BOARD-B

---

**14022B16**    **14022B16**

**Explanation:** BPR-6B has reported an over-current on the 350VDC bulk.

**Failing Item:**

- BPR-6B
- BPD-1B
- BPC-B
- BPD-2B
- BPR-4B
- BPR-5B
- BPE-BOARD-B

---

**14022B20**    **14022B20**

**Explanation:** A BPA has reported 'No airflow in cage' - Make sure that there are no blocked or dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

**Failing Item:**

- NOT\_A\_BPA\_FRU
-

## 14022B21 • 14022B51

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### 14022B21 14022B21

**Explanation:** BPR-1B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-1B

---

### 14022B22 14022B22

**Explanation:** BPR-2B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-2B

---

### 14022B23 14022B23

**Explanation:** BPR-3B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-3B

---

### 14022B24 14022B24

**Explanation:** BPR-4B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-4B

---

### 14022B25 14022B25

**Explanation:** BPR-5B located in BPA-B has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-5B

---

### 14022B26 14022B26

**Explanation:** BPR-6B located in BPA-A has reported an 'Over Temperature' Make sure that the Air inlets are not blocked / filler books installed in empty locations and no heat source is located near the BPR ASM.

**Failing Item:**

- BPR-6B

---

### 14022B31 14022B31

**Explanation:** BPA-B side detects that IBF-1B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B
- BPR-1B
- BPC-B
- BPE-BOARD-B

---

### 14022B32 14022B32

**Explanation:** BPA-B side detects that IBF-2B has dropped below a usable level. The system may power off soon. The IBF will be charged after power is restored. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B
- BPR-2B
- BPC-B
- BPE-BOARD-B

---

### 14022B41 14022B41

**Explanation:** BPA-B side detects that IBF-1B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B

---

### 14022B42 14022B42

**Explanation:** BPA-B side detects that IBF-2B has been charged to normal capacity. The IBF is available to again to provide power. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B

---

### 14022B51 14022B51

**Explanation:** BPC-B side detects that IBF-1B is disconnected. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- BPR-1B
  - IBF-1B
  - CBL-IBF1B
  - BPC-B
  - BPE-BOARD-B
-

---

**14022B52**    **14022B52**

**Explanation:** BPC-B side detects that IBF-2B is disconnected. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- BPR-2B
- IBF-2B
- CBL-IBF2B
- BPC-B
- BPE-BOARD-B

---

**14022B85**    **14022B85**

**Explanation:** The B-side BPC has detected that the cross feed from the A-side has failed.

**Failing Item:**

- BPCB-PORT-07

---

**14022C51**    **14022C51**

**Explanation:** DCCA number one is defective.

**Failing Item:**

- IH\_DCCA-01

---

**14022C52**    **14022C52**

**Explanation:** DCCA number two is defective.

**Failing Item:**

- IH\_DCCA-02

---

**14023000**    **14023000**

**Explanation:** BPC A side has detected unmatched FRUs in the same CageID. Check P/Ns and codelevel of the Power FRUs in the cage.

---

**14023005**    **14023005**

**Explanation:** BPC A side has detected miscabling to DCA port. Correct cabling error.

---

**14023006**    **14023006**

**Explanation:** BPC A side detects cabling order to a DCA different than to the other DCAs (This BPA sides view). Check and correct cable plugging.

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**14023007**    **14023007**

**Explanation:** BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view). Check and correct cable plugging.

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**14023090**    **14023090**

**Explanation:** BPC B side has detected unmatched FRUs in the same CageID. Check P/Ns and codelevel of the Power FRUs in the cage.

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**14023095**    **14023095**

**Explanation:** BPC B side has detected miscabling to DCA port. Correct cabling error.

---

**14023096**    **14023096**

**Explanation:** BPC B side detects cabling order to a DCA different than to the other DCAs (This BPA sides view). Check and correct cable plugging.

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**14023097**    **14023097**

**Explanation:** BPC A side detects cabling order to a MDA different than to the other MDAs (This BPA sides view). Check and correct cable plugging.

---

**140231AB**    **140231AB**

**Explanation:** A communication fault between BPC B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPCB-PORT-10-B

---

**140231AC**    **140231AC**

**Explanation:** A communication fault between BPC B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPCB-PORT-10-C

---

**140231BB**    **140231BB**

**Explanation:** A communication fault between BPC B and the load on port J11 (B) has been detected.

**Failing Item:**

- BPCB-PORT-11-B

---

**140231BC**    **140231BC**

**Explanation:** A communication fault between BPC B and the load on port J11 (C) has been detected.

**Failing Item:**

- BPCB-PORT-11-C

---

**1402321A**    **1402321A**

**Explanation:** A communication fault between the BPD 1B and the load on port J01 has been detected (A).

**Failing Item:**

## 1402322A • 140232AA

- BPD1B-PORT-01-A

---

### 1402322A 1402322A

**Explanation:** A communication fault between the BPD 1B and the load on port J02 has been detected (A).

**Failing Item:**

- BPD1B-PORT-02-A

---

### 1402323A 1402323A

**Explanation:** A communication fault between the BPD 1B and the load on port J03 has been detected (A).

**Failing Item:**

- BPD1B-PORT-03-A

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### 1402324A 1402324A

**Explanation:** A communication fault between the BPD 1B and the load on port J04 has been detected (A).

**Failing Item:**

- BPD1B-PORT-04-A

---

### 1402325A 1402325A

**Explanation:** A communication fault between the BPD 1B and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-05-A

---

### 1402326A 1402326A

**Explanation:** A communication fault between the BPD 1B and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-06-A

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### 1402327A 1402327A

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-07-A

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### 1402327B 1402327B

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-07-B

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### 1402327C 1402327C

**Explanation:** A communication fault between the BPD 1B and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-07-C

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### 1402328A 1402328A

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-08-A

---

### 1402328B 1402328B

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-08-B

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### 1402328C 1402328C

**Explanation:** A communication fault between the BPD 1B and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-08-C

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### 1402329A 1402329A

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-09-A

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### 1402329B 1402329B

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-09-B

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### 1402329C 1402329C

**Explanation:** A communication fault between the BPD 1B and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-09-C

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### 140232AA 140232AA

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD1B-PORT-10-A

---

**140232AB    140232AB**

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD1B-PORT-10-B

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**140232AC    140232AC**

**Explanation:** A communication fault between the BPD 1B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD1B-PORT-10-C

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**1402331A    1402331A**

**Explanation:** A communication fault between the BPD 2B and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-01-A

---

**1402332A    1402332A**

**Explanation:** A communication fault between the BPD 2B and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-02-A

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**1402333A    1402333A**

**Explanation:** A communication fault between the BPD 2B and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-03-A

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**1402334A    1402334A**

**Explanation:** A communication fault between the BPD 2B and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-04-A

---

**1402335A    1402335A**

**Explanation:** A communication fault between the BPD 2B and the load on port J05 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-05-A

---

**1402336A    1402336A**

**Explanation:** A communication fault between the BPD 2B and the load on port J06 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-06-A

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**1402337A    1402337A**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-07-A

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**1402337B    1402337B**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-07-B

---

**1402337C    1402337C**

**Explanation:** A communication fault between the BPD 2B and the load on port J07 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-07-C

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**1402338A    1402338A**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-08-A

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**1402338B    1402338B**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-08-B

---

**1402338C    1402338C**

**Explanation:** A communication fault between the BPD 2B and the load on port J08 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-08-C

---

**1402339B    1402339B**

**Explanation:** A communication fault between the BPD 2B and the load on port J09 (B) has been detected.

**Failing Item:**

## 1402339C • 14023A07

- BPD2B-PORT-09-B

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1402339C    1402339C

**Explanation:** A communication fault between the BPD 2B and the load on port J09 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-09-C

---

140233AA    140233AA

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (A) has been detected.

**Failing Item:**

- BPD2B-PORT-10-A

---

140233AB    140233AB

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (B) has been detected.

**Failing Item:**

- BPD2B-PORT-10-B

---

140233AC    140233AC

**Explanation:** A communication fault between the BPD 2B and the load on port J10 (C) has been detected.

**Failing Item:**

- BPD2B-PORT-10-C

---

1402341A    1402341A

**Explanation:** A communication fault between the BPD 3B and the load on port J01 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-01-A

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1402342A    1402342A

**Explanation:** A communication fault between the BPD 3B and the load on port J02 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-02-A

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1402343A    1402343A

**Explanation:** A communication fault between the BPD 3B and the load on port J03 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-03-A

---

1402344A    1402344A

**Explanation:** A communication fault between the BPD 3B and the load on port J04 (A) has been detected.

**Failing Item:**

- BPD3B-PORT-04-A

---

14023A01    14023A01

**Explanation:** Communication fault between BPCH-A and BPCH-B.

**Failing Item:**

- BPCHA-PORT-01

---

14023A02    14023A02

**Explanation:** A communication fault between the BPCH and BPD (BPA-A) has been detected.

**Failing Item:**

- BPD-1A
- BPCH-A
- BPE-BOARD-A

---

14023A05    14023A05

**Explanation:** Communication error between BPCH A and BPR 1A.

**Failing Item:**

- BPR-1A
- BPCH-A
- BPE-BOARD-A

---

14023A06    14023A06

**Explanation:** Communication error between BPCH A and BPR 2A.

**Failing Item:**

- BPR-2A
- BPCH-A
- BPE-BOARD-A

---

14023A07    14023A07

**Explanation:** Communication error between BPCH A and BPR 3A.

**Failing Item:**

- BPR-3A
  - BPCH-A
  - BPE-BOARD-A
-



---

**14023A08**    **14023A08**

**Explanation:** Communication error between BPCH A and BPR 4A.

**Failing Item:**

- BPR-4A
  - BPCH-A
  - BPE-BOARD-A
- 

**14023A09**    **14023A09**

**Explanation:** Communication error between BPCH A and BPR 5A.

**Failing Item:**

- BPR-5A
  - BPCH-A
  - BPE-BOARD-A
- 

**14023A0A**    **14023A0A**

**Explanation:** Communication error between BPCH A and BPR 6A.

**Failing Item:**

- BPR-6A
  - BPCH-A
  - BPE-BOARD-A
- 

**14023A85**    **14023A85**

**Explanation:** The A-side BPCH has detected that the cross feed from the B-side has failed.

**Failing Item:**

- BPCHA-PORT-05
- 

**14023B01**    **14023B01**

**Explanation:** Communication fault between BPCH-B and BPCH-A.

**Failing Item:**

- BPCHB-PORT-01
- 

**14023B02**    **14023B02**

**Explanation:** A communication fault between the BPCH and BPD (BPA-B) has been detected.

**Failing Item:**

- BPD-1B
  - BPCH-B
  - BPE-BOARD-B
- 

---

**14023B05**    **14023B05**

**Explanation:** Communication error between BPCH B and BPR 1B.

**Failing Item:**

- BPR-1B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B06**    **14023B06**

**Explanation:** Communication error between BPCH B and BPR 2B.

**Failing Item:**

- BPR-2B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B07**    **14023B07**

**Explanation:** Communication error between BPCH B and BPR 3B.

**Failing Item:**

- BPR-3B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B08**    **14023B08**

**Explanation:** Communication error between BPCH B and BPR 4B.

**Failing Item:**

- BPR-4B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B09**    **14023B09**

**Explanation:** Communication error between BPCH B and BPR 5B.

**Failing Item:**

- BPR-5B
  - BPCH-B
  - BPE-BOARD-B
- 

**14023B0A**    **14023B0A**

**Explanation:** Communication error between BPCH B and BPR 6B.

**Failing Item:**

- BPR-6B
  - BPCH-B
-

## 14023B85 • 1402522A

- BPE-BOARD-B

---

### 14023B85 14023B85

**Explanation:** The B-side BPCH has detected that the cross feed from the A-side has failed.

**Failing Item:**

- BPCHB-PORT-05

---

### 14024001 14024001

**Explanation:** The Auto-Code-Download (ACDL) of the power subsystem encountered an error. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024002 14024002

**Explanation:** The frame MTMS was not resolved by HMC. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024003 14024003

**Explanation:** The BPC has found duplicate Mailbox IP addresses on Network A. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024004 14024004

**Explanation:** The BPC has found duplicate Mailbox IP addresses on Network B. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024005 14024005

**Explanation:** A DHCP address was not assigned on Network A. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024006 14024006

**Explanation:** The Flash that is loaded on BPC A and B do not match. Contact next level of support for assistance.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 14024007 14024007

**Explanation:** A Power redundancy command was run and produced this log. This is not an error and contains information that development would use to investigate system FRU redundancy problems.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

### 140251AB 140251AB

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J10 (B).

**Failing Item:**

- BPCA-PORT-10-B

---

### 140251AC 140251AC

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J10 C.

**Failing Item:**

- BPCA-PORT-10-C

---

### 140251BB 140251BB

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J11 (B).

**Failing Item:**

- BPCA-PORT-11-B

---

### 140251BC 140251BC

**Explanation:** An over current has been detected on 350V between BPC A and the load on its port J11 (C).

**Failing Item:**

- BPCA-PORT-11-C

---

### 1402521A 1402521A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J01 (A).

**Failing Item:**

- BPD1A-PORT-01-A

---

### 1402522A 1402522A

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J02 (A).

**Failing Item:**

- BPD1A-PORT-02-A

---

**1402523A    1402523A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J03 (A).

**Failing Item:**

- BPD1A-PORT-03-A
- 

**1402524A    1402524A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J04 (A).

**Failing Item:**

- BPD1A-PORT-04-A
- 

**1402525A    1402525A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J05 (A).

**Failing Item:**

- BPD1A-PORT-05-A
- 

**1402526A    1402526A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J06 (A).

**Failing Item:**

- BPD1A-PORT-06-A
- 

**1402527A    1402527A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (A).

**Failing Item:**

- BPD1A-PORT-07-A
- 

**1402527B    1402527B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (B).

**Failing Item:**

- BPD1A-PORT-07-B
- 

**1402527C    1402527C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J07 (C).

**Failing Item:**

- BPD1A-PORT-07-C
- 

**1402528A    1402528A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (A).

**Failing Item:**

- BPD1A-PORT-08-A
- 

**1402528B    1402528B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (B).

**Failing Item:**

- BPD1A-PORT-08-B
- 

**1402528C    1402528C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J08 (C).

**Failing Item:**

- BPD1A-PORT-08-C
- 

**1402529A    1402529A**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (A).

**Failing Item:**

- BPD1A-PORT-09-A
- 

**1402529B    1402529B**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (B).

**Failing Item:**

- BPD1A-PORT-09-B
- 

**1402529C    1402529C**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J09 (C).

**Failing Item:**

- BPD1A-PORT-09-C
- 

**140252AA    140252AA**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (A).

**Failing Item:**

- BPD1A-PORT-10-A
- 

**140252AB    140252AB**

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (B).

**Failing Item:**

- BPD1A-PORT-10-B
-

## 140252AC • 1402539B

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140252AC 140252AC

**Explanation:** An over current has been detected on 350V between BPD 1A and the load on its port J10 (C).

**Failing Item:**

- BPD1A-PORT-10-C

---

1402531A 1402531A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J01 (A).

**Failing Item:**

- BPD2A-PORT-01-A

---

1402532A 1402532A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J02 (A).

**Failing Item:**

- BPD2A-PORT-02-A

---

1402533A 1402533A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J03 (A).

**Failing Item:**

- BPD2A-PORT-03-A

---

1402534A 1402534A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

**Failing Item:**

- BPD2A-PORT-04-A

---

1402535A 1402535A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J05 (A).

**Failing Item:**

- BPD2A-PORT-05-A

---

1402536A 1402536A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J06 (A).

**Failing Item:**

- BPD2A-PORT-06-A

---

1402537A 1402537A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (A).

**Failing Item:**

- BPD2A-PORT-07-A

---

1402537B 1402537B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (B).

**Failing Item:**

- BPD2A-PORT-07-B

---

1402537C 1402537C

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J07 (C).

**Failing Item:**

- BPD2A-PORT-07-C

---

1402538A 1402538A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (A).

**Failing Item:**

- BPD2A-PORT-08-A

---

1402538B 1402538B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (B).

**Failing Item:**

- BPD2A-PORT-08-B

---

1402538C 1402538C

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J08 (C).

**Failing Item:**

- BPD2A-PORT-08-C

---

1402539A 1402539A

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (A).

**Failing Item:**

- BPD2A-PORT-09-A

---

1402539B 1402539B

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (B).

**Failing Item:**

- BPD2A-PORT-09-B

---

**1402539C**    **1402539C**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J09 (C).

**Failing Item:**

- BPD2A-PORT-09-C
- 

**140253AA**    **140253AA**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (A).

**Failing Item:**

- BPD2A-PORT-10-A
- 

**140253AB**    **140253AB**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (B).

**Failing Item:**

- BPD2A-PORT-10-B
- 

**140253AC**    **140253AC**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J10 (C).

**Failing Item:**

- BPD2A-PORT-10-C
- 

**1402541A**    **1402541A**

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J01 (A).

**Failing Item:**

- BPD3A-PORT-01-A
- 

**1402542A**    **1402542A**

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J02 (A).

**Failing Item:**

- BPD3A-PORT-02-A
- 

**1402543A**    **1402543A**

**Explanation:** An over current has been detected on 350V between BPD 3A and the load on its port J03 (A).

**Failing Item:**

- BPD3A-PORT-03-A
- 

**1402544A**    **1402544A**

**Explanation:** An over current has been detected on 350V between BPD 2A and the load on its port J04 (A).

**Failing Item:**

- BPD3A-PORT-04-A
- 

**14026150**    **14026150**

**Explanation:** The voltage on voltage level 50 has reached the warning undervoltage limit for the specified cage or drawer.

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**14026151**    **14026151**

**Explanation:** The voltage on voltage level 51 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026152**    **14026152**

**Explanation:** The voltage on voltage level 52 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026153**    **14026153**

**Explanation:** The voltage on voltage level 53 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026154**    **14026154**

**Explanation:** The voltage on voltage level 54 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026155**    **14026155**

**Explanation:** The voltage on voltage level 55 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026156**    **14026156**

**Explanation:** The voltage on voltage level 56 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026157**    **14026157**

**Explanation:** The voltage on voltage level 57 has reached the warning undervoltage limit for the specified cage or drawer.

---

**14026158**    **14026158**

**Explanation:** The voltage on voltage level 58 has reached the warning undervoltage limit for the specified cage or drawer.

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14026159    14026159

**Explanation:** The voltage on voltage level 59 has reached the warning undervoltage limit for the specified cage or drawer.

---

14026160    14026160

**Explanation:** The voltage on voltage level 60 has reached the warning undervoltage limit for the specified cage or drawer.

---

140261AB    140261AB

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J10 (B).

**Failing Item:**

- BPCB-PORT-10-B

---

140261AC    140261AC

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J10 (C).

**Failing Item:**

- BPCB-PORT-10-C

---

140261BB    140261BB

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J11 (B).

**Failing Item:**

- BPCB-PORT-11-B

---

140261BC    140261BC

**Explanation:** An over current has been detected on 350V between BPC B and the load on its port J11 (C).

**Failing Item:**

- BPCB-PORT-11-C

---

1402621A    1402621A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J01 (A).

**Failing Item:**

- BPD1B-PORT-01-A

---

1402622A    1402622A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J02 (A).

**Failing Item:**

- BPD1B-PORT-02-A

---

1402623A    1402623A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J03 (A).

**Failing Item:**

- BPD1B-PORT-03-A

---

1402624A    1402624A

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J04 (A).

**Failing Item:**

- BPD1B-PORT-04-A

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14026250    14026250

**Explanation:** The voltage on voltage level 50 has reached the warning over voltage limit for the specified cage or drawer.

---

14026251    14026251

**Explanation:** The voltage on voltage level 51 has reached the warning over voltage limit for the specified cage or drawer.

---

14026252    14026252

**Explanation:** The voltage on voltage level 52 has reached the warning over voltage limit for the specified cage or drawer.

---

14026253    14026253

**Explanation:** The voltage on voltage level 53 has reached the warning over voltage limit for the specified cage or drawer.

---

14026254    14026254

**Explanation:** The voltage on voltage level 54 has reached the warning over voltage limit for the specified cage or drawer.

---

14026255    14026255

**Explanation:** The voltage on voltage level 55 has reached the warning over voltage limit for the specified cage or drawer.

---

14026256    14026256

**Explanation:** The voltage on voltage level 56 has reached the warning over voltage limit for the specified cage or drawer.

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**14026257**    **14026257**

**Explanation:** The voltage on voltage level 57 has reached the warning over voltage limit for the specified cage or drawer.

---

**14026258**    **14026258**

**Explanation:** The voltage on voltage level 58 has reached the warning over voltage limit for the specified cage or drawer.

---

**14026259**    **14026259**

**Explanation:** The voltage on voltage level 59 has reached the warning over voltage limit for the specified cage or drawer.

---

**1402625A**    **1402625A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J05 (A).

**Failing Item:**

- BPD1B-PORT-05-A

---

**14026260**    **14026260**

**Explanation:** The voltage on voltage level 60 has reached the warning over voltage limit for the specified cage or drawer.

---

**1402626A**    **1402626A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J06 (A).

**Failing Item:**

- BPD1B-PORT-06-A

---

**1402627A**    **1402627A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (A).

**Failing Item:**

- BPD1B-PORT-07-A

---

**1402627B**    **1402627B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (B).

**Failing Item:**

- BPD1B-PORT-07-B

---

**1402627C**    **1402627C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J07 (C).

**Failing Item:**

- BPD1B-PORT-07-C

---

**1402628A**    **1402628A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (A).

**Failing Item:**

- BPD1B-PORT-08-A

---

**1402628B**    **1402628B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (B).

**Failing Item:**

- BPD1B-PORT-08-B

---

**1402628C**    **1402628C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J08 (C).

**Failing Item:**

- BPD1B-PORT-08-C

---

**1402629A**    **1402629A**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (A).

**Failing Item:**

- BPD1B-PORT-09-A

---

**1402629B**    **1402629B**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (B).

**Failing Item:**

- BPD1B-PORT-09-B

---

**1402629C**    **1402629C**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J09 (C).

**Failing Item:**

- BPD1B-PORT-09-C

---

**140262AA**    **140262AA**

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (A).

**Failing Item:**

## 140262AB • 14026357

- BPD1B-PORT-10-A

---

### 140262AB 140262AB

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (B).

**Failing Item:**

- BPD1B-PORT-10-B

---

### 140262AC 140262AC

**Explanation:** An over current has been detected on 350V between BPD 1B and the load on its port J10 (C).

**Failing Item:**

- BPD1B-PORT-10-C

---

### 1402631A 1402631A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J01 (A).

**Failing Item:**

- BPD2B-PORT-01-A

---

### 1402632A 1402632A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J02 (A).

**Failing Item:**

- BPD2B-PORT-02-A

---

### 1402633A 1402633A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J03 (A).

**Failing Item:**

- BPD2B-PORT-03-A

---

### 1402634A 1402634A

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J04 (A).

**Failing Item:**

- BPD2B-PORT-04-A

---

### 14026350 14026350

**Explanation:** An over current condition has been detected for voltage level 50 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL50

---

### 14026351 14026351

**Explanation:** An over current condition has been detected for voltage level 50 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL51

---

### 14026352 14026352

**Explanation:** An over current condition has been detected for voltage level 52 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL52

---

### 14026353 14026353

**Explanation:** An over current condition has been detected for voltage level 53 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL53

---

### 14026354 14026354

**Explanation:** An over current condition has been detected for voltage level 54 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL54

---

### 14026355 14026355

**Explanation:** An over current condition has been detected for voltage level 55 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL55

---

### 14026356 14026356

**Explanation:** An over current condition has been detected for voltage level 56 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL56

---

### 14026357 14026357

**Explanation:** An over current condition has been detected for voltage level 57 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL57



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**14026358**    **14026358**

**Explanation:** An over current condition has been detected for voltage level 58 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL58
- 

**14026359**    **14026359**

**Explanation:** An over current condition has been detected for voltage level 59 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL59
- 

**1402635A**    **1402635A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J05 (A).

**Failing Item:**

- BPD2B-PORT-05-A
- 

**14026360**    **14026360**

**Explanation:** An over current condition has been detected for voltage level 60 for the specified cage or drawer.

**Failing Item:**

- FRULEVEL60
- 

**1402636A**    **1402636A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J06 (A).

**Failing Item:**

- BPD2B-PORT-06-A
- 

**1402637A**    **1402637A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (A).

**Failing Item:**

- BPD2B-PORT-07-A
- 

**1402637B**    **1402637B**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-07-B
- 

**1402637C**    **1402637C**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-07-C
- 

**1402638A**    **1402638A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J08 (A).

**Failing Item:**

- BPD2B-PORT-08-A
- 

**1402638B**    **1402638B**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-08-B
- 

**1402638C**    **1402638C**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-08-C
- 

**1402639A**    **1402639A**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J09 (A).

**Failing Item:**

- BPD2B-PORT-09-A
- 

**1402639B**    **1402639B**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J09 (B).

**Failing Item:**

- BPD2B-PORT-09-B
- 

**1402639C**    **1402639C**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (C).

**Failing Item:**

- BPD2B-PORT-09-C
- 

**140263AA**    **140263AA**

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J10 (A).

**Failing Item:**

## 140263AB • 14026458

- BPD2B-PORT-10-A

---

### 140263AB 140263AB

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J07 (B).

**Failing Item:**

- BPD2B-PORT-10-B

---

### 140263AC 140263AC

**Explanation:** An over current has been detected on 350V between BPD 2B and the load on its port J10 (C).

**Failing Item:**

- BPD2B-PORT-10-C

---

### 1402641A 1402641A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J01 (A).

**Failing Item:**

- BPD3B-PORT-01-A

---

### 1402642A 1402642A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J02 (A).

**Failing Item:**

- BPD3B-PORT-02-A

---

### 1402643A 1402643A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J03 (A).

**Failing Item:**

- BPD3B-PORT-03-A

---

### 1402644A 1402644A

**Explanation:** An over current has been detected on 350V between BPD 3B and the load on its port J04 (A).

**Failing Item:**

- BPD3B-PORT-04-A

---

### 14026450 14026450

**Explanation:** An over voltage condition has been detected for voltage level 50 specified cage or drawer.

**Failing Item:**

- FRULEVEL50

---

### 14026451 14026451

**Explanation:** An over voltage condition has been detected for voltage level 51 specified cage or drawer.

**Failing Item:**

- FRULEVEL51

---

### 14026452 14026452

**Explanation:** An over voltage condition has been detected for voltage level 52 specified cage or drawer.

**Failing Item:**

- FRULEVEL52

---

### 14026453 14026453

**Explanation:** An over voltage condition has been detected for voltage level 53 specified cage or drawer.

**Failing Item:**

- FRULEVEL53

---

### 14026454 14026454

**Explanation:** An over voltage condition has been detected for voltage level 54 specified cage or drawer.

**Failing Item:**

- FRULEVEL54

---

### 14026455 14026455

**Explanation:** An over voltage condition has been detected for voltage level 55 specified cage or drawer.

**Failing Item:**

- FRULEVEL55

---

### 14026456 14026456

**Explanation:** An over voltage condition has been detected for voltage level 56 specified cage or drawer.

**Failing Item:**

- FRULEVEL56

---

### 14026457 14026457

**Explanation:** An over voltage condition has been detected for voltage level 57 specified cage or drawer.

**Failing Item:**

- FRULEVEL57

---

### 14026458 14026458

**Explanation:** An over voltage condition has been detected for voltage level 58 specified cage or drawer.

**Failing Item:**

- FRULEVEL58

---

14026459      14026459

**Explanation:** An over voltage condition has been detected for voltage level 59 specified cage or drawer.

**Failing Item:**

- FRULEVEL59

---

14026460      14026460

**Explanation:** An over voltage condition has been detected for voltage level 60 specified cage or drawer.

**Failing Item:**

- FRULEVEL60

---

14027090      14027090

**Explanation:** The BPC in BPA-A is defective.

**Failing Item:**

- BPC-A

---

14027091      14027091

**Explanation:** The BPC in BPA-A is defective.

**Failing Item:**

- BPC-A

---

14027092      14027092

**Explanation:** BPD-1 is defective in BPA-A.

**Failing Item:**

- BPD-1A
- BPC-A

---

14027093      14027093

**Explanation:** BPD-2 is defective in BPA-A.

**Failing Item:**

- BPD-2A
- BPC-A

---

14027094      14027094

**Explanation:** BPD-3 is defective in BPA-A.

**Failing Item:**

- BPD-3A
- BPC-A

---

14027095      14027095

**Explanation:** BPA-A BPR-1 is defective.

**Failing Item:**

- BPR-1A
- BPC-A
- BPD-1A
- BPD-2A
- IBF-1A
- BPE-BOARD-A

---

14027096      14027096

**Explanation:** BPA-A BPR-2 is defective.

**Failing Item:**

- BPR-2A
- BPC-A
- BPD-1A
- BPD-2A
- IBF-2A
- BPE-BOARD-A

---

14027097      14027097

**Explanation:** BPA-A BPR-3 is defective.

**Failing Item:**

- BPR-3A
- BPC-A
- BPD-1A
- BPD-2A
- BPE-BOARD-A

---

14027098      14027098

**Explanation:** BPA-A BPR-4 is defective.

**Failing Item:**

- BPR-4A
- BPC-A
- BPD-1A
- BPD-2A
- BPE-BOARD-A

---

14027099      14027099

**Explanation:** BPA-A BPR-5 is defective.

**Failing Item:**

- BPR-5A
- BPC-A
- BPD-1A
- BPD-2A
- BPE-BOARD-A

## 1402709A • 14027197

---

1402709A    1402709A

**Explanation:** BPA-A BPR-6 is defective.

**Failing Item:**

- BPR-6A
- BPC-A
- BPD-1A
- BPD-2A
- BPE-BOARD-A

---

1402709B    1402709B

**Explanation:** BPA-A BPH is defective.

**Failing Item:**

- BPH-A
- BPC-A

---

140270A1    140270A1

**Explanation:** BPC-A side detects that IBF-1A is defective. (IBF is connected to BPA-A BPR-1A)

**Failing Item:**

- IBF-1A
- BPR-1A
- CBL-IBF1A
- BPC-A
- BPE-BOARD-A

---

140270A2    140270A2

**Explanation:** BPC-A side detects that IBF-2A is defective. (IBF is connected to BPA-A BPR-2A)

**Failing Item:**

- IBF-2A
- BPR-2A
- CBL-IBF2A
- BPC-A
- BPE-BOARD-A

---

14027190    14027190

**Explanation:** The BPCH in BPA-B is defective.

**Failing Item:**

- BPCH-B

---

14027191    14027191

**Explanation:** The BPC in BPA-B is defective.

**Failing Item:**

- BPC-B

---

14027192    14027192

**Explanation:** BPD-1 is defective in BPA-B.

**Failing Item:**

- BPD-1B
- BPC-B

---

14027193    14027193

**Explanation:** BPD-2 is defective in BPA-B.

**Failing Item:**

- BPD-2B
- BPC-B

---

14027194    14027194

**Explanation:** BPD-3 is defective in BPA-B.

**Failing Item:**

- BPD-3B
- BPC-B

---

14027195    14027195

**Explanation:** BPA-B BPR-1 is defective.

**Failing Item:**

- BPR-1B
- BPC-B
- BPD-1B
- BPD-2B
- IBF-1B
- BPE-BOARD-B

---

14027196    14027196

**Explanation:** BPA-B BPR-2 is defective.

**Failing Item:**

- BPR-2B
- BPC-B
- BPD-1B
- BPD-2B
- IBF-2B
- BPE-BOARD-B

---

14027197    14027197

**Explanation:** BPA-B BPR-3 is defective.

**Failing Item:**

- BPR-3B
- BPC-B
- BPD-1B
- BPD-2B

- BPE-BOARD-B

---

14027198    14027198

**Explanation:** BPA-B BPR-4 is defective.

**Failing Item:**

- BPR-4B
- BPC-B
- BPD-1B
- BPD-2B
- BPE-BOARD-B

---

14027199    14027199

**Explanation:** BPA-B BPR-5 is defective.

**Failing Item:**

- BPR-5B
- BPC-B
- BPD-1B
- BPD-2B
- BPE-BOARD-B

---

1402719A    1402719A

**Explanation:** BPA-B BPR-6 is defective.

**Failing Item:**

- BPR-6B
- BPC-B
- BPD-1B
- BPD-2B
- BPE-BOARD-B

---

1402719B    1402719B

**Explanation:** BPA-B BPH is defective.

**Failing Item:**

- BPH-B
- BPC-B

---

140271A1    140271A1

**Explanation:** BPC-B side detects that IBF-1B is defective. (IBF is connected to BPA-B BPR-1B)

**Failing Item:**

- IBF-1B
- BPR-1B
- CBL-IBF1B
- BPC-B
- BPE-BOARD-B

---

140271A2    140271A2

**Explanation:** BPC-B side detects that IBF-2B is defective. (IBF is connected to BPA-B BPR-2B)

**Failing Item:**

- IBF-2B
- BPR-2B
- CBL-IBF2B
- BPC-B
- BPE-BOARD-B

---

14028072    14028072

**Explanation:** BPA-A has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

---

14028073    14028073

**Explanation:** BPA-B has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books and that the BPF on the A-side has a cover over it / BPF on B-side does not.

---

14028074    14028074

**Explanation:** The Room Ambient Humidity has been reported as being out of specification. If unable to correct condition contact next level of support. The Sensor(s) are located in the UEPO assembly.

---

14028075    14028075

**Explanation:** The Room Dew Point value has been reported as being out of specification. If unable to correct condition contact next level of support. The Sensor(s) are located in the UEPO assembly.

---

14028081    14028081

**Explanation:** Input power to BPA A has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

14028082    14028082

**Explanation:** Input power to BPA B has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028083**    **14028083**

**Explanation:** Input power to BPA A has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028084**    **14028084**

**Explanation:** Input power to BPA B has been recovered after loss or partial loss. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028090**    **14028090**

**Explanation:** Input power to BPA A line cord 1 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028091**    **14028091**

**Explanation:** Input power to BPA A line cord 2 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028092**    **14028092**

**Explanation:** Input power to BPA B line cord 1 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**14028093**    **14028093**

**Explanation:** Input power to BPA B line cord 2 has returned to normal levels. IBM support should be notified of potential problem if this occurs without cause being identified.

---

**140280C3**    **140280C3**

**Explanation:** A-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
- BPC-A
- CBL-BPCA-EPO

---

**14028130**    **14028130**

**Explanation:** CAGE P/T Fru recovery. Cage in power recovery mode for information only.

---

**14028131**    **14028131**

**Explanation:** The UEPO switch has been used-This is an informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028132**    **14028132**

**Explanation:** A send secure vpd command was received - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028133**    **14028133**

**Explanation:** A TMS (60) was received - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028134**    **14028134**

**Explanation:** This contains an ACDL log - Informational SRC.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028135**    **14028135**

**Explanation:** There has been an internal bulk power software error. This is an informational reference code.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**14028136**    **14028136**

**Explanation:** A PU book has entered throttling mode. This is an informational reference code.

---

**14028172**    **14028172**

**Explanation:** BPA-A has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books.

---

**14028173**    **14028173**

**Explanation:** BPA-B has reported a temperature warning in cage - Make sure that there are no blocked/dirty air inlet or filters. Verify that all unused logic positions are filled with filler books.

---

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**140281C3 140281C3**

**Explanation:** B-side BPC detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
- BPC-B
- CBL-BPCB-EPO

---

**140282C3 140282C3**

**Explanation:** A-side BPCH detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
- BPCH-A
- CBL-BPCHA-EPO

---

**140283C3 140283C3**

**Explanation:** B-side BPCH detects that the room UEPO is in bypass. Verify the room UEPO loop is enabled.

**Failing Item:**

- EPO-SWITCH
- BPCH-B
- CBL-BPCHB-EPO

---

**14028777 14028777**

**Explanation:** This SRC is used to collect data or logs and does not indicate an error or hardware problem.

---

**14028888 14028888**

**Explanation:** A DCA in the TRES drawer identified by the SRC trailer has recovered.

---

**14029999 14029999**

**Explanation:** A bulk power logg has been created by an external command to BPA. Most likely this came from a support personal will investigating a problem. It is not a problem by itself and is for information collecting only.

**Failing Item:**

- NOT\_A\_BPA\_FRU

---

**1402A006 1402A006**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T6 has been detected.

**Failing Item:**

- BPCHA-PORT-06

---

**1402A007 1402A007**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T7 has been detected.

**Failing Item:**

- BPCHA-PORT-07

---

**1402A008 1402A008**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T8 has been detected.

**Failing Item:**

- BPCHA-PORT-08

---

**1402A009 1402A009**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T9 has been detected.

**Failing Item:**

- BPCHA-PORT-09

---

**1402A010 1402A010**

**Explanation:** A fault between (BPA-A) BPCH and FDT has been detected.

**Failing Item:**

- BPCHA-PORT-10

---

**1402A011 1402A011**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T11 has been detected.

**Failing Item:**

- BPCHA-PORT-11

---

**1402A012 1402A012**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T12 has been detected..

**Failing Item:**

- BPCHA-PORT-12

---

**1402A013 1402A013**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T13 has been detected.

**Failing Item:**

- BPCHA-PORT-13

---

**1402A014 1402A014**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T14 has been detected.

**Failing Item:**

## 1402A015 • 1402A029

- BPCHA-PORT-14

---

### 1402A015 1402A015

**Explanation:** A fault between (BPA-A) BPCH and the load on port T15 has been detected.

**Failing Item:**

- BPCHA-PORT-15

---

### 1402A016 1402A016

**Explanation:** A fault between (BPA-A) BPCH and the load on port T16 has been detected.

**Failing Item:**

- BPCHA-PORT-16

---

### 1402A017 1402A017

**Explanation:** A fault between (BPA-A) BPCH and the load on port T17 has been detected.

**Failing Item:**

- BPCHA-PORT-17

---

### 1402A018 1402A018

**Explanation:** A fault between (BPA-A) BPCH and the load on port T18 has been detected.

**Failing Item:**

- BPCHA-PORT-18

---

### 1402A019 1402A019

**Explanation:** A fault between (BPA-A) BPCH and the load on port T19 has been detected.

**Failing Item:**

- BPCHA-PORT-19

---

### 1402A020 1402A020

**Explanation:** A fault between (BPA-A) BPCH and the load on port T20 has been detected.

**Failing Item:**

- BPCHA-PORT-20

---

### 1402A021 1402A021

**Explanation:** A fault between (BPA-A) BPCH and the load on port T21 has been detected.

**Failing Item:**

- BPCHA-PORT-21

---

### 1402A022 1402A022

**Explanation:** A fault between (BPA-A) BPCH and the load on port T22 has been detected.

**Failing Item:**

- BPCHA-PORT-22

---

### 1402A023 1402A023

**Explanation:** A fault between (BPA-A) BPCH and the load on port T23 has been detected.

**Failing Item:**

- BPCHA-PORT-23

---

### 1402A024 1402A024

**Explanation:** A fault between (BPA-A) BPCH and the load on port T24 has been detected.

**Failing Item:**

- BPCHA-PORT-24

---

### 1402A025 1402A025

**Explanation:** A fault between (BPA-A) BPCH and the load on port T25 has been detected.

**Failing Item:**

- BPCHA-PORT-25

---

### 1402A026 1402A026

**Explanation:** A fault between (BPA-A) BPCH and the load on port T26 has been detected.

**Failing Item:**

- BPCHA-PORT-26

---

### 1402A027 1402A027

**Explanation:** A fault between (BPA-A) BPCH and the load on port T27 has been detected.

**Failing Item:**

- BPCHA-PORT-27

---

### 1402A028 1402A028

**Explanation:** A fault between (BPA-A) BPCH and the load on port T28 has been detected.

**Failing Item:**

- BPCHA-PORT-28

---

### 1402A029 1402A029

**Explanation:** A fault between (BPA-A) BPCH and the load on port T29 has been detected.

**Failing Item:**



- BPCHA-PORT-29

---

**1402A030    1402A030**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T30 has been detected.

**Failing Item:**

- BPCHA-PORT-30

---

**1402A031    1402A031**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T31 has been detected.

**Failing Item:**

- BPCHA-PORT-31

---

**1402A032    1402A032**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T32 has been detected.

**Failing Item:**

- BPCHA-PORT-32

---

**1402A033    1402A033**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T33 has been detected.

**Failing Item:**

- BPCHA-PORT-33

---

**1402A034    1402A034**

**Explanation:** A between (BPA-A) BPCH and the load on port T34 has been detected.

**Failing Item:**

- BPCHA-PORT-34

---

**1402A035    1402A035**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T35 has been detected.

**Failing Item:**

- BPCHA-PORT-35

---

**1402A036    1402A036**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T36 has been detected.

**Failing Item:**

- BPCHA-PORT-36

---

**1402A037    1402A037**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T37 has been detected.

**Failing Item:**

- BPCHA-PORT-37

---

**1402A038    1402A038**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T38 has been detected.

**Failing Item:**

- BPCHA-PORT-38

---

**1402A039    1402A039**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T39 has been detected.

**Failing Item:**

- BPCHA-PORT-39

---

**1402A040    1402A040**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T40 has been detected.

**Failing Item:**

- BPCHA-PORT-40

---

**1402A041    1402A041**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T41 has been detected.

**Failing Item:**

- BPCHA-PORT-41

---

**1402A042    1402A042**

**Explanation:** A fault between (BPA-A) BPCH and the load on port T42 has been detected.

**Failing Item:**

- BPCHA-PORT-42

---

**1402A101    1402A101**

**Explanation:** A fault between (BPA-A) BPD and the load on port T1 has been detected.

**Failing Item:**

- BPD A-PORT-01

---

**1402A102    1402A102**

**Explanation:** A fault between (BPA-A) BPD and the load on port T2 has been detected.

**Failing Item:**

## 1402A103 • 1402A117

- BPDA-PORT-02

---

### 1402A103 1402A103

**Explanation:** A fault between (BPA-A) BPD and the load on port T3 has been detected.

**Failing Item:**

- BPDA-PORT-03

---

### 1402A104 1402A104

**Explanation:** A fault between (BPA-A) BPD and the load on port T4 has been detected.

**Failing Item:**

- BPDA-PORT-04

---

### 1402A105 1402A105

**Explanation:** A fault between (BPA-A) BPD and the load on port T5 has been detected.

**Failing Item:**

- BPDA-PORT-05

---

### 1402A106 1402A106

**Explanation:** A fault between (BPA-A) BPD and the load on port T6 has been detected.

**Failing Item:**

- BPDA-PORT-06

---

### 1402A107 1402A107

**Explanation:** A fault between (BPA-A) BPD and the load on port T7 has been detected.

**Failing Item:**

- BPDA-PORT-07

---

### 1402A108 1402A108

**Explanation:** A fault between (BPA-A) BPD and the load on port T8 has been detected.

**Failing Item:**

- BPDA-PORT-08

---

### 1402A109 1402A109

**Explanation:** A fault between (BPA-A) BPD and the load on port T9 has been detected.

**Failing Item:**

- BPDA-PORT-09

---

### 1402A110 1402A110

**Explanation:** A fault between (BPA-A) BPD and the load on port T10 has been detected.

**Failing Item:**

- BPDA-PORT-10

---

### 1402A111 1402A111

**Explanation:** A fault between (BPA-A) BPD and the load on port T11 has been detected.

**Failing Item:**

- BPDA-PORT-11

---

### 1402A112 1402A112

**Explanation:** A fault between (BPA-A) BPD and the load on port T12 has been detected.

**Failing Item:**

- BPDA-PORT-12

---

### 1402A113 1402A113

**Explanation:** A fault between (BPA-A) BPD and the load on port T13 has been detected.

**Failing Item:**

- BPDA-PORT-13

---

### 1402A114 1402A114

**Explanation:** A fault between (BPA-A) BPD and the load on port T14 has been detected.

**Failing Item:**

- BPDA-PORT-14

---

### 1402A115 1402A115

**Explanation:** A fault between (BPA-A) BPD and the load on port T15 has been detected.

**Failing Item:**

- BPDA-PORT-15

---

### 1402A116 1402A116

**Explanation:** A fault between (BPA-A) BPD and the load on port T16 has been detected.

**Failing Item:**

- BPDA-PORT-16

---

### 1402A117 1402A117

**Explanation:** A fault between (BPA-A) BPD and the load on port T17 has been detected.

**Failing Item:**

- BPDA-PORT-17

---

**1402A118**    **1402A118**

**Explanation:** A fault between (BPA-A) BPD and the load on port T18 has been detected.

**Failing Item:**

- BPDA-PORT-18

---

**1402A119**    **1402A119**

**Explanation:** A fault between (BPA-A) BPD and the load on port T19 has been detected.

**Failing Item:**

- BPDA-PORT-19

---

**1402A120**    **1402A120**

**Explanation:** A fault between (BPA-A) BPD and the load on port T20 has been detected.

**Failing Item:**

- BPDA-PORT-20

---

**1402A121**    **1402A121**

**Explanation:** A fault between (BPA-A) BPD and the load on port T21 has been detected.

**Failing Item:**

- BPDA-PORT-21

---

**1402A122**    **1402A122**

**Explanation:** A fault between (BPA-A) BPD and the load on port T22 has been detected.

**Failing Item:**

- BPDA-PORT-22

---

**1402A123**    **1402A123**

**Explanation:** A fault between (BPA-A) BPD and the load on port T23 has been detected.

**Failing Item:**

- BPDA-PORT-23

---

**1402A124**    **1402A124**

**Explanation:** A fault between (BPA-A) BPD and the load on port T24 has been detected.

**Failing Item:**

- BPDA-PORT-24

---

**1402A125**    **1402A125**

**Explanation:** A fault between (BPA-A) BPD and the load on port T25 has been detected.

**Failing Item:**

- BPDA-PORT-25

---

**1402A126**    **1402A126**

**Explanation:** A fault between (BPA-A) BPD and the load on port T26 has been detected.

**Failing Item:**

- BPDA-PORT-26

---

**1402B006**    **1402B006**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T6 has been detected.

**Failing Item:**

- BPCHB-PORT-06

---

**1402B007**    **1402B007**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T7 has been detected.

**Failing Item:**

- BPCHB-PORT-07

---

**1402B008**    **1402B008**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T8 has been detected.

**Failing Item:**

- BPCHB-PORT-08

---

**1402B009**    **1402B009**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T9 has been detected.

**Failing Item:**

- BPCHB-PORT-09

---

**1402B010**    **1402B010**

**Explanation:** A fault between (BPA-B) BPCH and FDT (T10) has been detected.

**Failing Item:**

- BPCHB-PORT-10

---

**1402B011**    **1402B011**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T11 has been detected.

**Failing Item:**

## 1402B012 • 1402B026

- BPCHB-PORT-11

---

### 1402B012 1402B012

**Explanation:** A fault between (BPA-B) BPCH and the load on port T12 has been detected.

**Failing Item:**

- BPCHB-PORT-12

---

### 1402B013 1402B013

**Explanation:** A fault between (BPA-B) BPCH and the load on port T13 has been detected.

**Failing Item:**

- BPCHB-PORT-13

---

### 1402B014 1402B014

**Explanation:** A fault between (BPA-B) BPCH and the load on port T14 has been detected.

**Failing Item:**

- BPCHB-PORT-14

---

### 1402B015 1402B015

**Explanation:** A fault between (BPA-B) BPCH and the load on port T15 has been detected.

**Failing Item:**

- BPCHB-PORT-15

---

### 1402B016 1402B016

**Explanation:** A fault between (BPA-B) BPCH and the load on port T16 has been detected.

**Failing Item:**

- BPCHB-PORT-16

---

### 1402B017 1402B017

**Explanation:** A fault between (BPA-B) BPCH and the load on port T17 has been detected.

**Failing Item:**

- BPCHB-PORT-17

---

### 1402B018 1402B018

**Explanation:** A fault between (BPA-B) BPCH and the load on port T18 has been detected.

**Failing Item:**

- BPCHB-PORT-18

---

### 1402B019 1402B019

**Explanation:** A fault between (BPA-B) BPCH and the load on port T19 has been detected.

**Failing Item:**

- BPCHB-PORT-19

---

### 1402B020 1402B020

**Explanation:** A fault between (BPA-B) BPCH and the load on port T20 has been detected.

**Failing Item:**

- BPCHB-PORT-20

---

### 1402B021 1402B021

**Explanation:** A fault between (BPA-B) BPCH and the load on port T21 has been detected.

**Failing Item:**

- BPCHB-PORT-21

---

### 1402B022 1402B022

**Explanation:** A fault between (BPA-B) BPCH and the load on port T22 has been detected.

**Failing Item:**

- BPCHB-PORT-22

---

### 1402B023 1402B023

**Explanation:** A fault between (BPA-B) BPCH and the load on port T23 has been detected.

**Failing Item:**

- BPCHB-PORT-23

---

### 1402B024 1402B024

**Explanation:** A fault between (BPA-B) BPCH and the load on port T24 has been detected.

**Failing Item:**

- BPCHB-PORT-24

---

### 1402B025 1402B025

**Explanation:** A fault between (BPA-B) BPCH and the load on port T25 has been detected.

**Failing Item:**

- BPCHB-PORT-25

---

### 1402B026 1402B026

**Explanation:** A fault between (BPA-B) BPCH and the load on port T26 has been detected.

**Failing Item:**

- BPCHB-PORT-26

---

**1402B027    1402B027**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T27 has been detected.

**Failing Item:**

- BPCHB-PORT-27

---

**1402B028    1402B028**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T28 has been detected.

**Failing Item:**

- BPCHB-PORT-28

---

**1402B029    1402B029**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T29 has been detected.

**Failing Item:**

- BPCHB-PORT-29

---

**1402B030    1402B030**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T30 has been detected.

**Failing Item:**

- BPCHB-PORT-30

---

**1402B031    1402B031**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T31 has been detected.

**Failing Item:**

- BPCHB-PORT-31

---

**1402B032    1402B032**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T32 has been detected.

**Failing Item:**

- BPCHB-PORT-32

---

**1402B033    1402B033**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T33 has been detected.

**Failing Item:**

- BPCHB-PORT-33

---

**1402B034    1402B034**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T34 has been detected.

**Failing Item:**

- BPCHB-PORT-34

---

**1402B035    1402B035**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T35 has been detected.

**Failing Item:**

- BPCHB-PORT-35

---

**1402B036    1402B036**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T36 has been detected.

**Failing Item:**

- BPCHB-PORT-36

---

**1402B037    1402B037**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T37 has been detected.

**Failing Item:**

- BPCHB-PORT-37

---

**1402B038    1402B038**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T38 has been detected.

**Failing Item:**

- BPCHB-PORT-38

---

**1402B039    1402B039**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T39 has been detected.

**Failing Item:**

- BPCHB-PORT-39

---

**1402B040    1402B040**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T40 has been detected.

**Failing Item:**

- BPCHB-PORT-40

---

**1402B041    1402B041**

**Explanation:** A fault between (BPA-B) BPCH and the load on port T41 has been detected.

**Failing Item:**

## 1402B042 • 1402B114

- BPCHB-PORT-41

---

### 1402B042 1402B042

**Explanation:** A fault between (BPA-B) BPD and the load on port T42 has been detected.

**Failing Item:**

- BPCHB-PORT-42

---

### 1402B101 1402B101

**Explanation:** A fault between (BPA-B) BPD and the load on port T1 has been detected.

**Failing Item:**

- BPDB-PORT-01

---

### 1402B102 1402B102

**Explanation:** A fault between (BPA-B) BPD and the load on port T2 has been detected.

**Failing Item:**

- BPDB-PORT-02

---

### 1402B103 1402B103

**Explanation:** A fault between (BPA-B) BPD and the load on port T3 has been detected.

**Failing Item:**

- BPDB-PORT-03

---

### 1402B104 1402B104

**Explanation:** A fault between (BPA-B) BPD and the load on port T4 has been detected.

**Failing Item:**

- BPDB-PORT-04

---

### 1402B105 1402B105

**Explanation:** A fault between (BPA-B) BPD and the load on port T5 has been detected.

**Failing Item:**

- BPDB-PORT-05

---

### 1402B106 1402B106

**Explanation:** A fault between (BPA-B) BPD and the load on port T6 has been detected.

**Failing Item:**

- BPDB-PORT-06

---

### 1402B107 1402B107

**Explanation:** A fault between (BPA-B) BPD and the load on port T7 has been detected.

**Failing Item:**

- BPDB-PORT-07

---

### 1402B108 1402B108

**Explanation:** A fault between (BPA-B) BPD and the load on port T8 has been detected.

**Failing Item:**

- BPDB-PORT-08

---

### 1402B109 1402B109

**Explanation:** A fault between (BPA-B) BPD and the load on port T9 has been detected.

**Failing Item:**

- BPDB-PORT-09

---

### 1402B110 1402B110

**Explanation:** A fault between (BPA-B) BPD and the load on port T10 has been detected.

**Failing Item:**

- BPDB-PORT-10

---

### 1402B111 1402B111

**Explanation:** A fault between (BPA-B) BPD and the load on port T11 has been detected.

**Failing Item:**

- BPDB-PORT-11

---

### 1402B112 1402B112

**Explanation:** A fault between (BPA-B) BPD and the load on port T12 has been detected.

**Failing Item:**

- BPDB-PORT-12

---

### 1402B113 1402B113

**Explanation:** A fault between (BPA-B) BPD and the load on port T13 has been detected.

**Failing Item:**

- BPDB-PORT-13

---

### 1402B114 1402B114

**Explanation:** A fault between (BPA-B) BPD and the load on port T14 has been detected.

**Failing Item:**

- BPDB-PORT-14

---

**1402B115**    **1402B115**

**Explanation:** A fault between (BPA-B) BPD and the load on port T15 has been detected.

**Failing Item:**

- BPDB-PORT-15

---

**1402B116**    **1402B116**

**Explanation:** A fault between (BPA-B) BPD and the load on port T16 has been detected.

**Failing Item:**

- BPDB-PORT-16

---

**1402B117**    **1402B117**

**Explanation:** A fault between (BPA-B) BPD and the load on port T17 has been detected.

**Failing Item:**

- BPDB-PORT-17

---

**1402B118**    **1402B118**

**Explanation:** A fault between (BPA-B) BPD and the load on port T18 has been detected.

**Failing Item:**

- BPDB-PORT-18

---

**1402B119**    **1402B119**

**Explanation:** A fault between (BPA-B) BPD and the load on port T19 has been detected.

**Failing Item:**

- BPDB-PORT-19

---

**1402B120**    **1402B120**

**Explanation:** A fault between (BPA-B) BPD and the load on port T20 has been detected.

**Failing Item:**

- BPDB-PORT-20

---

**1402B121**    **1402B121**

**Explanation:** A fault between (BPA-B) BPD and the load on port T21 has been detected.

**Failing Item:**

- BPDB-PORT-21

---

**1402B122**    **1402B122**

**Explanation:** A fault between (BPA-B) BPD and the load on port T22 has been detected.

**Failing Item:**

- BPDB-PORT-22

---

**1402B123**    **1402B123**

**Explanation:** A fault between (BPA-B) BPD and the load on port T23 has been detected.

**Failing Item:**

- BPDB-PORT-23

---

**1402B124**    **1402B124**

**Explanation:** A fault between (BPA-B) BPD and the load on port T24 has been detected.

**Failing Item:**

- BPDB-PORT-24

---

**1402B125**    **1402B125**

**Explanation:** A fault between (BPA-B) BPD and the load on port T25 has been detected.

**Failing Item:**

- BPDB-PORT-25

---

**1402B126**    **1402B126**

**Explanation:** A fault between (BPA-B) BPD and the load on port T26 has been detected.

**Failing Item:**

- BPDB-PORT-26





---

## (169C) Reference codes

---

169C102E 169C102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

169C3002 169C3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

169C3010 169C3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

169C3020 169C3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

169C3029 169C3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

169C3100 169C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

169C3109 169C3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

169C310C 169C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

169C310D 169C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

169C3110 169C3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

169C3130 169C3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

169C34FF 169C34FF

**Explanation:** Format in progress

## 169C4041 • 169CFFF9

**Response:** No action required. This reference code is logged for information only.

---

169C4041    169C4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

169C4060    169C4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

169C4061    169C4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

169C4100    169C4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

169C7000    169C7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

169C7001    169C7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169C70DD    169C70DD

**Explanation:** System log entry only, no service action required

---

169CFFF3    169CFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

169CFFF4    169CFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

169CFFF5    169CFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF6    169CFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF7    169CFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

169CFFF9    169CFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**169CFFFA 169CFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**169CFFFB 169CFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**169CFFFC 169CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**169CFFFD 169CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**169CFFFE 169CFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (1750) Reference codes

---

17503002    17503002

**Explanation:** Addressed device is not responding

**Failing Item:**

- FCPORT
- FCDEV
- FCIOA
- FCINTF
- OPT\_CLN

---

17503010    17503010

**Explanation:** Disk device returned wrong response to IOP

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

17503020    17503020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

17503029    17503029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

17503100    17503100

**Explanation:** Fibre Channel interface error occurred

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

17503109    17503109

**Explanation:** IOP timed out a disk command

**Failing Item:**

- FCDEV
- FCINTF
- FCIOA
- OPT\_CLN

---

17503160    17503160

**Explanation:** The volume in use is no longer accessible

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

17503161    17503161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

175034FF    175034FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

1750FFF3    1750FFF3

**Explanation:** Disk media format bad

**Failing Item:**

- FCDEV

---

1750FFF4    1750FFF4

**Explanation:** Disk device problem

**Failing Item:**

- FCDEV

---

1750FFF5    1750FFF5

## 1750FFF6 • 1750FFFE

**Explanation:** Disk sector read error

**Failing Item:**

- FCDEV
- 

### 1750FFF6 1750FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- 

### 1750FFFA 1750FFFA

**Explanation:** Disk device wrong response was recovered by the IOP

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 1750FFFE 1750FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

## (198B) Reference codes

---

**198B102E**    **198B102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**198B3002**    **198B3002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**198B3010**    **198B3010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198B3020**    **198B3020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**198B3029**    **198B3029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**198B3100**    **198B3100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**198B3109**    **198B3109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198B310C**    **198B310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198B310D**    **198B310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198B3110**    **198B3110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198B3130**    **198B3130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**198B34FF**    **198B34FF**

**Explanation:** Format in progress

## 198B4041 • 198BFFF9

**Response:** No action required. This reference code is logged for information only.

---

**198B4041**    **198B4041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**198B4060**    **198B4060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**198B4061**    **198B4061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**198B4100**    **198B4100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**198B7000**    **198B7000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**198B7001**    **198B7001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198B70DD**    **198B70DD**

**Explanation:** System log entry only, no service action required

---

**198BFFF3**    **198BFFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**198BFFF4**    **198BFFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**198BFFF5**    **198BFFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198BFFF6**    **198BFFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198BFFF7**    **198BFFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198BFFF9**    **198BFFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198BFFFA 198BFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198BFFFB 198BFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**198BFFFC 198BFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198BFFFD 198BFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198BFFFE 198BFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198C) Reference codes

---

198C102E 198C102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

198C3002 198C3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

198C3010 198C3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198C3020 198C3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

198C3029 198C3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

198C3100 198C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

198C3109 198C3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198C310C 198C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198C310D 198C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198C3110 198C3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198C3130 198C3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

198C34FF 198C34FF

**Explanation:** Format in progress

## 198C4041 • 198CFFF9

**Response:** No action required. This reference code is logged for information only.

---

198C4041    198C4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198C4060    198C4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198C4061    198C4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198C4100    198C4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198C7000    198C7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

198C7001    198C7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198C70DD    198C70DD

**Explanation:** System log entry only, no service action required

---

198CFFF3    198CFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

198CFFF4    198CFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

198CFFF5    198CFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF6    198CFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF7    198CFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198CFFF9    198CFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198CFFFA 198CFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198CFFFB 198CFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**198CFFFC 198CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198CFFFD 198CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198CFFFE 198CFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198D) Reference codes

---

198D102E 198D102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

198D3002 198D3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

198D3010 198D3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198D3020 198D3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

198D3029 198D3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

198D3100 198D3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

198D3109 198D3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198D310C 198D310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198D310D 198D310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198D3110 198D3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198D3130 198D3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

198D34FF 198D34FF

**Explanation:** Format in progress

## 198D4041 • 198DFFF9

**Response:** No action required. This reference code is logged for information only.

---

198D4041 198D4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198D4060 198D4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198D4061 198D4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198D4100 198D4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198D7000 198D7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

198D7001 198D7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198D70DD 198D70DD

**Explanation:** System log entry only, no service action required

---

198DFFF3 198DFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

198DFFF4 198DFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

198DFFF5 198DFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF6 198DFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF7 198DFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198DFFF9 198DFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198DFFFA 198DFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198DFFFB 198DFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**198DFFFC 198DFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198DFFFD 198DFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198DFFFE 198DFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (198E) Reference codes

---

198E102E    198E102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

198E3002    198E3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

198E3010    198E3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198E3020    198E3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

198E3029    198E3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

198E3100    198E3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

198E3109    198E3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198E310C    198E310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198E310D    198E310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

198E3110    198E3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

198E3130    198E3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

198E34FF    198E34FF

**Explanation:** Format in progress

## 198E4041 • 198EFFF9

**Response:** No action required. This reference code is logged for information only.

---

198E4041    198E4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

198E4060    198E4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

198E4061    198E4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

198E4100    198E4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

198E7000    198E7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

198E7001    198E7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198E70DD    198E70DD

**Explanation:** System log entry only, no service action required

---

198EFFF3    198EFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

198EFFF4    198EFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

198EFFF5    198EFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198EFFF6    198EFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198EFFF7    198EFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

198EFFF9    198EFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**198EFFFA 198EFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**198EFFFB 198EFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**198EFFFC 198EFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198EFFFD 198EFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**198EFFFE 198EFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A1) Reference codes

---

19A1102E 19A1102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

19A13002 19A13002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - DEVBPLN
  - SASCABL
  - SASEXP
- 

19A13010 19A13010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

19A13020 19A13020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

19A13029 19A13029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

19A13100 19A13100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
- 

- SASEXP
- 

19A13109 19A13109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

19A1310C 19A1310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

19A1310D 19A1310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
  - DISKDRV
  - STORIOA
- 

19A13110 19A13110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
  - STORIOA
  - SASCABL
  - SASEXP
- 

19A13130 19A13130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

19A134FF 19A134FF

**Explanation:** Format in progress

---

## 19A14041 • 19A1FFF9

**Response:** No action required. This reference code is logged for information only.

---

19A14041    19A14041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

19A14060    19A14060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

19A14061    19A14061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

19A14100    19A14100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

19A17000    19A17000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

19A17001    19A17001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A170DD    19A170DD

**Explanation:** System log entry only, no service action required

---

19A1FFF3    19A1FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

19A1FFF4    19A1FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

19A1FFF5    19A1FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A1FFF6    19A1FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A1FFF7    19A1FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A1FFF9    19A1FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A1FFFA 19A1FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A1FFFB 19A1FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19A1FFFC 19A1FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A1FFFD 19A1FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A1FFFE 19A1FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A3) Reference codes

---

19A3102E 19A3102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

19A33002 19A33002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

19A33010 19A33010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A33020 19A33020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

19A33029 19A33029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

19A33100 19A33100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

19A33109 19A33109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A3310C 19A3310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

19A3310D 19A3310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

19A33110 19A33110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A33130 19A33130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

19A334FF 19A334FF

**Explanation:** Format in progress

## 19A34041 • 19A3FFF9

**Response:** No action required. This reference code is logged for information only.

---

19A34041 19A34041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

19A34060 19A34060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

19A34061 19A34061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

19A34100 19A34100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

19A37000 19A37000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

19A37001 19A37001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A370DD 19A370DD

**Explanation:** System log entry only, no service action required

---

19A3FFF3 19A3FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

19A3FFF4 19A3FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

19A3FFF5 19A3FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A3FFF6 19A3FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A3FFF7 19A3FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A3FFF9 19A3FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A3FFFA 19A3FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A3FFFB 19A3FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19A3FFFC 19A3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A3FFFD 19A3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A3FFFE 19A3FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19A4) Reference codes

---

19A4102E 19A4102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

19A43002 19A43002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

19A43010 19A43010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A43020 19A43020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

19A43029 19A43029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

19A43100 19A43100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

19A43109 19A43109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A4310C 19A4310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

19A4310D 19A4310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

19A43110 19A43110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

19A43130 19A43130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

19A434FF 19A434FF

**Explanation:** Format in progress

## 19A44041 • 19A4FFF9

**Response:** No action required. This reference code is logged for information only.

---

19A44041    19A44041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

19A44060    19A44060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

19A44061    19A44061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

19A44100    19A44100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

19A47000    19A47000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

19A47001    19A47001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A470DD    19A470DD

**Explanation:** System log entry only, no service action required

---

19A4FFF3    19A4FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

19A4FFF4    19A4FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

19A4FFF5    19A4FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A4FFF6    19A4FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A4FFF7    19A4FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

19A4FFF9    19A4FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19A4FFFA 19A4FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19A4FFFB 19A4FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19A4FFFC 19A4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A4FFFD 19A4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19A4FFFE 19A4FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B0) Reference codes

---

**19B0102E**    **19B0102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B03002**    **19B03002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B03010**    **19B03010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B03020**    **19B03020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B03029**    **19B03029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B03100**    **19B03100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B03109**    **19B03109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B0310C**    **19B0310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B0310D**    **19B0310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B03110**    **19B03110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B03130**    **19B03130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B034FF**    **19B034FF**

**Explanation:** Format in progress

## 19B04041 • 19B0FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B04041**    **19B04041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B04060**    **19B04060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B04061**    **19B04061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B04100**    **19B04100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B07000**    **19B07000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B07001**    **19B07001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B070DD**    **19B070DD**

**Explanation:** System log entry only, no service action required

---

**19B0FFF3**    **19B0FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B0FFF4**    **19B0FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B0FFF5**    **19B0FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B0FFF6**    **19B0FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B0FFF7**    **19B0FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B0FFF9**    **19B0FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B0FFFA 19B0FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B0FFFB 19B0FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B0FFFC 19B0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B0FFFD 19B0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B0FFFE 19B0FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B1) Reference codes

---

**19B1102E**    **19B1102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B13002**    **19B13002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B13010**    **19B13010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B13020**    **19B13020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B13029**    **19B13029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B13100**    **19B13100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B13109**    **19B13109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B1310C**    **19B1310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B1310D**    **19B1310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B13110**    **19B13110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B13130**    **19B13130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B134FF**    **19B134FF**

**Explanation:** Format in progress

## 19B14041 • 19B1FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B14041**    **19B14041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B14060**    **19B14060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B14061**    **19B14061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B14100**    **19B14100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B17000**    **19B17000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B17001**    **19B17001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B170DD**    **19B170DD**

**Explanation:** System log entry only, no service action required

---

**19B1FFF3**    **19B1FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B1FFF4**    **19B1FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B1FFF5**    **19B1FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B1FFF6**    **19B1FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B1FFF7**    **19B1FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B1FFF9**    **19B1FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B1FFFA 19B1FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B1FFFB 19B1FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B1FFFC 19B1FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B1FFFD 19B1FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B1FFFE 19B1FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B3) Reference codes

---

**19B3102E**    **19B3102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B33002**    **19B33002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B33010**    **19B33010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B33020**    **19B33020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B33029**    **19B33029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B33100**    **19B33100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B33109**    **19B33109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B3310C**    **19B3310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B3310D**    **19B3310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B33110**    **19B33110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B33130**    **19B33130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B334FF**    **19B334FF**

**Explanation:** Format in progress

## 19B34041 • 19B3FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B34041**    **19B34041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B34060**    **19B34060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B34061**    **19B34061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B34100**    **19B34100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B37000**    **19B37000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B37001**    **19B37001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B370DD**    **19B370DD**

**Explanation:** System log entry only, no service action required

---

**19B3FFF3**    **19B3FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B3FFF4**    **19B3FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B3FFF5**    **19B3FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B3FFF6**    **19B3FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B3FFF7**    **19B3FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B3FFF9**    **19B3FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B3FFFA 19B3FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B3FFFB 19B3FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B3FFFC 19B3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B3FFFD 19B3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B3FFFE 19B3FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B4) Reference codes

---

**19B4102E**    **19B4102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B43002**    **19B43002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B43010**    **19B43010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B43020**    **19B43020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B43029**    **19B43029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B43100**    **19B43100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B43109**    **19B43109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B4310C**    **19B4310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B4310D**    **19B4310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B43110**    **19B43110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B43130**    **19B43130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B434FF**    **19B434FF**

**Explanation:** Format in progress

## 19B44041 • 19B4FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B44041**    **19B44041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B44060**    **19B44060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B44061**    **19B44061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B44100**    **19B44100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B47000**    **19B47000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B47001**    **19B47001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B470DD**    **19B470DD**

**Explanation:** System log entry only, no service action required

---

**19B4FFF3**    **19B4FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B4FFF4**    **19B4FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B4FFF5**    **19B4FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B4FFF6**    **19B4FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B4FFF7**    **19B4FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B4FFF9**    **19B4FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B4FFFA 19B4FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B4FFFB 19B4FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B4FFFC 19B4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B4FFFD 19B4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B4FFFE 19B4FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B5) Reference codes

---

**19B5102E**    **19B5102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B53002**    **19B53002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B53010**    **19B53010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B53020**    **19B53020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B53029**    **19B53029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B53100**    **19B53100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B53109**    **19B53109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B5310C**    **19B5310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B5310D**    **19B5310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B53110**    **19B53110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B53130**    **19B53130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B534FF**    **19B534FF**

**Explanation:** Format in progress

## 19B54041 • 19B5FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B54041**    **19B54041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B54060**    **19B54060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B54061**    **19B54061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B54100**    **19B54100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B57000**    **19B57000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B57001**    **19B57001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B570DD**    **19B570DD**

**Explanation:** System log entry only, no service action required

---

**19B5FFF3**    **19B5FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B5FFF4**    **19B5FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B5FFF5**    **19B5FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B5FFF6**    **19B5FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B5FFF7**    **19B5FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B5FFF9**    **19B5FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B5FFFA 19B5FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B5FFFB 19B5FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B5FFFC 19B5FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B5FFFD 19B5FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B5FFFE 19B5FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (19B7) Reference codes

---

**19B7102E**    **19B7102E**

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

**19B73002**    **19B73002**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

**19B73010**    **19B73010**

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B73020**    **19B73020**

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

**19B73029**    **19B73029**

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B73100**    **19B73100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

**19B73109**    **19B73109**

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B7310C**    **19B7310C**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B7310D**    **19B7310D**

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B73110**    **19B73110**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B73130**    **19B73130**

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**19B734FF**    **19B734FF**

**Explanation:** Format in progress

## 19B74041 • 19B7FFF9

**Response:** No action required. This reference code is logged for information only.

---

**19B74041**    **19B74041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**19B74060**    **19B74060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**19B74061**    **19B74061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**19B74100**    **19B74100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**19B77000**    **19B77000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**19B77001**    **19B77001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B770DD**    **19B770DD**

**Explanation:** System log entry only, no service action required

---

**19B7FFF3**    **19B7FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**19B7FFF4**    **19B7FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**19B7FFF5**    **19B7FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B7FFF6**    **19B7FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B7FFF7**    **19B7FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B7FFF9**    **19B7FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**19B7FFFA 19B7FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**19B7FFFB 19B7FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**19B7FFFC 19B7FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B7FFFD 19B7FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**19B7FFFE 19B7FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (2058) Reference codes

---

2058B990 2058B990

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- FI00130
- IOP
- MA\_BRDG



---

## (2105) Reference codes

---

21053002    21053002

**Explanation:** Addressed device is not responding

**Failing Item:**

- FCPORT
- FCDEV
- FCIOA
- FCINTF
- OPT\_CLN

---

21053010    21053010

**Explanation:** Disk device returned wrong response to IOP

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

21053020    21053020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

21053029    21053029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

21053100    21053100

**Explanation:** Fibre Channel interface error occurred

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

21053109    21053109

**Explanation:** IOP timed out a disk command

**Failing Item:**

- FCDEV
- FCINTF
- FCIOA
- OPT\_CLN

---

21053160    21053160

**Explanation:** The volume in use is no longer accessible

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

21053161    21053161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

210534FF    210534FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

2105FFF3    2105FFF3

**Explanation:** Disk media format bad

**Failing Item:**

- FCDEV

---

2105FFF4    2105FFF4

**Explanation:** Disk device problem

**Failing Item:**

- FCDEV

---

2105FFF5    2105FFF5

## 2105FFF6 • 2105FFFE

**Explanation:** Disk sector read error

**Failing Item:**

- FCDEV
- 

### 2105FFF6 2105FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- 

### 2105FFFA 2105FFFA

**Explanation:** Disk device wrong response was recovered by the IOP

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 2105FFFE 2105FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

## (2107) Reference codes

---

21073002    21073002

**Explanation:** Addressed device is not responding

**Failing Item:**

- FCPORT
- FCDEV
- FCIOA
- FCINTF
- OPT\_CLN

---

21073010    21073010

**Explanation:** Disk device returned wrong response to IOP

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

21073020    21073020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- FCDEV
- FCIOA
- OPT\_CLN

---

21073029    21073029

**Explanation:** This SRC is surfaced when the IOP detects that a device has changed Serial numbers. A device replacement has occurred.

**Response:** No action required. This reference code is logged for information only.

---

21073100    21073100

**Explanation:** Fibre Channel interface error occurred

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN

---

21073109    21073109

**Explanation:** IOP timed out a disk command

**Failing Item:**

- FCDEV
- FCINTF
- FCIOA
- OPT\_CLN

---

21073160    21073160

**Explanation:** The volume in use is no longer accessible

**Response:** The storage subsystem configuration was changed, causing the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

21073161    21073161

**Explanation:** The volume in use is no longer accessible.

**Response:** Storage subsystem copy services functions have caused the volume in use to no longer be accessible.

**Failing Item:**

- FCDEV

---

210734FF    210734FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

2107FFF3    2107FFF3

**Explanation:** Disk media format bad

**Failing Item:**

- FCDEV

---

2107FFF4    2107FFF4

**Explanation:** Disk device problem

**Failing Item:**

- FCDEV

---

2107FFF5    2107FFF5

## 2107FFF6 • 2107FFFE

**Explanation:** Disk sector read error

**Failing Item:**

- FCDEV
- 

### 2107FFF6 2107FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
- 

### 2107FFFA 2107FFFA

**Explanation:** Disk device wrong response was recovered by the IOP

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCDEV
  - FCIOA
  - OPT\_CLN
- 

### 2107FFFE 2107FFFE

**Explanation:** Temporary Fibre Channel interface error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- FCINTF
- FCDEV
- FCIOA
- OPT\_CLN



---

## (266D) Reference codes

---

266DA001 266DA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

266DB9B0 266DB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (266E) Reference codes

---

266EA001 266EA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

266EB9B0 266EB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (266F) Reference codes

---

266FA001    266FA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

266FB904    266FB904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

266FB934    266FB934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

266FB940    266FB940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

266FB941    266FB941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

266FB942    266FB942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

266FB9B0    266FB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (2689) Reference codes

---

26890A17 26890A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- AJDG301
- AJDGP01

---

26890A22 26890A22

**Explanation:** Adapter card storage error

**Failing Item:**

- AJDGP01
- AJDG301
- IOA

---

26891307 26891307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301

---

26891310 26891310

**Explanation:** I/O adapter resource not available.

**Response:** The INA processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOA
- AJDGP01

---

26893000 26893000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- AJDGP01

---

26893001 26893001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOA

- AJDGP01

---

26893006 26893006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- ANYBUS

---

26893080 26893080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

26893081 26893081

**Explanation:** I/O adapter error; logged only.

---

26893084 26893084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

26893087 26893087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301
- NTUSER

---

26896070 26896070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA

---

26896071 26896071

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

26896072 26896072

## 26896075 • 26896228

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896075    26896075

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01

---

26896083    26896083

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896085    26896085

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOA

---

26896201    26896201

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- AJDGP01

---

26896202    26896202

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOA

---

26896203    26896203

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- NETSERV
- IOA
- AJDGP01

---

26896210    26896210

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- NETSERV
- AJDGP01

---

26896222    26896222

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- IOA

---

26896223    26896223

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- AJDGP01

---

26896225    26896225

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- AJDG301
- IOA

---

26896226    26896226

**Explanation:** I/O processor card detected device error

**Failing Item:**

- AJDG301
- AS4NTDD

---

26896227    26896227

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTUSER
- AJDGP01
- IOA

---

26896228    26896228

**Explanation:** Windows initiated a warm boot

**Failing Item:**

- AJDGP01



- IOA

---

26896501    26896501

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- IOA
  - AJDGP01
- 

26896502    26896502

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- AJDGP01
  - IOA
- 

26896530    26896530

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

26896531    26896531

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

26896532    26896532

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

26896533    26896533

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
- 

---

26896534    26896534

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

26896535    26896535

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTDEVDR
  - AJDGP01
- 

26896538    26896538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

26896539    26896539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

2689653A    2689653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

2689653B    2689653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
-

---

2689653C 2689653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

2689653D 2689653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTDEVDR
  - AJDGP01
- 

2689653F 2689653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

26896540 26896540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AJDGP01
  - AJDG301
- 

26896541 26896541

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
  - AJDGP01
- 

26896542 26896542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
  - AJDGP01
- 

26896543 26896543

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- NTOPSYS
- 

- NTVSCSI
- 

26896544 26896544

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

26896580 26896580

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- DISKIMG
  - IOA
  - AJDGP01
- 

26896590 26896590

**Explanation:** A Netfinity Server error was detected

268965B0 268965B0

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTLANDD
  - NTOPSYS
- 

268965B1 268965B1

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTLANDD
  - NTOPSYS
  - AJDG301
- 

268965B2 268965B2

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

26898301 26898301

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOA
-

---

**2689B3B1**    **2689B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B2**    **2689B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B3**    **2689B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B4**    **2689B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B5**    **2689B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B6**    **2689B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B7**    **2689B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3B8**    **2689B3B8**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

---

**2689B3B9**    **2689B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- 

**2689B3E0**    **2689B3E0**

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOA
- 

**2689B3E1**    **2689B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

**2689B4B0**    **2689B4B0**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- 

**2689B4B1**    **2689B4B1**

**Explanation:** A Netfinity Server error was detected

**Failing Item:**

- NETSERV
  - AJDGP01
- 

**2689B4B9**    **2689B4B9**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

**2689B4BC**    **2689B4BC**

**Explanation:** A Netfinity Server error was detected

**Failing Item:**

- NETSERV
- 

**2689B4BF**    **2689B4BF**

**Explanation:** A Netfinity Server error was detected

**Failing Item:**

- NSCABLE
-

## 2689B904 • 2689BE00

---

2689B904    2689B904

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - IOA
- 

2689B935    2689B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- AJDGP01
  - IOA
- 

2689B960    2689B960

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOA
- 

2689BE00    2689BE00

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOA

---

## (2742) Reference codes

---

2742A001 2742A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

2742B940 2742B940

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

2742B941 2742B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (2743) Reference codes

---

2743B950    2743B950

**Explanation:** Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

2743B951    2743B951

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG





---

## (2744) Reference codes

---

2744B904    2744B904

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2744B920    2744B920

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

2744B921    2744B921

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2744B934    2744B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718



---

## (2745) Reference codes

---

2745B904    2745B904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2745B934    2745B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

2745B940    2745B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2745B941    2745B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

2745B942    2745B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2746) Reference codes

---

2746B904    2746B904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2746B934    2746B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

2746B940    2746B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2746B941    2746B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

2746B942    2746B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2749) Reference codes

---

27490A17    27490A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

27490A22    27490A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2749102E    2749102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

27491306    27491306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

27491307    27491307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

27491310    27491310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27491317    27491317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

27492200    27492200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27492201    27492201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

27492202    27492202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

27493000    27493000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 27493001 • 27493084

- FI01101
- IOP
- MA\_BRDG

---

27493001      27493001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

27493002      27493002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

27493006      27493006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

27493020      27493020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27493021      27493021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27493022      27493022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27493023      27493023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27493080      27493080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

27493081      27493081

**Explanation:** System log entry only, no service action required

---

27493084      27493084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG



---

 27493087    27493087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

27493100    27493100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27493101    27493101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27493102    27493102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27493103    27493103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27493109    27493109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27493110    27493110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27493120    27493120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

27493121    27493121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

27493122      27493122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

27493123      27493123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

27493136      27493136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

27493140      27493140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27493141      27493141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27493142      27493142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

27493143      27493143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27493150      27493150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

27493151      27493151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

27493200      27493200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

27493203      27493203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

27493205      27493205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

 27493215    27493215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

27493250    27493250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

27493300    27493300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

27493400    27493400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27493401    27493401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27493501    27493501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 27493600    27493600

**Explanation:** System log entry only, no service action required

---

27493601    27493601

**Explanation:** System log entry only, no service action required

---

27496070    27496070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

27496071    27496071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27496072    27496072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27496073    27496073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

27496075    27496075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

27496076    27496076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
- AJDGP01
- FI01105

---

27496081      27496081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27496082      27496082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27496083      27496083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27496085      27496085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

27496200      27496200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
- OPT\_CLN

---

27496201      27496201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01

---

27496602      27496602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

27498000      27498000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27498002      27498002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

27498004      27498004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

27498005      27498005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

27498007      27498007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

27498010    27498010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27498011    27498011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27498100    27498100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27498130    27498130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27498131    27498131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27498132    27498132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

27498133    27498133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27498140    27498140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27498141    27498141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27498145    27498145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

27498146    27498146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

27498150    27498150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

27498151    27498151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

 27498155    27498155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

27498156    27498156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

27498157    27498157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

27498200    27498200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27498300    27498300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

 27498301    27498301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

27498400    27498400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27499000    27499000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
- 

27499001    27499001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27499002    27499002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27499008    27499008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
-

---

 27499009    27499009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27499010    27499010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27499011    27499011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27499012    27499012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

27499013    27499013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

27499020    27499020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27499021    27499021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

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 27499022    27499022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27499023    27499023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27499024    27499024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27499025    27499025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27499026    27499026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27499027    27499027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27499028    27499028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

27499029      27499029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2749902F      2749902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27499030      27499030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

27499031      27499031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27499040      27499040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27499041      27499041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27499050      27499050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27499051      27499051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27499052      27499052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

27499053      27499053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27499054      27499054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27499081      27499081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA



---

 27499082    27499082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27499090    27499090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

27499091    27499091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

27499092    27499092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

2749B3B1    2749B3B1

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B2    2749B3B2

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B3    2749B3B3

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B4    2749B3B4

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B5    2749B3B5

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B6    2749B3B6

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B7    2749B3B7

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2749B3B8    2749B3B8

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

2749B3B9    2749B3B9

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2749B3E0 • 2749FF6D

- IOP

---

2749B3E0    2749B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2749B3E1    2749B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2749B410    2749B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2749B411    2749B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2749B412    2749B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2749B935    2749B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2749BE00    2749BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2749FF3D    2749FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2749FF6D    2749FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2757) Reference codes

---

27571310    27571310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27573006    27573006

**Explanation:** System bus error

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

27573020    27573020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573021    27573021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573022    27573022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

27573023    27573023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27573100    27573100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27573101    27573101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27573102    27573102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27573103 • 27573151

- FI01140
- DEVBPLN

---

27573103      27573103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

27573120      27573120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27573121      27573121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27573122      27573122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27573123      27573123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27573140      27573140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

27573141      27573141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

27573142      27573142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

27573143      27573143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

27573150      27573150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

27573151      27573151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

27573400    27573400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27573401    27573401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27573501    27573501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27573600    27573600

**Explanation:** System log entry only, no service action required

---

27573601    27573601

**Explanation:** System log entry only, no service action required

---

27578008    27578008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

27578009    27578009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

27578012    27578012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

27578100    27578100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27578130    27578130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27578131    27578131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27578132    27578132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

27578133    27578133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27578140    27578140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27578141    27578141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27578145    27578145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27578146    27578146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

27578150    27578150

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27578151    27578151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

27578155    27578155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27578156    27578156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27578157    27578157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27578200    27578200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27579000    27579000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

 27579001    27579001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27579002    27579002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27579008    27579008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

27579009    27579009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27579010    27579010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27579011    27579011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27579020    27579020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

 27579021    27579021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27579022    27579022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27579023    27579023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27579024    27579024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27579025    27579025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27579026    27579026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27579027    27579027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27579028    27579028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 27579029 • 27579053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27579029      27579029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2757902F      2757902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27579030      27579030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

27579031      27579031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27579032      27579032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27579040      27579040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27579041      27579041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27579042      27579042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27579050      27579050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27579051      27579051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27579052      27579052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27579053      27579053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a



type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27579054      27579054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27579071      27579071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

27579072      27579072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

27579073      27579073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

---

27579081      27579081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

27579082      27579082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

27579090      27579090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27579091      27579091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27579092      27579092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

27579093      27579093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2757B934      2757B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

---

2757FF3D      2757FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 2757FF6D

- ANYBRDG

---

### 2757FF6D 2757FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2760) Reference codes

---

2760B950    2760B950

**Explanation:** Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

2760B951    2760B951

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG



---

## (2763) Reference codes

---

27631310    27631310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27633006    27633006

**Explanation:** System bus error

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

27633020    27633020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27633021    27633021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27633022    27633022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

27633023    27633023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27633100    27633100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27633101    27633101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27633102    27633102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27633103 • 27633151

- FI01140
- DEVBPLN

---

27633103      27633103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

27633120      27633120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27633121      27633121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27633122      27633122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27633123      27633123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27633140      27633140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

27633141      27633141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

27633142      27633142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

27633143      27633143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

27633150      27633150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

27633151      27633151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

 27633400    27633400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27633401    27633401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27633501    27633501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27633600    27633600

**Explanation:** System log entry only, no service action required

---

27633601    27633601

**Explanation:** System log entry only, no service action required

---

27638008    27638008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

27638009    27638009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

27638012    27638012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

27638100    27638100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27638130    27638130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27638131    27638131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27638132    27638132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

27638133    27638133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27638140    27638140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27638141    27638141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27638145    27638145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27638146    27638146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

27638150    27638150

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27638151    27638151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

27638155    27638155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27638156    27638156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27638157    27638157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27638200    27638200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27639000    27639000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-



---

27639001    27639001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27639002    27639002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27639008    27639008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

27639009    27639009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27639010    27639010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27639011    27639011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27639020    27639020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27639021    27639021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27639022    27639022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27639023    27639023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27639024    27639024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27639025    27639025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27639026    27639026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27639027    27639027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27639028    27639028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 27639029 • 27639053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27639029      27639029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2763902F      2763902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27639030      27639030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

27639031      27639031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27639032      27639032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27639040      27639040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27639041      27639041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27639042      27639042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27639050      27639050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27639051      27639051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27639052      27639052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27639053      27639053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27639054      27639054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27639071      27639071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

27639072      27639072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

27639073      27639073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

---

27639081      27639081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

27639082      27639082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

27639090      27639090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27639091      27639091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27639092      27639092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

27639093      27639093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2763B934      2763B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

---

2763FF3D      2763FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 2763FF6D

- ANYBRDG

---

### 2763FF6D 2763FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2767) Reference codes

---

27670A17    27670A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

27670A22    27670A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2767102E    2767102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

27671306    27671306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

27671307    27671307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

27671310    27671310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27671317    27671317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

27672200    27672200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27672201    27672201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

27672202    27672202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

27673000    27673000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 27673001 • 27673084

- FI01101
- IOP
- MA\_BRDG

---

27673001      27673001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

27673002      27673002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

27673006      27673006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

27673020      27673020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27673021      27673021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27673022      27673022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27673023      27673023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27673080      27673080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

27673081      27673081

**Explanation:** System log entry only, no service action required

---

27673084      27673084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

 27673087    27673087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

27673100    27673100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27673101    27673101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27673102    27673102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27673103    27673103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27673109    27673109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27673110    27673110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27673120    27673120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

27673121    27673121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

27673122      27673122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

27673123      27673123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

27673136      27673136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

27673140      27673140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

27673141      27673141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

27673142      27673142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

27673143      27673143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

27673150      27673150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

27673151      27673151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

27673200      27673200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

27673203      27673203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

27673205      27673205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105



---

 27673215    27673215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

27673250    27673250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

27673300    27673300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

27673400    27673400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27673401    27673401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27673501    27673501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

---

 27673600    27673600

**Explanation:** System log entry only, no service action required

---

27673601    27673601

**Explanation:** System log entry only, no service action required

---

27676070    27676070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

27676071    27676071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27676072    27676072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27676073    27676073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

27676075    27676075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

27676076    27676076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

 27676081      27676081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27676082      27676082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27676083      27676083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27676085      27676085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

27676200      27676200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

27676201      27676201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01
- 

27676602      27676602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01
- 

---

 27678000      27678000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

27678002      27678002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27678004      27678004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
  - STORIOA
- 

27678005      27678005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

27678007      27678007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

27678010    27678010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27678011    27678011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27678100    27678100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27678130    27678130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27678131    27678131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27678132    27678132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

27678133    27678133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27678140    27678140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27678141    27678141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27678145    27678145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

27678146    27678146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

27678150    27678150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

27678151    27678151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

27678155    27678155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27678156    27678156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27678157    27678157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27678200    27678200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27678300    27678300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

27678301    27678301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

27678400    27678400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

27679000    27679000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

27679001    27679001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33

---

27679002    27679002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

27679008    27679008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25

---

27679009    27679009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27679010    27679010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27679011    27679011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27679012    27679012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

27679013    27679013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

27679020    27679020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27679021    27679021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

27679022    27679022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27679023    27679023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27679024    27679024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27679025    27679025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27679026    27679026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27679027    27679027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27679028    27679028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

 27679029      27679029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

2767902F      2767902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27679030      27679030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21
- 

27679031      27679031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27679040      27679040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27679041      27679041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

27679050      27679050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

---

 27679051      27679051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

27679052      27679052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

27679053      27679053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

27679054      27679054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

27679081      27679081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

 27679082    27679082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27679090    27679090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

27679091    27679091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

27679092    27679092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

2767B3B1    2767B3B1

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B2    2767B3B2

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B3    2767B3B3

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B4    2767B3B4

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B5    2767B3B5

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B6    2767B3B6

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B7    2767B3B7

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2767B3B8    2767B3B8

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

2767B3B9    2767B3B9

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2767B3E0 • 2767FF6D

- IOP

---

2767B3E0    2767B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2767B3E1    2767B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2767B410    2767B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2767B411    2767B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2767B412    2767B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2767B935    2767B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2767BE00    2767BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2767FF3D    2767FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2767FF6D    2767FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS



---

## (2768) Reference codes

---

27680A17    27680A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

27680A22    27680A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2768102E    2768102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

27681306    27681306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

27681307    27681307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

27681310    27681310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27681317    27681317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

27682200    27682200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27682201    27682201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

27682202    27682202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

27683000    27683000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 27683001 • 27683084

- FI01101
- IOP
- MA\_BRDG

---

27683001      27683001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

27683002      27683002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

27683006      27683006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

27683020      27683020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27683021      27683021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27683022      27683022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27683023      27683023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

27683080      27683080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

27683081      27683081

**Explanation:** System log entry only, no service action required

---

27683084      27683084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

 27683087    27683087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

27683100    27683100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27683101    27683101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27683102    27683102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

 27683103    27683103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27683109    27683109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27683110    27683110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27683120    27683120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

27683121    27683121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

## 27683122 • 27683205

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27683122      27683122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27683123      27683123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27683136      27683136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

---

27683140      27683140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

27683141      27683141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

27683142      27683142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

27683143      27683143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

27683150      27683150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

27683151      27683151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

27683200      27683200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

27683203      27683203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

---

27683205      27683205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

 27683215    27683215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

27683250    27683250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

27683300    27683300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

27683400    27683400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27683401    27683401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27683501    27683501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

---

 27683600    27683600

**Explanation:** System log entry only, no service action required

---

27683601    27683601

**Explanation:** System log entry only, no service action required

---

27686070    27686070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

27686071    27686071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27686072    27686072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27686073    27686073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

27686075    27686075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

27686076    27686076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

 27686081    27686081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27686082    27686082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27686083    27686083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27686085    27686085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

27686200    27686200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

27686201    27686201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01
- 

27686602    27686602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01
- 

---

 27688000    27688000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

27688002    27688002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27688004    27688004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
  - STORIOA
- 

27688005    27688005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

27688007    27688007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

27688010    27688010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27688011    27688011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

27688100    27688100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27688130    27688130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27688131    27688131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27688132    27688132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

27688133    27688133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27688140    27688140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27688141    27688141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27688145    27688145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

27688146    27688146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

27688150    27688150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

27688151    27688151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

 27688155    27688155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

27688156    27688156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

27688157    27688157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

27688200    27688200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27688300    27688300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

 27688301    27688301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

27688400    27688400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

27689000    27689000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
- 

27689001    27689001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27689002    27689002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27689008    27689008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
-



---

27689009    27689009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27689010    27689010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27689011    27689011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27689012    27689012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

27689013    27689013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

27689020    27689020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27689021    27689021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

27689022    27689022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27689023    27689023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27689024    27689024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27689025    27689025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27689026    27689026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27689027    27689027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27689028    27689028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

 27689029      27689029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

2768902F      2768902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27689030      27689030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21
- 

27689031      27689031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27689040      27689040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27689041      27689041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

27689050      27689050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

 27689051      27689051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

27689052      27689052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

27689053      27689053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

27689054      27689054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

27689081      27689081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

**27689082**    **27689082**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**27689090**    **27689090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27689091**    **27689091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**27689092**    **27689092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2768B3B1**    **2768B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B2**    **2768B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B3**    **2768B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B4**    **2768B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B5**    **2768B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B6**    **2768B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B7**    **2768B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2768B3B8**    **2768B3B8**

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2768B3B9**    **2768B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2768B3E0 • 2768FF6D

- IOP

---

2768B3E0    2768B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2768B3E1    2768B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2768B410    2768B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2768B411    2768B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2768B412    2768B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2768B935    2768B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2768BE00    2768BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2768FF3D    2768FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2768FF6D    2768FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2771) Reference codes

---

2771B904 2771B904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2771B934 2771B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

2771B940 2771B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2771B941 2771B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

2771B942 2771B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2772) Reference codes

---

2772B904    2772B904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2772B934    2772B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

2772B940    2772B940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2772B941    2772B941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

2772B942    2772B942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01





---

## (2780) Reference codes

---

27801310    27801310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27803006    27803006

**Explanation:** System bus error

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

27803020    27803020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27803021    27803021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27803022    27803022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

27803023    27803023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27803100    27803100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27803101    27803101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27803102    27803102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27803103 • 27803151

- FI01140
- DEVBPLN

---

27803103      27803103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

27803120      27803120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27803121      27803121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27803122      27803122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27803123      27803123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27803140      27803140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

27803141      27803141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

27803142      27803142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

27803143      27803143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

27803150      27803150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

27803151      27803151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

 27803400    27803400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27803401    27803401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27803501    27803501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27803600    27803600

**Explanation:** System log entry only, no service action required

---

27803601    27803601

**Explanation:** System log entry only, no service action required

---

27808008    27808008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

27808009    27808009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

27808012    27808012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

27808100    27808100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27808130    27808130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27808131    27808131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27808132    27808132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

27808133    27808133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

27808140    27808140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

27808141    27808141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

27808145    27808145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

27808146    27808146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

27808150    27808150

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

27808151    27808151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

27808155    27808155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27808156    27808156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

27808157    27808157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

27808200    27808200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

27809000    27809000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

27809001    27809001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27809002    27809002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27809008    27809008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

27809009    27809009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27809010    27809010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27809011    27809011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27809020    27809020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27809021    27809021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27809022    27809022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27809023    27809023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27809024    27809024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27809025    27809025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27809026    27809026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27809027    27809027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27809028    27809028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 27809029 • 27809053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27809029      27809029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2780902F      2780902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27809030      27809030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

27809031      27809031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27809032      27809032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27809040      27809040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27809041      27809041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27809042      27809042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27809050      27809050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27809051      27809051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27809052      27809052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27809053      27809053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

27809054      27809054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

27809071      27809071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

27809072      27809072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

27809073      27809073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

27809081      27809081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

27809082      27809082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

27809090      27809090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

27809091      27809091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

27809092      27809092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

27809093      27809093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

2780B934      2780B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

2780FF3D      2780FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 2780FF6D

- ANYBRDG

---

### 2780FF6D 2780FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS



---

## (2782) Reference codes

---

27821310    27821310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27823006    27823006

**Explanation:** System bus error

**Failing Item:**

- IOP
  - ANYBUS
  - STORIOA
- 

27823020    27823020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27823021    27823021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27823022    27823022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
- 

- STORIOA
- 

27823023    27823023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

27823100    27823100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27823101    27823101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

27823102    27823102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
-

## 27823103 • 27823151

- FI01140
- DEVBPLN

---

27823103      27823103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

27823120      27823120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27823121      27823121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27823122      27823122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27823123      27823123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

27823140      27823140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

27823141      27823141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

27823142      27823142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

27823143      27823143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

27823150      27823150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

27823151      27823151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

 27823400    27823400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

27823401    27823401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

27823501    27823501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27823600    27823600

**Explanation:** System log entry only, no service action required

---

27823601    27823601

**Explanation:** System log entry only, no service action required

---

27828008    27828008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

27828009    27828009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

27828012    27828012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

27828100    27828100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

27828130    27828130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

27828131    27828131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

27828132    27828132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

27828133    27828133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**27828140**    **27828140**

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

**27828141**    **27828141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**27828145**    **27828145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

**27828146**    **27828146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

**27828150**    **27828150**

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**27828151**    **27828151**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

**27828155**    **27828155**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

**27828156**    **27828156**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

**27828157**    **27828157**

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

**27828200**    **27828200**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

**27829000**    **27829000**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

27829001    27829001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

27829002    27829002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

27829008    27829008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

27829009    27829009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

27829010    27829010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

27829011    27829011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

27829020    27829020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20

---

27829021    27829021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

27829022    27829022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27829023    27829023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27829024    27829024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27829025    27829025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

27829026    27829026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

27829027    27829027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

27829028    27829028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 27829029 • 27829053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

27829029      27829029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2782902F      2782902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

27829030      27829030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

27829031      27829031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

27829032      27829032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

27829040      27829040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

27829041      27829041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

27829042      27829042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

27829050      27829050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

27829051      27829051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

27829052      27829052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27829053      27829053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27829054      27829054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

27829071      27829071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

27829072      27829072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

27829073      27829073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

---

27829081      27829081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

27829082      27829082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

---

27829090      27829090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27829091      27829091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27829092      27829092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

---

27829093      27829093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2782B934      2782B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

---

2782FF3D      2782FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 2782FF6D

- ANYBRDG

---

### 2782FF6D 2782FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS



---

## (2787) Reference codes

---

27871310    27871310

**Explanation:** I/O processor or I/O adapter resource not available

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

27873020    27873020

**Explanation:** I/O processor detected a configuration error

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

27873100    27873100

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

27873120    27873120

**Explanation:** I/O processor detected a port failure

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

27873140    27873140

**Explanation:** I/O Processor detected that a port is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

27873400    27873400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

278734FF    278734FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

27878130    27878130

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

27878140    27878140

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

27878141    27878141

**Explanation:** IOA detected recoverable device error

**Response:** No action required. This reference code is logged for information only.

---

27878145    27878145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

27878146    27878146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FCDEV
- 

27878150    27878150

## 27878151 • 2787FF3D

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

27878151    27878151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

27878155    27878155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27878156    27878156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

27879091    27879091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

27879092    27879092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and

IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2787FF3D    2787FF3D

**Explanation:** Recovered IOA error

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (2793) Reference codes

---

2793A001 2793A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL
- 

2793B940 2793B940

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
  - AJDGP01
  - MA\_BRDG
- 

2793B941 2793B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (2805) Reference codes

---

2805A001    2805A001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL

---

2805B940    2805B940

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- AJDGP01
- MA\_BRDG

---

2805B941    2805B941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (280D) Reference codes

---

280D1310 280D1310

**Explanation:** I/O processor or I/O adapter resource not available

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

280D3020 280D3020

**Explanation:** I/O processor detected a configuration error

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

280D3100 280D3100

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

280D3120 280D3120

**Explanation:** I/O processor detected a port failure

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

280D3140 280D3140

**Explanation:** I/O Processor detected that a port is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

280D3400 280D3400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

280D34FF 280D34FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

280D8130 280D8130

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

280D8140 280D8140

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

280D8141 280D8141

**Explanation:** IOA detected recoverable device error

**Response:** No action required. This reference code is logged for information only.

---

280D8145 280D8145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

280D8146 280D8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FCDEV
- 

280D8150 280D8150

## 280D8151 • 280DFF3D

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 280D8151 280D8151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

### 280D8155 280D8155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

### 280D8156 280D8156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

### 280D9091 280D9091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 280D9092 280D9092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and

IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 280DFF3D 280DFF3D

**Explanation:** Recovered IOA error

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN



---

## (280E) Reference codes

---

280E1310    280E1310

**Explanation:** I/O processor or I/O adapter resource not available

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

280E3020    280E3020

**Explanation:** I/O processor detected a configuration error

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

280E3100    280E3100

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

280E3120    280E3120

**Explanation:** I/O processor detected a port failure

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

280E3140    280E3140

**Explanation:** I/O Processor detected that a port is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

280E3400    280E3400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

280E34FF    280E34FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

280E8130    280E8130

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

280E8140    280E8140

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

280E8141    280E8141

**Explanation:** IOA detected recoverable device error

**Response:** No action required. This reference code is logged for information only.

---

280E8145    280E8145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

280E8146    280E8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FCDEV
- 

280E8150    280E8150

## 280E8151 • 280EFF3D

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

### 280E8151 280E8151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

### 280E8155 280E8155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

### 280E8156 280E8156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

### 280E9091 280E9091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 280E9092 280E9092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and

IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 280EFF3D 280EFF3D

**Explanation:** Recovered IOA error

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (2838) Reference codes

---

2838B904    2838B904

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2838B930    2838B930

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

2838B931    2838B931

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2838B933    2838B933

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- AJDGP01



---

## (283C) Reference codes

---

283C1511    283C1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283C1515    283C1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283C1521    283C1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283C1525    283C1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283C3002    283C3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

283C3109    283C3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

283C7611    283C7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN
- 

283C7614    283C7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

283C7621    283C7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN
- 

283C7624    283C7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

283C7631    283C7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN
- 

283C7634    283C7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
-

## 283C8401 • 283CFFF4

---

283C8401    283C8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

283C8404    283C8404

**Explanation:** System log entry only, no service action required

---

283CFFF4    283CFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (283D) Reference codes

---

283D1511 283D1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283D1515 283D1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283D1521 283D1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283D1525 283D1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

283D3002 283D3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

283D3109 283D3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

283D7611 283D7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN
- 

283D7614 283D7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

283D7621 283D7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN
- 

283D7624 283D7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

283D7631 283D7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN
- 

283D7634 283D7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
-

## 283D8401 • 283DFFF4

---

283D8401 283D8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

283D8404 283D8404

**Explanation:** System log entry only, no service action required

---

283DFFF4 283DFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106



---

## (2842) Reference codes

---

28420A17 28420A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

28420A22 28420A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2842102E 2842102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

28421306 28421306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

28421307 28421307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

28421310 28421310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

28421317 28421317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

28422200 28422200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28422201 28422201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

28422202 28422202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

28423000 28423000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 28423001 • 28423084

- FI01101
- IOP
- MA\_BRDG

---

### 28423001 28423001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 28423002 28423002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 28423006 28423006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 28423020 28423020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423021 28423021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423022 28423022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423023 28423023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 28423080 28423080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

### 28423081 28423081

**Explanation:** System log entry only, no service action required

---

### 28423084 28423084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

 28423087    28423087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

28423100    28423100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28423101    28423101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28423102    28423102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28423103    28423103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28423109    28423109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28423110    28423110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28423120    28423120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

28423121    28423121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

28423122      28423122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

28423123      28423123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

28423136      28423136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

28423140      28423140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

28423141      28423141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

28423142      28423142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

28423143      28423143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

28423150      28423150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

28423151      28423151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

28423200      28423200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

28423203      28423203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

28423205      28423205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

 28423215    28423215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

28423250    28423250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

28423300    28423300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

28423400    28423400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

28423401    28423401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

28423501    28423501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 28423600    28423600

**Explanation:** System log entry only, no service action required

---

28423601    28423601

**Explanation:** System log entry only, no service action required

---

28426070    28426070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

28426071    28426071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28426072    28426072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28426073    28426073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

28426075    28426075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

28426076    28426076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
- AJDGP01
- FI01105

---

28426081      28426081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28426082      28426082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28426083      28426083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28426085      28426085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28426200      28426200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28426201      28426201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01

---

28426602      28426602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28428000      28428000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28428002      28428002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28428004      28428004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28428005      28428005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28428007      28428007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

28428010    28428010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

28428011    28428011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

28428100    28428100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28428130    28428130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

28428131    28428131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

28428132    28428132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

28428133    28428133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

28428140    28428140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

28428141    28428141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

28428145    28428145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

28428146    28428146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

28428150    28428150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

28428151    28428151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

28428155      28428155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28428156      28428156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28428157      28428157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

28428200      28428200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28428300      28428300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

28428301      28428301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

28428400      28428400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28429000      28429000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

28429001      28429001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33

---

28429002      28429002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

28429008      28429008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25



---

 28429009    28429009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

28429010    28429010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

28429011    28429011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

28429012    28429012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

28429013    28429013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

28429020    28429020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

28429021    28429021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

 28429022    28429022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28429023    28429023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28429024    28429024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28429025    28429025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

28429026    28429026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28429027    28429027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

28429028    28429028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

**28429029**    **28429029**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**2842902F**    **2842902F**

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**28429030**    **28429030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21
- 

**28429031**    **28429031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**28429040**    **28429040**

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

**28429041**    **28429041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

**28429050**    **28429050**

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

---

**28429051**    **28429051**

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

**28429052**    **28429052**

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

**28429053**    **28429053**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

**28429054**    **28429054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

**28429081**    **28429081**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

**28429082**    **28429082**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28429090**    **28429090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28429091**    **28429091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28429092**    **28429092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2842B3B1**    **2842B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B2**    **2842B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B3**    **2842B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B4**    **2842B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B5**    **2842B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B6**    **2842B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B7**    **2842B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2842B3B8**    **2842B3B8**

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2842B3B9**    **2842B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2842B3E0 • 2842FF6D

- IOP

---

2842B3E0    2842B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2842B3E1    2842B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2842B410    2842B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2842B411    2842B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2842B412    2842B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2842B935    2842B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2842BE00    2842BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2842FF3D    2842FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2842FF6D    2842FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2843) Reference codes

---

28430A17    28430A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

28430A22    28430A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2843102E    2843102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

28431306    28431306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

28431307    28431307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

28431310    28431310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

28431317    28431317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

28432200    28432200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28432201    28432201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

28432202    28432202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

28433000    28433000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 28433001 • 28433084

- FI01101
- IOP
- MA\_BRDG

---

28433001      28433001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28433002      28433002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

28433006      28433006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

28433020      28433020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28433021      28433021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28433022      28433022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28433023      28433023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28433080      28433080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28433081      28433081

**Explanation:** System log entry only, no service action required

---

28433084      28433084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

 28433087    28433087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

28433100    28433100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28433101    28433101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28433102    28433102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28433103    28433103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28433109    28433109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28433110    28433110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28433120    28433120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

28433121    28433121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

## 28433122 • 28433205

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

28433122      28433122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

28433123      28433123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

28433136      28433136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

---

28433140      28433140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

28433141      28433141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

28433142      28433142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

28433143      28433143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

28433150      28433150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

28433151      28433151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

28433200      28433200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

28433203      28433203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

---

28433205      28433205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105



---

 28433215    28433215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

28433250    28433250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

28433300    28433300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

28433400    28433400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

28433401    28433401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

28433501    28433501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 28433600    28433600

**Explanation:** System log entry only, no service action required

---

28433601    28433601

**Explanation:** System log entry only, no service action required

---

28436070    28436070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

28436071    28436071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28436072    28436072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28436073    28436073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

28436075    28436075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

28436076    28436076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
- AJDGP01
- FI01105

---

28436081      28436081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28436082      28436082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28436083      28436083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28436085      28436085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28436200      28436200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28436201      28436201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01

---

28436602      28436602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28438000      28438000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28438002      28438002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28438004      28438004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28438005      28438005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28438007      28438007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

28438010    28438010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

28438011    28438011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

28438100    28438100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28438130    28438130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

28438131    28438131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

28438132    28438132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

28438133    28438133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

28438140    28438140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

28438141    28438141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

28438145    28438145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

28438146    28438146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

28438150    28438150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

28438151    28438151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

28438155      28438155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28438156      28438156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28438157      28438157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

28438200      28438200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28438300      28438300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

28438301      28438301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

28438400      28438400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28439000      28439000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

28439001      28439001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33

---

28439002      28439002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

28439008      28439008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25

---

 28439009    28439009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

28439010    28439010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

28439011    28439011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

28439012    28439012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

28439013    28439013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

28439020    28439020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

28439021    28439021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

 28439022    28439022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28439023    28439023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28439024    28439024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28439025    28439025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

28439026    28439026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28439027    28439027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

28439028    28439028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

 28439029      28439029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

2843902F      2843902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

28439030      28439030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21
- 

28439031      28439031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

28439040      28439040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

28439041      28439041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

28439050      28439050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

 28439051      28439051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

28439052      28439052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

28439053      28439053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

28439054      28439054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

28439081      28439081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

 28439082    28439082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28439090    28439090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

28439091    28439091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

28439092    28439092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

2843B3B1    2843B3B1

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B2    2843B3B2

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B3    2843B3B3

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B4    2843B3B4

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B5    2843B3B5

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B6    2843B3B6

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B7    2843B3B7

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

2843B3B8    2843B3B8

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

2843B3B9    2843B3B9

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2843B3E0 • 2843FF6D

- IOP

---

2843B3E0    2843B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2843B3E1    2843B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2843B410    2843B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2843B411    2843B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2843B412    2843B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2843B935    2843B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2843BE00    2843BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2843FF3D    2843FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2843FF6D    2843FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS



---

## (2844) Reference codes

---

28440A17    28440A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

28440A22    28440A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

2844102E    2844102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

28441306    28441306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

28441307    28441307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

28441310    28441310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

28441317    28441317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

28442200    28442200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28442201    28442201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

28442202    28442202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

28443000    28443000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 28443001 • 28443084

- FI01101
- IOP
- MA\_BRDG

---

28443001      28443001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28443002      28443002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

28443006      28443006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

28443020      28443020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28443021      28443021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28443022      28443022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28443023      28443023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

28443080      28443080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28443081      28443081

**Explanation:** System log entry only, no service action required

---

28443084      28443084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

 28443087    28443087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

28443100    28443100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28443101    28443101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28443102    28443102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28443103    28443103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

28443109    28443109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28443110    28443110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

28443120    28443120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

28443121    28443121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

operational. Remove the device.

**Failing Item:**

- SVCDOCS

28443122      28443122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

28443123      28443123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

28443136      28443136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

28443140      28443140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

28443141      28443141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

28443142      28443142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

28443143      28443143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

28443150      28443150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

28443151      28443151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

28443200      28443200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

28443203      28443203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

28443205      28443205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

 28443215    28443215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

28443250    28443250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

28443300    28443300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

28443400    28443400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

28443401    28443401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

28443501    28443501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 28443600    28443600

**Explanation:** System log entry only, no service action required

---

28443601    28443601

**Explanation:** System log entry only, no service action required

---

28446070    28446070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

28446071    28446071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

28446072    28446072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28446073    28446073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

28446075    28446075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

28446076    28446076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
- AJDGP01
- FI01105

---

28446081      28446081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28446082      28446082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28446083      28446083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28446085      28446085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28446200      28446200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
- OPT\_CLN

---

28446201      28446201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01

---

28446602      28446602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

28448000      28448000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28448002      28448002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

28448004      28448004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

28448005      28448005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

28448007      28448007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

**28448010**    **28448010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28448011**    **28448011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**28448100**    **28448100**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**28448130**    **28448130**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**28448131**    **28448131**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**28448132**    **28448132**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

**28448133**    **28448133**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**28448140**    **28448140**

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

**28448141**    **28448141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**28448145**    **28448145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**28448146**    **28448146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**28448150**    **28448150**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**28448151**    **28448151**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

28448155      28448155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28448156      28448156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

28448157      28448157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

28448200      28448200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28448300      28448300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

28448301      28448301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

28448400      28448400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28449000      28449000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

28449001      28449001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33

---

28449002      28449002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

28449008      28449008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25



---

28449009    28449009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

28449010    28449010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

28449011    28449011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

28449012    28449012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

28449013    28449013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

28449020    28449020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

28449021    28449021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

28449022    28449022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28449023    28449023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28449024    28449024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28449025    28449025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

28449026    28449026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

28449027    28449027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

28449028    28449028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

28449029      28449029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

2844902F      2844902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

28449030      28449030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

28449031      28449031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

28449040      28449040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

28449041      28449041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

28449050      28449050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

28449051      28449051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

28449052      28449052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

28449053      28449053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28449054      28449054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

28449081      28449081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

**28449082**    **28449082**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**28449090**    **28449090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28449091**    **28449091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**28449092**    **28449092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**2844B3B1**    **2844B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B2**    **2844B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B3**    **2844B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B4**    **2844B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B5**    **2844B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B6**    **2844B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B7**    **2844B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2844B3B8**    **2844B3B8**

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2844B3B9**    **2844B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 2844B3E0 • 2844FF6D

- IOP

---

2844B3E0    2844B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2844B3E1    2844B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2844B410    2844B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2844B411    2844B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

2844B412    2844B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

2844B935    2844B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

2844BE00    2844BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

2844FF3D    2844FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

2844FF6D    2844FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2847) Reference codes

---

28470A17    28470A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- MA\_BRDG
- AJDGP01
- AJDG301

---

28470A22    28470A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
- AJDG301
- IOP
- MA\_BRDG

---

28471307    28471307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- AJDG301

---

28471310    28471310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

28473000    28473000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA
- IOP
- MA\_BRDG
- OPT\_CLN

---

28473001    28473001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28473002    28473002

**Explanation:** Addressed device is not responding

**Failing Item:**

- FCPORT
- FCDEV
- FCIOA
- FCINTF
- OPT\_CLN

---

28473006    28473006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FCIOA
- OPT\_CLN

---

28473080    28473080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28473081    28473081

**Explanation:** System log entry only, no service action required

---

28473084    28473084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FCIOA
- MA\_BRDG

## 28473087 • 28476081

- OPT\_CLN

---

28473087    28473087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
- AJDG301
- FCIOA
- OPT\_CLN

---

28473100    28473100

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- FCINTF
- ANYFC
- FCIOA
- OPT\_CLN

---

28473109    28473109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- FCDEV
- FCINTF
- FCIOA
- OPT\_CLN

---

28473120    28473120

**Explanation:** I/O processor detected a port failure

**Failing Item:**

- FCPORT
- FCIOA
- FCDEV
- OPT\_CLN

---

28473200    28473200

**Explanation:** A disk device reported a failure

**Failing Item:**

- FCDEV
- FCIOA
- IOP
- OPT\_CLN

---

28473501    28473501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28476070    28476070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

28476071    28476071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28476072    28476072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28476075    28476075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01

---

28476076    28476076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- AJDG301
- AJDGP01
- FCDEV

---

28476081    28476081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 28476082    28476082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28476083    28476083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28476085    28476085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

28476200    28476200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

28476201    28476201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01
- 

28478100    28478100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28478150    28478150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA

- ANYBRDG
  - OPT\_CLN
- 

28478155    28478155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - FCIOA
  - OPT\_CLN
- 

28478156    28478156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - FCIOA
  - OPT\_CLN
- 

28478200    28478200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

28478300    28478300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- FCIOA
  - IOP
  - AJDGP01
  - OPT\_CLN
- 

28478301    28478301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FCIOA
- AJDGP01
- IOP
- OPT\_CLN

## 2847B3B1 • 2847BE00

---

2847B3B1 2847B3B1

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B2 2847B3B2

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B3 2847B3B3

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B4 2847B3B4

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B5 2847B3B5

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B6 2847B3B6

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B7 2847B3B7

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP

---

2847B3B8 2847B3B8

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG

- IOP

---

2847B3E0 2847B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2847B3E1 2847B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

2847B935 2847B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FCIOA
- AJDGP01
- IOP
- MA\_BRDG
- OPT\_CLN

---

2847BE00 2847BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FCIOA
- MA\_BRDG
- OPT\_CLN



---

## (2849) Reference codes

---

2849B904    2849B904

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

2849B930    2849B930

**Explanation:** I/O adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00718
- FI00719

---

2849B931    2849B931

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

2849B933    2849B933

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- AJDGP01



---

## (284B) Reference codes

---

284B0A17 284B0A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

284B0A22 284B0A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

284B102E 284B102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

284B1306 284B1306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

284B1307 284B1307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

284B1310 284B1310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

284B1317 284B1317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

284B2200 284B2200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

284B2201 284B2201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

284B2202 284B2202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

284B3000 284B3000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 284B3001 • 284B3084

- FI01101
- IOP
- MA\_BRDG

---

### 284B3001 284B3001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 284B3002 284B3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 284B3006 284B3006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 284B3020 284B3020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3021 284B3021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3022 284B3022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3023 284B3023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 284B3080 284B3080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

### 284B3081 284B3081

**Explanation:** System log entry only, no service action required

---

### 284B3084 284B3084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**284B3087 284B3087**

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**284B3100 284B3100**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3101 284B3101**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3102 284B3102**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**284B3103 284B3103**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**284B3109 284B3109**

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B3110 284B3110**

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B3120 284B3120**

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**284B3121 284B3121**

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

## 284B3122 • 284B3205

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 284B3122    284B3122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 284B3123    284B3123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

### 284B3136    284B3136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

---

### 284B3140    284B3140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 284B3141    284B3141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 284B3142    284B3142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

### 284B3143    284B3143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 284B3150    284B3150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

### 284B3151    284B3151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

### 284B3200    284B3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

### 284B3203    284B3203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

---

### 284B3205    284B3205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

**284B3215**    **284B3215**
**Explanation:** Disk sector read error**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.**Failing Item:**

- FI01105
- 

**284B3250**    **284B3250****Explanation:** Disk unit requires initialization before use.**Response:** Perform a D-IPL and work on errors found in the log.**Failing Item:**

- USER
- 

**284B3300**    **284B3300****Explanation:** Storage unit detected a media problem**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**284B3400**    **284B3400****Explanation:** I/O processor card detected device error**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**284B3401**    **284B3401****Explanation:** Device backplane problem**Failing Item:**

- DEVBPLN
- 

**284B3501**    **284B3501****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
  - IOP
- 

**284B3600**    **284B3600****Explanation:** System log entry only, no service action required**284B3601**    **284B3601****Explanation:** System log entry only, no service action required**284B6070**    **284B6070****Explanation:** A permanent I/O processor failure occurred**Failing Item:**

- IOP
- 

**284B6071**    **284B6071****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
- 

**284B6072**    **284B6072****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
  - IOP
- 

**284B6073**    **284B6073****Explanation:** IPL device not ready**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**284B6075**    **284B6075****Explanation:** I/O processor resource not available**Failing Item:**

- AJDGP01
- 

**284B6076**    **284B6076****Explanation:** I/O processor card detected media error**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

284B6081    284B6081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

284B6082    284B6082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

284B6083    284B6083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

284B6085    284B6085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

284B6200    284B6200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
- OPT\_CLN

---

284B6201    284B6201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01

---

284B6602    284B6602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01

---

284B8000    284B8000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

284B8002    284B8002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
- STORIOA

---

284B8004    284B8004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
- STORIOA

---

284B8005    284B8005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
- CACHE

---

284B8007    284B8007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-



---

**284B8010**    **284B8010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**284B8011**    **284B8011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**284B8100**    **284B8100**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**284B8130**    **284B8130**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**284B8131**    **284B8131**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**284B8132**    **284B8132**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**284B8133**    **284B8133**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**284B8140**    **284B8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

**284B8141**    **284B8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**284B8145**    **284B8145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**284B8146**    **284B8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**284B8150**    **284B8150**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**284B8151**    **284B8151**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

284B8155    284B8155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

284B8156    284B8156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

284B8157    284B8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

284B8200    284B8200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

284B8300    284B8300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
- IOP
- AJDGP01

---

284B8301    284B8301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
- AJDGP01
- IOP

---

284B8400    284B8400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

284B9000    284B9000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

284B9001    284B9001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33

---

284B9002    284B9002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

284B9008    284B9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
-

---

**284B9009**    **284B9009**

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

**284B9010**    **284B9010**

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

**284B9011**    **284B9011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

**284B9012**    **284B9012**

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

**284B9013**    **284B9013**

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

**284B9020**    **284B9020**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

**284B9021**    **284B9021**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

**284B9022**    **284B9022**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9023**    **284B9023**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9024**    **284B9024**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9025**    **284B9025**

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

**284B9026**    **284B9026**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

**284B9027**    **284B9027**

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

**284B9028**    **284B9028**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

**284B9029**    **284B9029**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**284B902F**    **284B902F**

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

**284B9030**    **284B9030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

**284B9031**    **284B9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**284B9040**    **284B9040**

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

**284B9041**    **284B9041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

**284B9050**    **284B9050**

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

**284B9051**    **284B9051**

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

**284B9052**    **284B9052**

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

**284B9053**    **284B9053**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

**284B9054**    **284B9054**

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

**284B9081**    **284B9081**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

**284B9082**    **284B9082**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**284B9090**    **284B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**284B9091**    **284B9091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**284B9092**    **284B9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**284BB3B1**    **284BB3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

---

**284BB3B2**    **284BB3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B3**    **284BB3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B4**    **284BB3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B5**    **284BB3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B6**    **284BB3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B7**    **284BB3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**284BB3B8**    **284BB3B8**

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**284BB3B9**    **284BB3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 284BB3E0 • 284BFF6D

- IOP

---

284BB3E0 284BB3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

284BB3E1 284BB3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

284BB410 284BB410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

284BB411 284BB411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

284BB412 284BB412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

284BB935 284BB935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

284BBE00 284BBE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

284BFF3D 284BFF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

284BFF6D 284BFF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (2875) Reference codes

---

28751511      28751511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

28751515      28751515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

28751521      28751521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

28751525      28751525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

28753002      28753002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

28753109      28753109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

28757614      28757614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

28757624      28757624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

28757634      28757634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
- 

28757644      28757644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 28758404 • 2875FFF4

---

28758404    28758404

**Explanation:** System log entry only, no service action required

---

2875FFF4    2875FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (2876) Reference codes

---

28761511      28761511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

28761515      28761515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

28761521      28761521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

28761525      28761525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

28763002      28763002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

28763109      28763109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

28767614      28767614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

28767624      28767624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

28767634      28767634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

28767644      28767644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 28768404 • 2876FFF4

---

28768404    28768404

**Explanation:** System log entry only, no service action required

---

2876FFF4    2876FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2890) Reference codes

---

28900A17 28900A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- MA\_BRDG
- AJDG301
- AJDGP01

---

28900A22 28900A22

**Explanation:** Adapter card storage error

**Failing Item:**

- AJDGP01
- AJDG301
- IOP
- MA\_BRDG

---

28901307 28901307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301

---

28901310 28901310

**Explanation:** I/O adapter resource not available.

**Response:** The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOP
- AJDGP01

---

28903000 28903000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28903001 28903001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOP
- AJDGP01

---

28903006 28903006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- ANYBUS

---

28903080 28903080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

28903081 28903081

**Explanation:** I/O adapter error; logged only.

---

28903084 28903084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG

---

28903087 28903087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301
- NTUSER
- IOA

---

28906070 28906070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

28906071 28906071

## 28906072 • 28906226

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

28906072      28906072

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28906075      28906075

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01

---

28906083      28906083

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28906085      28906085

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28906201      28906201

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- AJDGP01

---

28906202      28906202

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28906210      28906210

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28906221      28906221

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDG301

---

28906222      28906222

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- IOP

---

28906223      28906223

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- AJDGP01

---

28906224      28906224

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- DISKIMG
- AJDGP01
- IOP
- MEMORY

---

28906225      28906225

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- AJDG301
- IOP

---

28906226      28906226

**Explanation:** I/O processor card detected device error

**Failing Item:**

- AJDG301

- AS4NTDD

---

28906227    28906227

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTUSER
- AJDGP01
- IOP

---

28906228    28906228

**Explanation:** Windows initiated a warm boot

**Failing Item:**

- AJDGP01
- IOP

---

28906501    28906501

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- IOP
- AJDGP01

---

28906502    28906502

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- AJDGP01
- IOP

---

28906530    28906530

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

28906531    28906531

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

28906532    28906532

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS

- AJDGP01
- AS4NTDD

---

28906533    28906533

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

28906534    28906534

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

28906535    28906535

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

28906538    28906538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

28906539    28906539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

2890653A    2890653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- AJDGP01
- AS4NTDD

---

**2890653B**    **2890653B****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
- 

**2890653C**    **2890653C****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

**2890653D**    **2890653D****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTUSER
  - NTDEVDR
  - AJDGP01
- 

**2890653F**    **2890653F****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

**28906540**    **28906540****Explanation:** A Virtual SCSI error was detected.**Failing Item:**

- NTVSCSI
  - AJDGP01
  - AJDG301
- 

**28906541**    **28906541****Explanation:** A permanent I/O processor failure occurred**Failing Item:**

- IOP
  - AJDGP01
- 

---

**28906542**    **28906542****Explanation:** Licensed Internal Code error detected.**Failing Item:**

- AJDG301
  - AJDGP01
- 

**28906543**    **28906543****Explanation:** A Windows fatal error occurred**Failing Item:**

- NTOPSYS
  - NTVSCSI
- 

**28906580**    **28906580****Explanation:** A Windows fatal error occurred**Failing Item:**

- DISKIMG
  - IOP
  - AJDGP01
- 

**289065B0**    **289065B0****Explanation:** A HostLAN error was detected**Failing Item:**

- NTLANDD
  - NTOPSYS
- 

**289065B1**    **289065B1****Explanation:** A HostLAN error was detected**Failing Item:**

- NTLANDD
  - NTOPSYS
  - AJDG301
- 

**289065B2**    **289065B2****Explanation:** A HostLAN error was detected**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

**28908301**    **28908301****Explanation:** An I/O adapter failure occurred.**Failing Item:**

- AJDGP01
- IOP

---

**2890B3B1**    **2890B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B2**    **2890B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B3**    **2890B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B4**    **2890B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B5**    **2890B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B6**    **2890B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B7**    **2890B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3B8**    **2890B3B8**

**Explanation:** Multi-adapter bridge error detected.

**Failing Item:**

- MA\_BRDG

- IOP
- 

**2890B3B9**    **2890B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2890B3E0**    **2890B3E0**

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2890B3E1**    **2890B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2890B4B0**    **2890B4B0**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP
- 

**2890B4B1**    **2890B4B1**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP
  - MEMORY
- 

**2890B4B2**    **2890B4B2**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOP
- 

**2890B4B3**    **2890B4B3**

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- 

**2890B4B4**    **2890B4B4**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP

## 2890B4B5 • 2890BE00

- IOA
- MEMORY

---

### 2890B4B5 2890B4B5

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

### 2890B4B8 2890B4B8

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
- IOP

---

### 2890B4B9 2890B4B9

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

### 2890B4BC 2890B4BC

**Explanation:** I/O adapter error; logged only.

**Failing Item:**

- IOP
- IOA

---

### 2890B4BE 2890B4BE

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
- IOP

---

### 2890B904 2890B904

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- IOP

---

### 2890B935 2890B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- AJDGP01
- IOP

- MA\_BRDG

---

### 2890B960 2890B960

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- IOA

---

### 2890B961 2890B961

**Explanation:** An error was detected on one of the attached adapter cards.

**Failing Item:**

- IOA
- IOP
- AJDGP01

---

### 2890BE00 2890BE00

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG



---

## (2892) Reference codes

---

28920A17 28920A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- MA\_BRDG
- AJDG301
- AJDGP01

---

28920A22 28920A22

**Explanation:** Adapter card storage error

**Failing Item:**

- AJDGP01
- AJDG301
- IOP
- MA\_BRDG

---

28921307 28921307

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01
- AJDG301

---

28921310 28921310

**Explanation:** I/O adapter resource not available.

**Response:** The INS processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

**Failing Item:**

- IOP
- AJDGP01

---

28921317 28921317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates to replace hardware, then replace hardware. If the Failing Item indicates SVCDOCS, then do NOT replace hardware. This is a recoverable error. If the resource is not operable, use Hardware Service Manager to re-IPL the resource. Perform the VRYCFG command to Vary On the NWSD.

**Failing Item:**

- SVCDOCS

---

28923000 28923000

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- AJDGP01

---

28923001 28923001

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- IOP
- AJDGP01

---

28923006 28923006

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
- ANYBUS

---

28923080 28923080

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

28923081 28923081

**Explanation:** I/O adapter error; logged only.

---

28923084 28923084

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG

---

28923087 28923087

**Explanation:** I/O adapter resource not available.

**Failing Item:**

## 28926070 • 28926223

- AJDGP01
- AJDG301
- NTUSER
- IOA

---

28926070      28926070

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

28926071      28926071

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01

---

28926072      28926072

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28926075      28926075

**Explanation:** I/O adapter resource not available.

**Failing Item:**

- AJDGP01

---

28926083      28926083

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP

---

28926085      28926085

**Explanation:** I/O adapter Licensed Internal Code failed.

**Failing Item:**

- AJDGP01
- IOP
- MA\_BRDG

---

28926201      28926201

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- AJDGP01

---

28926202      28926202

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

28926204      28926204

**Explanation:** I/O adapter failure due to a thermal condition

**Failing Item:**

- IOP

---

28926210      28926210

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

28926221      28926221

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDG301

---

28926222      28926222

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- IOP

---

28926223      28926223

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - AJDGP01
-

---

 28926224 28926224

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- DISKIMG
  - AJDGP01
  - IOP
  - MEMORY
- 

28926225 28926225

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
- 

28926226 28926226

**Explanation:** I/O processor card detected device error

**Failing Item:**

- AJDG301
  - AS4NTDD
- 

28926227 28926227

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTUSER
  - AJDGP01
  - IOP
- 

28926228 28926228

**Explanation:** Windows initiated a warm boot

**Failing Item:**

- AJDGP01
  - IOP
- 

28926501 28926501

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- IOP
  - AJDGP01
- 

28926502 28926502

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- AJDGP01
  - IOP
- 

28926530 28926530

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - NTOPSYS
- 

28926531 28926531

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - AS4NTDD
  - NTOPSYS
  - AJDGP01
- 

28926532 28926532

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
  - AJDGP01
  - AS4NTDD
- 

28926533 28926533

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTOPSYS
  - AS4NTDD
- 

28926534 28926534

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
  - AJDGP01
  - NTOPSYS
- 

28926535 28926535

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER

## 28926538 • 289265B0

- NTDEVDR
- AJDGP01

---

28926538      28926538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

28926539      28926539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- AJDGP01

---

2892653A      2892653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- AJDGP01
- AS4NTDD

---

2892653B      2892653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

2892653C      2892653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- AJDGP01
- NTOPSYS

---

2892653D      2892653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- AJDGP01

---

2892653F      2892653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
- NTOPSYS
- AJDG301

---

28926540      28926540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AJDGP01
- AJDG301

---

28926541      28926541

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- AJDGP01

---

28926542      28926542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
- AJDGP01

---

28926543      28926543

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- NTOPSYS
- NTVSCSI

---

28926580      28926580

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- DISKIMG
- IOP
- AJDGP01

---

289265B0      289265B0

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTLANDD
- NTOPSYS

---

**289265B1**    **289265B1**

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTLANDD
  - NTOPSYS
  - AJDG301
- 

**289265B2**    **289265B2**

**Explanation:** A HostLAN error was detected

**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

**28928301**    **28928301**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
  - IOP
- 

**2892B3B1**    **2892B3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B2**    **2892B3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B3**    **2892B3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B4**    **2892B3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

---

**2892B3B5**    **2892B3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B6**    **2892B3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B7**    **2892B3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3B8**    **2892B3B8**

**Explanation:** Multi-adapter bridge error detected.

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**2892B3B9**    **2892B3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**2892B3E0**    **2892B3E0**

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
  - MA\_BRDG
- 

**2892B3E1**    **2892B3E1**

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP
  - MA\_BRDG
-

## 2892B4B0 • 2892B961

---

2892B4B0 2892B4B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP

---

2892B4B1 2892B4B1

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP
- MEMORY

---

2892B4B2 2892B4B2

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOP

---

2892B4B3 2892B4B3

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA

---

2892B4B4 2892B4B4

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOP
- IOA
- MEMORY

---

2892B4B5 2892B4B5

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP

---

2892B4B8 2892B4B8

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
- IOP

---

2892B4B9 2892B4B9

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOP

---

2892B4BC 2892B4BC

**Explanation:** I/O adapter error; logged only.

**Failing Item:**

- IOP
- IOA

---

2892B4BE 2892B4BE

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
- IOP

---

2892B904 2892B904

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- IOP

---

2892B935 2892B935

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- IOA
- AJDGP01
- IOP
- MA\_BRDG

---

2892B960 2892B960

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP
- IOA

---

2892B961 2892B961

**Explanation:** An error was detected on one of the attached adapter cards.

**Failing Item:**

- IOA
- IOP
- AJDGP01

---

2892BE00 2892BE00

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- AJDGP01
- IOP
- IOA
- MA\_BRDG





---

## (28B9) Reference codes

---

28B91511    28B91511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

28B91515    28B91515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

28B91521    28B91521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

28B91525    28B91525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DISKFAN
  - FI01106
  - DEVBPLN
- 

28B93002    28B93002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

28B93109    28B93109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
  - STORIOA
  - FI01140
  - FI01106
- 

28B97611    28B97611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN
- 

28B97614    28B97614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

28B97621    28B97621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN
- 

28B97624    28B97624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

28B97631    28B97631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN
- 

28B97634    28B97634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
-

## 28B98401 • 28B9FFF4

---

28B98401    28B98401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

28B98404    28B98404

**Explanation:** System log entry only, no service action required

---

28B9FFF4    28B9FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (28CB) Reference codes

---

28CB1511 28CB1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CB1515 28CB1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CB1521 28CB1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CB1525 28CB1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CB3002 28CB3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

28CB3109 28CB3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

28CB7611 28CB7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN

---

28CB7614 28CB7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

28CB7621 28CB7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN

---

28CB7624 28CB7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

28CB7631 28CB7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN

---

28CB7634 28CB7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

## 28CB8401 • 28CBFFF4

---

28CB8401 28CB8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

28CB8404 28CB8404

**Explanation:** System log entry only, no service action required

---

28CBFFF4 28CBFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (28CC) Reference codes

---

28CC1511 28CC1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CC1515 28CC1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CC1521 28CC1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CC1525 28CC1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

28CC3002 28CC3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

28CC3109 28CC3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

28CC7611 28CC7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN

---

28CC7614 28CC7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

28CC7621 28CC7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN

---

28CC7624 28CC7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

28CC7631 28CC7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN

---

28CC7634 28CC7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

## 28CC8401 • 28CCFFF4

---

28CC8401 28CC8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

28CC8404 28CC8404

**Explanation:** System log entry only, no service action required

---

28CCFFF4 28CCFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (293C) Reference codes

---

293C1511    293C1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

293C1515    293C1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

293C1521    293C1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

293C1525    293C1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

293C3002    293C3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

293C3109    293C3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

293C7614    293C7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

293C7624    293C7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

293C7634    293C7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

293C7644    293C7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 293C8404 • 293CFFF4

---

293C8404    293C8404

**Explanation:** System log entry only, no service action required

---

293CFFF4    293CFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (293D) Reference codes

---

293D1511    293D1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

293D1515    293D1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

293D1521    293D1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

293D1525    293D1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

293D3002    293D3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

293D3109    293D3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

293D7614    293D7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

293D7624    293D7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

293D7634    293D7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
- 

293D7644    293D7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 293D8404 • 293DFFF4

---

293D8404 293D8404

**Explanation:** System log entry only, no service action required

---

293DFFF4 293DFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (297D) Reference codes

---

297D1511    297D1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

297D1515    297D1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

297D1521    297D1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

297D1525    297D1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

297D3002    297D3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

297D3109    297D3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

297D7614    297D7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

297D7624    297D7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

297D7634    297D7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
- 

297D7644    297D7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 297D8404 • 297DFFF4

---

297D8404 297D8404

**Explanation:** System log entry only, no service action required

---

297DFFF4 297DFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2A39) Reference codes

---

2A391511    2A391511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

2A391515    2A391515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

2A391521    2A391521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

2A391525    2A391525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

2A393002    2A393002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

2A393109    2A393109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
  - SASCABL
  - STORIOA
  - DEVBPLN
- 

2A397614    2A397614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN
- 

2A397624    2A397624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN
- 

2A397634    2A397634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN
- 

2A397644    2A397644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 2A398404 • 2A39FFF4

---

2A398404    2A398404

**Explanation:** System log entry only, no service action required

---

2A39FFF4    2A39FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2B4C) Reference codes

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### 2B4C1310 2B4C1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

### 2B4C3000 2B4C3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 2B4C3020 2B4C3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4150

---

### 2B4C3100 2B4C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4150

---

### 2B4C3140 2B4C3140

**Explanation:** System log entry only. No service action required.

---

### 2B4C3202 2B4C3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 2B4C3400 2B4C3400

**Explanation:** Unknown resource error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.

## 2B4C3401 • 2B4C4060

3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2B4C3401 2B4C3401

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2B4C3405 2B4C3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2B4C34FF 2B4C34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 2B4C3601 2B4C3601

**Explanation:** System log entry only. No service action required.

---

### 2B4C4010 2B4C4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2B4C4020 2B4C4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2B4C4030 2B4C4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2B4C4040 2B4C4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2B4C4041 2B4C4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2B4C4050 2B4C4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 2B4C4060 2B4C4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**



- SIP4153
- SASCABL
- SASEXP

---

**2B4C4061    2B4C4061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**2B4C4070    2B4C4070**

**Explanation:** System log entry only. No service action required.

---

**2B4C4100    2B4C4100**

**Explanation:** Device bus fabric error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**2B4C4101    2B4C4101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4152

---

**2B4C4110    2B4C4110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

**2B4C4150    2B4C4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2B4C4160 • 2B4C8008

- BACKPLN
- STORIOA

---

### 2B4C4160 2B4C4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 2B4C8008 2B4C8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**2B4C8009    2B4C8009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

**2B4C8100    2B4C8100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8130    2B4C8130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

---

**2B4C8140    2B4C8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

---

**2B4C8141    2B4C8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**2B4C8146    2B4C8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

**2B4C8150 2B4C8150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

**2B4C8151 2B4C8151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8155    2B4C8155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8156    2B4C8156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 2B4C8157 • 2B4C8300

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 2B4C8157 2B4C8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 2B4C8300 2B4C8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2B4C8301    2B4C8301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2B4C8302    2B4C8302**

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 2B4C8400 • 2B4C9010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

### 2B4C8400    2B4C8400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

---

### 2B4C8404    2B4C8404

**Explanation:** System log entry only. No service action required.

---

### 2B4C9000    2B4C9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 2B4C9001    2B4C9001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

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### 2B4C9002    2B4C9002

**Explanation:** Device error

### Failing Item:

- NEXTLVL

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### 2B4C9008    2B4C9008

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

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### 2B4C9010    2B4C9010

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:



- SIP3120

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**2B4C9011**    **2B4C9011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

**2B4C9020**    **2B4C9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2B4C9021**    **2B4C9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2B4C9022**    **2B4C9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2B4C9023**    **2B4C9023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

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**2B4C9024**    **2B4C9024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

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**2B4C9025**    **2B4C9025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

**2B4C9026**    **2B4C9026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**2B4C9027**    **2B4C9027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

**2B4C9028**    **2B4C9028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**2B4C9029**    **2B4C9029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**2B4C9030**    **2B4C9030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

**2B4C9031**    **2B4C9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 2B4C9032 • 2B4C9075

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2B4C9032 2B4C9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2B4C9040 2B4C9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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2B4C9041 2B4C9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2B4C9042 2B4C9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2B4C9050 2B4C9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

2B4C9051 2B4C9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

2B4C9052 2B4C9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2B4C9054 2B4C9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

---

2B4C9070 2B4C9070

**Explanation:** System log entry only. No service action required.

---

2B4C9071 2B4C9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

2B4C9072 2B4C9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

2B4C9073 2B4C9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4140

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2B4C9074 2B4C9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

---

2B4C9075 2B4C9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4149

---

**2B4C9076 2B4C9076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4147

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**2B4C9081 2B4C9081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**2B4C9082 2B4C9082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2B4C9083 • 2B4CFF3D

- FI01105
- STORIOA

---

### 2B4C9083 2B4C9083

**Explanation:** System log entry only. No service action required.

---

### 2B4C9084 2B4C9084

**Explanation:** System log entry only. No service action required.

---

### 2B4C9090 2B4C9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 2B4C9091 2B4C9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 2B4C9092 2B4C9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

### 2B4C9500 2B4C9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 2B4C9903 2B4C9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2B4CC000 2B4CC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2B4CC402 2B4CC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 2B4CFF3D 2B4CFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



---

## (2B56) Reference codes

---

2B56A001 2B56A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

2B56B9B0 2B56B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301





---

## (2B57) Reference codes

---

2B57A001 2B57A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

2B57B9B0 2B57B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (2B6C) Reference codes

---

### 2B6CB904 2B6CB904

**Explanation:** I/O Adapter Licensed Internal Code failed

**Failing Item:**

- AJDGP01
- FI00719

---

### 2B6CB934 2B6CB934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- FI00719
- FI00718

---

### 2B6CB940 2B6CB940

**Explanation:** I/O adapter hardware error detected.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01
- MA\_BRDG

---

### 2B6CB941 2B6CB941

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01

---

### 2B6CB942 2B6CB942

**Explanation:** One half of I/O adapter failed.

**Failing Item:**

- FI00719
- FI00718
- AJDGP01



---

## (2B93) Reference codes

---

2B933020    2B933020

**Explanation:** Configuration error on port 0

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS

---

2B933021    2B933021

**Explanation:** Configuration error on port 1

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS

---

2B933100    2B933100

**Explanation:** Interface error on port 0

**Failing Item:**

- FCINTF
- ANYFC
- FCIOA
- OPT\_CLN

---

2B933101    2B933101

**Explanation:** Interface error on port 1

**Failing Item:**

- FCINTF
- ANYFC
- FCIOA
- OPT\_CLN

---

2B933120    2B933120

**Explanation:** A port failure was detected on port 0

**Failing Item:**

- FCPORT
- FCIOA
- FCDEV
- OPT\_CLN

---

2B933121    2B933121

**Explanation:** A port failure was detected on port 1

**Failing Item:**

- FCPORT
- FCIOA
- FCDEV
- OPT\_CLN

---

2B933140    2B933140

**Explanation:** Port 0 is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

2B933141    2B933141

**Explanation:** Port 1 is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

2B933400    2B933400

**Explanation:** Device error

**Failing Item:**

- FCDEV
- FCINTF
- ANYFC
- FCIOA
- OPT\_CLN

---

2B933405    2B933405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

## 2B9334FF • 2B93B000

- PTFSRCH

---

2B9334FF    2B9334FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

2B934150    2B934150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

2B938100    2B938100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- FCIOA

---

2B938130    2B938130

**Explanation:** Recovered Fibre Channel interface error on port 0

**Response:** No action required. This reference code is logged for information only.

---

2B938131    2B938131

**Explanation:** Recovered Fibre Channel interface error on port 1

**Response:** No action required. This reference code is logged for information only.

---

2B938150    2B938150

**Explanation:** A permanent I/O adapter failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

2B938300    2B938300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

2B938301    2B938301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

2B938302    2B938302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

2B939500    2B939500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

2B939903    2B939903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

2B93A001    2B93A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

2B93B000    2B93B000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

**2B93B402**    **2B93B402****Explanation:** Licensed Internal Code error**Failing Item:**

- PTFSRCH

---

**2B93B9B0**    **2B93B9B0****Explanation:** I/O adapter hardware error detected**Failing Item:**

- IOA
- AJDG301

---

**2B93C000**    **2B93C000****Explanation:** System log entry only, no service action required**Response:** No action is required. This reference code is logged for information only.

---

**2B93C402**    **2B93C402****Explanation:** Licensed Internal Code error**Failing Item:**

- PTFSRCH





---

## (2BBE) Reference codes

---

### 2BBE1511    2BBE1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1515    2BBE1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1521    2BBE1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE1525    2BBE1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 2BBE3002    2BBE3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BBE3109    2BBE3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 2BBE7614    2BBE7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

### 2BBE7624    2BBE7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

### 2BBE7634    2BBE7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

### 2BBE7644    2BBE7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 2BBE8404 • 2BBEFFF4

---

2BBE8404 2BBE8404

**Explanation:** System log entry only, no service action required

---

2BBEFFF4 2BBEFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD6) Reference codes

---

2BD61511 2BD61511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD61515 2BD61515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD61521 2BD61521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD61525 2BD61525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD63002 2BD63002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

2BD63109 2BD63109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

2BD67614 2BD67614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

2BD67624 2BD67624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

2BD67634 2BD67634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

2BD67644 2BD67644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 2BD68404 • 2BD6FFF4

---

2BD68404 2BD68404

**Explanation:** System log entry only, no service action required

---

2BD6FFF4 2BD6FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD8) Reference codes

---

2BD81511 2BD81511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD81515 2BD81515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD81521 2BD81521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD81525 2BD81525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

2BD83002 2BD83002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

2BD83109 2BD83109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

2BD87614 2BD87614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

2BD87624 2BD87624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

2BD87634 2BD87634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

2BD87644 2BD87644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 2BD88404 • 2BD8FFF4

---

2BD88404 2BD88404

**Explanation:** System log entry only, no service action required

---

2BD8FFF4 2BD8FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (2BD9) Reference codes

---

2BD91310 2BD91310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

2BD93000 2BD93000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

2BD93020 2BD93020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4150

---

2BD93100 2BD93100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4150

---

2BD93140 2BD93140

**Explanation:** System log entry only. No service action required.

---

2BD93202 2BD93202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

2BD93400 2BD93400

**Explanation:** Unknown resource error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.

## 2BD93401 • 2BD94060

3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2BD93401 2BD93401

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BD93405 2BD93405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BD934FF 2BD934FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 2BD93601 2BD93601

**Explanation:** System log entry only. No service action required.

---

### 2BD94010 2BD94010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BD94020 2BD94020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BD94030 2BD94030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BD94040 2BD94040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BD94041 2BD94041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BD94050 2BD94050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

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### 2BD94060 2BD94060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**



- SIP4153
- SASCABL
- SASEXP

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**2BD94061    2BD94061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

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**2BD94070    2BD94070**

**Explanation:** System log entry only. No service action required.

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**2BD94100    2BD94100**

**Explanation:** Device bus fabric error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

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**2BD94101    2BD94101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4152

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**2BD94110    2BD94110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

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**2BD94150    2BD94150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BD94160 • 2BD98008

- BACKPLN
- STORIOA

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### 2BD94160 2BD94160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 2BD98008 2BD98008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

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**2BD98009    2BD98009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

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**2BD98100    2BD98100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**2BD98130    2BD98130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

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**2BD98140    2BD98140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

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**2BD98141    2BD98141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**2BD98146    2BD98146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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**2BD98150 2BD98150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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**2BD98151 2BD98151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**2BD98155 2BD98155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**2BD98156 2BD98156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 2BD98157 • 2BD98300

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 2BD98157 2BD98157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 2BD98300 2BD98300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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**2BD98301    2BD98301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**2BD98302    2BD98302**

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 2BD98400 • 2BD99010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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2BD98400    2BD98400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

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2BD98404    2BD98404

**Explanation:** System log entry only. No service action required.

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2BD99000    2BD99000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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2BD99001    2BD99001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

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2BD99002    2BD99002

**Explanation:** Device error

### Failing Item:

- NEXTLVL

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2BD99008    2BD99008

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

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2BD99010    2BD99010

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:



- SIP3120

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**2BD99011    2BD99011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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**2BD99020    2BD99020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2BD99021    2BD99021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2BD99022    2BD99022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

**2BD99023    2BD99023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

**2BD99024    2BD99024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

---

**2BD99025    2BD99025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

**2BD99026    2BD99026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**2BD99027    2BD99027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

**2BD99028    2BD99028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**2BD99029    2BD99029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**2BD99030    2BD99030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

**2BD99031    2BD99031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 2BD99032 • 2BD99075

---

2BD99032 2BD99032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2BD99040 2BD99040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

2BD99041 2BD99041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BD99042 2BD99042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BD99050 2BD99050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

2BD99051 2BD99051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

2BD99052 2BD99052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2BD99054 2BD99054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

---

2BD99070 2BD99070

**Explanation:** System log entry only. No service action required.

---

2BD99071 2BD99071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

2BD99072 2BD99072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

2BD99073 2BD99073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4140

---

2BD99074 2BD99074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

---

2BD99075 2BD99075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4149

---

**2BD99076 2BD99076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4147

---

**2BD99081 2BD99081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**2BD99082 2BD99082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BD99083 • 2BD9FF3D

- FI01105
- STORIOA

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### 2BD99083 2BD99083

**Explanation:** System log entry only. No service action required.

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### 2BD99084 2BD99084

**Explanation:** System log entry only. No service action required.

---

### 2BD99090 2BD99090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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### 2BD99091 2BD99091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 2BD99092 2BD99092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

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### 2BD99500 2BD99500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 2BD99903 2BD99903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2BD9C000 2BD9C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2BD9C402 2BD9C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 2BD9FF3D 2BD9FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (2BE0) Reference codes

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**2BE01310**    **2BE01310**

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

**2BE03000**    **2BE03000**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**2BE03020**    **2BE03020**

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4150

---

**2BE03100**    **2BE03100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4150

---

**2BE03140**    **2BE03140**

**Explanation:** System log entry only. No service action required.

---

**2BE03202**    **2BE03202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

**2BE03400**    **2BE03400**

**Explanation:** Unknown resource error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.

## 2BE03401 • 2BE04060

3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

---

### 2BE03401 2BE03401

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BE03405 2BE03405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BE034FF 2BE034FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 2BE03601 2BE03601

**Explanation:** System log entry only. No service action required.

---

### 2BE04010 2BE04010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BE04020 2BE04020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BE04030 2BE04030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BE04040 2BE04040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BE04041 2BE04041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BE04050 2BE04050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 2BE04060 2BE04060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**



- SIP4153
- SASCABL
- SASEXP

---

**2BE04061    2BE04061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**2BE04070    2BE04070**

**Explanation:** System log entry only. No service action required.

---

**2BE04100    2BE04100**

**Explanation:** Device bus fabric error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**2BE04101    2BE04101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4152

---

**2BE04110    2BE04110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

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**2BE04150    2BE04150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BE04160 • 2BE08008

- BACKPLN
- STORIOA

---

### 2BE04160 2BE04160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 2BE08008 2BE08008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**2BE08009    2BE08009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

**2BE08100    2BE08100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08130    2BE08130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

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**2BE08140    2BE08140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

---

**2BE08141    2BE08141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**2BE08146    2BE08146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

**2BE08150 2BE08150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

**2BE08151 2BE08151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08155    2BE08155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE08156    2BE08156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 2BE08157 • 2BE08300

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 2BE08157 2BE08157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 2BE08300 2BE08300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2BE08301    2BE08301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**2BE08302    2BE08302**

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 2BE08400 • 2BE09010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

**2BE08400**    **2BE08400**

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

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**2BE08404**    **2BE08404**

**Explanation:** System log entry only. No service action required.

---

**2BE09000**    **2BE09000**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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**2BE09001**    **2BE09001**

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

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**2BE09002**    **2BE09002**

**Explanation:** Device error

### Failing Item:

- NEXTLVL

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**2BE09008**    **2BE09008**

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

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**2BE09010**    **2BE09010**

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:



- SIP3120

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**2BE09011    2BE09011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

**2BE09020    2BE09020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2BE09021    2BE09021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2BE09022    2BE09022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**2BE09023    2BE09023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

**2BE09024    2BE09024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

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**2BE09025    2BE09025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

**2BE09026    2BE09026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**2BE09027    2BE09027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

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**2BE09028    2BE09028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**2BE09029    2BE09029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**2BE09030    2BE09030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

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**2BE09031    2BE09031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 2BE09032 • 2BE09075

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2BE09032 2BE09032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2BE09040 2BE09040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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2BE09041 2BE09041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE09042 2BE09042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE09050 2BE09050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

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2BE09051 2BE09051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

2BE09052 2BE09052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2BE09054 2BE09054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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2BE09070 2BE09070

**Explanation:** System log entry only. No service action required.

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2BE09071 2BE09071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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2BE09072 2BE09072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

2BE09073 2BE09073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4140

---

2BE09074 2BE09074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

---

2BE09075 2BE09075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4149

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**2BE09076**    **2BE09076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4147

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**2BE09081**    **2BE09081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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**2BE09082**    **2BE09082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BE09083 • 2BE0FF3D

- FI01105
- STORIOA

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### 2BE09083 2BE09083

**Explanation:** System log entry only. No service action required.

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### 2BE09084 2BE09084

**Explanation:** System log entry only. No service action required.

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### 2BE09090 2BE09090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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### 2BE09091 2BE09091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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### 2BE09092 2BE09092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

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### 2BE09500 2BE09500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 2BE09903 2BE09903

**Explanation:** Tape device information was logged. Informational event, no service required.

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### 2BE0C000 2BE0C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

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### 2BE0C402 2BE0C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

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### 2BE0FF3D 2BE0FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (2BE1) Reference codes

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**2BE11310**    **2BE11310**

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

**2BE13000**    **2BE13000**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**2BE13020**    **2BE13020**

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4150

---

**2BE13100**    **2BE13100**

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4150

---

**2BE13140**    **2BE13140**

**Explanation:** System log entry only. No service action required.

---

**2BE13202**    **2BE13202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

**2BE13400**    **2BE13400**

**Explanation:** Unknown resource error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.

## 2BE13401 • 2BE14060

3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4150
- FI02112
- STORIOA
- SASCABL

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### 2BE13401 2BE13401

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 2BE13405 2BE13405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 2BE134FF 2BE134FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

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### 2BE13601 2BE13601

**Explanation:** System log entry only. No service action required.

---

### 2BE14010 2BE14010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 2BE14020 2BE14020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 2BE14030 2BE14030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP4144

---

### 2BE14040 2BE14040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP4144

---

### 2BE14041 2BE14041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 2BE14050 2BE14050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 2BE14060 2BE14060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**



- SIP4153
- SASCABL
- SASEXP

---

**2BE14061    2BE14061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

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**2BE14070    2BE14070**

**Explanation:** System log entry only. No service action required.

---

**2BE14100    2BE14100**

**Explanation:** Device bus fabric error

**Response:** For card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

1. The embedded storage adapter on the I/O backplane.
2. The RAID enablement card.
3. The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**2BE14101    2BE14101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4152

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**2BE14110    2BE14110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

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**2BE14150    2BE14150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BE14160 • 2BE18008

- BACKPLN
- STORIOA

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### 2BE14160 2BE14160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 2BE18008 2BE18008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

**2BE18009    2BE18009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

**2BE18100    2BE18100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

**2BE18130    2BE18130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

**2BE18140    2BE18140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4150

**2BE18141    2BE18141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

**2BE18146    2BE18146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

**2BE18150 2BE18150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

**2BE18151 2BE18151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE18155    2BE18155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE18156    2BE18156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 2BE18157 • 2BE18300

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 2BE18157 2BE18157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 2BE18300 2BE18300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

**2BE18301    2BE18301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**2BE18302    2BE18302**

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 2BE18400 • 2BE19010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

**2BE18400**    **2BE18400**

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

---

**2BE18404**    **2BE18404**

**Explanation:** System log entry only. No service action required.

---

**2BE19000**    **2BE19000**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

---

**2BE19001**    **2BE19001**

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

---

**2BE19002**    **2BE19002**

**Explanation:** Device error

### Failing Item:

- NEXTLVL

---

**2BE19008**    **2BE19008**

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

---

**2BE19010**    **2BE19010**

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:



- SIP3120

---

**2BE19011**    **2BE19011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

**2BE19020**    **2BE19020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

**2BE19021**    **2BE19021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

**2BE19022**    **2BE19022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

**2BE19023**    **2BE19023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

**2BE19024**    **2BE19024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

---

**2BE19025**    **2BE19025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

**2BE19026**    **2BE19026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**2BE19027**    **2BE19027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

**2BE19028**    **2BE19028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**2BE19029**    **2BE19029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**2BE19030**    **2BE19030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

**2BE19031**    **2BE19031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 2BE19032 • 2BE19075

---

2BE19032 2BE19032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

2BE19040 2BE19040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

2BE19041 2BE19041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE19042 2BE19042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

2BE19050 2BE19050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

2BE19051 2BE19051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

2BE19052 2BE19052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

2BE19054 2BE19054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

---

2BE19070 2BE19070

**Explanation:** System log entry only. No service action required.

---

2BE19071 2BE19071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

2BE19072 2BE19072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

2BE19073 2BE19073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4140

---

2BE19074 2BE19074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4141

---

2BE19075 2BE19075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4149

---

**2BE19076**    **2BE19076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4147

---

**2BE19081**    **2BE19081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

**2BE19082**    **2BE19082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 2BE19083 • 2BE1FF3D

- FI01105
- STORIOA

---

### 2BE19083 2BE19083

**Explanation:** System log entry only. No service action required.

---

### 2BE19084 2BE19084

**Explanation:** System log entry only. No service action required.

---

### 2BE19090 2BE19090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 2BE19091 2BE19091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### 2BE19092 2BE19092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

### 2BE19500 2BE19500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 2BE19903 2BE19903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 2BE1C000 2BE1C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 2BE1C402 2BE1C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 2BE1FF3D 2BE1FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## **(2BE2) Reference codes**





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## (2BF3) Reference codes

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2BF3A001 2BF3A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

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2BF3B9B0 2BF3B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



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## (2BF4) Reference codes

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2BF4A001 2BF4A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

2BF4B9B0 2BF4B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



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## (2C4C) Reference codes

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2C4CA001 2C4CA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

2C4CB9B0 2C4CB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



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## (2C4D) Reference codes

---

2C4DA001 2C4DA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

2C4DB9B0 2C4DB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301





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## (3494) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs that you find in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the 3494 Library Manager console for error indications. Refer to the 3494 service information to resolve any error indications.
3. Attempt the failing operation again.
4. Does the operation complete successfully?

**Yes:** The problem has been corrected. **This ends the procedure.**

**No:** Look at the 4 rightmost characters of the Data display for Function 11, which represents the unit reference code. Find the unit reference code in the following table.

---

34942301    34942301

**Explanation:** Library device failure

**Response:** Library attachment facility equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942303    34942303

**Explanation:** Library device failure

**Response:** Device control unit and library manager Licensed Internal Code are incompatible.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942306    34942306

**Explanation:** Library device failure

**Response:** Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942307    34942307

**Explanation:** Library device failure

**Response:** Library vision failure.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942308    34942308

**Explanation:** Library device failure

**Response:** Library manager equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY MANAGER HARDWARE PROBLEM"

**Failing Item:**

- LIB3494

---

34942309    34942309

**Explanation:** Library device failure

**Response:** Library equipment check.

Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

34942310    34942310

## 34942311 • 34942321

**Explanation:** Library device requires operator intervention

**Response:** Put the library into pause mode and perform the intervention indicated on the library manager console.

---

### 34942311 34942311

**Explanation:** Library device requires operator intervention

**Response:** Put the library into pause mode and perform the intervention indicated on the library manager console.

---

### 34942319 34942319

**Explanation:** Tape unit failure

**Response:** Use the tape unit service information to analyze the failure.

**Failing Item:**

- FI00851

---

### 34942321 34942321

**Explanation:** Library enclosure environmental alert was detected.

**Response:** Use the 3494 Tape Library Dataserver Maintenance Information and follow the procedures for analyzing a "LIBRARY PROBLEM - NO ERROR MESSAGE."

**Failing Item:**

- LIB3494

---

## (3580) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

35803000      35803000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

35803202      35803202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

35803400      35803400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

35809020      35809020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

35809100      35809100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

35809101      35809101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

35809102      35809102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

35809103      35809103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

35809200      35809200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

35809201      35809201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

35809202      35809202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**35809210      35809210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**35809211      35809211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**35809220      35809220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**35809300      35809300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**35809301      35809301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**35809302      35809302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**35809303      35809303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**35809304      35809304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**35809310      35809310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

 35809320      35809320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

35809321      35809321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

35809350      35809350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

35809351      35809351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

35809355      35809355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

35809500      35809500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

35809501      35809501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

35809800      35809800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35809801      35809801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35809802      35809802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35809803      35809803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

35809804    35809804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35809805    35809805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35809810    35809810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

35809899    35809899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

35809900    35809900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

35809901    35809901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

35809902    35809902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

35809903    35809903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

3580FFF6    3580FFF6

**Explanation:** Tape volume statistics logged (no action required)





---

## (3592) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

35923000      35923000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

35923202      35923202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

35923400      35923400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

35929020      35929020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

35929100      35929100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

35929101      35929101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

35929102      35929102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

35929103      35929103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

35929200      35929200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

35929201      35929201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

35929202      35929202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**35929210**      **35929210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**35929211**      **35929211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**35929220**      **35929220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**35929300**      **35929300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**35929301**      **35929301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**35929302**      **35929302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**35929303**      **35929303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**35929304**      **35929304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**35929310**      **35929310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

35929320      35929320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
- FI00871

---

35929321      35929321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE

---

35929350      35929350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

35929351      35929351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

35929355      35929355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
- MEDIA
- TAPCLN
- FI00871

---

35929500      35929500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH

---

35929501      35929501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

35929800      35929800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35929801      35929801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35929802      35929802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35929803      35929803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

35929804    35929804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35929805    35929805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

35929810    35929810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

35929899    35929899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

35929900    35929900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

35929901    35929901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

35929902    35929902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

35929903    35929903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

3592FFF6    3592FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (4320) Reference codes

---

4320102E    4320102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

43203002    43203002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

43203010    43203010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

43203020    43203020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

43203029    43203029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43203100    43203100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43203109    43203109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43203110    43203110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

43203130    43203130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

43203131    43203131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

## 43207000 • 4320FFFA

---

43207000    43207000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43207001    43207001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43207003    43207003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43207004    43207004

**Explanation:** System log entry only. No service action required.

---

432070DD    432070DD

**Explanation:** System log entry only, no service action required

---

4320FFF2    4320FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4320FFF3    4320FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4320FFF4    4320FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4320FFF5    4320FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4320FFF6    4320FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4320FFF7    4320FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4320FFF8    4320FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4320FFF9    4320FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4320FFFA    4320FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4320FFFB    4320FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4320FFFE    4320FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4322) Reference codes

---

4322102E    4322102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

43223002    43223002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

43223010    43223010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

43223020    43223020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

43223029    43223029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43223100    43223100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43223109    43223109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43223110    43223110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

43223130    43223130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

43223131    43223131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

## 43227000 • 4322FFFA

---

43227000    43227000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43227001    43227001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43227003    43227003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43227004    43227004

**Explanation:** System log entry only. No service action required.

---

432270DD    432270DD

**Explanation:** System log entry only, no service action required

---

4322FFF2    4322FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4322FFF3    4322FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4322FFF4    4322FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4322FFF5    4322FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4322FFF6    4322FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4322FFF7    4322FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4322FFF8    4322FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4322FFF9    4322FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4322FFFA    4322FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4322FFFB 4322FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4322FFFE 4322FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4323) Reference codes

---

4323102E    4323102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

43233002    43233002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

43233010    43233010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

43233020    43233020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

43233029    43233029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43233100    43233100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43233109    43233109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43233110    43233110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

43233130    43233130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

43233131    43233131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 43237000 • 4323FFFA

---

43237000    43237000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43237001    43237001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43237003    43237003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43237004    43237004

**Explanation:** System log entry only. No service action required.

---

432370DD    432370DD

**Explanation:** System log entry only, no service action required

---

4323FFF2    4323FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4323FFF3    4323FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4323FFF4    4323FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4323FFF5    4323FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4323FFF6    4323FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4323FFF7    4323FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4323FFF8    4323FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4323FFF9    4323FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4323FFFA    4323FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4323FFFB 4323FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4323FFFE 4323FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4325) Reference codes

---

4325102E 4325102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

43253002 43253002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

43253010 43253010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

43253020 43253020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

43253029 43253029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43253100 43253100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43253109 43253109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43253110 43253110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

43253130 43253130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

43253131 43253131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 43257000 • 4325FFFA

---

43257000    43257000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43257001    43257001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43257003    43257003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43257004    43257004

**Explanation:** System log entry only. No service action required.

---

432570DD    432570DD

**Explanation:** System log entry only, no service action required

---

4325FFF2    4325FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4325FFF3    4325FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4325FFF4    4325FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4325FFF5    4325FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4325FFF6    4325FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4325FFF7    4325FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4325FFF8    4325FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4325FFF9    4325FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4325FFFA    4325FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4325FFFB 4325FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4325FFFE 4325FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4326) Reference codes

---

4326102E 4326102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

43263002 43263002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

43263010 43263010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

43263020 43263020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

43263029 43263029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43263100 43263100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43263109 43263109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43263110 43263110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

43263130 43263130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

43263131 43263131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

## 43267000 • 4326FFFA

---

43267000    43267000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43267001    43267001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43267003    43267003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43267004    43267004

**Explanation:** System log entry only. No service action required.

---

432670DD    432670DD

**Explanation:** System log entry only, no service action required

---

4326FFF2    4326FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4326FFF3    4326FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4326FFF4    4326FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4326FFF5    4326FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4326FFF6    4326FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4326FFF7    4326FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4326FFF8    4326FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4326FFF9    4326FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4326FFFA    4326FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4326FFFB    4326FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4326FFFE    4326FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4327) Reference codes

---

4327102E    4327102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

43273002    43273002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

43273010    43273010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

43273020    43273020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

43273029    43273029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43273100    43273100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43273109    43273109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43273110    43273110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

43273130    43273130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

43273131    43273131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 43277000 • 4327FFFA

---

43277000    43277000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43277001    43277001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43277003    43277003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43277004    43277004

**Explanation:** System log entry only. No service action required.

---

432770DD    432770DD

**Explanation:** System log entry only, no service action required

---

4327FFF2    4327FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4327FFF3    4327FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4327FFF4    4327FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4327FFF5    4327FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4327FFF6    4327FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4327FFF7    4327FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4327FFF8    4327FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4327FFF9    4327FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4327FFFA    4327FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4327FFFB 4327FFFB****Explanation:** SCSI bus reset occurred**Response:** No action required. This reference code is logged for information only.

---

**4327FFFE 4327FFFE****Explanation:** Temporary disk bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4328) Reference codes

---

4328102E 4328102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

43283002 43283002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

43283010 43283010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

43283020 43283020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

43283029 43283029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43283100 43283100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43283109 43283109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

43283110 43283110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

43283130 43283130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

43283131 43283131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

## 43287000 • 4328FFFA

---

43287000    43287000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43287001    43287001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43287003    43287003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

43287004    43287004

**Explanation:** System log entry only. No service action required.

---

432870DD    432870DD

**Explanation:** System log entry only, no service action required

---

4328FFF2    4328FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4328FFF3    4328FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4328FFF4    4328FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

4328FFF5    4328FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4328FFF6    4328FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4328FFF7    4328FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4328FFF8    4328FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4328FFF9    4328FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4328FFFA    4328FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4328FFFB    4328FFFB****Explanation:** SCSI bus reset occurred**Response:** No action required. This reference code is logged for information only.

---

**4328FFFE    4328FFFE****Explanation:** Temporary disk bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (4329) Reference codes

---

4329102E    4329102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

43293002    43293002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

43293010    43293010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

43293020    43293020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

43293029    43293029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

43293100    43293100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43293109    43293109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

43293110    43293110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

43293130    43293130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

43293131    43293131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 43297000    43297000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

43297001    43297001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

43297003    43297003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

 43297004    43297004

**Explanation:** System log entry only. No service action required.

---

432970DD    432970DD

**Explanation:** System log entry only, no service action required

---

4329FFF2    4329FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

4329FFF3    4329FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

4329FFF4    4329FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

 4329FFF5    4329FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4329FFF6    4329FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4329FFF7    4329FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

4329FFF8    4329FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4329FFF9    4329FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

4329FFFA    4329FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**4329FFFB 4329FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**4329FFFE 4329FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (433B) Reference codes

---

433B102E 433B102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

433B3002 433B3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

433B3010 433B3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433B3020 433B3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

433B3029 433B3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

433B3100 433B3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

433B3109 433B3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433B310C 433B310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433B310D 433B310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433B3110 433B3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433B3130 433B3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

433B34FF 433B34FF

**Explanation:** Format in progress

## 433B4041 • 433BFFF9

**Response:** No action required. This reference code is logged for information only.

---

433B4041    433B4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

433B4060    433B4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

433B4061    433B4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

433B4100    433B4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

433B7000    433B7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

433B7001    433B7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433B70DD    433B70DD

**Explanation:** System log entry only, no service action required

---

433BFFF3    433BFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

433BFFF4    433BFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

433BFFF5    433BFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433BFFF6    433BFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433BFFF7    433BFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433BFFF9    433BFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433BFFFA 433BFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433BFFFB 433BFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**433BFFFC 433BFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433BFFFD 433BFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433BFFFE 433BFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (433C) Reference codes

---

433C102E 433C102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

433C3002 433C3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

433C3010 433C3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433C3020 433C3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

433C3029 433C3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

433C3100 433C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

433C3109 433C3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433C310C 433C310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433C310D 433C310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433C3110 433C3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433C3130 433C3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

433C34FF 433C34FF

**Explanation:** Format in progress

## 433C4041 • 433CFFF9

**Response:** No action required. This reference code is logged for information only.

---

433C4041    433C4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

433C4060    433C4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

433C4061    433C4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

433C4100    433C4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

433C7000    433C7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

433C7001    433C7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433C70DD    433C70DD

**Explanation:** System log entry only, no service action required

---

433CFFF3    433CFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

433CFFF4    433CFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

433CFFF5    433CFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433CFFF6    433CFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433CFFF7    433CFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433CFFF9    433CFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433CFFFA 433CFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433CFFFB 433CFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**433CFFFC 433CFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433CFFFD 433CFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433CFFFE 433CFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (433D) Reference codes

---

433D102E 433D102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

433D3002 433D3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

433D3010 433D3010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433D3020 433D3020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

433D3029 433D3029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

433D3100 433D3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

433D3109 433D3109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433D310C 433D310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433D310D 433D310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

433D3110 433D3110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

433D3130 433D3130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

433D34FF 433D34FF

**Explanation:** Format in progress

## 433D4041 • 433DFFF9

**Response:** No action required. This reference code is logged for information only.

---

433D4041 433D4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

433D4060 433D4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

433D4061 433D4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

433D4100 433D4100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

433D7000 433D7000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

433D7001 433D7001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433D70DD 433D70DD

**Explanation:** System log entry only, no service action required

---

433DFFF3 433DFFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

433DFFF4 433DFFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

433DFFF5 433DFFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433DFFF6 433DFFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433DFFF7 433DFFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

433DFFF9 433DFFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this



event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**433DFFFA 433DFFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**433DFFFB 433DFFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**433DFFFC 433DFFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433DFFFD 433DFFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**433DFFFE 433DFFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (4685) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

**46853000**      **46853000**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

**46853202**      **46853202**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

**46853400**      **46853400**

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

**46859020**      **46859020**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

**46859100**      **46859100**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**46859101**      **46859101**

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

46859102      46859102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

46859103      46859103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

46859200      46859200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

46859201      46859201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

46859202      46859202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**46859210**      **46859210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**46859211**      **46859211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**46859220**      **46859220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**46859300**      **46859300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**46859301**      **46859301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**46859302**      **46859302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**46859303**      **46859303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**46859304**      **46859304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**46859310**      **46859310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

 46859320    46859320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

46859321    46859321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

46859350    46859350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

46859351    46859351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

46859355    46859355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

46859500    46859500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

46859501    46859501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

46859800    46859800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

46859801    46859801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

46859802    46859802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

46859803    46859803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

46859804      46859804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

46859805      46859805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

46859810      46859810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

46859899      46859899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

46859900      46859900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

46859901      46859901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

46859902      46859902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

46859903      46859903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

4685FFF6      4685FFF6

**Explanation:** Tape volume statistics logged (no action required)





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## (4758) Reference codes

---

4758B990 4758B990

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- FI00130
- IOP
- MA\_BRDG

---

4758B991 4758B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
- FI00130
- IOP

---

4758B992 4758B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4758 adapter card. After the conditions have been corrected, vary off and then vary back on the 4758 device description associated with the 4758 adapter card.

**Failing Item:**

- CARDTMP



---

## (4764) Reference codes

---

4764B990 4764B990

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - AJDG301
- 

4764B991 4764B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
  - AJDG301
- 

4764B992 4764B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 / 4765 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 / 4765 device description associated with the 4764 / 4765 adapter card.

**Failing Item:**

- CARDTMP



---

## (4765) Reference codes

---

4765B990 4765B990

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - AJDG301
- 

4765B991 4765B991

**Explanation:** Tampering of cryptographic card suspected.

**Failing Item:**

- IOA
  - AJDG301
- 

4765B992 4765B992

**Explanation:** Operating voltage and/or temperature range limits exceeded.

**Response:** Correct any conditions in the physical environment which may have caused the voltage and/or temperature out-of-range error on the 4764 / 4765 adapter card. After the conditions have been corrected, vary off and then vary back on the 4764 / 4765 device description associated with the 4764 / 4765 adapter card.

**Failing Item:**

- CARDTMP



---

## (4812) Reference codes

---

48126201      48126201

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- FI00730

---

48126202      48126202

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- FI00730
- IOA

---

48126204      48126204

**Explanation:** I/O adapter failure due to a thermal condition

**Failing Item:**

- IOA

---

48126210      48126210

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- FI00730

---

48126221      48126221

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDG301
- DISKIMG

---

48126222      48126222

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FI00730
- IOA

---

48126223      48126223

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
- FI00730

---

48126225      48126225

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FI00730
- AJDG301
- IOA

---

48126226      48126226

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AJDG301
- AS4NTDD
- FI00584

---

48126227      48126227

**Explanation:** Windows initiated a warm boot

**Failing Item:**

- NTUSER
- FI00730
- IOA

---

48126228      48126228

**Explanation:** Windows initiated a warm boot

**Failing Item:**

- FI00730
- IOA

---

48126501      48126501

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- IOA
- FI00730

---

48126502      48126502

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- FI00730

## 48126530 • 4812653D

- IOA

---

48126530      48126530

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

48126531      48126531

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- FI00730

---

48126532      48126532

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- FI00730
- AS4NTDD

---

48126533      48126533

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

48126534      48126534

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- FI00730
- NTOPSYS

---

48126535      48126535

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTDEVDR
- FI00730

---

48126538      48126538

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- NTOPSYS

---

48126539      48126539

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
- AS4NTDD
- NTOPSYS
- FI00730

---

4812653A      4812653A

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTOPSYS
- FI00730
- AS4NTDD

---

4812653B      4812653B

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
- NTOPSYS
- AS4NTDD

---

4812653C      4812653C

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- AS4NTDD
- FI00730
- NTOPSYS

---

4812653D      4812653D

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTUSER
  - NTDEVDR
  - FI00730
-



---

4812653F 4812653F

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTDEVDR
  - NTOPSYS
  - AJDG301
- 

48126540 48126540

**Explanation:** A Virtual SCSI error was detected.

**Failing Item:**

- NTVSCSI
  - FI00730
  - AJDG301
- 

48126541 48126541

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOA
  - FI00730
- 

48126542 48126542

**Explanation:** Licensed Internal Code error detected.

**Failing Item:**

- AJDG301
  - FI00730
- 

48126543 48126543

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- NTOPSYS
  - NTVSCSI
- 

48126580 48126580

**Explanation:** A Windows fatal error occurred

**Failing Item:**

- NTOPSYS
  - NTVSCSI
  - DISKIMG
  - IOA
  - FI00730
- 

---

4812B4B0 4812B4B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- 

4812B4B1 4812B4B1

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - MEMORY
- 

4812B4B4 4812B4B4

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - MEMORY
- 

4812B4B5 4812B4B5

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- FI00730
  - IOA
- 

4812B4B8 4812B4B8

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
  - IOA
- 

4812B4B9 4812B4B9

**Explanation:** An I/O adapter failure occurred.

**Failing Item:**

- IOA
- 

4812B4BC 4812B4BC

**Explanation:** I/O adapter error; logged only.

**Failing Item:**

- IOA
- 

4812B4BE 4812B4BE

**Explanation:** Adapter card storage error

**Failing Item:**

- MEMORY
- IOA

## 4812B904 • 4812B960

---

4812B904    4812B904

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FI00730
- IOA

---

4812B960    4812B960

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- FI00730
- IOP

---

## (506D) Reference codes

---

506D1511    506D1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506D1515    506D1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506D1521    506D1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506D1525    506D1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506D3002    506D3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

506D3109    506D3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

506D7611    506D7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN

---

506D7614    506D7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

506D7621    506D7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN

---

506D7624    506D7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

506D7631    506D7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN

---

506D7634    506D7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

## 506D8401 • 506DFFF4

---

506D8401    506D8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

506D8404    506D8404

**Explanation:** System log entry only, no service action required

---

506DFFF4    506DFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (506E) Reference codes

---

506E1511    506E1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506E1515    506E1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506E1521    506E1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506E1525    506E1525

**Explanation:** A fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DISKFAN
- FI01106
- DEVBPLN

---

506E3002    506E3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

506E3109    506E3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

506E7611    506E7611

**Explanation:** A fatal error occurred on redundant fan 1

**Failing Item:**

- DISKFAN

---

506E7614    506E7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

506E7621    506E7621

**Explanation:** A fatal error occurred on redundant fan 2

**Failing Item:**

- DISKFAN

---

506E7624    506E7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

506E7631    506E7631

**Explanation:** A fatal error occurred on redundant fan 3

**Failing Item:**

- DISKFAN

---

506E7634    506E7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

## 506E8401 • 506EFFF4

---

506E8401    506E8401

**Explanation:** Removable media power fault

**Failing Item:**

- DEVBPLN

---

506E8404    506E8404

**Explanation:** System log entry only, no service action required

---

506EFFF4    506EFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- STORIOA
- FI01140
- FI01106

---

## (509A) Reference codes

---

509A1511    509A1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

509A1515    509A1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

509A1521    509A1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

509A1525    509A1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

509A3002    509A3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

509A3109    509A3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

509A7614    509A7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

509A7624    509A7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

509A7634    509A7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

509A7644    509A7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 509A8404 • 509AFF4

---

509A8404    509A8404

**Explanation:** System log entry only, no service action required

---

509AFF4    509AFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (509D) Reference codes

---

509D1511    509D1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- SASEXP

- SASCABL
- STORIOA

---

509D1515    509D1515

**Explanation:** A fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- SASEXP

---

509D3002    509D3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA

---

509D3109    509D3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA

---

509D7614    509D7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

509D8404    509D8404

**Explanation:** System log entry only, no service action required

---

509DFFF4    509DFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP



---

## (50A4) Reference codes

---

50A41511    50A41511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50A41515    50A41515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50A41521    50A41521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50A41525    50A41525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50A43002    50A43002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

50A43109    50A43109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

50A47614    50A47614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

50A47624    50A47624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

50A47634    50A47634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

50A47644    50A47644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 50A48404 • 50A4FFF4

---

50A48404 50A48404

**Explanation:** System log entry only, no service action required

---

50A4FFF4 50A4FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (50AD) Reference codes

---

### 50AD1511 50AD1511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1515 50AD1515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1521 50AD1521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD1525 50AD1525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

### 50AD3002 50AD3002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50AD3109 50AD3109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 50AD7614 50AD7614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

### 50AD7624 50AD7624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

### 50AD7634 50AD7634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

---

### 50AD7644 50AD7644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN

## 50AD8404 • 50ADFFF4

---

50AD8404 50AD8404

**Explanation:** System log entry only, no service action required

---

50ADFFF4 50ADFFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

## (50B1) Reference codes

---

50B11511    50B11511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50B11515    50B11515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50B11521    50B11521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50B11525    50B11525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
- DEVBPLN
- SASEXP

---

50B13002    50B13002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

50B13109    50B13109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

50B17604    50B17604

**Explanation:** A fatal error occurred on fan 16

**Failing Item:**

- DISKFAN

---

50B17614    50B17614

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

---

50B17624    50B17624

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

50B17634    50B17634

**Explanation:** A fatal error occurred on fan 3

**Failing Item:**

- DISKFAN

## 50B17644 • 50B1FFF4

---

50B17644 50B17644

**Explanation:** A fatal error occurred on fan 4

**Failing Item:**

- DISKFAN
- 

50B17654 50B17654

**Explanation:** A fatal error occurred on fan 5

**Failing Item:**

- DISKFAN
- 

50B17664 50B17664

**Explanation:** A fatal error occurred on fan 6

**Failing Item:**

- DISKFAN
- 

50B17674 50B17674

**Explanation:** A fatal error occurred on fan 7

**Failing Item:**

- DISKFAN
- 

50B17684 50B17684

**Explanation:** A fatal error occurred on fan 8

**Failing Item:**

- DISKFAN
- 

50B17694 50B17694

**Explanation:** A fatal error occurred on fan 9

**Failing Item:**

- DISKFAN
- 

50B176A4 50B176A4

**Explanation:** A fatal error occurred on fan 10

**Failing Item:**

- DISKFAN
- 

50B176B4 50B176B4

**Explanation:** A fatal error occurred on fan 11

**Failing Item:**

- DISKFAN
- 

50B176C4 50B176C4

**Explanation:** A fatal error occurred on fan 12

**Failing Item:**

- DISKFAN
- 

---

50B176D4 50B176D4

**Explanation:** A fatal error occurred on fan 13

**Failing Item:**

- DISKFAN
- 

50B176E4 50B176E4

**Explanation:** A fatal error occurred on fan 14

**Failing Item:**

- DISKFAN
- 

50B176F4 50B176F4

**Explanation:** A fatal error occurred on fan 15

**Failing Item:**

- DISKFAN
- 

50B18404 50B18404

**Explanation:** System log entry only, no service action required

---

50B1FFF4 50B1FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



---

## (5619) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

**56193000**      **56193000**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

**56193202**      **56193202**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

**56193400**      **56193400**

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

**56199020**      **56199020**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

**56199100**      **56199100**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56199101**      **56199101**

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

56199102      56199102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

56199103      56199103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

56199200      56199200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

56199201      56199201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

56199202      56199202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56199210**      **56199210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56199211**      **56199211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**56199220**      **56199220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56199300**      **56199300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**56199301**      **56199301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**56199302**      **56199302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56199303**      **56199303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**56199304**      **56199304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**56199310**      **56199310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**56199320**    **56199320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**56199321**    **56199321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56199350**    **56199350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56199351**    **56199351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56199355**    **56199355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56199500**    **56199500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56199501**    **56199501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**56199800**    **56199800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56199801**    **56199801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56199802**    **56199802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56199803**    **56199803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

**56199804**      **56199804**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56199805**      **56199805**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56199810**      **56199810**

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

**56199899**      **56199899**

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

**56199900**      **56199900**

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

**56199901**      **56199901**

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

**56199902**      **56199902**

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

**56199903**      **56199903**

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

**5619FFF6**      **5619FFF6**

**Explanation:** Tape volume statistics logged (no action required)



---

## (5638) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

56383000      56383000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

56383202      56383202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

56383400      56383400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

56389020      56389020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

56389100      56389100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

56389101      56389101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

56389102      56389102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

56389103      56389103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

56389200      56389200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

56389201      56389201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

56389202      56389202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.



2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56389210**      **56389210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56389211**      **56389211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**56389220**      **56389220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56389300**      **56389300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**56389301**      **56389301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**56389302**      **56389302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56389303**      **56389303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**56389304**      **56389304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**56389310**      **56389310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**56389320**    **56389320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**56389321**    **56389321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56389350**    **56389350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56389351**    **56389351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56389355**    **56389355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56389500**    **56389500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56389501**    **56389501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**56389800**    **56389800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56389801**    **56389801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56389802**    **56389802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56389803**    **56389803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

56389804    56389804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

56389805    56389805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

56389810    56389810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

56389899    56389899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

56389900    56389900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

56389901    56389901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

56389902    56389902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

56389903    56389903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

5638FFF6    5638FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (5675) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

56753000      56753000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

56753202      56753202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

56753400      56753400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

56759020      56759020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

56759100      56759100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

56759101      56759101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

56759102      56759102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

56759103      56759103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

56759200      56759200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

56759201      56759201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

56759202      56759202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**56759210**      **56759210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**56759211**      **56759211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**56759220**      **56759220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**56759300**      **56759300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**56759301**      **56759301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**56759302**      **56759302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**56759303**      **56759303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**56759304**      **56759304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**56759310**      **56759310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**56759320**    **56759320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**56759321**    **56759321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**56759350**    **56759350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56759351**    **56759351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**56759355**    **56759355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**56759500**    **56759500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**56759501**    **56759501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**56759800**    **56759800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56759801**    **56759801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56759802**    **56759802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**56759803**    **56759803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

56759804    56759804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

56759805    56759805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

56759810    56759810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

56759899    56759899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

56759900    56759900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

56759901    56759901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

56759902    56759902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

56759903    56759903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

5675FFF6    5675FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (5700) Reference codes

---

5700A001 5700A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01
- 

5700B9A0 5700B9A0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

5700B9B0 5700B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5701) Reference codes

---

5701A001 5701A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01
- 

5701B9A0 5701B9A0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

5701B9B0 5701B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5702) Reference codes

---

57020A17 57020A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

57020A22 57020A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

5702102E 5702102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

57021306 57021306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

57021307 57021307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

57021310 57021310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57021317 57021317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

57022200 57022200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

57022201 57022201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

57022202 57022202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

57023000 57023000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 57023001 • 57023084

- FI01101
- IOP
- MA\_BRDG

---

### 57023001 57023001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 57023002 57023002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 57023006 57023006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 57023020 57023020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023021 57023021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023022 57023022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023023 57023023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 57023080 57023080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

### 57023081 57023081

**Explanation:** System log entry only, no service action required

---

### 57023084 57023084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG



---

 57023087    57023087

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

57023100    57023100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57023101    57023101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57023102    57023102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57023103    57023103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57023109    57023109

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57023110    57023110

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57023120    57023120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

57023121    57023121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

## 57023122 • 57023205

operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023122      57023122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023123      57023123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57023136      57023136

**Explanation:** The removable media device is assigned elsewhere

**Failing Item:**

- USER
- FI01105

---

57023140      57023140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

57023141      57023141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

57023142      57023142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

57023143      57023143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

57023150      57023150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

57023151      57023151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

57023200      57023200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- IOP
- MEDIA

---

57023203      57023203

**Explanation:** Disk media format bad

**Failing Item:**

- FI01105

---

57023205      57023205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105

---

57023215    57023215

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

**Failing Item:**

- FI01105
- 

57023250    57023250

**Explanation:** Disk unit requires initialization before use.

**Response:** Perform a D-IPL and work on errors found in the log.

**Failing Item:**

- USER
- 

57023300    57023300

**Explanation:** Storage unit detected a media problem

**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

57023400    57023400

**Explanation:** I/O processor card detected device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

57023401    57023401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

57023501    57023501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

---

57023600    57023600

**Explanation:** System log entry only, no service action required

---

57023601    57023601

**Explanation:** System log entry only, no service action required

---

57026070    57026070

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

57026071    57026071

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

57026072    57026072

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57026073    57026073

**Explanation:** IPL device not ready

**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

57026075    57026075

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
- 

57026076    57026076

**Explanation:** I/O processor card detected media error

**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

 57026081    57026081

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57026082    57026082

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57026083    57026083

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57026085    57026085

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

57026200    57026200

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

57026201    57026201

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01
- 

57026602    57026602

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01
- 

---

 57028000    57028000

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

57028002    57028002

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

57028004    57028004

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
  - STORIOA
- 

57028005    57028005

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

57028007    57028007

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

57028010    57028010

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

57028011    57028011

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

57028100    57028100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57028130    57028130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

57028131    57028131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57028132    57028132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

---

is required. This reference code is logged for information only.

---

57028133    57028133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

57028140    57028140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

57028141    57028141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

57028145    57028145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

57028146    57028146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

57028150    57028150

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

57028151    57028151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

 57028155    57028155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

57028156    57028156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

57028157    57028157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

57028200    57028200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57028300    57028300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

 57028301    57028301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

57028400    57028400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

57029000    57029000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
- 

57029001    57029001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

57029002    57029002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57029008    57029008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
-

---

57029009    57029009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

57029010    57029010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

57029011    57029011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

57029012    57029012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

57029013    57029013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

57029020    57029020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

57029021    57029021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

57029022    57029022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57029023    57029023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57029024    57029024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57029025    57029025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

57029026    57029026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57029027    57029027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

57029028    57029028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

57029029      57029029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

5702902F      5702902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

57029030      57029030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21
- 

57029031      57029031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57029040      57029040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

57029041      57029041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01
- 

57029050      57029050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30
- 

---

57029051      57029051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

57029052      57029052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28
- 

57029053      57029053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

57029054      57029054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

57029081      57029081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-



---

57029082    57029082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57029090    57029090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57029091    57029091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57029092    57029092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

5702B3B1    5702B3B1

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B2    5702B3B2

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B3    5702B3B3

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B4    5702B3B4

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B5    5702B3B5

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B6    5702B3B6

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B7    5702B3B7

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

5702B3B8    5702B3B8

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

5702B3B9    5702B3B9

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 5702B3E0 • 5702FF6D

- IOP

---

5702B3E0    5702B3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

5702B3E1    5702B3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

5702B410    5702B410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

5702B411    5702B411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

5702B412    5702B412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

5702B935    5702B935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

5702BE00    5702BE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

5702FF3D    5702FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

5702FF6D    5702FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (5703) Reference codes

---

57031310    57031310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57033006    57033006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- STORIOA

---

57033020    57033020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57033021    57033021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57033022    57033022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107

- STORIOA

---

57033023    57033023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57033100    57033100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57033101    57033101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57033102    57033102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA

## 57033103 • 57033151

- FI01140
- DEVBPLN

---

57033103      57033103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57033120      57033120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57033121      57033121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57033122      57033122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57033123      57033123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57033140      57033140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

57033141      57033141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

57033142      57033142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

57033143      57033143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

57033150      57033150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

57033151      57033151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

57033400    57033400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

57033401    57033401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

57033501    57033501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57033600    57033600

**Explanation:** System log entry only, no service action required

---

57033601    57033601

**Explanation:** System log entry only, no service action required

---

57038008    57038008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

---

57038009    57038009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

57038012    57038012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

57038100    57038100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57038130    57038130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

57038131    57038131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57038132    57038132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

57038133    57038133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

 57038140    57038140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

 57038141    57038141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

 57038145    57038145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

 57038146    57038146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

 57038150    57038150

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

 57038151    57038151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

 57038155    57038155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

 57038156    57038156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

 57038157    57038157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

 57038200    57038200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 57039000    57039000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-

---

57039001    57039001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

57039002    57039002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57039008    57039008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

57039009    57039009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

57039010    57039010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

57039011    57039011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

57039020    57039020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

57039021    57039021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

57039022    57039022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57039023    57039023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57039024    57039024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57039025    57039025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

57039026    57039026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57039027    57039027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

57039028    57039028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 57039029 • 57039053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

57039029      57039029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

5703902F      5703902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

57039030      57039030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

57039031      57039031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57039032      57039032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

57039040      57039040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

57039041      57039041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

57039042      57039042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57039050      57039050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

57039051      57039051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

57039052      57039052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57039053      57039053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a



type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

57039054      57039054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

57039071      57039071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

57039072      57039072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

57039073      57039073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

57039081      57039081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

57039082      57039082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

57039090      57039090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

57039091      57039091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

57039092      57039092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

57039093      57039093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

5703B934      5703B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

5703FF3D      5703FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 5703FF6D

- ANYBRDG

---

### 5703FF6D 5703FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (5704) Reference codes

---

57041310    57041310

**Explanation:** I/O processor or I/O adapter resource not available

**Response:** The I/O processor or I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57043020    57043020

**Explanation:** I/O processor detected a configuration error

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57043100    57043100

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57043120    57043120

**Explanation:** I/O processor detected a port failure

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57043140    57043140

**Explanation:** I/O Processor detected that a port is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

57043400    57043400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

570434FF    570434FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be useable. No action is required. This reference code is logged for information only.

---

57048130    57048130

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

57048140    57048140

**Explanation:** Recovered Fibre Channel interface error

**Response:** No action required. This reference code is logged for information only.

---

57048141    57048141

**Explanation:** IOA detected recoverable device error

**Response:** No action required. This reference code is logged for information only.

---

57048145    57048145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

57048146    57048146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FCDEV
- 

57048150    57048150

## 57048151 • 5704FF3D

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

57048151    57048151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- FCIOA
- IOP
- OPT\_CLN

---

57048155    57048155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

57048156    57048156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- FCIOA
- OPT\_CLN

---

57049091    57049091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57049092    57049092

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reset the I/O processor and then IPL the I/O processor. For information about how to reset and

IPL the I/O processor, see Debug the resource. If an I/O processor reset and I/O processor IPL does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

5704FF3D    5704FF3D

**Explanation:** Recovered IOA error

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

## (5706) Reference codes

---

5706A001 5706A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01

---

5706B9B0 5706B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDGP01



---

## (5707) Reference codes

---

5707A001 5707A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01
- 

5707B9B0 5707B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDGP01





---

## (5708) Reference codes

---

57081310 57081310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57083006 57083006

**Explanation:** System bus error

**Response:**

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

57083100 57083100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

57083101 57083101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

57083400 57083400

**Explanation:** SCSI resource error

**Response:**

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

57086075 57086075

**Explanation:** I/O processor resource not available

**Response:**

**Failing Item:**

- PTFSRCH
- 

57088008 57088008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

57088009 57088009

**Explanation:** Impending cache battery pack failure

**Response:**

**Failing Item:**

- CACHBAT
- 

57088130 57088130

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

57088131 57088131

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57088140 57088140

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** No action is required. This reference code is logged for information only.

---

57088141 57088141

**Explanation:** IOA detected recoverable SCSI resource error

**Response:** No action is required. This reference code is logged for information only.

---

57088145    57088145

**Explanation:** A recoverable error occurred

**Response:**

**Failing Item:**

- AUXIOA

---

57088150    57088150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

57088151    57088151

**Explanation:** Licensed Internal Code error

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57088155    57088155

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57088156    57088156

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57088157    57088157

**Explanation:** I/O adapter card temporary error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

57088300    57088300

**Explanation:** IOA hardware or PCI bus error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

57088301    57088301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57088302    57088302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

---

57089055    57089055

**Explanation:** Write cache data is available for attached storage IOA

**Response:** No service action required.

---

57089071    57089071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

57089072    57089072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

57089073    57089073

**Explanation:** Disconnected, incompatible, or non-operational storage IOA

**Response:**

**Failing Item:**

- IOPIP41
- 

5708FF3D    5708FF3D

**Explanation:** I/O adapter detected recoverable error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (5709) Reference codes

---

57091310    57091310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57093006    57093006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- STORIOA

---

57093020    57093020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57093021    57093021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57093022    57093022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107

- STORIOA

---

57093023    57093023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

57093100    57093100

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57093101    57093101

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57093102    57093102

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA

## 57093103 • 57093151

- FI01140
- DEVBPLN

---

57093103      57093103

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57093120      57093120

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57093121      57093121

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57093122      57093122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57093123      57093123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57093140      57093140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

57093141      57093141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

57093142      57093142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action, since SCSI bus 2 is now operational.

---

57093143      57093143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

57093150      57093150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

57093151      57093151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

57093400    57093400

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

57093401    57093401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

57093501    57093501

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57093600    57093600

**Explanation:** System log entry only, no service action required

---

57093601    57093601

**Explanation:** System log entry only, no service action required

---

57098008    57098008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - STORIOA
- 

57098009    57098009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT
- 

57098012    57098012

**Explanation:** Attached read cache devices exceed capacity supported by IOA

**Response:** Reduce the number of read caches on the IOA.

**Failing Item:**

- SVCDOCS
- 

57098100    57098100

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

57098130    57098130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

57098131    57098131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57098132    57098132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

57098133    57098133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

 57098140    57098140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

 57098141    57098141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

 57098145    57098145

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA

---

 57098146    57098146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

 57098150    57098150

**Explanation:** A permanent I/O processor failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

 57098151    57098151

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- STORIOA

---

 57098155    57098155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

 57098156    57098156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
- STORIOA

---

 57098157    57098157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

 57098200    57098200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- IOP

---

 57099000    57099000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
-



---

57099001    57099001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

57099002    57099002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57099008    57099008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
- 

57099009    57099009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

57099010    57099010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

57099011    57099011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

57099020    57099020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

57099021    57099021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

57099022    57099022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57099023    57099023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57099024    57099024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57099025    57099025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

57099026    57099026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

57099027    57099027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

57099028    57099028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either

## 57099029 • 57099053

move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS

---

57099029      57099029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

5709902F      5709902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 array members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

57099030      57099030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

57099031      57099031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57099032      57099032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- FI02112
- IOPIP21

---

57099040      57099040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

57099041      57099041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

57099042      57099042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57099050      57099050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

57099051      57099051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

57099052      57099052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57099053      57099053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a

type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

57099054      57099054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

57099071      57099071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

57099072      57099072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

57099073      57099073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Failing Item:**

- IOPIP40

57099081      57099081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

57099082      57099082

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140

- BACKPLN
- FI01106

57099090      57099090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

57099091      57099091

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

57099092      57099092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26

57099093      57099093

**Explanation:** Read cache device not in correct format

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

5709B934      5709B934

**Explanation:** Incompatible hardware detected.

**Failing Item:**

- STORIOA

5709FF3D      5709FF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA

## 5709FF6D

- ANYBRDG

---

### 5709FF6D 5709FF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS

---

## (570B) Reference codes

---

570B0A17 570B0A17

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
  - MA\_BRDG
  - AJDGP01
  - AJDG301
- 

570B0A22 570B0A22

**Explanation:** I/O processor detected a storage transfer error

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOP
  - MA\_BRDG
- 

570B102E 570B102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- FI01105
- 

570B1306 570B1306

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
  - IOP
  - FI01104
  - BACKPLN
- 

570B1307 570B1307

**Explanation:** I/O processor resource not available

**Failing Item:**

- AJDGP01
  - AJDG301
- 

570B1310 570B1310

**Explanation:** I/O processor resource not available

**Response:** The I/O processor error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

570B1317 570B1317

**Explanation:** I/O processor card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates IOP, then replace the IOP. If the Failing Item indicates SVCDOCS, then do NOT replace the IOP. This is a recoverable error. Perform the following:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

570B2200 570B2200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

570B2201 570B2201

**Explanation:** Removable media error during IPL

**Failing Item:**

- USER
  - FI01105
- 

570B2202 570B2202

**Explanation:** Removable media error during IPL

**Failing Item:**

- FI00022
  - FI01105
- 

570B3000 570B3000

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 570B3001 • 570B3084

- FI01101
- IOP
- MA\_BRDG

---

### 570B3001 570B3001

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- IOP
- AJDGP01

---

### 570B3002 570B3002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- FI01141
- FI01106

---

### 570B3006 570B3006

**Explanation:** System bus error

**Failing Item:**

- IOP
- ANYBUS
- FI01101

---

### 570B3020 570B3020

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3021 570B3021

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3022 570B3022

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3023 570B3023

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
- USER
- FI01107
- STORIOA

---

### 570B3080 570B3080

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01

---

### 570B3081 570B3081

**Explanation:** System log entry only, no service action required

---

### 570B3084 570B3084

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

**570B3087 570B3087**

**Explanation:** I/O processor resource not available

**Response:** The Licensed Internal Code could not allocate resources on the I/O processor card.

**Failing Item:**

- AJDGP01
  - AJDG301
  - IOACNFG
  - FI01104
- 

**570B3100 570B3100**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3101 570B3101**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3102 570B3102**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

---

**570B3103 570B3103**

**Explanation:** I/O processor card detected interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

**570B3109 570B3109**

**Explanation:** I/O processor timed out a device command

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B3110 570B3110**

**Explanation:** I/O processor card detected interface error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B3120 570B3120**

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 0 of the I/O Adapter and caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS
- 

**570B3121 570B3121**

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 1 of the I/O Adapter and caused the bus to become not

## 570B3122 • 570B3205

operational. Remove the device.

### Failing Item:

- SVCDOCS

---

### 570B3122 570B3122

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 2 of the I/O Adapter and caused the bus to become not operational. Remove the device.

### Failing Item:

- SVCDOCS

---

### 570B3123 570B3123

**Explanation:** I/O Processor detected that the bus is not operational

**Response:** A device was added to SCSI bus 3 of the I/O Adapter and caused the bus to become not operational. Remove the device.

### Failing Item:

- SVCDOCS

---

### 570B3136 570B3136

**Explanation:** The removable media device is assigned elsewhere

### Failing Item:

- USER
- FI01105

---

### 570B3140 570B3140

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since SCSI bus 0 is now operational.

---

### 570B3141 570B3141

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since SCSI bus 1 is now operational.

---

### 570B3142 570B3142

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action,

since SCSI bus 2 is now operational.

---

### 570B3143 570B3143

**Explanation:** I/O Processor detected that the bus is now operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action, since SCSI bus 3 is now operational.

---

### 570B3150 570B3150

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

### Failing Item:

- SVCDOCS

---

### 570B3151 570B3151

**Explanation:** I/O processor detected a SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

### Failing Item:

- SVCDOCS

---

### 570B3200 570B3200

**Explanation:** A tape/CD or disk device reported a failure

### Failing Item:

- FI01105
- STORIOA
- IOP
- MEDIA

---

### 570B3203 570B3203

**Explanation:** Disk media format bad

### Failing Item:

- FI01105

---

### 570B3205 570B3205

**Explanation:** Disk sector read error

**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.

### Failing Item:

- FI01105



---

**570B3215**    **570B3215**
**Explanation:** Disk sector read error**Response:** Disk unit data may need to be reloaded, but the disk unit does not need to be replaced.**Failing Item:**

- FI01105
- 

**570B3250**    **570B3250****Explanation:** Disk unit requires initialization before use.**Response:** Perform a D-IPL and work on errors found in the log.**Failing Item:**

- USER
- 

**570B3300**    **570B3300****Explanation:** Storage unit detected a media problem**Failing Item:**

- IOPIP01
  - MEDIA
  - FI00121
  - FI01141
- 

**570B3400**    **570B3400****Explanation:** I/O processor card detected device error**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - DEVTERM
  - FI01140
- 

**570B3401**    **570B3401****Explanation:** Device backplane problem**Failing Item:**

- DEVBPLN
- 

**570B3501**    **570B3501****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
  - IOP
- 

**570B3600**    **570B3600****Explanation:** System log entry only, no service action required

---

**570B3601**    **570B3601****Explanation:** System log entry only, no service action required

---

**570B6070**    **570B6070****Explanation:** A permanent I/O processor failure occurred**Failing Item:**

- IOP
- 

**570B6071**    **570B6071****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
- 

**570B6072**    **570B6072****Explanation:** I/O processor Licensed Internal Code error**Failing Item:**

- AJDGP01
  - IOP
- 

**570B6073**    **570B6073****Explanation:** IPL device not ready**Failing Item:**

- MEDIA
  - FI01105
  - USER
- 

**570B6075**    **570B6075****Explanation:** I/O processor resource not available**Failing Item:**

- AJDGP01
- 

**570B6076**    **570B6076****Explanation:** I/O processor card detected media error**Failing Item:**

- MEDIA
  - AJDGP01
  - FI01105
-

---

**570B6081**    **570B6081**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B6082**    **570B6082**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B6083**    **570B6083**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B6085**    **570B6085**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
  - MA\_BRDG
- 

**570B6200**    **570B6200**

**Explanation:** A permanent IOA hardware error occurred

**Failing Item:**

- FCIOA
  - OPT\_CLN
- 

**570B6201**    **570B6201**

**Explanation:** IOA LID is not valid

**Failing Item:**

- AJDGP01
- 

**570B6602**    **570B6602**

**Explanation:** An I/O processor Licensed Internal Code error occurred.

**Failing Item:**

- AJDGP01
- 

---

**570B8000**    **570B8000**

**Explanation:** A permanent IOP or cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

**570B8002**    **570B8002**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**570B8004**    **570B8004**

**Explanation:** Voltage drop detected on I/O processor 5 volt power supply.

**Failing Item:**

- FI01141
  - STORIOA
- 

**570B8005**    **570B8005**

**Explanation:** A recoverable IOP or cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- STORIOA
  - CACHE
- 

**570B8007**    **570B8007**

**Explanation:** A recoverable cache adapter card error occurred.

**Response:** DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
-

---

**570B8010**    **570B8010**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**570B8011**    **570B8011**

**Explanation:** A permanent cache adapter card failure occurred.

**Response:** The cache adapter card may be missing, broken or incompatible.

DO NOT replace both FRUs at the same time. Exchange the FRUs one at a time in the order shown.

**Failing Item:**

- CACHE
  - STORIOA
- 

**570B8100**    **570B8100**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

**570B8130**    **570B8130**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

**570B8131**    **570B8131**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**570B8132**    **570B8132**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action

is required. This reference code is logged for information only.

---

**570B8133**    **570B8133**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**570B8140**    **570B8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

**570B8141**    **570B8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**570B8145**    **570B8145**

**Explanation:** A recoverable I/O processor error occurred.

**Failing Item:**

- STORIOA
- 

**570B8146**    **570B8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**570B8150**    **570B8150**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**570B8151**    **570B8151**

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - STORIOA
-

---

 570B8155    570B8155

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

570B8156    570B8156

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- AJDGP01
  - STORIOA
- 

570B8157    570B8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS
- 

570B8200    570B8200

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
  - IOP
- 

570B8300    570B8300

**Explanation:** I/O processor card or Licensed Internal Code error

**Response:** A microprocessor exception occurred on the I/O processor.

**Failing Item:**

- STORIOA
  - IOP
  - AJDGP01
- 

---

 570B8301    570B8301

**Explanation:** Not valid condition in I/O Processor Licensed Internal Code

**Response:** The Licensed Internal Code found a condition that should not have occurred.

**Failing Item:**

- FI01101
  - AJDGP01
  - IOP
- 

570B8400    570B8400

**Explanation:** I/O processor Licensed Internal Code error

**Failing Item:**

- AJDGP01
- 

570B9000    570B9000

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
  - STORIOA
- 

570B9001    570B9001

**Explanation:** I/O processor card detected device configuration error

**Failing Item:**

- IOPIP33
- 

570B9002    570B9002

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

570B9008    570B9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- IOPIP25
-

---

570B9009 570B9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS
- 

570B9010 570B9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- IOPIP31
- 

570B9011 570B9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- IOPIP32
- 

570B9012 570B9012

**Explanation:** IOP requires a cache adapter card but cannot find it.

**Response:** The cache adapter card is missing or broken.

**Failing Item:**

- IOPIP29
  - CACHE
- 

570B9013 570B9013

**Explanation:** The IOP and attached cache adapter card are not compatible.

**Failing Item:**

- IOPIP19
- 

570B9020 570B9020

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

570B9021 570B9021

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP20
- 

---

570B9022 570B9022

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

570B9023 570B9023

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

570B9024 570B9024

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

570B9025 570B9025

**Explanation:** Disk unit is not supported at its physical location.

**Failing Item:**

- IOPIP21
- 

570B9026 570B9026

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP22
- 

570B9027 570B9027

**Explanation:** Array not functional due to present hardware configuration.

**Failing Item:**

- IOPIP34
- 

570B9028 570B9028

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Reduce the number of arrays on IOP. Either move all devices in an array to another IOP that supports arrays, or stop an array on this IOP.

**Failing Item:**

- SVCDOCS
-

---

570B9029 570B9029

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

570B902F 570B902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

570B9030 570B9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- IOPIP21

---

570B9031 570B9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

570B9040 570B9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

570B9041 570B9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- AJDGP01

---

570B9050 570B9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Failing Item:**

- IOPIP30

---

570B9051 570B9051

**Explanation:** IOP cache data exists for a missing or failed device.

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

570B9052 570B9052

**Explanation:** Cache data exists for device that has been modified.

**Failing Item:**

- IOPIP28

---

570B9053 570B9053

**Explanation:** IOP resources not available due to previous problems.

**Response:** Take action on other IOP reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

570B9054 570B9054

**Explanation:** IOP resources not available due to previous problems.

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other IOP reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

570B9081 570B9081

**Explanation:** I/O processor card detected device error

**Failing Item:**

- FI01105
- STORIOA

---

**570B9082**    **570B9082**

**Explanation:** I/O processor card detected device error

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**570B9090**    **570B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**570B9091**    **570B9091**

**Explanation:** Incorrect hardware configuration change has been detected.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**570B9092**    **570B9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- IOPIP26
- 

**570BB3B1**    **570BB3B1**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

---

**570BB3B2**    **570BB3B2**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B3**    **570BB3B3**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B4**    **570BB3B4**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B5**    **570BB3B5**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B6**    **570BB3B6**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B7**    **570BB3B7**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- IOP
- 

**570BB3B8**    **570BB3B8**

**Explanation:** Multi-adapter Bridge error detected

**Failing Item:**

- MA\_BRDG
  - IOP
- 

**570BB3B9**    **570BB3B9**

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

## 570BB3E0 • 570BFF6D

- IOP

---

570BB3E0 570BB3E0

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

570BB3E1 570BB3E1

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- IOP
- MA\_BRDG

---

570BB410 570BB410

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

570BB411 570BB411

**Explanation:** A permanent I/O processor failure occurred

**Failing Item:**

- STORIOA

---

570BB412 570BB412

**Explanation:** Tape/CD or disk bus interface error occurred

**Failing Item:**

- IOPIP16
- FI01107
- FI01140
- STORIOA
- DEVTERM

---

570BB935 570BB935

**Explanation:** Unknown hardware detected

**Failing Item:**

- FI01101
- AJDGP01
- IOP
- MA\_BRDG

---

570BBE00 570BBE00

**Explanation:** I/O processor detected a fault condition

**Failing Item:**

- AJDGP01
- IOP
- FI01104
- MA\_BRDG

---

570BFF3D 570BFF3D

**Explanation:** I/O adapter detected recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

570BFF6D 570BFF6D

**Explanation:** I/O processor detected a recoverable system bus error

**Failing Item:**

- IOP
- ANYBUS



---

## (571A) Reference codes

---

571A1310 571A1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

571A3000 571A3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

571A3006 571A3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

571A3020 571A3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571A3021 571A3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571A3022 571A3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571A3023 571A3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571A3100 571A3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571A3101 571A3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571A3102 571A3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 571A3103 • 571A3200

- STORIOA
- FI01140
- DEVBPLN

---

571A3103    571A3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571A3120    571A3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571A3121    571A3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571A3122    571A3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571A3123    571A3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571A3140    571A3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571A3141    571A3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571A3142    571A3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571A3143    571A3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571A3150    571A3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571A3151    571A3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571A3200    571A3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**571A3202**    **571A3202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571A3400**    **571A3400**

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571A3401**    **571A3401**

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

**571A3405**    **571A3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571A34FF**    **571A34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571A3501**    **571A3501**

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571A3601**    **571A3601**

**Explanation:** System log entry only. No service action required.

---

**571A4150**    **571A4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571A4160 • 571A8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571A4160    571A4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571A8008    571A8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

571A8009    571A8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

571A8100    571A8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

571A8130    571A8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

571A8131 571A8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

571A8132 571A8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

571A8133 571A8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

571A8140 571A8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

571A8141 571A8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

571A8145 571A8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

571A8146 571A8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

571A8150 571A8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

571A8151 571A8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

571A8155 571A8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571A8156 571A8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571A8157 571A8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571A8300 • 571A9020

- SVCDOCS

---

571A8300 571A8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

571A8301 571A8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

571A8302 571A8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

571A8400 571A8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

571A8404 571A8404

**Explanation:** System log entry only. No service action required.

---

571A9000 571A9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

571A9001 571A9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

571A9002 571A9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

571A9008 571A9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

571A9009 571A9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

571A9010 571A9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

571A9011 571A9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

571A9020 571A9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20

---

571A9021    571A9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

571A9022    571A9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571A9023    571A9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571A9024    571A9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571A9025    571A9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

571A9026    571A9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

571A9027    571A9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

571A9028    571A9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

571A9029    571A9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571A902F    571A902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

571A9030    571A9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

571A9031    571A9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

## 571A9032 • 571A9072

---

571A9032 571A9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
- IOPIP21

---

571A9040 571A9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

571A9041 571A9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

571A9042 571A9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

571A9050 571A9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30

---

571A9051 571A9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

571A9052 571A9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

571A9053 571A9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571A9054 571A9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571A9071 571A9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

571A9072 571A9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.



---

**571A9073**    **571A9073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

**571A9081**    **571A9081**

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

**571A9082**    **571A9082**

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**571A9090**    **571A9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571A9091**    **571A9091**

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

**571A9092**    **571A9092**

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

**571A9500**    **571A9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**571A9902**    **571A9902**

**Explanation:** System log entry only. No service action required.

---

**571A9903**    **571A9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571AC000**    **571AC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571AC100**    **571AC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571AC402**    **571AC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

**571AFF3D**    **571AFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 571AFF6D

---

571AFF6D 571AFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## (571B) Reference codes

---

571B1310    571B1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

571B3000    571B3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

571B3006    571B3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

571B3020    571B3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571B3021    571B3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571B3022    571B3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571B3023    571B3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571B3100    571B3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571B3101    571B3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571B3102    571B3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 571B3103 • 571B3200

- STORIOA
- FI01140
- DEVBPLN

---

571B3103    571B3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571B3120    571B3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3121    571B3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3122    571B3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3123    571B3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571B3140    571B3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571B3141    571B3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571B3142    571B3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571B3143    571B3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571B3150    571B3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571B3151    571B3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571B3200    571B3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**571B3202**    **571B3202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571B3400**    **571B3400**

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571B3401**    **571B3401**

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

**571B3405**    **571B3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571B34FF**    **571B34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571B3501**    **571B3501**

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571B3601**    **571B3601**

**Explanation:** System log entry only. No service action required.

---

**571B4150**    **571B4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571B4160 • 571B8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571B4160      571B4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 571B8008      571B8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

### 571B8009      571B8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

### 571B8100      571B8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

### 571B8130      571B8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

**571B8131**    **571B8131**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

**571B8132**    **571B8132**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

**571B8133**    **571B8133**

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

**571B8140**    **571B8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

**571B8141**    **571B8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**571B8145**    **571B8145**

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

**571B8146**    **571B8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

**571B8150**    **571B8150**

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**571B8151**    **571B8151**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8155**    **571B8155**

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8156**    **571B8156**

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

**571B8157**    **571B8157**

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571B8300 • 571B9020

- SVCDOCS

---

571B8300 571B8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

571B8301 571B8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

571B8302 571B8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

571B8400 571B8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

571B8404 571B8404

**Explanation:** System log entry only. No service action required.

---

571B9000 571B9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

571B9001 571B9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

571B9002 571B9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

571B9008 571B9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

571B9009 571B9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

571B9010 571B9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

571B9011 571B9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

571B9020 571B9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20



---

571B9021 571B9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

## 571B9022 571B9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

## 571B9023 571B9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

## 571B9024 571B9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

## 571B9025 571B9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

## 571B9026 571B9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

571B9027 571B9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

## 571B9028 571B9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

## 571B9029 571B9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

## 571B902F 571B902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

571B9030 571B9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

## 571B9031 571B9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 571B9032 • 571B9072

---

571B9032 571B9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
- IOPIP21

---

571B9040 571B9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

571B9041 571B9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

571B9042 571B9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

571B9050 571B9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30

---

571B9051 571B9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

571B9052 571B9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

571B9053 571B9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571B9054 571B9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

571B9071 571B9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

571B9072 571B9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

**571B9073**    **571B9073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

**571B9081**    **571B9081**

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

**571B9082**    **571B9082**

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**571B9090**    **571B9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571B9091**    **571B9091**

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

**571B9092**    **571B9092**

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

**571B9500**    **571B9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**571B9902**    **571B9902**

**Explanation:** System log entry only. No service action required.

---

**571B9903**    **571B9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571BC000**    **571BC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571BC100**    **571BC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571BC402**    **571BC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

**571BFF3D**    **571BFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 571BFF6D

---

571BFF6D 571BFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## (571E) Reference codes

---

571E1310    571E1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

571E3000    571E3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

571E3006    571E3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

571E3020    571E3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571E3021    571E3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571E3022    571E3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571E3023    571E3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571E3100    571E3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571E3101    571E3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571E3102    571E3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 571E3103 • 571E3200

- STORIOA
- FI01140
- DEVBPLN

---

571E3103    571E3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571E3120    571E3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571E3121    571E3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571E3122    571E3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571E3123    571E3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571E3140    571E3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571E3141    571E3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571E3142    571E3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571E3143    571E3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571E3150    571E3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571E3151    571E3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571E3200    571E3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

 571E3202    571E3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

571E3400    571E3400

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

571E3401    571E3401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

571E3405    571E3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

571E34FF    571E34FF

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

 571E3501    571E3501

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

571E3601    571E3601

**Explanation:** System log entry only. No service action required.

---

571E4150    571E4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571E4160 • 571E8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571E4160      571E4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571E8008      571E8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

571E8009      571E8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

571E8100      571E8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

571E8130      571E8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action



is required. This reference code is logged for information only.

---

571E8131 571E8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

571E8132 571E8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

571E8133 571E8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

571E8140 571E8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

571E8141 571E8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

571E8145 571E8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

571E8146 571E8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

571E8150 571E8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

571E8151 571E8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

571E8155 571E8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571E8156 571E8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571E8157 571E8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571E8300 • 571E9020

- SVCDOCS

---

571E8300 571E8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

571E8301 571E8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

571E8302 571E8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

571E8400 571E8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

571E8404 571E8404

**Explanation:** System log entry only. No service action required.

---

571E9000 571E9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

571E9001 571E9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

571E9002 571E9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

571E9008 571E9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

571E9009 571E9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

571E9010 571E9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

571E9011 571E9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

571E9020 571E9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20

---

571E9021    571E9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

571E9022    571E9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571E9023    571E9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571E9024    571E9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571E9025    571E9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

571E9026    571E9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

571E9027    571E9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

571E9028    571E9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

571E9029    571E9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571E902F    571E902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

571E9030    571E9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

571E9031    571E9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

 571E9032 571E9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

571E9040 571E9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

571E9041 571E9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

571E9042 571E9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

571E9050 571E9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30
- 

571E9051 571E9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

---

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

571E9052 571E9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571E9053 571E9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571E9054 571E9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571E9071 571E9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

571E9072 571E9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

---

571E9073    571E9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

571E9081    571E9081

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

571E9082    571E9082

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

571E9090    571E9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571E9091    571E9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

571E9092    571E9092

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

571E9500    571E9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

571E9902    571E9902

**Explanation:** System log entry only. No service action required.

---

571E9903    571E9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

571EC000    571EC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

571EC100    571EC100

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

571EC402    571EC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

571EFF3D    571EFF3D

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 571EFF6D

---

571EFF6D 571EFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## (571F) Reference codes

---

571F1310    571F1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

571F3000    571F3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

571F3006    571F3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

571F3020    571F3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571F3021    571F3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571F3022    571F3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571F3023    571F3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

571F3100    571F3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571F3101    571F3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

571F3102    571F3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 571F3103 • 571F3200

- STORIOA
- FI01140
- DEVBPLN

---

571F3103    571F3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

571F3120    571F3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3121    571F3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3122    571F3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3123    571F3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

571F3140    571F3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

571F3141    571F3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

571F3142    571F3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

571F3143    571F3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

571F3150    571F3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

571F3151    571F3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

571F3200    571F3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA



---

**571F3202**    **571F3202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**571F3400**    **571F3400**

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**571F3401**    **571F3401**

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

**571F3405**    **571F3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**571F34FF**    **571F34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**571F3501**    **571F3501**

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**571F3601**    **571F3601**

**Explanation:** System log entry only. No service action required.

---

**571F4150**    **571F4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 571F4160 • 571F8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571F4160      571F4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

571F8008      571F8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

571F8009      571F8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

571F8100      571F8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

571F8130      571F8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

571F8131    571F8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

571F8132    571F8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

571F8133    571F8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

571F8140    571F8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

571F8141    571F8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

571F8145    571F8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

571F8146    571F8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

571F8150    571F8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

571F8151    571F8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

571F8155    571F8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571F8156    571F8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

571F8157    571F8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 571F8300 • 571F9020

- SVCDOCS

---

571F8300    571F8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

571F8301    571F8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

571F8302    571F8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

571F8400    571F8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

571F8404    571F8404

**Explanation:** System log entry only. No service action required.

---

571F9000    571F9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

571F9001    571F9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

571F9002    571F9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

571F9008    571F9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

571F9009    571F9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

571F9010    571F9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

571F9011    571F9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

571F9020    571F9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20

---

571F9021    571F9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

571F9022    571F9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571F9023    571F9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571F9024    571F9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

571F9025    571F9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

571F9026    571F9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

571F9027    571F9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

571F9028    571F9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

571F9029    571F9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571F902F    571F902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

571F9030    571F9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

571F9031    571F9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

 571F9032    571F9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

571F9040    571F9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

571F9041    571F9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

571F9042    571F9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

571F9050    571F9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30
- 

571F9051    571F9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

---

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

571F9052    571F9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

571F9053    571F9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571F9054    571F9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

571F9071    571F9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

571F9072    571F9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

---

**571F9073**    **571F9073**

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

**571F9081**    **571F9081**

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

**571F9082**    **571F9082**

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

**571F9090**    **571F9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

**571F9091**    **571F9091**

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

**571F9092**    **571F9092**

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

**571F9500**    **571F9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

**571F9902**    **571F9902**

**Explanation:** System log entry only. No service action required.

---

**571F9903**    **571F9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**571FC000**    **571FC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571FC100**    **571FC100**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**571FC402**    **571FC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

**571FFF3D**    **571FFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 571FFF6D

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571FFF6D 571FFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



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## (572A) Reference codes

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572A1310    572A1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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572A3000    572A3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

572A3020    572A3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

572A3100    572A3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

572A3140    572A3140

**Explanation:** System log entry only. No service action required.

---

572A3202    572A3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

572A3400    572A3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

572A3401    572A3401

## 572A3405 • 572A4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 572A3405 572A3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 572A34FF 572A34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 572A3601 572A3601

**Explanation:** System log entry only. No service action required.

---

### 572A4010 572A4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 572A4020 572A4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572A4030 572A4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572A4040 572A4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572A4041 572A4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572A4050 572A4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 572A4060 572A4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572A4061 572A4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572A4070 572A4070

**Explanation:** System log entry only. No service action required.

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**572A4100**    **572A4100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**572A4101**    **572A4101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152
- 

**572A4110**    **572A4110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145
- 

**572A4150**    **572A4150****Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**572A4160**    **572A4160****Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 572A8008 • 572A8100

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 572A8008 572A8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- CACHBAT
- STORIOA
- FEATCRD

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### 572A8009 572A8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

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### 572A8100 572A8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572A8130    572A8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572A8140    572A8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572A8141    572A8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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572A8146    572A8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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572A8150    572A8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 572A8151 • 572A8155

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG

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572A8151    572A8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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572A8155    572A8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572A8156    572A8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572A8157    572A8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 572A8300 • 572A8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

572A8300    572A8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

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572A8301    572A8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572A8302    572A8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

---

572A8400    572A8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 572A8404 • 572A9021

---

572A8404 572A8404

**Explanation:** System log entry only. No service action required.

---

572A9000 572A9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

**676** System reference codes (1xxx - Axxx)

- FI01105
- STORIOA

---

572A9001 572A9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

572A9002 572A9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

572A9008 572A9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

572A9010 572A9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

572A9011 572A9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

572A9020 572A9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

572A9021 572A9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

572A9022    572A9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

572A9023    572A9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

572A9024    572A9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

572A9025    572A9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

572A9026    572A9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572A9027    572A9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

---

572A9028    572A9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572A9029    572A9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572A9030    572A9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

572A9031    572A9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572A9032    572A9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572A9040    572A9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

## 572A9041 • 572A9081

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572A9041 572A9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572A9042 572A9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572A9050 572A9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

572A9051 572A9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

572A9052 572A9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572A9054 572A9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

572A9070 572A9070

**Explanation:** System log entry only. No service action required.

---

572A9071 572A9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

572A9072 572A9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

572A9073 572A9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

572A9074 572A9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

572A9075 572A9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

572A9076 572A9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

572A9081 572A9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572A9082    572A9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572A9083    572A9083

**Explanation:** System log entry only. No service action required.

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572A9084    572A9084

**Explanation:** System log entry only. No service action required.

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 572A9090    572A9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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 572A9091    572A9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 572A9092    572A9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

 572A9500    572A9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

 572A9903    572A9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 572AC000    572AC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 572AC402    572AC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

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 572AFF3D    572AFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (572B) Reference codes

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572B1310    572B1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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572B3000    572B3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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572B3020    572B3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

572B3100    572B3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

572B3140    572B3140

**Explanation:** System log entry only. No service action required.

---

572B3202    572B3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

572B3400    572B3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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572B3401    572B3401

## 572B3405 • 572B4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 572B3405 572B3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 572B34FF 572B34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 572B3601 572B3601

**Explanation:** System log entry only. No service action required.

---

### 572B4010 572B4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 572B4020 572B4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572B4030 572B4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572B4040 572B4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572B4041 572B4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572B4050 572B4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 572B4060 572B4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572B4061 572B4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572B4070 572B4070

**Explanation:** System log entry only. No service action required.

---

**572B4100**    **572B4100****Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

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**572B4101**    **572B4101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152

---

**572B4110**    **572B4110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145

---

**572B4150**    **572B4150****Explanation:** I/O adapter detected PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**572B4160**    **572B4160****Explanation:** I/O adapter detected and recovered a PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**572B8008      572B8008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572B8009      572B8009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

**572B8100      572B8100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572B8130      572B8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572B8140      572B8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572B8141      572B8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

572B8146      572B8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

572B8150      572B8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

572B8151    572B8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572B8155    572B8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572B8156    572B8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572B8157    572B8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 572B8300 • 572B8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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572B8300    572B8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

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572B8301    572B8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572B8302    572B8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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572B8400    572B8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 572B8404 • 572B9021

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572B8404    572B8404

**Explanation:** System log entry only. No service action required.

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572B9000    572B9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

**692** System reference codes (1xxx - Axxx)

- FI01105
- STORIOA

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572B9001    572B9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

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572B9002    572B9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

572B9008    572B9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

572B9010    572B9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

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572B9011    572B9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

572B9020    572B9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

572B9021    572B9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

572B9022    572B9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

572B9023    572B9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

572B9024    572B9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

572B9025    572B9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

572B9026    572B9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572B9027    572B9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

---

572B9028    572B9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572B9029    572B9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572B9030    572B9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

572B9031    572B9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572B9032    572B9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572B9040    572B9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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## 572B9041 • 572B9081

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572B9041 572B9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572B9042 572B9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572B9050 572B9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

572B9051 572B9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

572B9052 572B9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572B9054 572B9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

572B9070 572B9070

**Explanation:** System log entry only. No service action required.

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572B9071 572B9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

572B9072 572B9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

572B9073 572B9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

572B9074 572B9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

572B9075 572B9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

572B9076 572B9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

572B9081 572B9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572B9082    572B9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572B9083    572B9083

**Explanation:** System log entry only. No service action required.

---

572B9084    572B9084

**Explanation:** System log entry only. No service action required.

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572B9090 572B9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

572B9091 572B9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

572B9092 572B9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

572B9500 572B9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

572B9903 572B9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

572BC000 572BC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

572BC402 572BC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

572BFF3D 572BFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (572C) Reference codes

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572C1310    572C1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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572C3000    572C3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

572C3020    572C3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

572C3100    572C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

572C3140    572C3140

**Explanation:** System log entry only. No service action required.

---

572C3202    572C3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

572C3400    572C3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

572C3401    572C3401

## 572C3405 • 572C4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 572C3405 572C3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 572C34FF 572C34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

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### 572C3601 572C3601

**Explanation:** System log entry only. No service action required.

---

### 572C4010 572C4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

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### 572C4020 572C4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572C4030 572C4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572C4040 572C4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572C4041 572C4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572C4050 572C4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 572C4060 572C4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572C4061 572C4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572C4070 572C4070

**Explanation:** System log entry only. No service action required.

---

**572C4100**    **572C4100****Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

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**572C4101**    **572C4101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152

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**572C4110**    **572C4110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145

---

**572C4150**    **572C4150****Explanation:** I/O adapter detected PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**572C4160**    **572C4160****Explanation:** I/O adapter detected and recovered a PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**572C8008    572C8008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572C8009    572C8009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

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**572C8100    572C8100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8130    572C8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

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572C8140    572C8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572C8141    572C8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

572C8146    572C8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

572C8150    572C8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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572C8151    572C8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8155    572C8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8156    572C8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572C8157    572C8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 572C8300 • 572C8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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572C8300    572C8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

---

572C8301    572C8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572C8302    572C8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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572C8400    572C8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

## 572C8404 • 572C9021

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572C8404 572C8404

**Explanation:** System log entry only. No service action required.

---

572C9000 572C9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

**708** System reference codes (1xxx - Axxx)

- FI01105
- STORIOA

---

572C9001 572C9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

572C9002 572C9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

572C9008 572C9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

572C9010 572C9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

572C9011 572C9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

572C9020 572C9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

572C9021 572C9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

572C9022    572C9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

572C9023    572C9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

572C9024    572C9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

572C9025    572C9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

572C9026    572C9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572C9027    572C9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

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572C9028    572C9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572C9029    572C9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572C9030    572C9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

572C9031    572C9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572C9032    572C9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572C9040    572C9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

---

572C9041 572C9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

## 572C9042 572C9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

## 572C9050 572C9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

## 572C9051 572C9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

## 572C9052 572C9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

## 572C9054 572C9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

## 572C9070 572C9070

**Explanation:** System log entry only. No service action required.

---

572C9071 572C9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

## 572C9072 572C9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

## 572C9073 572C9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

## 572C9074 572C9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

## 572C9075 572C9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

## 572C9076 572C9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

## 572C9081 572C9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572C9082    572C9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572C9083    572C9083

**Explanation:** System log entry only. No service action required.

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572C9084    572C9084

**Explanation:** System log entry only. No service action required.

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 572C9090    572C9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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 572C9091    572C9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 572C9092    572C9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

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 572C9500    572C9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

 572C9903    572C9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 572CC000    572CC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 572CC402    572CC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

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 572CFF3D    572CFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (572F) Reference codes

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572F1310    572F1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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572F3000    572F3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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572F3020    572F3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

572F3100    572F3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

572F3140    572F3140

**Explanation:** System log entry only. No service action required.

---

572F3202    572F3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

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572F3400    572F3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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572F3401    572F3401

## 572F3405 • 572F4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 572F3405 572F3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

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### 572F34FF 572F34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 572F3601 572F3601

**Explanation:** System log entry only. No service action required.

---

### 572F4010 572F4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 572F4020 572F4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 572F4030 572F4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 572F4040 572F4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 572F4041 572F4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 572F4050 572F4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 572F4060 572F4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 572F4061 572F4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 572F4070 572F4070

**Explanation:** System log entry only. No service action required.

---

**572F4100**    **572F4100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**572F4101**    **572F4101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152
- 

**572F4110**    **572F4110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145
- 

**572F4150**    **572F4150****Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**572F4160**    **572F4160****Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**572F8008      572F8008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**572F8009      572F8009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

**572F8100      572F8100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

572F8130      572F8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572F8140      572F8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

572F8141      572F8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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572F8146      572F8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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572F8150      572F8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

572F8151    572F8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572F8155    572F8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572F8156    572F8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572F8157    572F8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 572F8300 • 572F8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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572F8300      572F8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

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572F8301      572F8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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572F8302    572F8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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572F8400    572F8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 572F8404 • 572F9021

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572F8404    572F8404

**Explanation:** System log entry only. No service action required.

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572F9000    572F9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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572F9001    572F9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

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572F9002    572F9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

572F9008    572F9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

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572F9010    572F9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

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572F9011    572F9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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572F9020    572F9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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572F9021    572F9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

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572F9022    572F9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

572F9023    572F9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

572F9024    572F9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

572F9025    572F9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

572F9026    572F9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

572F9027    572F9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

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572F9028    572F9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

572F9029    572F9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572F9030    572F9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

572F9031    572F9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

572F9032    572F9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

572F9040    572F9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

## 572F9041 • 572F9081

---

572F9041    572F9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572F9042    572F9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

572F9050    572F9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

572F9051    572F9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

572F9052    572F9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

572F9054    572F9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

572F9070    572F9070

**Explanation:** System log entry only. No service action required.

---

572F9071    572F9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

572F9072    572F9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

572F9073    572F9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

572F9074    572F9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

572F9075    572F9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

572F9076    572F9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

572F9081    572F9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

572F9082    572F9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

572F9083    572F9083

**Explanation:** System log entry only. No service action required.

---

572F9084    572F9084

**Explanation:** System log entry only. No service action required.

---

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 572F9090    572F9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 572F9091    572F9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 572F9092    572F9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

 572F9500    572F9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

 572F9903    572F9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 572FC000    572FC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 572FC402    572FC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

 572FFF3D    572FFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (573A) Reference codes

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573AA001 573AA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

573AB9B0 573AB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



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## (573B) Reference codes

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573BA6D9 573BA6D9

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - FI00722
  - AJDG301
- 

573BA6E3 573BA6E3

**Explanation:** Ethernet adapter or network device cabling error.

**Failing Item:**

- FI00722
  - UJE40
  - IOA
- 

573BB100 573BB100

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - AJDG301
- 

573BB200 573BB200

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- AJDG301
  - IOA
- 

573BB300 573BB300

**Explanation:** An I/O adapter hardware error was detected.

**Response:** Work the Failing Item list from the serviceable event view if it is available, otherwise use this Failing Item list.

**Problem determination:** Varying off and then varying on the resource may resolve the problem. If that does not resolve the problem then have the service provider work the problem.

**Failing Item:**

- IOA
- AJDG301



---

## (573C) Reference codes

---

573CA6D9 573CA6D9

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - FI00722
  - AJDG301
- 

573CA6E3 573CA6E3

**Explanation:** Ethernet adapter or network device cabling error.

**Failing Item:**

- FI00722
  - UJE40
  - IOA
- 

573CB100 573CB100

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
  - AJDG301
- 

573CB200 573CB200

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- AJDG301
  - IOA
- 

573CB300 573CB300

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (573D) Reference codes

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573D1310 573D1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

573D3000 573D3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

573D3006 573D3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

573D3020 573D3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573D3021 573D3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573D3022 573D3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573D3023 573D3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573D3100 573D3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

573D3101 573D3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

573D3102 573D3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 573D3103 • 573D3200

- STORIOA
- FI01140
- DEVBPLN

---

573D3103    573D3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

573D3120    573D3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573D3121    573D3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573D3122    573D3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573D3123    573D3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573D3140    573D3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

573D3141    573D3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

573D3142    573D3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

573D3143    573D3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

573D3150    573D3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

573D3151    573D3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

573D3200    573D3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA



---

573D3202 573D3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

## 573D3400 573D3400

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

## 573D3401 573D3401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

## 573D3405 573D3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

## 573D34FF 573D34FF

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

573D3501 573D3501

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

## 573D3601 573D3601

**Explanation:** System log entry only. No service action required.

---

573D4150 573D4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

573D4160    573D4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

573D8008    573D8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- STORIOA

573D8009    573D8009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

573D8100    573D8100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

573D8130    573D8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

573D8131 573D8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

573D8132 573D8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

573D8133 573D8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

573D8140 573D8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

573D8141 573D8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

573D8145 573D8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

573D8146 573D8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

573D8150 573D8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

573D8151 573D8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

573D8155 573D8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

573D8156 573D8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

573D8157 573D8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 573D8300 • 573D9020

- SVCDOCS

---

573D8300 573D8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

573D8301 573D8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

573D8302 573D8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

573D8400 573D8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

573D8404 573D8404

**Explanation:** System log entry only. No service action required.

---

573D9000 573D9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

573D9001 573D9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

573D9002 573D9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

573D9008 573D9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

573D9009 573D9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

573D9010 573D9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

573D9011 573D9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

573D9020 573D9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20

---

573D9021    573D9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

573D9022    573D9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573D9023    573D9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573D9024    573D9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573D9025    573D9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

573D9026    573D9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

573D9027    573D9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

573D9028    573D9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

573D9029    573D9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573D902F    573D902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

573D9030    573D9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

573D9031    573D9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

 573D9032 573D9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
- IOPIP21

---

 573D9040 573D9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

 573D9041 573D9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH

---

 573D9042 573D9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

 573D9050 573D9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30

---

 573D9051 573D9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27

---

 573D9052 573D9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 573D9053 573D9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

 573D9054 573D9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS

---

 573D9071 573D9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

 573D9072 573D9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

573D9073    573D9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

573D9081    573D9081

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

573D9082    573D9082

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

573D9090    573D9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573D9091    573D9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

573D9092    573D9092

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

573D9500    573D9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

573D9902    573D9902

**Explanation:** System log entry only. No service action required.

---

573D9903    573D9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

573DC000    573DC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

573DC100    573DC100

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

573DC402    573DC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

573DFF3D    573DFF3D

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 573DFF6D

---

573DFF6D 573DFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH



---

## (573E) Reference codes

---

573E1310 573E1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

573E3000 573E3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

573E3006 573E3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

573E3020 573E3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573E3021 573E3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573E3022 573E3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573E3023 573E3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

573E3100 573E3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

573E3101 573E3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

573E3102 573E3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 573E3103 • 573E3200

- STORIOA
- FI01140
- DEVBPLN

---

573E3103    573E3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

573E3120    573E3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573E3121    573E3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573E3122    573E3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573E3123    573E3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

573E3140    573E3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

573E3141    573E3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

573E3142    573E3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

573E3143    573E3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

573E3150    573E3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

573E3151    573E3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

573E3200    573E3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

 573E3202    573E3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

573E3400    573E3400

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

573E3401    573E3401

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

573E3405    573E3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

573E34FF    573E34FF

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

 573E3501    573E3501

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

573E3601    573E3601

**Explanation:** System log entry only. No service action required.

---

573E4150    573E4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 573E4160 • 573E8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

573E4160    573E4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

573E8008    573E8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

573E8009    573E8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

573E8100    573E8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

573E8130    573E8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

573E8131 573E8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

573E8132 573E8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

573E8133 573E8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

573E8140 573E8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

573E8141 573E8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

573E8145 573E8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

573E8146 573E8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

573E8150 573E8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

573E8151 573E8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

573E8155 573E8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

573E8156 573E8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

573E8157 573E8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 573E8300 • 573E9020

- SVCDOCS

---

573E8300 573E8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

573E8301 573E8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

573E8302 573E8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

573E8400 573E8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

573E8404 573E8404

**Explanation:** System log entry only. No service action required.

---

573E9000 573E9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

573E9001 573E9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

573E9002 573E9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

573E9008 573E9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

573E9009 573E9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

573E9010 573E9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

573E9011 573E9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

573E9020 573E9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20

---

573E9021    573E9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

573E9022    573E9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573E9023    573E9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573E9024    573E9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

573E9025    573E9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

573E9026    573E9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

573E9027    573E9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

573E9028    573E9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

573E9029    573E9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573E902F    573E902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

573E9030    573E9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

573E9031    573E9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

 573E9032    573E9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

573E9040    573E9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

573E9041    573E9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

573E9042    573E9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

573E9050    573E9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30
- 

573E9051    573E9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

---

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

573E9052    573E9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573E9053    573E9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

573E9054    573E9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

573E9071    573E9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

573E9072    573E9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---



---

 573E9073    573E9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

573E9081    573E9081

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

573E9082    573E9082

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

573E9090    573E9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

573E9091    573E9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

---

 573E9092    573E9092

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

573E9500    573E9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

573E9902    573E9902

**Explanation:** System log entry only. No service action required.

---

 573E9903    573E9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 573EC000    573EC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 573EC100    573EC100

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 573EC402    573EC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
- 

573EFF3D    573EFF3D

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
  - ANYBRDG
-

## 573EFF6D

---

573EFF6D 573EFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## (5746) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

57463000      57463000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

57463202      57463202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

57463400      57463400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

57469020      57469020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

57469100      57469100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

57469101      57469101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

57469102      57469102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

57469103      57469103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

57469200      57469200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

57469201      57469201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

57469202      57469202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

57469210      57469210

**Explanation:** Illegal or unsupported tape unit response

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

57469211      57469211

**Explanation:** Gateway device detected a bus protocol error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

57469220      57469220

**Explanation:** Hardware configuration change detected

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

57469300      57469300

**Explanation:** Tape unit failure

**Failing Item:**

- FI00871

---

57469301      57469301

**Explanation:** Tape device failure, redundancy lost

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

57469302      57469302

**Explanation:** Tape device failure or media error

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

57469303      57469303

**Explanation:** Gateway device failure

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

57469304      57469304

**Explanation:** Tape unit failure

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

57469310      57469310

**Explanation:** Licensed Internal Code for the tape unit is not correct

**Failing Item:**

- PTFSRCH
- FI00871

---

 57469320    57469320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

57469321    57469321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

57469350    57469350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

57469351    57469351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

57469355    57469355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

57469500    57469500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

57469501    57469501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

57469800    57469800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57469801    57469801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57469802    57469802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57469803    57469803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

57469804      57469804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57469805      57469805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57469810      57469810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

57469899      57469899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

57469900      57469900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

57469901      57469901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

57469902      57469902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

57469903      57469903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

5746FFF6      5746FFF6

**Explanation:** Tape volume statistics logged (no action required)





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## (574E) Reference codes

---

574E1310    574E1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

574E3000    574E3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

574E3020    574E3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

574E3100    574E3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

574E3140    574E3140

**Explanation:** System log entry only. No service action required.

---

574E3202    574E3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

574E3400    574E3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

574E3401    574E3401

## 574E3405 • 574E4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 574E3405 574E3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 574E34FF 574E34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 574E3601 574E3601

**Explanation:** System log entry only. No service action required.

---

### 574E4010 574E4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 574E4020 574E4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 574E4030 574E4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 574E4040 574E4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 574E4041 574E4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 574E4050 574E4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 574E4060 574E4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 574E4061 574E4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 574E4070 574E4070

**Explanation:** System log entry only. No service action required.

---

**574E4100**    **574E4100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**574E4101**    **574E4101**
**Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152

---

**574E4110**    **574E4110**
**Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145

---

**574E4150**    **574E4150**
**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**574E4160**    **574E4160**
**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**574E8008    574E8008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**574E8009    574E8009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

**574E8100    574E8100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

574E8130    574E8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

574E8140    574E8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

574E8141    574E8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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574E8146    574E8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

574E8150    574E8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

574E8151    574E8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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574E8155    574E8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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574E8156    574E8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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574E8157    574E8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 574E8300 • 574E8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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574E8300    574E8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

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574E8301    574E8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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574E8302    574E8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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574E8400    574E8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 574E8404 • 574E9021

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574E8404    574E8404

**Explanation:** System log entry only. No service action required.

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574E9000    574E9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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574E9001    574E9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

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574E9002    574E9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

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574E9008    574E9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

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574E9010    574E9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

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574E9011    574E9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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574E9020    574E9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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574E9021    574E9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

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574E9022    574E9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

574E9023    574E9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

574E9024    574E9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

574E9025    574E9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

574E9026    574E9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

574E9027    574E9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

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574E9028    574E9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

574E9029    574E9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

574E9030    574E9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

574E9031    574E9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

574E9032    574E9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

574E9040    574E9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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## 574E9041 • 574E9081

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574E9041 574E9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

574E9042 574E9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

574E9050 574E9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

574E9051 574E9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

574E9052 574E9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

574E9054 574E9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

574E9070 574E9070

**Explanation:** System log entry only. No service action required.

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574E9071 574E9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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574E9072 574E9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

574E9073 574E9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

574E9074 574E9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

574E9075 574E9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

574E9076 574E9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

574E9081 574E9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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574E9082    574E9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

574E9083    574E9083

**Explanation:** System log entry only. No service action required.

---

574E9084    574E9084

**Explanation:** System log entry only. No service action required.

---

---

 574E9090    574E9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 574E9091    574E9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 574E9092    574E9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

 574E9500    574E9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

 574E9903    574E9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 574EC000    574EC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

 574EC402    574EC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

 574EFF3D    574EFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





---

## (574F) Reference codes

---

574F1310    574F1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

574F3006    574F3006

**Explanation:** System bus error

**Response:**

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

574F3100    574F3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

574F3101    574F3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

574F3400    574F3400

**Explanation:** SCSI resource error

**Response:**

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

574F6075    574F6075

**Explanation:** I/O processor resource not available

**Response:**

**Failing Item:**

- PTFSRCH
- 

574F8008    574F8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

574F8009    574F8009

**Explanation:** Impending cache battery pack failure

**Response:**

**Failing Item:**

- CACHBAT
- 

574F8130    574F8130

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

574F8131    574F8131

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

574F8140    574F8140

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** No action is required. This reference code is logged for information only.

---

574F8141    574F8141

**Explanation:** IOA detected recoverable SCSI resource error

## 574F8145 • 574F9055

**Response:** No action is required. This reference code is logged for information only.

---

574F8145    574F8145

**Explanation:** A recoverable error occurred

**Response:**

**Failing Item:**

- AUXIOA

---

574F8150    574F8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

574F8151    574F8151

**Explanation:** Licensed Internal Code error

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

574F8155    574F8155

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

574F8156    574F8156

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

574F8157    574F8157

**Explanation:** I/O adapter card temporary error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

574F8300    574F8300

**Explanation:** IOA hardware or PCI bus error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

574F8301    574F8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

574F8302    574F8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

---

574F9055    574F9055

**Explanation:** Write cache data is available for attached storage IOA

**Response:** No service action required.

---

574F9071    574F9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

574F9072    574F9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

574F9073    574F9073

**Explanation:** Disconnected, incompatible, or non-operational storage IOA

**Response:**

**Failing Item:**

- IOPIP41
- 

574FFF3D    574FFF3D

**Explanation:** I/O adapter detected recoverable error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (5755) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

57553000      57553000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

57553202      57553202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

57553400      57553400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

57559020      57559020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

57559100      57559100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

57559101      57559101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

57559102      57559102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

57559103      57559103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

57559200      57559200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

57559201      57559201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

57559202      57559202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

57559210      57559210

**Explanation:** Illegal or unsupported tape unit response

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

57559211      57559211

**Explanation:** Gateway device detected a bus protocol error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

57559220      57559220

**Explanation:** Hardware configuration change detected

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

57559300      57559300

**Explanation:** Tape unit failure

**Failing Item:**

- FI00871

---

57559301      57559301

**Explanation:** Tape device failure, redundancy lost

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

57559302      57559302

**Explanation:** Tape device failure or media error

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

57559303      57559303

**Explanation:** Gateway device failure

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

57559304      57559304

**Explanation:** Tape unit failure

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

57559310      57559310

**Explanation:** Licensed Internal Code for the tape unit is not correct

**Failing Item:**

- PTFSRCH
- FI00871

---

 57559320    57559320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

57559321    57559321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

57559350    57559350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

57559351    57559351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

57559355    57559355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

57559500    57559500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

57559501    57559501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

57559800    57559800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57559801    57559801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57559802    57559802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57559803    57559803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

57559804      57559804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57559805      57559805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

57559810      57559810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

57559899      57559899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

57559900      57559900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

57559901      57559901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

57559902      57559902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

57559903      57559903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

5755FFF6      5755FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (575B) Reference codes

---

575B1310 575B1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

575B3006 575B3006

**Explanation:** System bus error

**Response:**

**Failing Item:**

- AUXIOA
  - ANYBRDG
  - IOP
- 

575B3100 575B3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

575B3101 575B3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- AUXCBL
  - AUXIOA
  - PRIMIOA
- 

575B3400 575B3400

**Explanation:** SCSI resource error

**Response:**

**Failing Item:**

- AUXCBL
  - PRIMIOA
- 

575B6075 575B6075

**Explanation:** I/O processor resource not available

**Response:**

**Failing Item:**

- PTFSRCH
- 

575B8008 575B8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
  - AUXIOA
- 

575B8009 575B8009

**Explanation:** Impending cache battery pack failure

**Response:**

**Failing Item:**

- CACHBAT
- 

575B8130 575B8130

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 0. No action is required. This reference code is logged for information only.

---

575B8131 575B8131

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

575B8140 575B8140

**Explanation:** IOA detected recoverable SCSI bus error

**Response:** No action is required. This reference code is logged for information only.

---

575B8141 575B8141

**Explanation:** IOA detected recoverable SCSI resource error

## 575B8145 • 575B9055

**Response:** No action is required. This reference code is logged for information only.

---

575B8145    575B8145

**Explanation:** A recoverable error occurred

**Response:**

**Failing Item:**

- AUXIOA

---

575B8150    575B8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

575B8151    575B8151

**Explanation:** Licensed Internal Code error

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575B8155    575B8155

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575B8156    575B8156

**Explanation:** A permanent failure occurred

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575B8157    575B8157

**Explanation:** I/O adapter card temporary error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O Processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.

2. If disk units are not attached, perform the VRYCFG RESET(\*YES) command to reset the IOP and Vary On attached resources.

**Failing Item:**

- SVCDOCS

---

575B8300    575B8300

**Explanation:** IOA hardware or PCI bus error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

575B8301    575B8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:**

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575B8302    575B8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- AUXIOA

---

575B9055    575B9055

**Explanation:** Write cache data is available for attached storage IOA

**Response:** No service action required.

---

575B9071    575B9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

575B9072    575B9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

575B9073    575B9073

**Explanation:** Disconnected, incompatible, or non-operational storage IOA

**Response:**

**Failing Item:**

- IOPIP41

---

575BFF3D    575BFF3D

**Explanation:** I/O adapter detected recoverable error

**Response:**

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (575C) Reference codes

---

575C1310 575C1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

575C3100 575C3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- AUXIOA
- PRIMIOA
- BACKPLN

---

575C3400 575C3400

**Explanation:** Unknown resource error

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

575C4101 575C4101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

---

575C4150 575C4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- AUXIOA

---

575C4160 575C4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- AUXIOA

---

575C8008 575C8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- AUXIOA

---

575C8009 575C8009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

575C8100 575C8100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575C8130 575C8130

**Explanation:** I/O adapter detected recoverable bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

575C8140 575C8140

## 575C8150 • 575C9072

**Explanation:** I/O adapter detected recoverable bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

575C8150    575C8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

575C8151    575C8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575C8155    575C8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575C8156    575C8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575C8157    575C8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates

SVCDPCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter.

**Failing Item:**

- SVCDPCS

---

575C8300    575C8300

**Explanation:** IOA hardware or PCI bus error

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

575C8301    575C8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- AUXIOA

---

575C8302    575C8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDPCS
- AUXIOA

---

575C9055    575C9055

**Explanation:** Write cache data is available for attached storage IOA

**Response:** No service action required.

---

575C9071    575C9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

575C9072    575C9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.



---

575C9073 575C9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

---

575C9076 575C9076

**Explanation:** Missing remote I/O adapter

**Failing Item:**

- SIP3147
- PRIMIOA
- AUXIOA
- BACKPLN

---

575CFF3D 575CFF3D

**Explanation:** I/O adapter detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- AUXIOA
- ANYBRDG



---

## (5767) Reference codes

---

5767A001 5767A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01

---

5767B9B0 5767B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDGP01



---

## (5768) Reference codes

---

5768A001 5768A001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01

---

5768B9B0 5768B9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDGP01



---

## (576A) Reference codes

---

576AA001 576AA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301

---

576AB9B0 576AB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301





---

## (576B) Reference codes

---

576B3020    576B3020

**Explanation:** Configuration error on port 0

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

576B3021    576B3021

**Explanation:** Configuration error on port 1

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

576B3100    576B3100

**Explanation:** Interface error on port 0

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

576B3101    576B3101

**Explanation:** Interface error on port 1

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

576B3120    576B3120

**Explanation:** A port failure was detected on port 0

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

576B3121    576B3121

**Explanation:** A port failure was detected on port 1

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

576B3140    576B3140

**Explanation:** Port 0 is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

576B3141    576B3141

**Explanation:** Port 1 is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

576B3400    576B3400

**Explanation:** Device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

576B3405    576B3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

## 576B34FF • 576BB402

- PTFSRCH

---

576B34FF 576B34FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

576B4150 576B4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

576B8100 576B8100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- FCIOA

---

576B8130 576B8130

**Explanation:** Recovered Fibre Channel interface error on port 0

**Response:** No action required. This reference code is logged for information only.

---

576B8131 576B8131

**Explanation:** Recovered Fibre Channel interface error on port 1

**Response:** No action required. This reference code is logged for information only.

---

576B8150 576B8150

**Explanation:** A permanent I/O adapter failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

576B8300 576B8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

576B8301 576B8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

576B8302 576B8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

576B9500 576B9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

576B9903 576B9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

576BB000 576BB000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

576BB402 576BB402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

---

576BC000 576BC000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

576BC402 576BC402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH



---

## (576C) Reference codes

---

576CA001 576CA001

**Explanation:** Communications I/O adapter software error or failure configuring hardware.

**Failing Item:**

- NEXTLVL

---

576CB940 576CB940

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- AJDGP01
- MA\_BRDG

---

576CB941 576CB941

**Explanation:** One of the ports on the IOA has failed.

**Failing Item:**

- FI00719
- AJDGP01



---

## (576D) Reference codes

---

576DA001 576DA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

576DB9B0 576DB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301





---

## (576E) Reference codes

---

576EA001 576EA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDG301
- 

576EB9B0 576EB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- IOA
- AJDG301



---

## (576F) Reference codes

---

576FA001 576FA001

**Explanation:** I/O adapter Licensed Internal Code error detected

**Failing Item:**

- AJDGP01
- 

576FB9A0 576FB9A0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
  - FI00718
  - AJDGP01
  - MA\_BRDG
- 

576FB9B0 576FB9B0

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI00719
- AJDG301
- MA\_BRDG



---

## (5774) Reference codes

---

57743020    57743020

**Explanation:** Configuration error on port 0

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57743021    57743021

**Explanation:** Configuration error on port 1

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57743100    57743100

**Explanation:** Interface error on port 0

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743101    57743101

**Explanation:** Interface error on port 1

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743120    57743120

**Explanation:** A port failure was detected on port 0

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57743121    57743121

**Explanation:** A port failure was detected on port 1

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57743140    57743140

**Explanation:** Port 0 is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

57743141    57743141

**Explanation:** Port 1 is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

57743400    57743400

**Explanation:** Device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57743405    57743405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

## 577434FF • 5774B402

- PTFSRCH

---

577434FF    577434FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

57744150    57744150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

57748100    57748100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- FCIOA

---

57748130    57748130

**Explanation:** Recovered Fibre Channel interface error on port 0

**Response:** No action required. This reference code is logged for information only.

---

57748131    57748131

**Explanation:** Recovered Fibre Channel interface error on port 1

**Response:** No action required. This reference code is logged for information only.

---

57748150    57748150

**Explanation:** A permanent I/O adapter failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

57748300    57748300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

57748301    57748301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

57748302    57748302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

57749500    57749500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57749903    57749903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

5774B000    5774B000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

5774B402    5774B402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

---

5774C000    5774C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

5774C402    5774C402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH





---

## (577D) Reference codes

---

577D3020 577D3020

**Explanation:** Configuration error on port 0

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

577D3021 577D3021

**Explanation:** Configuration error on port 1

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

577D3100 577D3100

**Explanation:** Interface error on port 0

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

577D3101 577D3101

**Explanation:** Interface error on port 1

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

577D3120 577D3120

**Explanation:** A port failure was detected on port 0

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

577D3121 577D3121

**Explanation:** A port failure was detected on port 1

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

577D3140 577D3140

**Explanation:** Port 0 is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

577D3141 577D3141

**Explanation:** Port 1 is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

577D3400 577D3400

**Explanation:** Device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

577D3405 577D3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

## 577D34FF • 577DB402

- PTFSRCH

---

577D34FF 577D34FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

577D4150 577D4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

577D8100 577D8100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- FCIOA

---

577D8130 577D8130

**Explanation:** Recovered Fibre Channel interface error on port 0

**Response:** No action required. This reference code is logged for information only.

---

577D8131 577D8131

**Explanation:** Recovered Fibre Channel interface error on port 1

**Response:** No action required. This reference code is logged for information only.

---

577D8150 577D8150

**Explanation:** A permanent I/O adapter failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

577D8300 577D8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

577D8301 577D8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

577D8302 577D8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

577D9500 577D9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

577D9903 577D9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

577DB000 577DB000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

577DB402 577DB402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

---

577DC000 577DC000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

577DC402 577DC402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH



---

## (57B1) Reference codes

---

57B11310    57B11310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57B13000    57B13000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B13020    57B13020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57B13100    57B13100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B13140    57B13140

**Explanation:** System log entry only. No service action required.

---

57B13202    57B13202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57B13400    57B13400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57B13401    57B13401

## 57B13405 • 57B14070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B13405 57B13405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B134FF 57B134FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57B13601 57B13601

**Explanation:** System log entry only. No service action required.

---

### 57B14010 57B14010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B14020 57B14020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

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### 57B14030 57B14030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

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### 57B14040 57B14040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

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### 57B14041 57B14041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

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### 57B14050 57B14050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B14060 57B14060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57B14061 57B14061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B14070 57B14070

**Explanation:** System log entry only. No service action required.

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**57B14080**    **57B14080**

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295
- 

**57B14085**    **57B14085**

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL
- 

**57B14100**    **57B14100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57B14101**    **57B14101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152
- 

**57B14110**    **57B14110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145
- 

**57B14120**    **57B14120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL

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**57B14121**    **57B14121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B14123**    **57B14123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B14150**    **57B14150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

## 57B14160 • 57B18008

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57B14160 57B14160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57B18008 57B18008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.



See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

57B18009    57B18009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

57B18100    57B18100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list

here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57B18130    57B18130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

## 57B18140 • 57B18151

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57B18140    57B18140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

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57B18141    57B18141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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57B18146    57B18146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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57B18150    57B18150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57B18151    57B18151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**57B18155    57B18155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**57B18156    57B18156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

## 57B18157 • 57B18300

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57B18157    57B18157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 57B18300    57B18300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57B18301    57B18301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57B18302    57B18302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

## 57B18400 • 57B19001

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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57B18400    57B18400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

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57B18404    57B18404

**Explanation:** System log entry only. No service action required.

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57B19000    57B19000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57B19001    57B19001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL
-

---

57B19002    57B19002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL
- 

57B19008    57B19008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130
- 

57B19010    57B19010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120
- 

57B19011    57B19011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL
- 

57B19020    57B19020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B19021    57B19021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B19022    57B19022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B19023    57B19023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

57B19024    57B19024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

57B19025    57B19025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B19026    57B19026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57B19027    57B19027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

57B19028    57B19028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57B19029    57B19029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**57B19030**    **57B19030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B19031**    **57B19031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57B19032**    **57B19032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B19040**    **57B19040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

**57B19041**    **57B19041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

**57B19042**    **57B19042**

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

---

**57B19050**    **57B19050**

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

**57B19051**    **57B19051**

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

**57B19052**    **57B19052**

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B19054**    **57B19054**

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

**57B19070**    **57B19070**

**Explanation:** System log entry only. No service action required.

---

**57B19071**    **57B19071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

**57B19072**    **57B19072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

**57B19073**    **57B19073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
-



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**57B19074**    **57B19074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B19075**    **57B19075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

**57B19076**    **57B19076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

**57B19081**    **57B19081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B19082**    **57B19082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57B19083 • 57B1FF3D

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 57B19083 57B19083

**Explanation:** System log entry only. No service action required.

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### 57B19084 57B19084

**Explanation:** System log entry only. No service action required.

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### 57B19090 57B19090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57B19091 57B19091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57B19092 57B19092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

---

### 57B19500 57B19500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 57B19903 57B19903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B1C000 57B1C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57B1C402 57B1C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

### Failing Item:

- PTFSRCH

---

### 57B1FF3D 57B1FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57B2) Reference codes

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57B21310    57B21310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57B23000    57B23000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B23020    57B23020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57B23100    57B23100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B23140    57B23140

**Explanation:** System log entry only. No service action required.

---

57B23202    57B23202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57B23400    57B23400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57B23401    57B23401

## 57B23405 • 57B24070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B23405 57B23405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B234FF 57B234FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57B23601 57B23601

**Explanation:** System log entry only. No service action required.

---

### 57B24010 57B24010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B24020 57B24020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B24030 57B24030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B24040 57B24040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B24041 57B24041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B24050 57B24050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B24060 57B24060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B24061 57B24061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B24070 57B24070

**Explanation:** System log entry only. No service action required.

---

57B24080    57B24080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

57B24085    57B24085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

57B24100    57B24100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

57B24101    57B24101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

---

57B24110    57B24110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

57B24123    57B24123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

---

57B24150    57B24150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 57B24160 • 57B28008

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57B24160    57B24160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57B28008    57B28008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.



Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

57B28009    57B28009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

57B28100    57B28100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57B28130    57B28130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57B28140    57B28140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57B28141    57B28141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

 57B28146    57B28146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

57B28150    57B28150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

57B28151    57B28151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B28155    57B28155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57B28156    57B28156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

## 57B28157 • 57B28300

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57B28157    57B28157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 57B28300    57B28300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57B28301      57B28301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57B28302      57B28302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57B28400 • 57B29010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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57B28400    57B28400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

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57B28404    57B28404

**Explanation:** System log entry only. No service action required.

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57B29000    57B29000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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57B29001    57B29001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

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57B29002    57B29002

**Explanation:** Device error

### Failing Item:

- NEXTLVL

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57B29008    57B29008

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

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57B29010    57B29010

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:

- SIP3120

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**57B29011**    **57B29011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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**57B29020**    **57B29020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B29021**    **57B29021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B29022**    **57B29022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B29023**    **57B29023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

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**57B29024**    **57B29024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

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**57B29025**    **57B29025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

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**57B29026**    **57B29026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**57B29027**    **57B29027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

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**57B29028**    **57B29028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**57B29029**    **57B29029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**57B29030**    **57B29030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

**57B29031**    **57B29031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57B29032 57B29032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B29040 57B29040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57B29041 57B29041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B29042 57B29042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B29050 57B29050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57B29051 57B29051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57B29052 57B29052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B29054 57B29054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57B29070 57B29070

**Explanation:** System log entry only. No service action required.

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57B29071 57B29071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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57B29072 57B29072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

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57B29073 57B29073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

57B29074 57B29074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

57B29075 57B29075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
-



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 57B29076    57B29076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147

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 57B29081    57B29081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

 57B29082    57B29082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 57B29083 • 57B2FF3D

- FI01105
- STORIOA

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### 57B29083 57B29083

**Explanation:** System log entry only. No service action required.

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### 57B29084 57B29084

**Explanation:** System log entry only. No service action required.

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### 57B29090 57B29090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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### 57B29091 57B29091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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### 57B29092 57B29092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

### 57B29500 57B29500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

### 57B29903 57B29903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B2C000 57B2C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57B2C402 57B2C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

### 57B2FF3D 57B2FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57B3) Reference codes

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57B31310    57B31310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57B33000    57B33000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B33020    57B33020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57B33100    57B33100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B33140    57B33140

**Explanation:** System log entry only. No service action required.

---

57B33202    57B33202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57B33400    57B33400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57B33401    57B33401

## 57B33405 • 57B34070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B33405 57B33405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B334FF 57B334FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57B33601 57B33601

**Explanation:** System log entry only. No service action required.

---

### 57B34010 57B34010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B34020 57B34020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B34030 57B34030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B34040 57B34040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B34041 57B34041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B34050 57B34050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B34060 57B34060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57B34061 57B34061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B34070 57B34070

**Explanation:** System log entry only. No service action required.

---

**57B34100**    **57B34100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57B34101**    **57B34101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152
- 

**57B34110**    **57B34110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145
- 

**57B34150**    **57B34150****Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57B34160**    **57B34160****Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

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**57B38008    57B38008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57B38009    57B38009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

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**57B38100    57B38100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for



embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B38130      57B38130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

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**57B38140      57B38140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57B38141      57B38141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57B38146      57B38146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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**57B38150      57B38150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57B38151    57B38151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B38155    57B38155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B38156    57B38156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B38157    57B38157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57B38300 • 57B38301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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57B38300    57B38300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

---

57B38301    57B38301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list

here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B38302    57B38302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57B38400    57B38400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 57B38404 • 57B39021

---

57B38404 57B38404

**Explanation:** System log entry only. No service action required.

---

57B39000 57B39000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

**864** System reference codes (1xxx - Axxx)

- FI01105
- STORIOA

---

57B39001 57B39001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

57B39002 57B39002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

57B39008 57B39008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

57B39010 57B39010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

57B39011 57B39011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

57B39020 57B39020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57B39021 57B39021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

**57B39022**    **57B39022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

**57B39023**    **57B39023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

**57B39024**    **57B39024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

**57B39025**    **57B39025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B39026**    **57B39026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

**57B39027**    **57B39027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

---

**57B39028**    **57B39028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

**57B39029**    **57B39029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57B39030**    **57B39030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B39031**    **57B39031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57B39032**    **57B39032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57B39040**    **57B39040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

---

57B39041 57B39041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B39042 57B39042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B39050 57B39050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57B39051 57B39051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57B39052 57B39052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B39054 57B39054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57B39070 57B39070

**Explanation:** System log entry only. No service action required.

---

57B39071 57B39071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57B39072 57B39072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57B39073 57B39073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

57B39074 57B39074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

57B39075 57B39075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

57B39076 57B39076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

57B39081 57B39081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:



- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57B39082    57B39082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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57B39083    57B39083

**Explanation:** System log entry only. No service action required.

---

57B39084    57B39084

**Explanation:** System log entry only. No service action required.

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57B39090 57B39090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B39091 57B39091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B39092 57B39092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57B39500 57B39500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57B39903 57B39903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57B3C000 57B3C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57B3C402 57B3C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57B3FF3D 57B3FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57B4) Reference codes

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57B41310    57B41310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57B43000    57B43000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B43020    57B43020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57B43100    57B43100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B43140    57B43140

**Explanation:** System log entry only. No service action required.

---

57B43202    57B43202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57B43400    57B43400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57B43401    57B43401

## 57B43405 • 57B44070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B43405 57B43405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B434FF 57B434FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57B43601 57B43601

**Explanation:** System log entry only. No service action required.

---

### 57B44010 57B44010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B44020 57B44020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B44030 57B44030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B44040 57B44040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B44041 57B44041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B44050 57B44050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B44060 57B44060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57B44061 57B44061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B44070 57B44070

**Explanation:** System log entry only. No service action required.

---

57B44080    57B44080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295
- 

57B44085    57B44085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL
- 

57B44100    57B44100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

57B44101    57B44101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152
- 

57B44110    57B44110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145
- 

57B44123    57B44123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

57B44150    57B44150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 57B44160 • 57B48008

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57B44160    57B44160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57B48008    57B48008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.



Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

57B48009    57B48009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

57B48100    57B48100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57B48130    57B48130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57B48140    57B48140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57B48141    57B48141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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 57B48146    57B48146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

57B48150    57B48150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

57B48151    57B48151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B48155    57B48155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57B48156    57B48156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

## 57B48157 • 57B48300

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57B48157    57B48157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 57B48300    57B48300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57B48301      57B48301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57B48302      57B48302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57B48400 • 57B49010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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57B48400    57B48400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

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57B48404    57B48404

**Explanation:** System log entry only. No service action required.

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57B49000    57B49000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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57B49001    57B49001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL

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57B49002    57B49002

**Explanation:** Device error

### Failing Item:

- NEXTLVL

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57B49008    57B49008

**Explanation:** I/O card does not support functions expected by devices

### Failing Item:

- SIP3130

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57B49010    57B49010

**Explanation:** Cache data associated with attached devices cannot be found

### Failing Item:

- SIP3120

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**57B49011**    **57B49011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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**57B49020**    **57B49020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B49021**    **57B49021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B49022**    **57B49022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57B49023**    **57B49023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

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**57B49024**    **57B49024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

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**57B49025**    **57B49025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

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**57B49026**    **57B49026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

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**57B49027**    **57B49027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

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**57B49028**    **57B49028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

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**57B49029**    **57B49029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57B49030**    **57B49030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

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**57B49031**    **57B49031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

## 57B49032 • 57B49075

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57B49032 57B49032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

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57B49040 57B49040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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57B49041 57B49041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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57B49042 57B49042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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57B49050 57B49050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

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57B49051 57B49051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

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57B49052 57B49052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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57B49054 57B49054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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57B49070 57B49070

**Explanation:** System log entry only. No service action required.

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57B49071 57B49071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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57B49072 57B49072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57B49073 57B49073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

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57B49074 57B49074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

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57B49075 57B49075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149



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 57B49076    57B49076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147

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 57B49081    57B49081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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 57B49082    57B49082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 57B49083 • 57B4FF3D

- FI01105
- STORIOA

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57B49083    57B49083

**Explanation:** System log entry only. No service action required.

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57B49084    57B49084

**Explanation:** System log entry only. No service action required.

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57B49090    57B49090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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57B49091    57B49091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57B49092    57B49092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

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57B49500    57B49500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57B49903    57B49903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57B4C000    57B4C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57B4C402    57B4C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57B4FF3D    57B4FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57B5) Reference codes

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57B51310    57B51310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57B53000    57B53000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57B53020    57B53020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

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57B53100    57B53100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B53140    57B53140

**Explanation:** System log entry only. No service action required.

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57B53202    57B53202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

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57B53400    57B53400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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57B53401    57B53401

## 57B53405 • 57B54070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 57B53405 57B53405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B534FF 57B534FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

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### 57B53601 57B53601

**Explanation:** System log entry only. No service action required.

---

### 57B54010 57B54010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B54020 57B54020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B54030 57B54030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B54040 57B54040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

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### 57B54041 57B54041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

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### 57B54050 57B54050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B54060 57B54060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57B54061 57B54061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B54070 57B54070

**Explanation:** System log entry only. No service action required.

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**57B54080**    **57B54080**

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295
- 

**57B54085**    **57B54085**

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL
- 

**57B54100**    **57B54100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57B54101**    **57B54101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152
- 

**57B54110**    **57B54110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145
- 

**57B54120**    **57B54120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL

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**57B54121**    **57B54121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL
- 

**57B54123**    **57B54123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL
- 

**57B54150**    **57B54150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

## 57B54160 • 57B58008

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57B54160 57B54160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57B58008 57B58008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.



See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

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57B58009    57B58009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

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57B58100    57B58100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list

here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B58130    57B58130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

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**57B58140**    **57B58140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57B58141**    **57B58141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57B58146**    **57B58146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**57B58150**    **57B58150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57B58151**    **57B58151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B58155**    **57B58155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B58156**    **57B58156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

## 57B58157 • 57B58300

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 57B58157    57B58157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

### 57B58300    57B58300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

57B58301    57B58301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B58302    57B58302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

## 57B58400 • 57B59001

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

57B58400    57B58400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

---

57B58404    57B58404

**Explanation:** System log entry only. No service action required.

---

57B59000    57B59000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

---

57B59001    57B59001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL
-

---

57B59002    57B59002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL
- 

57B59008    57B59008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130
- 

57B59010    57B59010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120
- 

57B59011    57B59011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL
- 

57B59020    57B59020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B59021    57B59021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B59022    57B59022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B59023    57B59023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

57B59024    57B59024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

57B59025    57B59025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B59026    57B59026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57B59027    57B59027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

57B59028    57B59028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57B59029    57B59029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

 57B59030 57B59030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

57B59031 57B59031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57B59032 57B59032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B59040 57B59040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57B59041 57B59041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B59042 57B59042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

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 57B59050 57B59050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57B59051 57B59051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57B59052 57B59052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B59054 57B59054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57B59070 57B59070

**Explanation:** System log entry only. No service action required.

---

57B59071 57B59071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57B59072 57B59072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57B59073 57B59073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
-



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**57B59074**    **57B59074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

**57B59075**    **57B59075**

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

**57B59076**    **57B59076**

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

**57B59081**    **57B59081**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

**57B59082**    **57B59082**

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57B59083 • 57B5FF3D

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 57B59083 57B59083

**Explanation:** System log entry only. No service action required.

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### 57B59084 57B59084

**Explanation:** System log entry only. No service action required.

---

### 57B59090 57B59090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57B59091 57B59091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57B59092 57B59092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

---

### 57B59500 57B59500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 57B59903 57B59903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57B5C000 57B5C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57B5C402 57B5C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

### Failing Item:

- PTFSRCH

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### 57B5FF3D 57B5FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57B7) Reference codes

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57B71310 57B71310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57B73100 57B73100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- AUXIOA
- PRIMIOA
- BACKPLN

---

57B73400 57B73400

**Explanation:** Unknown resource error

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

57B74101 57B74101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

---

57B74150 57B74150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- AUXIOA

---

57B74160 57B74160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- AUXIOA

---

57B78008 57B78008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- CACHBAT
- AUXIOA

---

57B78009 57B78009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

57B78100 57B78100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57B78130 57B78130

**Explanation:** I/O adapter detected recoverable bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

57B78140 57B78140

## 57B78150 • 57B79072

**Explanation:** I/O adapter detected recoverable bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- PRIMIOA
- AUXIOA
- BACKPLN

---

57B78150    57B78150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- AUXIOA
- ANYBRDG

---

57B78151    57B78151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57B78155    57B78155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57B78156    57B78156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57B78157    57B78157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates I/O adapter, then replace the I/O adapter. If the Failing Item indicates

SVCDPCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter.

**Failing Item:**

- SVCDPCS

---

57B78300    57B78300

**Explanation:** IOA hardware or PCI bus error

**Failing Item:**

- AUXIOA
- ANYBRDG
- PTFSRCH

---

57B78301    57B78301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- AUXIOA

---

57B78302    57B78302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDPCS
- AUXIOA

---

57B79055    57B79055

**Explanation:** Write cache data is available for attached storage IOA

**Response:** No service action required.

---

57B79071    57B79071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

57B79072    57B79072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

57B79073 57B79073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

---

57B79076 57B79076

**Explanation:** Missing remote I/O adapter

**Failing Item:**

- SIP3147
- PRIMIOA
- AUXIOA
- BACKPLN

---

57B7FF3D 57B7FF3D

**Explanation:** I/O adapter detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- AUXIOA
- ANYBRDG





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## (57B8) Reference codes

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57B81310    57B81310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57B83000    57B83000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57B83020    57B83020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57B83100    57B83100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57B83140    57B83140

**Explanation:** System log entry only. No service action required.

---

57B83202    57B83202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57B83400    57B83400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57B83401    57B83401

## 57B83405 • 57B84070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57B83405 57B83405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57B834FF 57B834FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57B83601 57B83601

**Explanation:** System log entry only. No service action required.

---

### 57B84010 57B84010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57B84020 57B84020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57B84030 57B84030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57B84040 57B84040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57B84041 57B84041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57B84050 57B84050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57B84060 57B84060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57B84061 57B84061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57B84070 57B84070

**Explanation:** System log entry only. No service action required.

---

**57B84100**    **57B84100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**57B84101**    **57B84101**
**Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152

---

**57B84110**    **57B84110**
**Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145

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**57B84150**    **57B84150**
**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57B84160**    **57B84160**
**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57B88008      57B88008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

**57B88009      57B88009**

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

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**57B88100      57B88100**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57B88130      57B88130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57B88140      57B88140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

**57B88141      57B88141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**57B88146      57B88146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

**57B88150      57B88150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57B88151    57B88151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B88155    57B88155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B88156    57B88156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B88157    57B88157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57B88300 • 57B88301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

57B88300    57B88300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

---

57B88301    57B88301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57B88302    57B88302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57B88400    57B88400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
-

## 57B88404 • 57B89021

---

57B88404 57B88404

**Explanation:** System log entry only. No service action required.

---

57B89000 57B89000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57B89001 57B89001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

57B89002 57B89002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

57B89008 57B89008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

57B89010 57B89010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

57B89011 57B89011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

57B89020 57B89020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57B89021 57B89021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

57B89022    57B89022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57B89023    57B89023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

57B89024    57B89024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

57B89025    57B89025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B89026    57B89026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57B89027    57B89027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

---

57B89028    57B89028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57B89029    57B89029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B89030    57B89030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

57B89031    57B89031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57B89032    57B89032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57B89040    57B89040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

## 57B89041 • 57B89081

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57B89041 57B89041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B89042 57B89042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57B89050 57B89050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57B89051 57B89051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57B89052 57B89052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57B89054 57B89054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57B89070 57B89070

**Explanation:** System log entry only. No service action required.

---

57B89071 57B89071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57B89072 57B89072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57B89073 57B89073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

57B89074 57B89074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

57B89075 57B89075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

57B89076 57B89076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

57B89081 57B89081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57B89082    57B89082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57B89083    57B89083

**Explanation:** System log entry only. No service action required.

---

57B89084    57B89084

**Explanation:** System log entry only. No service action required.

---

---

**57B89090**    **57B89090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**57B89091**    **57B89091**

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**57B89092**    **57B89092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

**57B89500**    **57B89500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

**57B89903**    **57B89903**

**Explanation:** Tape device information was logged. Informational event, no service required.

---

**57B8C000**    **57B8C000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

**920** System reference codes (1xxx - Axxx)

---

**57B8C402**    **57B8C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

**57B8FF3D**    **57B8FF3D**

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (57C3) Reference codes

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57C31310 57C31310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57C31511 57C31511

**Explanation:** A non-fatal error occurred on power supply 1

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

57C31515 57C31515

**Explanation:** A fatal error occurred on power supply 1

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

57C31521 57C31521

**Explanation:** A non-fatal error occurred on power supply 2

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

57C31525 57C31525

**Explanation:** A fatal error occurred on power supply 2

**Problem determination:** This SRC can be the result of a loss of utility power, battery back up or UPS power to the I/O storage unit. The unit and power supply

that detected the problem are in the FRU list of the serviceable event. Before starting a repair action for this problem verify that utility power, BBU or UPS to the unit was not interrupted at the time the SRC was logged. If there was an interruption to power at about the same time then no service is required and this problem can be closed.

**Failing Item:**

- DISKPWR
  - DEVBPLN
  - SASEXP
- 

57C33000 57C33000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 57C33002 • 57C33405

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57C33002 57C33002

**Explanation:** Addressed device backplane failed to respond to selection

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 57C33020 57C33020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

### 57C33100 57C33100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

### 57C33109 57C33109

**Explanation:** I/O adapter timed out a device backplane command

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN

---

### 57C33140 57C33140

**Explanation:** System log entry only. No service action required.

---

### 57C33202 57C33202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

### 57C33400 57C33400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

### 57C33401 57C33401

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57C33405 57C33405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

57C334FF 57C334FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

57C33601 57C33601

**Explanation:** System log entry only. No service action required.

---

57C34010 57C34010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

57C34020 57C34020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

57C34030 57C34030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

57C34040 57C34040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

57C34041 57C34041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

57C34050 57C34050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

57C34060 57C34060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

57C34061 57C34061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

57C34070 57C34070

**Explanation:** System log entry only. No service action required.

---

57C34080 57C34080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

57C34085 57C34085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

57C34100 57C34100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152

## 57C34101 • 57C34150

- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

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### 57C34101 57C34101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

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### 57C34102 57C34102

**Explanation:** Internal device bus fabric performance degradation.

**Failing Item:**

- SIP3254

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### 57C34110 57C34110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

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### 57C34120 57C34120

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL

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### 57C34121 57C34121

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL

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### 57C34123 57C34123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

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### 57C34150 57C34150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57C34160**    **57C34160**

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

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**57C37614**    **57C37614**

**Explanation:** A fatal error occurred on fan 1

**Failing Item:**

- DISKFAN

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**57C37624**    **57C37624**

**Explanation:** A fatal error occurred on fan 2

**Failing Item:**

- DISKFAN

---

**57C38008**    **57C38008**

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

## 57C38009 • 57C38140

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- CACHBAT
- STORIOA
- FEATCRD

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57C38009    57C38009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

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57C38100    57C38100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C38130    57C38130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

### Failing Item:

- SIP3150

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57C38140    57C38140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

### Failing Item:

- SIP3150

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**57C38141**    **57C38141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57C38146**    **57C38146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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**57C38150**    **57C38150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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**57C38151**    **57C38151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 57C38155 • 57C38156

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C38155    57C38155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C38156    57C38156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working



the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57C38157    57C38157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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57C38300    57C38300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57C38301    57C38301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57C38302    57C38302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

57C38400 57C38400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

57C38404 57C38404

**Explanation:** System log entry only. No service action required.

57C39000 57C39000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

57C39001 57C39001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

57C39002 57C39002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

57C39008 57C39008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

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57C39010    57C39010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120
- 

57C39011    57C39011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL
- 

57C39020    57C39020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57C39021    57C39021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57C39022    57C39022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57C39023    57C39023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

57C39024    57C39024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

57C39025    57C39025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical

location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57C39026    57C39026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57C39027    57C39027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

57C39028    57C39028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57C39029    57C39029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57C39030    57C39030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
-

---

57C39031 57C39031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C39032 57C39032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57C39040 57C39040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57C39041 57C39041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C39042 57C39042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C39050 57C39050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

57C39051 57C39051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

57C39052 57C39052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C39054 57C39054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

---

57C39070 57C39070

**Explanation:** System log entry only. No service action required.

---

57C39071 57C39071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57C39072 57C39072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57C39073 57C39073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

---

57C39074 57C39074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

---

 57C39075    57C39075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

57C39076    57C39076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

57C39081    57C39081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

57C39082    57C39082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57C39083    57C39083

**Explanation:** System log entry only. No service action required.

---

57C39084    57C39084

**Explanation:** System log entry only. No service action required.

---

57C39090    57C39090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C39091    57C39091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C39092    57C39092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57C39500    57C39500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57C39903    57C39903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C3C000    57C3C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C3C402    57C3C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57C3FF3D    57C3FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57C3FFF4

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

### 57C3FFF4 57C3FFF4

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- SASCABL
- STORIOA
- DEVBPLN



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## (57C4) Reference codes

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57C41310 57C41310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57C43000 57C43000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57C43020 57C43020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57C43100 57C43100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57C43140 57C43140

**Explanation:** System log entry only. No service action required.

---

57C43202 57C43202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57C43400 57C43400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57C43401 57C43401

## 57C43405 • 57C44070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57C43405 57C43405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57C434FF 57C434FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57C43601 57C43601

**Explanation:** System log entry only. No service action required.

---

### 57C44010 57C44010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57C44020 57C44020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57C44030 57C44030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57C44040 57C44040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57C44041 57C44041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57C44050 57C44050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57C44060 57C44060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57C44061 57C44061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57C44070 57C44070

**Explanation:** System log entry only. No service action required.

---

57C44080    57C44080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

57C44085    57C44085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

57C44100    57C44100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

57C44101    57C44101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

---

57C44110    57C44110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

57C44123    57C44123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

---

57C44150    57C44150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 57C44160 • 57C48008

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57C44160    57C44160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57C48008    57C48008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

57C48009    57C48009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

57C48100    57C48100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C48130    57C48130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

57C48140    57C48140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

57C48141    57C48141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

57C48146 57C48146

**Explanation:** Disk device detected recoverable error**Failing Item:**

- FI01105

57C48150 57C48150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

57C48151 57C48151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C48155    57C48155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C48156    57C48156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

## 57C48157 • 57C48300

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C48157    57C48157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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57C48300    57C48300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.



Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57C48301    57C48301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C48302    57C48302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57C48400 • 57C49010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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57C48400    57C48400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

57C48404    57C48404

**Explanation:** System log entry only. No service action required.

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57C49000    57C49000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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57C49001    57C49001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

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57C49002    57C49002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

57C49008    57C49008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

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57C49010    57C49010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

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**57C49011**    **57C49011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

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**57C49020**    **57C49020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57C49021**    **57C49021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57C49022**    **57C49022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

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**57C49023**    **57C49023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

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**57C49024**    **57C49024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

---

**57C49025**    **57C49025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

**57C49026**    **57C49026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

**57C49027**    **57C49027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

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**57C49028**    **57C49028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**57C49029**    **57C49029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**57C49030**    **57C49030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

**57C49031**    **57C49031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C49032 57C49032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57C49040 57C49040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57C49041 57C49041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C49042 57C49042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57C49050 57C49050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

57C49051 57C49051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

57C49052 57C49052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C49054 57C49054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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57C49070 57C49070

**Explanation:** System log entry only. No service action required.

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57C49071 57C49071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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57C49072 57C49072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57C49073 57C49073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

---

57C49074 57C49074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

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57C49075 57C49075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149

---

 57C49076    57C49076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147

---

 57C49081    57C49081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

 57C49082    57C49082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 57C49083 • 57C4FF3D

- FI01105
- STORIOA

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57C49083    57C49083

**Explanation:** System log entry only. No service action required.

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57C49084    57C49084

**Explanation:** System log entry only. No service action required.

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57C49090    57C49090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

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57C49091    57C49091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C49092    57C49092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

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57C49500    57C49500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

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57C49903    57C49903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C4C000    57C4C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C4C402    57C4C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

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57C4FF3D    57C4FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (57C6) Reference codes

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57C61310    57C61310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57C63000    57C63000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57C63020    57C63020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57C63100    57C63100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57C63140    57C63140

**Explanation:** System log entry only. No service action required.

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57C63202    57C63202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57C63400    57C63400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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57C63401    57C63401

## 57C63405 • 57C64070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 57C63405 57C63405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57C634FF 57C634FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

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### 57C63601 57C63601

**Explanation:** System log entry only. No service action required.

---

### 57C64010 57C64010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

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### 57C64020 57C64020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57C64030 57C64030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57C64040 57C64040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57C64041 57C64041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57C64050 57C64050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57C64060 57C64060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57C64061 57C64061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

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### 57C64070 57C64070

**Explanation:** System log entry only. No service action required.

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57C64080    57C64080

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

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57C64085    57C64085

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

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57C64100    57C64100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

57C64101    57C64101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

---

57C64110    57C64110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

57C64123    57C64123

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

---

57C64150    57C64150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

## 57C64160 • 57C68008

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57C64160 57C64160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57C68008 57C68008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

57C68009    57C68009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

57C68100    57C68100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57C68130    57C68130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57C68140    57C68140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

57C68141    57C68141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

 57C68146    57C68146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

57C68150    57C68150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

57C68151    57C68151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C68155    57C68155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57C68156    57C68156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

## 57C68157 • 57C68300

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C68157    57C68157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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57C68300    57C68300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.



Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57C68301    57C68301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C68302    57C68302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57C68400 • 57C69010

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57C68400    57C68400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

57C68404    57C68404

**Explanation:** System log entry only. No service action required.

---

57C69000    57C69000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57C69001    57C69001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

57C69002    57C69002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

57C69008    57C69008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

57C69010    57C69010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

57C69011    57C69011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

57C69020    57C69020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57C69021    57C69021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57C69022    57C69022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57C69023    57C69023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

57C69024    57C69024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

---

57C69025    57C69025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

---

57C69026    57C69026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

---

57C69027    57C69027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

57C69028    57C69028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

57C69029    57C69029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57C69030    57C69030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

57C69031    57C69031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57C69032 57C69032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57C69040 57C69040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57C69041 57C69041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57C69042 57C69042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57C69050 57C69050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57C69051 57C69051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57C69052 57C69052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

---

**Failing Item:**

- NEXTLVL
- 

57C69054 57C69054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57C69070 57C69070

**Explanation:** System log entry only. No service action required.

---

57C69071 57C69071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57C69072 57C69072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57C69073 57C69073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

57C69074 57C69074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

57C69075 57C69075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
-

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57C69076    57C69076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147

---

57C69081    57C69081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57C69082    57C69082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

## 57C69083 • 57C6FF3D

- FI01105
- STORIOA

---

57C69083    57C69083

**Explanation:** System log entry only. No service action required.

---

57C69084    57C69084

**Explanation:** System log entry only. No service action required.

---

57C69090    57C69090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C69091    57C69091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

57C69092    57C69092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

57C69500    57C69500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57C69903    57C69903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57C6C000    57C6C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57C6C402    57C6C402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

57C6FF3D    57C6FF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (57C7) Reference codes

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57C71310 57C71310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57C73000 57C73000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57C73020 57C73020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4050

---

57C73100 57C73100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4050

---

57C73140 57C73140

**Explanation:** System log entry only. No service action required.

---

57C73202 57C73202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57C73400 57C73400

**Explanation:** Unknown resource error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

## 57C73401 • 57C74041

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SIP4050
- FI02112
- STORIOA
- SASCABL

---

57C73401    57C73401

**Explanation:** Device backplane problem

### Failing Item:

- SASEXP
- DEVBPLN

---

57C73405    57C73405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then

contact your service provider.

### Failing Item:

- PTFSRCH

---

57C734FF    57C734FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

57C73601    57C73601

**Explanation:** System log entry only. No service action required.

---

57C74010    57C74010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

### Failing Item:

- SIP3142

---

57C74020    57C74020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

### Failing Item:

- SIP3143

---

57C74030    57C74030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

### Failing Item:

- SIP4044

---

57C74040    57C74040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

### Failing Item:

- SIP4044

---

57C74041    57C74041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

### Failing Item:

- SIP3146

---

57C74050    57C74050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

57C74060    57C74060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
- SASCABL
- SASEXP

---

57C74061    57C74061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

57C74070    57C74070

**Explanation:** System log entry only. No service action required.

---

57C74100    57C74100

**Explanation:** Device bus fabric error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4052
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

57C74101    57C74101

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4052

---

57C74110    57C74110

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

57C74150    57C74150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

57C74160    57C74160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

57C78008    57C78008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

57C78009    57C78009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

57C78100    57C78100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57C78130**    **57C78130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57C78140**    **57C78140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57C78141**    **57C78141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57C78146**    **57C78146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**57C78150**    **57C78150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57C78151**    **57C78151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C78155    57C78155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57C78156    57C78156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57C78157

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57C78157    57C78157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
  - STORIOA
-



**57C78300 57C78300**

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57C78301 57C78301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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 57C78302    57C78302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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 57C78400    57C78400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

 57C78404    57C78404

**Explanation:** System log entry only. No service action required.

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 57C79000    57C79000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

57C79001 57C79001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

57C79002 57C79002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

57C79008 57C79008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

57C79010 57C79010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

57C79011 57C79011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

57C79020 57C79020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57C79021 57C79021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57C79022 57C79022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57C79023 57C79023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

57C79024 57C79024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

57C79025 57C79025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

57C79026 57C79026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

57C79027 57C79027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

 57C79028 57C79028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57C79029 57C79029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57C79030 57C79030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

57C79031 57C79031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

 57C79032 57C79032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

57C79040 57C79040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

 57C79041 57C79041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57C79042 57C79042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57C79050 57C79050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57C79051 57C79051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57C79052 57C79052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57C79054 57C79054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57C79070 57C79070

**Explanation:** System log entry only. No service action required.

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57C79071    57C79071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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57C79072    57C79072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

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57C79073    57C79073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4040
- 

57C79074    57C79074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

57C79075    57C79075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4049
- 

57C79076    57C79076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4047
- 

57C79081    57C79081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

57C79082    57C79082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57C79083 • 57C7C000

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 57C79083 57C79083

**Explanation:** System log entry only. No service action required.

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### 57C79084 57C79084

**Explanation:** System log entry only. No service action required.

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### 57C79090 57C79090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57C79091 57C79091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57C79092 57C79092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

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### 57C79500 57C79500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 57C79903 57C79903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57C7C000 57C7C000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57C7C402 57C7C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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**57C7FF3D 57C7FF3D**

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.





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## (57CB) Reference codes

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57CB1310 57CB1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57CB3000 57CB3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57CB3020 57CB3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4050

---

57CB3100 57CB3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4050

---

57CB3140 57CB3140

**Explanation:** System log entry only. No service action required.

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57CB3202 57CB3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

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57CB3400 57CB3400

**Explanation:** Unknown resource error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

## 57CB3401 • 57CB4041

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SIP4050
- FI02112
- STORIOA
- SASCABL

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### 57CB3401 57CB3401

**Explanation:** Device backplane problem

### Failing Item:

- SASEXP
- DEVBPLN

---

### 57CB3405 57CB3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then

contact your service provider.

### Failing Item:

- PTFSRCH

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### 57CB34FF 57CB34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57CB3601 57CB3601

**Explanation:** System log entry only. No service action required.

---

### 57CB4010 57CB4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

### Failing Item:

- SIP3142

---

### 57CB4020 57CB4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

### Failing Item:

- SIP3143

---

### 57CB4030 57CB4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

### Failing Item:

- SIP4044

---

### 57CB4040 57CB4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

### Failing Item:

- SIP4044

---

### 57CB4041 57CB4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

### Failing Item:

- SIP3146

---

**57CB4050**    **57CB4050**

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

**57CB4060**    **57CB4060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
- SASCABL
- SASEXP

---

**57CB4061**    **57CB4061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

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**57CB4070**    **57CB4070**

**Explanation:** System log entry only. No service action required.

---

**57CB4100**    **57CB4100**

**Explanation:** Device bus fabric error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4052
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**57CB4101**    **57CB4101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4052

---

**57CB4110**    **57CB4110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

**57CB4150**    **57CB4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

## 57CB4160 • 57CB8008

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

57CB4160    57CB4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

57CB8008    57CB8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

57CB8009    57CB8009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

57CB8100    57CB8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CB8130 57CB8130**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57CB8140 57CB8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

**57CB8141 57CB8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

**57CB8146 57CB8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**57CB8150 57CB8150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57CB8151 57CB8151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CB8155    57CB8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CB8156    57CB8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57CB8157

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57CB8157    57CB8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
  - STORIOA
-



**57CB8300 57CB8300**

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57CB8301 57CB8301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CB8302 57CB8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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57CB8400 57CB8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

57CB8404 57CB8404

**Explanation:** System log entry only. No service action required.

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57CB9000 57CB9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CB9001 57CB9001**

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

**57CB9002 57CB9002**

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

**57CB9008 57CB9008**

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

**57CB9010 57CB9010**

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

**57CB9011 57CB9011**

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

**57CB9020 57CB9020**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

**57CB9021 57CB9021**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

**57CB9022 57CB9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

**57CB9023 57CB9023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

**57CB9024 57CB9024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

**57CB9025 57CB9025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

**57CB9026 57CB9026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

**57CB9027 57CB9027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

**57CB9028 57CB9028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**57CB9029 57CB9029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57CB9030 57CB9030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

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**57CB9031 57CB9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57CB9032 57CB9032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

**57CB9040 57CB9040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

**57CB9041 57CB9041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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**57CB9042 57CB9042**

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

**57CB9050 57CB9050**

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

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**57CB9051 57CB9051**

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

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**57CB9052 57CB9052**

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57CB9054 57CB9054**

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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**57CB9070 57CB9070**

**Explanation:** System log entry only. No service action required.

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57CB9071 57CB9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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## 57CB9072 57CB9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

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## 57CB9073 57CB9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4040
- 

## 57CB9074 57CB9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

## 57CB9075 57CB9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4049
- 

## 57CB9076 57CB9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4047
- 

## 57CB9081 57CB9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 57CB9082 57CB9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57CB9083 • 57CBC000

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 57CB9083 57CB9083

**Explanation:** System log entry only. No service action required.

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### 57CB9084 57CB9084

**Explanation:** System log entry only. No service action required.

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### 57CB9090 57CB9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57CB9091 57CB9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

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### 57CB9092 57CB9092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

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### 57CB9500 57CB9500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

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### 57CB9903 57CB9903

**Explanation:** Tape device information was logged. Informational event, no service required.

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### 57CBC000 57CBC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

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**57CBC402 57CBC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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**57CBFF3D 57CBFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.





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## (57CC) Reference codes

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57CC1310 57CC1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57CC3000 57CC3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57CC3020 57CC3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57CC3100 57CC3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57CC3140 57CC3140

**Explanation:** System log entry only. No service action required.

---

57CC3202 57CC3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57CC3400 57CC3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

---

57CC3401 57CC3401

## 57CC3405 • 57CC4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57CC3405 57CC3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57CC34FF 57CC34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57CC3601 57CC3601

**Explanation:** System log entry only. No service action required.

---

### 57CC4010 57CC4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57CC4020 57CC4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57CC4030 57CC4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57CC4040 57CC4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57CC4041 57CC4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57CC4050 57CC4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57CC4060 57CC4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57CC4061 57CC4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57CC4070 57CC4070

**Explanation:** System log entry only. No service action required.

---

**57CC4100**    **57CC4100**
**Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**57CC4101**    **57CC4101**
**Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152

---

**57CC4110**    **57CC4110**
**Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145

---

**57CC4150**    **57CC4150**
**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
- STORIOA

---

**57CC4160**    **57CC4160**
**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57CC8008 • 57CC8100

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57CC8008 57CC8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- CACHBAT
- STORIOA
- FEATCRD

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### 57CC8009 57CC8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

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### 57CC8100 57CC8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for

embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8130    57CC8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

57CC8140    57CC8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

---

57CC8141    57CC8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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57CC8146    57CC8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

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57CC8150    57CC8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57CC8151 • 57CC8155

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG

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### 57CC8151 57CC8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 57CC8155 57CC8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8156    57CC8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8157    57CC8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57CC8300 • 57CC8301

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

57CC8300    57CC8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- STORIOA
- ANYBRDG
- PTFSRCH

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57CC8301    57CC8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list



here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CC8302    57CC8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the

FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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57CC8400    57CC8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

## 57CC8404 • 57CC9021

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57CC8404 57CC8404

**Explanation:** System log entry only. No service action required.

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57CC9000 57CC9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

**1012** System reference codes (1xxx - Axxx)

- FI01105
- STORIOA

---

57CC9001 57CC9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

---

57CC9002 57CC9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

---

57CC9008 57CC9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

---

57CC9010 57CC9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

---

57CC9011 57CC9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

---

57CC9020 57CC9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

---

57CC9021 57CC9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
-

---

**57CC9022**    **57CC9022**

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

**57CC9023**    **57CC9023**

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

**57CC9024**    **57CC9024**

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

**57CC9025**    **57CC9025**

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57CC9026**    **57CC9026**

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

**57CC9027**    **57CC9027**

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

---

**57CC9028**    **57CC9028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

**57CC9029**    **57CC9029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**57CC9030**    **57CC9030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
- 

**57CC9031**    **57CC9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57CC9032**    **57CC9032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
  - FI02112
- 

**57CC9040**    **57CC9040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

## 57CC9041 • 57CC9081

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57CC9041 57CC9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57CC9042 57CC9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57CC9050 57CC9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131
- 

57CC9051 57CC9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132
- 

57CC9052 57CC9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

57CC9054 57CC9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121
- 

57CC9070 57CC9070

**Explanation:** System log entry only. No service action required.

---

57CC9071 57CC9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57CC9072 57CC9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57CC9073 57CC9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
- 

57CC9074 57CC9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

57CC9075 57CC9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

57CC9076 57CC9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

57CC9081 57CC9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

---

57CC9082    57CC9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

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57CC9083    57CC9083

**Explanation:** System log entry only. No service action required.

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57CC9084    57CC9084

**Explanation:** System log entry only. No service action required.

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 57CC9090 57CC9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 57CC9091 57CC9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

 57CC9092 57CC9092

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

---

 57CC9500 57CC9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

 57CC9903 57CC9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

 57CCC000 57CCC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

**1016** System reference codes (1xxx - Axxx)

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 57CCC402 57CCC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

---

 57CCFF3D 57CCFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG





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## (57CD) Reference codes

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57CD1310 57CD1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57CD3000 57CD3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57CD3020 57CD3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57CD3100 57CD3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57CD3140 57CD3140

**Explanation:** System log entry only. No service action required.

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57CD3202 57CD3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57CD3400 57CD3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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57CD3401 57CD3401

## 57CD3405 • 57CD4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

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### 57CD3405 57CD3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57CD34FF 57CD34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

### 57CD3601 57CD3601

**Explanation:** System log entry only. No service action required.

---

### 57CD4010 57CD4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57CD4020 57CD4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57CD4030 57CD4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57CD4040 57CD4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57CD4041 57CD4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57CD4050 57CD4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57CD4060 57CD4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

### 57CD4061 57CD4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57CD4070 57CD4070

**Explanation:** System log entry only. No service action required.

---

**57CD4100**    **57CD4100****Explanation:** Device bus fabric error**Failing Item:**

- SIP3152
  - SASCABL
  - SASEXP
  - DEVBPLN
  - STORIOA
  - FI01105
- 

**57CD4101**    **57CD4101****Explanation:** Temporary device bus fabric error**Failing Item:**

- SIP3152
- 

**57CD4110**    **57CD4110****Explanation:** Unsupported enclosure function detected**Failing Item:**

- SIP3145
- 

**57CD4150**    **57CD4150****Explanation:** I/O adapter detected PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- BACKPLN
  - STORIOA
- 

**57CD4160**    **57CD4160****Explanation:** I/O adapter detected and recovered a PCI bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57CD8100 • 57CD8140

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57CD8100 57CD8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

---

### 57CD8130 57CD8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

### Failing Item:

- SIP3150

---

### 57CD8140 57CD8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

### Failing Item:

- SIP3150

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**57CD8141**    **57CD8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57CD8146**    **57CD8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

**57CD8150**    **57CD8150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the

embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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**57CD8151**    **57CD8151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 57CD8155 • 57CD8156

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57CD8155 57CD8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57CD8156 57CD8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**57CD8157 57CD8157**

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

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**57CD8300 57CD8300**

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57CD8301    57CD8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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57CD8302    57CD8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.



See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

57CD8400 57CD8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

57CD8404 57CD8404

**Explanation:** System log entry only. No service action required.

57CD9000 57CD9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

57CD9001 57CD9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

57CD9002 57CD9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

57CD9008 57CD9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

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57CD9010 57CD9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120
- 

## 57CD9011 57CD9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL
- 

## 57CD9020 57CD9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

## 57CD9021 57CD9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

## 57CD9022 57CD9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

## 57CD9023 57CD9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112
- 

## 57CD9024 57CD9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

## 57CD9025 57CD9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical

location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

## 57CD9026 57CD9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

## 57CD9027 57CD9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

## 57CD9028 57CD9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

## 57CD9029 57CD9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

## 57CD9030 57CD9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
  - FI02112
-

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**57CD9031**    **57CD9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

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**57CD9032**    **57CD9032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

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**57CD9040**    **57CD9040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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**57CD9041**    **57CD9041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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**57CD9042**    **57CD9042**

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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**57CD9050**    **57CD9050**

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

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**57CD9051**    **57CD9051**

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

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**57CD9052**    **57CD9052**

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57CD9054**    **57CD9054**

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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**57CD9070**    **57CD9070**

**Explanation:** System log entry only. No service action required.

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**57CD9071**    **57CD9071**

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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**57CD9072**    **57CD9072**

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

**57CD9073**    **57CD9073**

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140

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**57CD9074**    **57CD9074**

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141

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 57CD9075 57CD9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

57CD9076 57CD9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

57CD9081 57CD9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

57CD9082 57CD9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

**57CD9083 57CD9083**

**Explanation:** System log entry only. No service action required.

**57CD9084 57CD9084**

**Explanation:** System log entry only. No service action required.

**57CD9090 57CD9090**

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57CD9091 57CD9091**

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

**57CD9092 57CD9092**

**Explanation:** Disk unit requires initialization before use.

**Failing Item:**

- SIP3134

**57CD9500 57CD9500**

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

**57CD9903 57CD9903**

**Explanation:** Tape device information was logged. Informational event, no service required.

**57CDC000 57CDC000**

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

**57CDC402 57CDC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

**57CDFF3D 57CDFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57CFFF3D

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### **Failing Item:**

- STORIOA
- ANYBRDG

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## (57CE) Reference codes

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57CE1310 57CE1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57CE3000 57CE3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57CE3020 57CE3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP3150

---

57CE3100 57CE3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP3150

---

57CE3140 57CE3140

**Explanation:** System log entry only. No service action required.

---

57CE3202 57CE3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57CE3400 57CE3400

**Explanation:** Unknown resource error

**Failing Item:**

- SIP3150
- FI02112
- STORIOA
- SASCABL

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57CE3401 57CE3401

## 57CE3405 • 57CE4070

**Explanation:** Device backplane problem

**Failing Item:**

- SASEXP
- DEVBPLN

---

### 57CE3405 57CE3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH

---

### 57CE34FF 57CE34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

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### 57CE3601 57CE3601

**Explanation:** System log entry only. No service action required.

---

### 57CE4010 57CE4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

**Failing Item:**

- SIP3142

---

### 57CE4020 57CE4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

**Failing Item:**

- SIP3143

---

### 57CE4030 57CE4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

**Failing Item:**

- SIP3144

---

### 57CE4040 57CE4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

**Failing Item:**

- SIP3144

---

### 57CE4041 57CE4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

### 57CE4050 57CE4050

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

### 57CE4060 57CE4060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

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### 57CE4061 57CE4061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

### 57CE4070 57CE4070

**Explanation:** System log entry only. No service action required.



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**57CE4080 57CE4080**

**Explanation:** Storage controller thermal error. The controller exceeded the maximum operating temperature.

**Problem determination:** Verify that the storage controller is placed in a valid location for this type of controller and enclosure. Perform the procedure listed in the failing items to determine the problem and corrective action.

**Failing Item:**

- SIP3295

---

**57CE4085 57CE4085**

**Explanation:** Storage controller detected error. Contact your next level of support or hardware service provider for more information before replacing any hardware.

**Failing Item:**

- NEXTLVL

---

**57CE4100 57CE4100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

---

**57CE4101 57CE4101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP3152

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**57CE4110 57CE4110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

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**57CE4120 57CE4120**

**Explanation:** SAS cable VPD cannot be read.

**Failing Item:**

- SASCABL

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**57CE4121 57CE4121**

**Explanation:** SAS cable is missing.

**Failing Item:**

- SASCABL

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**57CE4123 57CE4123**

**Explanation:** Configuration error, invalid cable Vital Product Data. The storage controller detected invalid VPD on the SAS cable. This is most likely caused by a non IBM cable or a wrap plug. The system will continue to run.

**Problem determination:** Verify that wrap plugs have been removed and the cable is an IBM part. If the problem persists contact your next level of support.

**Failing Item:**

- SASCABL

---

**57CE4150 57CE4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

## 57CE4160 • 57CE8008

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57CE4160 57CE4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

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### 57CE8008 57CE8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

57CE8009    57CE8009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

57CE8100    57CE8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list

here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57CE8130    57CE8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150

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**57CE8140**    **57CE8140**

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150
- 

**57CE8141**    **57CE8141**

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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**57CE8146**    **57CE8146**

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

**57CE8150**    **57CE8150**

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

**57CE8151**    **57CE8151**

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

**57CE8155    57CE8155**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

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**57CE8156    57CE8156**

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the

## 57CE8157 • 57CE8300

failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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### 57CE8157 57CE8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

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### 57CE8300 57CE8300

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

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57CE8301    57CE8301

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CE8302    57CE8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

## 57CE8400 • 57CE9001

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
- STORIOA

---

57CE8400    57CE8400

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH

---

57CE8404    57CE8404

**Explanation:** System log entry only. No service action required.

---

57CE9000    57CE9000

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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57CE9001    57CE9001

**Explanation:** Device configuration error

### Failing Item:

- NEXTLVL



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57CE9002 57CE9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL
- 

57CE9008 57CE9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130
- 

57CE9010 57CE9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120
- 

57CE9011 57CE9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL
- 

57CE9020 57CE9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57CE9021 57CE9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57CE9022 57CE9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111
- 

57CE9023 57CE9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

---

57CE9024 57CE9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL
- 

57CE9025 57CE9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
  - FI02112
- 

57CE9026 57CE9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL
- 

57CE9027 57CE9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113
- 

57CE9028 57CE9028

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57CE9029 57CE9029

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CE9030 57CE9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

---

57CE9031 57CE9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

57CE9032 57CE9032

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

---

57CE9040 57CE9040

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

---

57CE9041 57CE9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CE9042 57CE9042

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

57CE9050 57CE9050

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

---

57CE9051 57CE9051

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

---

57CE9052 57CE9052

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

57CE9054 57CE9054

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

---

57CE9070 57CE9070

**Explanation:** System log entry only. No service action required.

---

57CE9071 57CE9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

---

57CE9072 57CE9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

---

57CE9073 57CE9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP3140
-

---

57CE9074 57CE9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP3141
- 

## 57CE9075 57CE9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP3149
- 

## 57CE9076 57CE9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP3147
- 

## 57CE9081 57CE9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 57CE9082 57CE9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

## 57CE9083 • 57CEFF3D

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

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### 57CE9083 57CE9083

**Explanation:** System log entry only. No service action required.

---

### 57CE9084 57CE9084

**Explanation:** System log entry only. No service action required.

---

### 57CE9090 57CE9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57CE9091 57CE9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new

reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57CE9092 57CE9092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

---

### 57CE9500 57CE9500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 57CE9903 57CE9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57CEC000 57CEC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

### 57CEC402 57CEC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

### Failing Item:

- PTFSRCH

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### 57CEFF3D 57CEFF3D

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.

- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG



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## (57CF) Reference codes

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57CF1310    57CF1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

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57CF3000    57CF3000

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.

- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

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57CF3020    57CF3020

**Explanation:** Storage subsystem configuration error

**Failing Item:**

- SIP4050

---

57CF3100    57CF3100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- SIP4050

---

57CF3140    57CF3140

**Explanation:** System log entry only. No service action required.

---

57CF3202    57CF3202

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS

---

57CF3400    57CF3400

**Explanation:** Unknown resource error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

## 57CF3401 • 57CF4041

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card). When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SIP4050
- FI02112
- STORIOA
- SASCABL

---

57CF3401    57CF3401

**Explanation:** Device backplane problem

### Failing Item:

- SASEXP
- DEVBPLN

---

57CF3405    57CF3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then

contact your service provider.

### Failing Item:

- PTFSRCH

---

57CF34FF    57CF34FF

**Explanation:** Format in progress

**Response:** No action required. This reference code is logged for information only.

---

57CF3601    57CF3601

**Explanation:** System log entry only. No service action required.

---

57CF4010    57CF4010

**Explanation:** Configuration error

**Response:** Incorrect connection between cascaded enclosures.

### Failing Item:

- SIP3142

---

57CF4020    57CF4020

**Explanation:** Configuration error

**Response:** Number of connections exceed I/O adapter design limits.

### Failing Item:

- SIP3143

---

57CF4030    57CF4030

**Explanation:** Configuration error

**Response:** Incorrect multipath connection.

### Failing Item:

- SIP4044

---

57CF4040    57CF4040

**Explanation:** Configuration error

**Response:** Incomplete multipath connection between I/O adapter and enclosure.

### Failing Item:

- SIP4044

---

57CF4041    57CF4041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

### Failing Item:



- SIP3146

---

**57CF4050**    **57CF4050**

**Explanation:** Enclosure does not support required multipath function

**Failing Item:**

- SIP3148

---

**57CF4060**    **57CF4060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP4053
- SASCABL
- SASEXP

---

**57CF4061**    **57CF4061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**57CF4070**    **57CF4070**

**Explanation:** System log entry only. No service action required.

---

**57CF4100**    **57CF4100**

**Explanation:** Device bus fabric error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SIP4052
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- FI01105

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**57CF4101**    **57CF4101**

**Explanation:** Temporary device bus fabric error

**Failing Item:**

- SIP4052

---

**57CF4110**    **57CF4110**

**Explanation:** Unsupported enclosure function detected

**Failing Item:**

- SIP3145

---

**57CF4150**    **57CF4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

## 57CF4160 • 57CF8008

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57CF4160 57CF4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.

**1052** System reference codes (1xxx - Axxx)

- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

### 57CF8008 57CF8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- CACHBAT
- STORIOA
- FEATCRD

---

57CF8009    57CF8009

**Explanation:** Impending cache battery pack failure

**Failing Item:**

- CACHBAT

---

57CF8100    57CF8100

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CF8130 57CF8130

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

## 57CF8140 57CF8140

**Explanation:** IOA detected recoverable device bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP4050
- 

## 57CF8141 57CF8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

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57CF8146 57CF8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105
- 

## 57CF8150 57CF8150

**Explanation:** A permanent failure occurred

**Response:** Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
  - ANYBRDG
- 

## 57CF8151 57CF8151

**Explanation:** Licensed Internal Code error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CF8155    57CF8155

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

---

57CF8156    57CF8156

**Explanation:** A permanent failure occurred

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57CF8157

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- PTFSRCH
- STORIOA

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57CF8157    57CF8157

**Explanation:** I/O adapter card error

**Response:** The FRU list in the Service Action Log will vary based on the conditions this event was logged for.

Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If you are replacing the I/O adapter and you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- SVCDOCS
  - STORIOA
-

**57CF8300 57CF8300**

**Explanation:** IOA hardware error or PCI bus error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

**57CF8301 57CF8301**

**Explanation:** Not valid condition in Licensed Internal Code

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- PTFSRCH
- STORIOA

57CF8302 57CF8302

**Explanation:** Missing Licensed Internal Code**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- SVCDOCS
- STORIOA

57CF8400 57CF8400

**Explanation:** Licensed Internal Code error**Failing Item:**

- PTFSRCH

57CF8404 57CF8404

**Explanation:** System log entry only. No service action required.

57CF9000 57CF9000

**Explanation:** Device error**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.



See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
- STORIOA

57CF9001 57CF9001

**Explanation:** Device configuration error

**Failing Item:**

- NEXTLVL

57CF9002 57CF9002

**Explanation:** Device error

**Failing Item:**

- NEXTLVL

57CF9008 57CF9008

**Explanation:** I/O card does not support functions expected by devices

**Failing Item:**

- SIP3130

57CF9010 57CF9010

**Explanation:** Cache data associated with attached devices cannot be found

**Failing Item:**

- SIP3120

57CF9011 57CF9011

**Explanation:** Cache data belongs to devices other than those attached

**Failing Item:**

- NEXTLVL

57CF9020 57CF9020

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57CF9021 57CF9021

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57CF9022 57CF9022

**Explanation:** Two or more disk units missing from RAID-5 or RAID-6 array

**Failing Item:**

- SIP3111

57CF9023 57CF9023

**Explanation:** One or more array members not in required physical locations

**Failing Item:**

- SIP3112

57CF9024 57CF9024

**Explanation:** Array member physical location conflicts with another array

**Failing Item:**

- NEXTLVL

57CF9025 57CF9025

**Explanation:** Incompatible device

**Response:** An incompatible device is at the physical location of the device which is causing the array to be exposed.

**Failing Item:**

- SIP3110
- FI02112

57CF9026 57CF9026

**Explanation:** Disk unit not found at required physical location

**Response:** A previously exposed disk unit in an array was not found at the required physical location.

**Failing Item:**

- NEXTLVL

57CF9027 57CF9027

**Explanation:** Array not functional due to parity out of synchronization

**Response:** Array is or would become exposed and parity data is out of synchronization

**Failing Item:**

- SIP3113

---

**57CF9028 57CF9028**

**Explanation:** Maximum number of functional arrays has been exceeded

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS

---

**57CF9029 57CF9029**

**Explanation:** Maximum number of functional array members has been exceeded

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57CF9030 57CF9030**

**Explanation:** Array no longer protected due to missing or failed disk unit

**Failing Item:**

- SIP3110
- FI02112

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**57CF9031 57CF9031**

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

**57CF9032 57CF9032**

**Explanation:** A disk unit in an array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced.

**Failing Item:**

- SIP3110
- FI02112

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**57CF9040 57CF9040**

**Explanation:** Re-synchronization of array parity was initiated

**Response:** No action required.

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**57CF9041 57CF9041**

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

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**57CF9042 57CF9042**

**Explanation:** Background parity check corrected errors on disk unit

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL

---

**57CF9050 57CF9050**

**Explanation:** Required cache data not found for one or more disk units

**Failing Item:**

- SIP3131

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**57CF9051 57CF9051**

**Explanation:** Cache data exists for one or more missing or failed devices

**Failing Item:**

- SIP3132

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**57CF9052 57CF9052**

**Explanation:** Cache data exists for one or more modified devices

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**57CF9054 57CF9054**

**Explanation:** IOA resources not available due to previous problems

**Failing Item:**

- SIP3121

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**57CF9070 57CF9070**

**Explanation:** System log entry only. No service action required.

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57CF9071 57CF9071

**Explanation:** Link from IOA to auxiliary or remote IOA is operational

**Response:** No service action required.

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## 57CF9072 57CF9072

**Explanation:** Link from IOA to auxiliary or remote IOA is non-operational

**Response:** No service action required.

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## 57CF9073 57CF9073

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Failing Item:**

- SIP4040
- 

## 57CF9074 57CF9074

**Explanation:** Multiple I/O adapters connected in a not valid configuration

**Response:** Multiple I/O adapters not capable of similar functions or controlling the same set of devices.

**Failing Item:**

- SIP4041
- 

## 57CF9075 57CF9075

**Explanation:** Incomplete multipath connection between IOA and remote IOA

**Failing Item:**

- SIP4049
- 

## 57CF9076 57CF9076

**Explanation:** Missing auxiliary IOA or remote IOA

**Failing Item:**

- SIP4047
- 

## 57CF9081 57CF9081

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- FI01105
  - STORIOA
- 

## 57CF9082 57CF9082

**Explanation:** Device error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

## 57CF9083 • 57CFC000

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- FI01105
- STORIOA

---

### 57CF9083 57CF9083

**Explanation:** System log entry only. No service action required.

---

### 57CF9084 57CF9084

**Explanation:** System log entry only. No service action required.

---

### 57CF9090 57CF9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57CF9091 57CF9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. Other resources attached to the virtual I/O processor may then need to be Varied On.

If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

### Failing Item:

- SVCDOCS

---

### 57CF9092 57CF9092

**Explanation:** Disk unit requires initialization before use.

### Failing Item:

- SIP3134

---

### 57CF9500 57CF9500

**Explanation:** Internal program error in driver code.

### Failing Item:

- PTFSRCH

---

### 57CF9903 57CF9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

### 57CFC000 57CFC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

**57CFC402 57CFC402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

**Failing Item:**

- STORIOA
- ANYBRDG

---

**57CFFF3D 57CFFF3D**

**Explanation:** I/O adapter detected a recoverable error

**Response:** If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.



---

## (57FC) Reference codes

---

57FC3020 57FC3020

**Explanation:** Configuration error on port 0

**Response:** Too many devices have been configured on port 0. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57FC3021 57FC3021

**Explanation:** Configuration error on port 1

**Response:** Too many devices have been configured on port 1. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

57FC3100 57FC3100

**Explanation:** Interface error on port 0

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57FC3101 57FC3101

**Explanation:** Interface error on port 1

**Failing Item:**

- FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57FC3120 57FC3120

**Explanation:** A port failure was detected on port 0

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57FC3121 57FC3121

**Explanation:** A port failure was detected on port 1

**Failing Item:**

- FCPORT
  - FCIOA
  - FCDEV
  - OPT\_CLN
- 

57FC3140 57FC3140

**Explanation:** Port 0 is now operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

57FC3141 57FC3141

**Explanation:** Port 1 is now operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action, since the port is now operational.

---

57FC3400 57FC3400

**Explanation:** Device error

**Failing Item:**

- FCDEV
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

57FC3405 57FC3405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

## 57FC34FF • 57FCB402

- PTFSRCH

---

57FC34FF 57FC34FF

**Explanation:** Format in progress

**Response:** The device indicated that a format is in progress. When the format is complete, the device should be usable. No action is required. This reference code is logged for information only.

---

57FC4150 57FC4150

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- BACKPLN
- FCIOA

---

57FC8100 57FC8100

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- FCIOA

---

57FC8130 57FC8130

**Explanation:** Recovered Fibre Channel interface error on port 0

**Response:** No action required. This reference code is logged for information only.

---

57FC8131 57FC8131

**Explanation:** Recovered Fibre Channel interface error on port 1

**Response:** No action required. This reference code is logged for information only.

---

57FC8150 57FC8150

**Explanation:** A permanent I/O adapter failure occurred

**Failing Item:**

- FCIOA
- ANYBRDG
- OPT\_CLN

---

57FC8300 57FC8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- FCIOA
- ANYBRDG
- PTFSRCH
- OPT\_CLN

---

57FC8301 57FC8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- FCIOA
- OPT\_CLN

---

57FC8302 57FC8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- FCIOA
- OPT\_CLN

---

57FC9500 57FC9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH

---

57FC9903 57FC9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57FCB000 57FCB000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

57FCB402 57FCB402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH



---

57FCC000 57FCC000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

57FCC402 57FCC402

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH



---

## (57FF) Reference codes

---

57FF1310    57FF1310

**Explanation:** I/O adapter resource not available

**Response:** The I/O adapter error log is being filled faster than the errors are being reported to the system. Check other errors reported to the system and correct them.

---

57FF3000    57FF3000

**Explanation:** A permanent failure occurred

**Failing Item:**

- FI01101
  - ANYBRDG
- 

57FF3006    57FF3006

**Explanation:** System bus error

**Failing Item:**

- FI01101
  - ANYBRDG
  - PTFSRCH
- 

57FF3020    57FF3020

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

57FF3021    57FF3021

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

57FF3022    57FF3022

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

57FF3023    57FF3023

**Explanation:** SCSI bus configuration error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP17
  - USER
  - FI01107
  - STORIOA
- 

57FF3100    57FF3100

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 0.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57FF3101    57FF3101

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 1.

**Failing Item:**

- IOPIP13
  - FI01107
  - STORIOA
  - FI01140
  - DEVBPLN
- 

57FF3102    57FF3102

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 2.

**Failing Item:**

- IOPIP13
- FI01107

## 57FF3103 • 57FF3200

- STORIOA
- FI01140
- DEVBPLN

---

57FF3103    57FF3103

**Explanation:** Interface error

**Response:** Error occurred on SCSI bus 3.

**Failing Item:**

- IOPIP3
- FI01107
- STORIOA
- FI01140
- DEVBPLN

---

57FF3120    57FF3120

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 0 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57FF3121    57FF3121

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 1 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57FF3122    57FF3122

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 2 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57FF3123    57FF3123

**Explanation:** Bus is not operational

**Response:** Adding a device to SCSI bus 3 of the I/O Adapter caused the bus to become not operational. Remove the device.

**Failing Item:**

- SVCDOCS

---

57FF3140    57FF3140

**Explanation:** Bus is operational

**Response:** This reference code and the 3120 reference code that occurred before it require no service action because SCSI bus 0 is now operational.

---

57FF3141    57FF3141

**Explanation:** Bus is operational

**Response:** This reference code and the 3121 reference code that occurred before it require no service action because SCSI bus 1 is now operational.

---

57FF3142    57FF3142

**Explanation:** Bus is operational

**Response:** This reference code and the 3122 reference code that occurred before it require no service action because SCSI bus 2 is now operational.

---

57FF3143    57FF3143

**Explanation:** Bus is operational

**Response:** This reference code and the 3123 reference code that occurred before it require no service action because SCSI bus 3 is now operational.

---

57FF3150    57FF3150

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 0 at the same time. Correct the SCSI bus 0 configuration.

**Failing Item:**

- SVCDOCS

---

57FF3151    57FF3151

**Explanation:** SCSI bus configuration error

**Response:** Internal and external SCSI cables are connected to SCSI bus 1 at the same time. Correct the SCSI bus 1 configuration.

**Failing Item:**

- SVCDOCS

---

57FF3200    57FF3200

**Explanation:** A tape/CD or disk device reported a failure

**Failing Item:**

- FI01105
- STORIOA
- MEDIA

---

**57FF3202**    **57FF3202**

**Explanation:** Storage subsystem configuration error

**Response:** The device is not supported in the current configuration. An I/O processor might be required.

**Failing Item:**

- SVCDOCS
- 

**57FF3400**    **57FF3400**

**Explanation:** Device error

**Response:** NOTE: If external devices are attached check EXTSCSI and DEVTERM first.

**Failing Item:**

- FI02112
  - STORIOA
  - FI01106
  - FI01140
- 

**57FF3401**    **57FF3401**

**Explanation:** Device backplane problem

**Failing Item:**

- DEVBPLN
- 

**57FF3405**    **57FF3405**

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

**57FF34FF**    **57FF34FF**

**Explanation:** A device on this adapter is being formatted. Wait for the formatting to complete.

**Failing Item:**

- SVCDOCS

---

**57FF3501**    **57FF3501**

**Explanation:** Licensed Internal Code error

**Response:** The device type is either unsupported or the code has not been loaded to support it.

**Failing Item:**

- FI01105
  - PTFSRCH
- 

**57FF3601**    **57FF3601**

**Explanation:** System log entry only. No service action required.

---

**57FF4150**    **57FF4150**

**Explanation:** I/O adapter detected PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working

## 57FF4160 • 57FF8130

the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

57FF4160    57FF4160

**Explanation:** I/O adapter detected and recovered a PCI bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

If you are working with one of the card types below, the adapter has multiple physical parts. Choose the card type to identify the physical parts of the storage adapter.

Card type 2BE1 (feature RAID enablement card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has three physical parts:

- The embedded storage adapter on the I/O backplane.
- The RAID enablement card.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CB (embedded IOA with 2BCF battery card for embedded IOA) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapter (STORIOA) has two physical parts:

- The embedded storage adapter on the I/O backplane.
- The Battery charger and carrier card.

See symbolic FRU FEATCRD for the location codes of the FRUs if they are not listed in the serviceable event or if you are working the failing item list here.

Card type 57CF (embedded IOAs on DASD backplane with 2BC2 dual battery charger and carrier card for the embedded IOAs) read the following: When working the FRUs from the serviceable event or the failing item list here, the embedded storage adapters (STORIOA) have two physical parts:

- The embedded storage adapter on the DASD backplane.
- The dual battery charger and carrier card. To determine which battery is connected to which embedded IOA use the bus number of the IOA with symbolic FRU CACHBAT.

See symbolic FRU FEATCRD for the location code of the dual battery charger and carrier card if it is not listed in the serviceable event or if you are working the failing item list here.

### Failing Item:

- BACKPLN
- STORIOA

---

57FF8008    57FF8008

**Explanation:** A permanent cache battery pack failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

### Failing Item:

- CACHBAT
- STORIOA

---

57FF8009    57FF8009

**Explanation:** Impending cache battery pack failure

### Failing Item:

- CACHBAT

---

57FF8100    57FF8100

**Explanation:** Licensed Internal Code error

### Failing Item:

- PTFSRCH
- STORIOA

---

57FF8130    57FF8130

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 0. No action

is required. This reference code is logged for information only.

---

57FF8131 57FF8131

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 1. No action is required. This reference code is logged for information only.

---

57FF8132 57FF8132

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 2. No action is required. This reference code is logged for information only.

---

57FF8133 57FF8133

**Explanation:** IOA detected recoverable device bus error

**Response:** An error occurred on SCSI bus 3. No action is required. This reference code is logged for information only.

---

57FF8140 57FF8140

**Explanation:** IOA detected recoverable device bus error

**Response:** No action is required. This reference code is logged for information only.

---

57FF8141 57FF8141

**Explanation:** IOA detected recoverable device error

**Response:** No action is required. This reference code is logged for information only.

---

57FF8145 57FF8145

**Explanation:** A recoverable error occurred

**Failing Item:**

- STORIOA

---

57FF8146 57FF8146

**Explanation:** Disk device detected recoverable error

**Failing Item:**

- FI01105

---

57FF8150 57FF8150

**Explanation:** A permanent failure occurred

**Response:** NOTE: Under a certain configuration, this SRC may not represent an error that requires a service action. Depending on the configuration of the system, the Storage IOA may have been altered and/or the Storage IOA Cache may have been disabled to allow attachment of OEM Storage that emulates a Load Source drive. If this is the case, this error will be posted each time the IOA is IPLed and it can be ignored.

**Failing Item:**

- STORIOA
- ANYBRDG

---

57FF8151 57FF8151

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- STORIOA

---

57FF8155 57FF8155

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

57FF8156 57FF8156

**Explanation:** A permanent failure occurred

**Failing Item:**

- PTFSRCH
- STORIOA

---

57FF8157 57FF8157

**Explanation:** I/O adapter card error

**Response:** Display the Service Action Log entry for this SRC. If the Failing Item indicates an I/O adapter, then replace the I/O adapter. If the Failing Item indicates SVCDOCS, then do NOT replace the I/O adapter. This is a recoverable error. Perform the following for the I/O processor that the I/O adapter is attached to:

1. If the I/O processor is not operable and disk units are attached, use Hardware Service Manager to re-IPL the IOP. Other resources attached to the IOP may then need to be Varied On.
2. If disk units are not attached, perform the "VRYCFG RESET(\*YES)" command to reset the IOP and Vary On attached resources.

**Failing Item:**

## 57FF8300 • 57FF9020

- SVCDOCS

---

57FF8300 57FF8300

**Explanation:** IOA hardware error or PCI bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

57FF8301 57FF8301

**Explanation:** Not valid condition in Licensed Internal Code

**Failing Item:**

- PTFSRCH
- STORIOA

---

57FF8302 57FF8302

**Explanation:** Missing Licensed Internal Code

**Response:** Ensure that the code necessary to support this I/O adapter is loaded.

**Failing Item:**

- SVCDOCS
- STORIOA

---

57FF8400 57FF8400

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

57FF8404 57FF8404

**Explanation:** System log entry only. No service action required.

---

57FF9000 57FF9000

**Explanation:** Device error

**Failing Item:**

- FI01105
- STORIOA

---

57FF9001 57FF9001

**Explanation:** Device configuration error

**Response:**

**Failing Item:**

- IOPIP33

---

57FF9002 57FF9002

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
- FI01105
- STORIOA
- FI01140
- BACKPLN
- FI01106

---

57FF9008 57FF9008

**Explanation:** I/O card does not support functions expected by devices

**Response:**

**Failing Item:**

- IOPIP25

---

57FF9009 57FF9009

**Explanation:** Call your next level of support for assistance

**Failing Item:**

- SVCDOCS

---

57FF9010 57FF9010

**Explanation:** Cache data associated with attached devices cannot be found

**Response:**

**Failing Item:**

- IOPIP31

---

57FF9011 57FF9011

**Explanation:** Cache data belongs to devices other than those attached

**Response:**

**Failing Item:**

- IOPIP32

---

57FF9020 57FF9020

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20



---

57FF9021    57FF9021

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP20
- 

57FF9022    57FF9022

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

57FF9023    57FF9023

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

57FF9024    57FF9024

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

57FF9025    57FF9025

**Explanation:** Disk unit is not supported at its physical location.

**Response:**

**Failing Item:**

- IOPIP21
- 

57FF9026    57FF9026

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP22
- 

---

57FF9027    57FF9027

**Explanation:** Array not functional due to present hardware configuration.

**Response:**

**Failing Item:**

- IOPIP34
- 

57FF9028    57FF9028

**Explanation:** Incorrect hardware configuration change detected

**Response:** Reduce the number of arrays on this I/O adapter. Either move all the devices in an array to another I/O adapter that supports arrays, or stop an array on this I/O adapter.

**Failing Item:**

- SVCDOCS
- 

57FF9029    57FF9029

**Explanation:** Incorrect hardware configuration change detected

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57FF902F    57FF902F

**Explanation:** Array addendum Product Activity Log entry

**Response:** This entry contains additional array information for 90xx reference codes when the array contains more than 10 members. Use the 90xx entry that occurred at the same time as this reference code as the starting point for this problem.

---

57FF9030    57FF9030

**Explanation:** Array no longer protected due to missing or failed disk unit

**Response:**

**Failing Item:**

- FI02112
  - IOPIP21
- 

57FF9031    57FF9031

**Explanation:** Automatic rebuild initiated for array

**Response:** Either a previous rebuild was interrupted and was automatically restarted, or a hot spare disk unit was used to automatically rebuild the array. Look for other reference codes and take action on them.

---

---

 57FF9032 57FF9032

**Explanation:** A disk unit in a RAID array is missing or failed

**Response:** The array is still protected, but the disk unit should be replaced. Replace the device first if a device is listed first in the Service Action Log. If a device is not listed first in the Service Action Log then perform the procedure.

**Failing Item:**

- FI02112
  - IOPIP21
- 

57FF9040 57FF9040

**Explanation:** Array protection temporarily suspended

**Response:** No action required. Protection will be automatically restarted.

---

57FF9041 57FF9041

**Explanation:** Background array parity check detected and corrected errors

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- PTFSRCH
- 

57FF9042 57FF9042

**Explanation:** An array parity error has been detected and corrected

**Response:** Call your next level of support to report the problem.

**Failing Item:**

- NEXTLVL
- 

57FF9050 57FF9050

**Explanation:** Required cache data cannot be located for a disk unit.

**Response:**

**Failing Item:**

- IOPIP30
- 

57FF9051 57FF9051

**Explanation:** Cache data exists for a missing or failed device

**Response:** If all configured units are missing, a 9054 reference code may appear in the product activity log. If so, perform the action indicated for the 9054 reference code.

---

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- IOPIP27
- 

57FF9052 57FF9052

**Explanation:** Cache data exists for device that has been modified.

**Response:** Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57FF9053 57FF9053

**Explanation:** IOA resources not available due to previous problems

**Response:** Take action on other reference codes which have surfaced.

If you cannot get to SST or DST, and cannot perform a type A or B IPL, perform a type D IPL from removable media. Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

57FF9054 57FF9054

**Explanation:** IOA resources not available due to previous problems

**Response:** Power off the system and remove all new or replacement disk units. IPL the system to DST. If you cannot perform a type A or B IPL, perform a type D IPL from removable media.

Look for Product Activity Log entries for other reference codes and take action on them.

**Failing Item:**

- SVCDOCS
- 

57FF9070 57FF9070

**Explanation:** System log entry only. No service action required.

---

57FF9071 57FF9071

**Explanation:** Link from IOA to auxiliary cache IOA went operational

**Response:** No service action required.

---

---

57FF9072    57FF9072

**Explanation:** Link from IOA to auxiliary cache IOA went non-operational

**Response:** No service action required.

---

57FF9073    57FF9073

**Explanation:** Incompatible or non-operational auxiliary cache IOA attached

**Response:**

**Failing Item:**

- IOPIP40
- 

57FF9081    57FF9081

**Explanation:** Device error

**Failing Item:**

- FI01105
  - STORIOA
- 

57FF9082    57FF9082

**Explanation:** Device error

**Response:**

**Failing Item:**

- IOPIP16
  - FI01105
  - STORIOA
  - FI01140
  - BACKPLN
  - FI01106
- 

57FF9090    57FF9090

**Explanation:** Disk unit has been modified after the last known status.

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57FF9091    57FF9091

**Explanation:** Incorrect hardware configuration change detected

**Response:** Re-IPL the system. If any reference codes are surfaced, use the new reference code to resolve the problem.

---

If you cannot resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

57FF9092    57FF9092

**Explanation:** Disk unit requires initialization before use.

**Response:**

**Failing Item:**

- IOPIP26
- 

57FF9500    57FF9500

**Explanation:** Internal program error in driver code.

**Failing Item:**

- PTFSRCH
- 

57FF9902    57FF9902

**Explanation:** System log entry only. No service action required.

---

57FF9903    57FF9903

**Explanation:** Tape device information was logged. Informational event, no service required.

---

57FFC000    57FFC000

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57FFC100    57FFC100

**Explanation:** System log entry only. No service action required.

**Response:** No action is required. This reference code is logged for information only.

---

57FFC402    57FFC402

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- PTFSRCH
-

## 57FFFF3D • 57FFFF6D

---

57FFFF3D 57FFFF3D

**Explanation:** I/O adapter detected a recoverable error

**Failing Item:**

- STORIOA
- ANYBRDG

---

57FFFF6D 57FFFF6D

**Explanation:** Recoverable system bus error

**Failing Item:**

- STORIOA
- ANYBRDG
- PTFSRCH

---

## (58B0) Reference codes

---

58B0102E 58B0102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B03002 58B03002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B03010 58B03010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B03020 58B03020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B03029 58B03029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B03100 58B03100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B03109 58B03109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B0310C 58B0310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B0310D 58B0310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B03110 58B03110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B03130 58B03130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B034FF 58B034FF

**Explanation:** Format in progress

## 58B04041 • 58B0FFF9

**Response:** No action required. This reference code is logged for information only.

---

58B04041    58B04041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

58B04060    58B04060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

58B04061    58B04061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

58B04100    58B04100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

58B07000    58B07000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

58B07001    58B07001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B070DD    58B070DD

**Explanation:** System log entry only, no service action required

---

58B0FFF3    58B0FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

58B0FFF4    58B0FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

58B0FFF5    58B0FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B0FFF6    58B0FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B0FFF7    58B0FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B0FFF9    58B0FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B0FFFA 58B0FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B0FFFB 58B0FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B0FFFC 58B0FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B0FFFD 58B0FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B0FFFE 58B0FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (58B2) Reference codes

---

58B2102E 58B2102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B23002 58B23002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B23010 58B23010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B23020 58B23020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B23029 58B23029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B23100 58B23100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B23109 58B23109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B2310C 58B2310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B2310D 58B2310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B23110 58B23110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B23130 58B23130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B234FF 58B234FF

**Explanation:** Format in progress

## 58B24041 • 58B2FFF9

**Response:** No action required. This reference code is logged for information only.

---

58B24041    58B24041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

58B24060    58B24060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

58B24061    58B24061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

58B24100    58B24100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

58B27000    58B27000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

58B27001    58B27001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B270DD    58B270DD

**Explanation:** System log entry only, no service action required

---

58B2FFF3    58B2FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

58B2FFF4    58B2FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

58B2FFF5    58B2FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B2FFF6    58B2FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B2FFF7    58B2FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B2FFF9    58B2FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B2FFFA 58B2FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B2FFFB 58B2FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B2FFFC 58B2FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B2FFFD 58B2FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B2FFFE 58B2FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B3) Reference codes

---

58B3102E 58B3102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B33002 58B33002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B33010 58B33010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B33020 58B33020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B33029 58B33029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B33100 58B33100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B33109 58B33109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B3310C 58B3310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B3310D 58B3310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B33110 58B33110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B33130 58B33130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B334FF 58B334FF

**Explanation:** Format in progress

## 58B34041 • 58B3FFF9

**Response:** No action required. This reference code is logged for information only.

---

58B34041    58B34041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

58B34060    58B34060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

58B34061    58B34061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

58B34100    58B34100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

58B37000    58B37000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

58B37001    58B37001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B370DD    58B370DD

**Explanation:** System log entry only, no service action required

---

58B3FFF3    58B3FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

58B3FFF4    58B3FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

58B3FFF5    58B3FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B3FFF6    58B3FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B3FFF7    58B3FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B3FFF9    58B3FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B3FFFA 58B3FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B3FFFB 58B3FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B3FFFC 58B3FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B3FFFD 58B3FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B3FFFE 58B3FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (58B4) Reference codes

---

58B4102E 58B4102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B43002 58B43002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B43010 58B43010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B43020 58B43020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B43029 58B43029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B43100 58B43100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B43109 58B43109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B4310C 58B4310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B4310D 58B4310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B43110 58B43110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B43130 58B43130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B434FF 58B434FF

**Explanation:** Format in progress

## 58B44041 • 58B4FFF9

**Response:** No action required. This reference code is logged for information only.

---

58B44041    58B44041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

58B44060    58B44060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

58B44061    58B44061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

58B44100    58B44100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

58B47000    58B47000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

58B47001    58B47001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B470DD    58B470DD

**Explanation:** System log entry only, no service action required

---

58B4FFF3    58B4FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

58B4FFF4    58B4FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

58B4FFF5    58B4FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B4FFF6    58B4FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B4FFF7    58B4FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B4FFF9    58B4FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B4FFFA 58B4FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B4FFFB 58B4FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B4FFFC 58B4FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B4FFFD 58B4FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B4FFFE 58B4FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (58B5) Reference codes

---

58B5102E 58B5102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B53002 58B53002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B53010 58B53010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B53020 58B53020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B53029 58B53029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B53100 58B53100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B53109 58B53109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B5310C 58B5310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B5310D 58B5310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B53110 58B53110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B53130 58B53130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B534FF 58B534FF

**Explanation:** Format in progress

## 58B54041 • 58B5FFF9

**Response:** No action required. This reference code is logged for information only.

---

58B54041    58B54041

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

58B54060    58B54060

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

58B54061    58B54061

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

58B54100    58B54100

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

58B57000    58B57000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

58B57001    58B57001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B570DD    58B570DD

**Explanation:** System log entry only, no service action required

---

58B5FFF3    58B5FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

58B5FFF4    58B5FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

58B5FFF5    58B5FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B5FFF6    58B5FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B5FFF7    58B5FFF7

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

58B5FFF9    58B5FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B5FFFA 58B5FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B5FFFB 58B5FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B5FFFC 58B5FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B5FFFD 58B5FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B5FFFE 58B5FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150





---

## (58B6) Reference codes

---

58B6102E 58B6102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

58B63002 58B63002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DEVBPLN
- SASCABL
- SASEXP

---

58B63010 58B63010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B63020 58B63020

**Explanation:** Replacement device is not supported

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

---

58B63029 58B63029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

58B63100 58B63100

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL

- SASEXP

---

58B63109 58B63109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B6310C 58B6310C

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B6310D 58B6310D

**Explanation:** Device bus error.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

58B63110 58B63110

**Explanation:** Device bus interface error occurred

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

58B63130 58B63130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

58B634FF 58B634FF

**Explanation:** Format in progress

## 58B64041 • 58B6FFF9

**Response:** No action required. This reference code is logged for information only.

---

**58B64041**    **58B64041**

**Explanation:** Incomplete multipath connection

**Response:** Incomplete multipath connection between device backplane and device.

**Failing Item:**

- SIP3146

---

**58B64060**    **58B64060**

**Explanation:** Multipath redundancy level reduced

**Response:** A redundant disk unit connection has failed.

**Failing Item:**

- SIP3153
- SASCABL
- SASEXP

---

**58B64061**    **58B64061**

**Explanation:** Multipath redundancy level increased

**Response:** A redundant disk unit connection has been restored. No service action is required.

---

**58B64100**    **58B64100**

**Explanation:** Device bus fabric error

**Failing Item:**

- SIP3152
- SASCABL
- SASEXP
- DEVBPLN
- STORIOA
- DISKDRV

---

**58B67000**    **58B67000**

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

---

**58B67001**    **58B67001**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B670DD**    **58B670DD**

**Explanation:** System log entry only, no service action required

---

**58B6FFF3**    **58B6FFF3**

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV

---

**58B6FFF4**    **58B6FFF4**

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
- STORIOA

---

**58B6FFF5**    **58B6FFF5**

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B6FFF6**    **58B6FFF6**

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B6FFF7**    **58B6FFF7**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B6FFF9**    **58B6FFF9**

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV

---

**58B6FFFA 58B6FFFA**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- SASCABL
- SASEXP

---

**58B6FFFB 58B6FFFB**

**Explanation:** SAS bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**58B6FFFC 58B6FFFC**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B6FFFD 58B6FFFD**

**Explanation:** Soft device bus error.

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3250
- DISKDRV
- STORIOA

---

**58B6FFFE 58B6FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- SIP3150



---

## (5907) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

59073000    59073000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

59073202    59073202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

59073400    59073400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

59079020    59079020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

59079100    59079100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

59079101    59079101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

59079102      59079102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

59079103      59079103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

59079200      59079200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

59079201      59079201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

59079202      59079202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

59079210      59079210

**Explanation:** Illegal or unsupported tape unit response

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

59079211      59079211

**Explanation:** Gateway device detected a bus protocol error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

59079220      59079220

**Explanation:** Hardware configuration change detected

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

59079300      59079300

**Explanation:** Tape unit failure

**Failing Item:**

- FI00871

---

59079301      59079301

**Explanation:** Tape device failure, redundancy lost

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

59079302      59079302

**Explanation:** Tape device failure or media error

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

59079303      59079303

**Explanation:** Gateway device failure

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

59079304      59079304

**Explanation:** Tape unit failure

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

59079310      59079310

**Explanation:** Licensed Internal Code for the tape unit is not correct

**Failing Item:**

- PTFSRCH
- FI00871

---

59079320    59079320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

59079321    59079321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

59079350    59079350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

59079351    59079351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

59079355    59079355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

59079500    59079500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

59079501    59079501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

59079800    59079800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

59079801    59079801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

59079802    59079802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

59079803    59079803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

59079804    59079804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

59079805    59079805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

59079810    59079810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

59079899    59079899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

59079900    59079900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

59079901    59079901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

59079902    59079902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

59079903    59079903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

5907FFF6    5907FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (6258) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

62583000      62583000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

62583202      62583202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

62583400      62583400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

62589020      62589020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

62589100      62589100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

62589101      62589101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

62589102      62589102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

62589103      62589103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

62589200      62589200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

62589201      62589201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

62589202      62589202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**62589210      62589210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**62589211      62589211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**62589220      62589220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**62589300      62589300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**62589301      62589301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**62589302      62589302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**62589303      62589303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**62589304      62589304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**62589310      62589310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**62589320**    **62589320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**62589321**    **62589321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**62589350**    **62589350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**62589351**    **62589351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**62589355**    **62589355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**62589500**    **62589500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**62589501**    **62589501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**62589800**    **62589800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**62589801**    **62589801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**62589802**    **62589802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**62589803**    **62589803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

62589804      62589804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62589805      62589805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62589810      62589810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

62589899      62589899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

62589900      62589900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIP04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

62589901      62589901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

62589902      62589902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

62589903      62589903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6258FFF6      6258FFF6

**Explanation:** Tape volume statistics logged (no action required)





---

## (6279) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

62793000      62793000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

62793202      62793202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

62793400      62793400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

62799020      62799020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

62799100      62799100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

62799101      62799101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

62799102      62799102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

62799103      62799103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

62799200      62799200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

62799201      62799201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

62799202      62799202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**62799210**      **62799210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**62799211**      **62799211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**62799220**      **62799220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**62799300**      **62799300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**62799301**      **62799301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**62799302**      **62799302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**62799303**      **62799303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**62799304**      **62799304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**62799310**      **62799310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

 62799320      62799320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

62799321      62799321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

62799350      62799350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

62799351      62799351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

62799355      62799355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

62799500      62799500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

62799501      62799501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

62799800      62799800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62799801      62799801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62799802      62799802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62799803      62799803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

62799804      62799804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62799805      62799805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

62799810      62799810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

62799899      62799899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

62799900      62799900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

62799901      62799901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

62799902      62799902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

62799903      62799903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6279FFF6      6279FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (6320) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6320C000    6320C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6320C002    6320C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6320C010    6320C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6320C020    6320C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6320C022    6320C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6320C023**    **6320C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6320C100**    **6320C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6320C110**    **6320C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6320C210**    **6320C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6320C300**    **6320C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6320C301**    **6320C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6320C302**    **6320C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6320C303**    **6320C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6320C332**    **6320C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6320C333**    **6320C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.



3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6320C400    6320C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6320C402    6320C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6320CFF2    6320CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320CFF4    6320CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

**6320CFF6    6320CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

**6320CFF7    6320CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320CFFE    6320CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320FF09    6320FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

**6320FF3D    6320FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6320FF6D    6320FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6321) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6321C000    6321C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6321C002    6321C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6321C010    6321C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6321C020    6321C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6321C022    6321C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6321C023**    **6321C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6321C100**    **6321C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6321C110**    **6321C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6321C210**    **6321C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1126** System reference codes (1xxx - Axxx)

---

**6321C300**    **6321C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6321C301**    **6321C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6321C302**    **6321C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6321C303**    **6321C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6321C332**    **6321C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6321C333**    **6321C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6321C400    6321C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6321C402    6321C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6321CFF2    6321CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321CFF4    6321CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

**6321CFF6    6321CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

**6321CFF7    6321CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321CFFE    6321CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321FF09    6321FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

**6321FF3D    6321FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6321FF6D    6321FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (632B) Reference codes

---

632BCFC1 632BCFC1

**Explanation:** Virtual media list access problem

**Response:** A virtual optical device cannot access the file containing the list of volumes.

On this partition and the Network File System server, ensure the proper file is specified and proper authority is granted.

**Failing Item:**

- SVCDOCS
- 

632BCFC2 632BCFC2

**Explanation:** Error reading virtual volume list

**Response:** A non-recoverable error was detected while reading the list of volumes.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

632BCFC3 632BCFC3

**Explanation:** Virtual media volume list is not valid

**Response:** The data in the list of volumes is not valid.

On the Network File System server, ensure that the proper file is specified, that all files are entered correctly, that there are no blank lines, and that the character set used is valid.

**Failing Item:**

- SVCDOCS
- 

632BCFC4 632BCFC4

**Explanation:** Virtual optical volume access problem

**Response:** A virtual optical device cannot access the file containing the specified optical volume.

On the Network File System server, ensure the proper file is specified in the list of volumes, and that the proper authority is granted.

**Failing Item:**

- SVCDOCS
- 

632BCFC5 632BCFC5

**Explanation:** Error reading virtual optical volume

**Response:** A non-recoverable error was detected while reading a virtual optical volume.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

632BCFC6 632BCFC6

**Explanation:** Virtual optical volume is not valid

**Response:** The file specified does not contain data that can be processed as a virtual optical volume.

On the Network File System server, ensure all the files specified in the list of optical volumes are correct.

**Failing Item:**

- SVCDOCS
- 

632BCFC7 632BCFC7

**Explanation:** Virtual optical device detected error

**Response:** A virtual optical device detected an error reported by the Network File System server that cannot be recovered.

Check for errors on the Network File System server and resolve them. Then retry the operation. If the failure reoccurs, contact your hardware service provider.

**Failing Item:**

- SVCDOCS
- 

632BCFC8 632BCFC8

**Explanation:** Virtual optical device error

**Response:** A virtual optical device encountered a non-recoverable error.

Contact your next level of support for assistance.

**Failing Item:**

- NEXTLVL
-





---

## (632C) Reference codes

---

632CC000 632CC000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

632CC002 632CC002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Response:** Refer to the hosting partition for problem analysis.

---

632CC010 632CC010

**Explanation:** Undefined sense key returned by device

**Response:** Refer to the hosting partition for problem analysis.

---

632CC020 632CC020

**Explanation:** Configuration error

**Response:** Refer to the hosting partition for problem analysis.

---

632CC022 632CC022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition. Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.

2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.
- 

632CC023 632CC023

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
  2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
  3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  4. Ensure that the latest optical LIC PTFs have been applied.
- 

632CC100 632CC100

**Explanation:** SCSI Bus error occurred

**Response:** Refer to the hosting partition for problem analysis.

---

632CC110 632CC110

**Explanation:** SCSI command timeout occurred

**Response:** Refer to the hosting partition for problem analysis.

---

632CC210 632CC210

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

---

**632CC300**    **632CC300**
**Explanation:** Media or device error occurred**Response:** Refer to the hosting partition for problem analysis.

---

**632CC301**    **632CC301**
**Explanation:** Media or device error occurred**Response:** Refer to the hosting partition for problem analysis.

---

**632CC302**    **632CC302**
**Explanation:** Media or device error occurred**Response:** Refer to the hosting partition for problem analysis.

---

**632CC303**    **632CC303**
**Explanation:** Media had an unknown format**Response:** No action required. This reference code is logged for information only.

---

**632CC333**    **632CC333**
**Explanation:** Incompatible media**Response:** Perform the following:

1. Verify that the disk has a format that is given support.
2. If the format is given support, clean the disk and attempt the failing operation again.
3. If the operation fails again with the same reference code, ask your media source for a replacement disk.

---

**632CC400**    **632CC400**
**Explanation:** Physical link error detected by device**Response:** Refer to the hosting partition for problem analysis.

---

**632CC402**    **632CC402**
**Explanation:** Licensed Internal Code program error occurred**Response:** Ask your next level of support for assistance.**Failing Item:**

- PTFSRCH

---

**632CCFF2**    **632CCFF2**
**Explanation:** Device not ready - Start Unit issued**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**632CCFF4**    **632CCFF4**
**Explanation:** Internal device error occurred**Response:** Refer to the hosting partition for problem analysis.

---

**632CCFF6**    **632CCFF6**
**Explanation:** The device successfully recovered from a temporary error**Response:** No action is required. This reference code is logged for information only.

---

**632CCFF7**    **632CCFF7**
**Explanation:** Recovered device error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**632CCFFE**    **632CCFFE**
**Explanation:** Recovered SCSI bus error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**632CFF3D**    **632CFF3D**
**Explanation:** Recovered IOA error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**632CFF6D**    **632CFF6D**
**Explanation:** Recovered SPD bus error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

## (6330) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6330C000    6330C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6330C002    6330C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6330C010    6330C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6330C020    6330C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6330C022    6330C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.  
Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6330C023**    **6330C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6330C100**    **6330C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6330C110**    **6330C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6330C210**    **6330C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1134** System reference codes (1xxx - Axxx)

---

**6330C300**    **6330C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6330C301**    **6330C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6330C302**    **6330C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6330C303**    **6330C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6330C332**    **6330C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6330C333**    **6330C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

---

**6330C400 6330C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

---

**6330C402 6330C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

---

**6330CFF2 6330CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6330CFF4 6330CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

---

**6330CFF6 6330CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

---

**6330CFF7 6330CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6330CFFE 6330CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6330FF09 6330FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

---

**6330FF3D 6330FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6330FF6D 6330FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6331) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6331C000    6331C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6331C002    6331C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6331C010    6331C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6331C020    6331C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6331C022    6331C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6331C023**    **6331C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6331C100**    **6331C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6331C110**    **6331C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6331C210**    **6331C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6331C300**    **6331C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6331C301**    **6331C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6331C302**    **6331C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6331C303**    **6331C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6331C332**    **6331C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6331C333**    **6331C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.



3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6331C400 6331C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6331C402 6331C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6331CFF2 6331CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6331CFF4 6331CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

**6331CFF6 6331CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

**6331CFF7 6331CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6331CFFE 6331CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6331FF09 6331FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

**6331FF3D 6331FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6331FF6D 6331FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6333) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6333C000    6333C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6333C002    6333C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6333C010    6333C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6333C020    6333C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6333C022    6333C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.  
Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6333C023**    **6333C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6333C100**    **6333C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6333C110**    **6333C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6333C210**    **6333C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333C300**    **6333C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6333C301**    **6333C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6333C302**    **6333C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6333C303**    **6333C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6333C332**    **6333C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6333C333**    **6333C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

---

**6333C400 6333C400****Explanation:** Physical link error detected by device**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

---

**6333C402 6333C402****Explanation:** Licensed Internal Code error**Response:** Ask your next level of support for assistance.**Failing Item:**

- FI00130

---

**6333CFF2 6333CFF2****Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333CFF4 6333CFF4****Explanation:** Internal device error occurred**Failing Item:**

- FI00870
- MEDIA

---

**6333CFF6 6333CFF6****Explanation:** Device successfully recovered from a temporary error**Response:** No action is required. This reference code is logged for information only.

---

**6333CFF7 6333CFF7****Explanation:** Recovered device error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333CFFE 6333CFFE****Explanation:** Recovered SCSI bus error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333FF09 6333FF09****Explanation:** Licensed Internal Code for optical device was not upgraded**Response:** This reference code is logged for information only.

---

**6333FF3D 6333FF3D****Explanation:** Recovered IOA error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6333FF6D 6333FF6D****Explanation:** Recovered SPD bus error**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6336) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6336C000    6336C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6336C002    6336C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6336C010    6336C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6336C020    6336C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6336C022    6336C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6336C023**    **6336C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6336C100**    **6336C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6336C110**    **6336C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6336C210**    **6336C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1146** System reference codes (1xxx - Axxx)

---

**6336C300**    **6336C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6336C301**    **6336C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6336C302**    **6336C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6336C303**    **6336C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6336C332**    **6336C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6336C333**    **6336C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.



3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

---

**6336C400 6336C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

---

**6336C402 6336C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

---

**6336CFF2 6336CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6336CFF4 6336CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

---

**6336CFF6 6336CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

---

**6336CFF7 6336CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6336CFFE 6336CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6336FF09 6336FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

---

**6336FF3D 6336FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

---

**6336FF6D 6336FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6337) Reference codes

An optical storage unit failure occurred.

### Notes:

1. If the system is available, use online diagnostic tests when possible.
2. Use the Hardware Service Manager (HSM) verify function (via DST or SST) and verify that the unit is operating correctly.
3. Search the problem log (WRKPRB) for a recent optical storage entry that might assist in analyzing the problem. The WRKPRB entry will provide a reference code that can be found in the following table.

If the system is available, attempt the failing operation again with an optical media that is known to be good. Does the operation complete successfully?

**Yes:** The original optical media may be defective, or the problem may be intermittent. Attempt the failing operation again with the original optical media to verify. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for word 1. These 8 characters are the reference code. Find the reference code in the following table.

---

6337C000    6337C000

**Explanation:** System log entry only, no service action required

**Response:** No action is required. This reference code is logged for information only.

---

6337C002    6337C002

**Explanation:** SCSI Selection or Reselection timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

6337C010    6337C010

**Explanation:** Undefined sense key returned by device

**Failing Item:**

- FI00870

---

6337C020    6337C020

**Explanation:** Configuration error

**Failing Item:**

- FI00870

---

6337C022    6337C022

**Explanation:** Unable to determine all device capabilities. Reported media support may be inaccurate. Function may be reduced.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

- If this device is a client virtual optical device
  1. If no function reduction exists, no action is required.

Note: Inaccuracies in media support reporting is not likely to cause a functional problem.
  2. Verify that the backing device on the server is varied on, operational, and not in exclusive use by another partition . Once these things are verified, IPL the virtual IOP on the client partition or vary the server partition's NWSD off and on.
  3. Ensure that the latest optical LIC PTFs have been applied to both the client and server partitions.
- If this device is NOT a client virtual optical device
  1. If no function reduction exists, no action is required.
  2. This is likely a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
  3. Ensure that the latest optical LIC PTFs have been applied.

---

**6337C023**    **6337C023**

**Explanation:** Unable to determine all device capabilities or device characteristics are not supported with the current LIC. Writes will be blocked for this device. If a write is attempted, the device will be marked failed.

**Response:** No action is required. This reference code is logged for information only.

**Problem determination:**

1. If the device doesn't support writing to media, no action is required.
2. If any enabling PTFs have been specified for this device feature, verify they have been applied.
3. This may be a secondary error. Other PAL entries logged at approximately the same time as this one may explain the problem (e.g., interface errors may have prevented identification of device characteristics.)
4. Ensure that the latest optical LIC PTFs have been applied.

---

**6337C100**    **6337C100**

**Explanation:** SCSI Bus error occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6337C110**    **6337C110**

**Explanation:** SCSI command timeout occurred

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- MEDIA
- FI01141
- FI01140

---

**6337C210**    **6337C210**

**Explanation:** Unexpected device condition

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**1150** System reference codes (1xxx - Axxx)

---

**6337C300**    **6337C300**

**Explanation:** Media or device error occurred

**Response:** Perform the following:

1. Clean the disk.
2. Attempt the failing operation again.
3. If this does not correct the problem, exchange the failing items.

**Failing Item:**

- MEDIA
- FI00870

---

**6337C301**    **6337C301**

**Explanation:** Media or device error occurred

**Response:** Dust check encountered. The optical media or the optical lens of the drive is dirty.

Clean the optical drive and the media contained in the drive.

---

**6337C302**    **6337C302**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6337C303**    **6337C303**

**Explanation:** Media had an unknown format

**Response:** No action required. This reference code is logged for information only.

---

**6337C332**    **6337C332**

**Explanation:** Media or device error occurred

**Response:** The device encountered an 'out of spare sectors' condition when writing to the media. The media can no longer be written to but is still readable.

Clean the optical drive and the media contained in the drive.

---

**6337C333**    **6337C333**

**Explanation:** Incompatible media

**Response:** Perform the following:

1. Verify that the disk has a supported format.
2. If the format is supported, clean the disk and attempt the failing operation again.

3. If the operation fails again and results in the same reference code, ask your media source for a replacement disk.

**Failing Item:**

- MEDIA
- FI00870

**6337C400 6337C400**

**Explanation:** Physical link error detected by device

**Failing Item:**

- FI00870
- CNVTCRD
- FI01106
- STORIOA
- FI01140
- FI01141

**6337C402 6337C402**

**Explanation:** Licensed Internal Code error

**Response:** Ask your next level of support for assistance.

**Failing Item:**

- FI00130

**6337CFF2 6337CFF2**

**Explanation:** Device not ready - Start Unit issued

The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337CFF4 6337CFF4**

**Explanation:** Internal device error occurred

**Failing Item:**

- FI00870
- MEDIA

**6337CFF6 6337CFF6**

**Explanation:** Device successfully recovered from a temporary error

**Response:** No action is required. This reference code is logged for information only.

**6337CFF7 6337CFF7**

**Explanation:** Recovered device error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337CFFE 6337CFFE**

**Explanation:** Recovered SCSI bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337FF09 6337FF09**

**Explanation:** Licensed Internal Code for optical device was not upgraded

**Response:** This reference code is logged for information only.

**6337FF3D 6337FF3D**

**Explanation:** Recovered IOA error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.

**6337FF6D 6337FF6D**

**Explanation:** Recovered SPD bus error

**Response:** The device successfully recovered from a temporary error.

No action is required. This reference code is logged for information only.



---

## (6382) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

63823000      63823000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

63823202      63823202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

63823400      63823400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

63829020      63829020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

63829100      63829100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63829101      63829101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

63829102      63829102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

63829103      63829103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

63829200      63829200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

63829201      63829201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

63829202      63829202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.



2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63829210      63829210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63829211      63829211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63829220      63829220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63829300      63829300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63829301      63829301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63829302      63829302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63829303      63829303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63829304      63829304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63829310      63829310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**63829320**    **63829320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**63829321**    **63829321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63829350**    **63829350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63829351**    **63829351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63829355**    **63829355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63829500**    **63829500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63829501**    **63829501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**63829800**    **63829800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63829801**    **63829801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63829802**    **63829802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63829803**    **63829803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

63829804      63829804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63829805      63829805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63829810      63829810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63829899      63829899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63829900      63829900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63829901      63829901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63829902      63829902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63829903      63829903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6382FFF6      6382FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (6383) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

63833000      63833000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

63833202      63833202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

63833400      63833400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

63839020      63839020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

63839100      63839100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63839101      63839101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

63839102      63839102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

63839103      63839103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

63839200      63839200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

63839201      63839201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

63839202      63839202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63839210**      **63839210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63839211**      **63839211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63839220**      **63839220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63839300**      **63839300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63839301**      **63839301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63839302**      **63839302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63839303**      **63839303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63839304**      **63839304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63839310**      **63839310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**63839320**    **63839320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**63839321**    **63839321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63839350**    **63839350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63839351**    **63839351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63839355**    **63839355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63839500**    **63839500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63839501**    **63839501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**63839800**    **63839800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63839801**    **63839801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63839802**    **63839802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63839803**    **63839803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

63839804      63839804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63839805      63839805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63839810      63839810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63839899      63839899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63839900      63839900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63839901      63839901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63839902      63839902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63839903      63839903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6383FFF6      6383FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (6384) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

63843000      63843000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

63843202      63843202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

63843400      63843400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

63849020      63849020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

63849100      63849100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63849101      63849101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

63849102      63849102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

63849103      63849103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

63849200      63849200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

63849201      63849201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

63849202      63849202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63849210      63849210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63849211      63849211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63849220      63849220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63849300      63849300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63849301      63849301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63849302      63849302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63849303      63849303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63849304      63849304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63849310      63849310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

 63849320      63849320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

63849321      63849321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

63849350      63849350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63849351      63849351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63849355      63849355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

63849500      63849500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

63849501      63849501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

63849800      63849800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63849801      63849801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63849802      63849802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63849803      63849803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

63849804      63849804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63849805      63849805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63849810      63849810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63849899      63849899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63849900      63849900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63849901      63849901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63849902      63849902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63849903      63849903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6384FFF6      6384FFF6

**Explanation:** Tape volume statistics logged (no action required)





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## (6386) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

63863000      63863000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

63863202      63863202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

63863400      63863400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

63869020      63869020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

63869100      63869100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63869101      63869101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

63869102      63869102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

63869103      63869103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

63869200      63869200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

63869201      63869201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

63869202      63869202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63869210**      **63869210**
**Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63869211**      **63869211**
**Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63869220**      **63869220**
**Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63869300**      **63869300**
**Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63869301**      **63869301**
**Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63869302**      **63869302**
**Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63869303**      **63869303**
**Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63869304**      **63869304**
**Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63869310**      **63869310**
**Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**63869320**      **63869320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

**63869321**      **63869321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

**63869350**      **63869350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63869351**      **63869351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

**63869355**      **63869355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

**63869500**      **63869500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

**63869501**      **63869501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

**63869800**      **63869800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63869801**      **63869801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63869802**      **63869802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63869803**      **63869803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

63869804      63869804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63869805      63869805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63869810      63869810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63869899      63869899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63869900      63869900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63869901      63869901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63869902      63869902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63869903      63869903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6386FFF6      6386FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (6387) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

63873000      63873000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

63873202      63873202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

63873400      63873400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

63879020      63879020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

63879100      63879100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63879101      63879101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

63879102      63879102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

63879103      63879103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

63879200      63879200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

63879201      63879201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

63879202      63879202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.



2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

63879210      63879210

**Explanation:** Illegal or unsupported tape unit response

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

63879211      63879211

**Explanation:** Gateway device detected a bus protocol error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

63879220      63879220

**Explanation:** Hardware configuration change detected

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

63879300      63879300

**Explanation:** Tape unit failure

**Failing Item:**

- FI00871

---

63879301      63879301

**Explanation:** Tape device failure, redundancy lost

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

63879302      63879302

**Explanation:** Tape device failure or media error

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

63879303      63879303

**Explanation:** Gateway device failure

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

63879304      63879304

**Explanation:** Tape unit failure

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

63879310      63879310

**Explanation:** Licensed Internal Code for the tape unit is not correct

**Failing Item:**

- PTFSRCH
- FI00871

---

 63879320      63879320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

63879321      63879321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

63879350      63879350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63879351      63879351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

63879355      63879355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

63879500      63879500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

63879501      63879501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

63879800      63879800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63879801      63879801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63879802      63879802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63879803      63879803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

63879804      63879804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63879805      63879805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63879810      63879810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63879899      63879899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63879900      63879900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63879901      63879901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63879902      63879902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63879903      63879903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

6387FFF6      6387FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (63A0) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

**63A03000**    **63A03000**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

**63A03202**    **63A03202**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

**63A03400**    **63A03400**

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

**63A09020**    **63A09020**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

**63A09100**    **63A09100**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A09101**    **63A09101**

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

**63A09102    63A09102**

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

**63A09103    63A09103**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

**63A09200    63A09200**

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

**63A09201    63A09201**

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

**63A09202    63A09202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A09210    63A09210****Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63A09211    63A09211****Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63A09220    63A09220****Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63A09300    63A09300****Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63A09301    63A09301****Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63A09302    63A09302****Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63A09303    63A09303****Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63A09304    63A09304****Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63A09310    63A09310****Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**63A09320**    **63A09320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
- FI00871

---

**63A09321**    **63A09321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE

---

**63A09350**    **63A09350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

**63A09351**    **63A09351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

**63A09355**    **63A09355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
- MEDIA
- TAPCLN
- FI00871

---

**63A09500**    **63A09500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH

---

**63A09501**    **63A09501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

**63A09800**    **63A09800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A09801**    **63A09801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A09802**    **63A09802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A09803**    **63A09803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

63A09804    63A09804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63A09805    63A09805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63A09810    63A09810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63A09899    63A09899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63A09900    63A09900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63A09901    63A09901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63A09902    63A09902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63A09903    63A09903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

63A0FFF6    63A0FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (63A1) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

**63A13000**    **63A13000**

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

**63A13202**    **63A13202**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

**63A13400**    **63A13400**

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

**63A19020**    **63A19020**

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

**63A19100**    **63A19100**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A19101**    **63A19101**

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

**63A19102    63A19102**

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

**63A19103    63A19103**

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

**63A19200    63A19200**

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

**63A19201    63A19201**

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

**63A19202    63A19202**

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

**63A19210 63A19210****Explanation:** Illegal or unsupported tape unit response**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

**63A19211 63A19211****Explanation:** Gateway device detected a bus protocol error**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

**63A19220 63A19220****Explanation:** Hardware configuration change detected**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

**63A19300 63A19300****Explanation:** Tape unit failure**Failing Item:**

- FI00871

---

**63A19301 63A19301****Explanation:** Tape device failure, redundancy lost**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.**Failing Item:**

- FI00871

---

**63A19302 63A19302****Explanation:** Tape device failure or media error**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

**63A19303 63A19303****Explanation:** Gateway device failure**Response:** Use the gateway device service documentation to analyze the problem.**Failing Item:**

- FCGATE

---

**63A19304 63A19304****Explanation:** Tape unit failure**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

**63A19310 63A19310****Explanation:** Licensed Internal Code for the tape unit is not correct**Failing Item:**

- PTFSRCH
- FI00871

---

**63A19320**    **63A19320**

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
- FI00871

---

**63A19321**    **63A19321**

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE

---

**63A19350**    **63A19350**

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

**63A19351**    **63A19351**

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
- TAPCLN
- FI00871

---

**63A19355**    **63A19355**

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
2. Clean the tape unit.

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
- MEDIA
- TAPCLN
- FI00871

---

**63A19500**    **63A19500**

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH

---

**63A19501**    **63A19501**

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH

---

**63A19800**    **63A19800**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A19801**    **63A19801**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A19802**    **63A19802**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

**63A19803**    **63A19803**

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

---

63A19804    63A19804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63A19805    63A19805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

63A19810    63A19810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

63A19899    63A19899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

63A19900    63A19900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

63A19901    63A19901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

63A19902    63A19902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

63A19903    63A19903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

63A1FFF6    63A1FFF6

**Explanation:** Tape volume statistics logged (no action required)





---

## (6607) Reference codes

---

6607102E    6607102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

66073002    66073002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

66073010    66073010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

66073020    66073020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

66073029    66073029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

66073100    66073100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

66073109    66073109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

66073110    66073110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

66073130    66073130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

66073131    66073131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

---

**66077000**    **66077000**
**Explanation:** Disk sector read error**Response:** No action required. This reference code is logged for information only.**Failing Item:**

- DISKDRV
- 

**66077001**    **66077001****Explanation:** Temporary disk data error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- 

**66077003**    **66077003****Explanation:** Device format error**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.**66077004**    **66077004****Explanation:** System log entry only. No service action required.**660770DD**    **660770DD****Explanation:** System log entry only, no service action required**6607FFF2**    **6607FFF2****Explanation:** Disk motor problem**Failing Item:**

- DISKDRV
- 

**6607FFF3**    **6607FFF3****Explanation:** Disk media format not valid**Failing Item:**

- DISKDRV
- 

**6607FFF4**    **6607FFF4****Explanation:** Disk device problem**Failing Item:**

- DISKDRV
  - STORIOA
- 

**6607FFF5**    **6607FFF5****Explanation:** Disk sector read error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- 

**6607FFF6**    **6607FFF6****Explanation:** Disk device detected recoverable error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- 

**6607FFF7**    **6607FFF7****Explanation:** Temporary disk data error**Response:** No action required. This reference code is logged for information only.**Failing Item:**

- DISKDRV
- 

**6607FFF8**    **6607FFF8****Explanation:** Temporary disk data error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- 

**6607FFF9**    **6607FFF9****Explanation:** Temporary disk data error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.**Failing Item:**

- DISKDRV
- 

**6607FFFA**    **6607FFFA****Explanation:** Temporary disk bus error**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6607FFFB    6607FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6607FFFE    6607FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6713) Reference codes

---

6713102E    6713102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

67133002    67133002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

67133010    67133010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

67133020    67133020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

67133029    67133029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

67133100    67133100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67133109    67133109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67133110    67133110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

67133130    67133130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

67133131    67133131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 67137000 • 6713FFFA

---

67137000    67137000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

67137001    67137001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

67137003    67137003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

67137004    67137004

**Explanation:** System log entry only. No service action required.

---

671370DD    671370DD

**Explanation:** System log entry only, no service action required

---

6713FFF2    6713FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

6713FFF3    6713FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

6713FFF4    6713FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

6713FFF5    6713FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6713FFF6    6713FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6713FFF7    6713FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

6713FFF8    6713FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6713FFF9    6713FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6713FFFA    6713FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6713FFFB    6713FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6713FFFE    6713FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (6714) Reference codes

---

6714102E    6714102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

67143002    67143002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

67143010    67143010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

67143020    67143020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

67143029    67143029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

67143100    67143100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67143109    67143109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67143110    67143110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

67143130    67143130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

67143131    67143131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 67147000 • 6714FFFA

---

67147000    67147000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

67147001    67147001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

67147003    67147003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

67147004    67147004

**Explanation:** System log entry only. No service action required.

---

671470DD    671470DD

**Explanation:** System log entry only, no service action required

---

6714FFF2    6714FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

6714FFF3    6714FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

6714FFF4    6714FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

6714FFF5    6714FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6714FFF6    6714FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6714FFF7    6714FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

6714FFF8    6714FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6714FFF9    6714FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6714FFFA    6714FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6714FFFB    6714FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6714FFFE    6714FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6717) Reference codes

---

6717102E    6717102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

67173002    67173002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

67173010    67173010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

67173020    67173020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

67173029    67173029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

67173100    67173100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67173109    67173109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67173110    67173110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

67173130    67173130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

67173131    67173131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 67177000 • 6717FFFA

---

67177000    67177000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

67177001    67177001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

67177003    67177003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

67177004    67177004

**Explanation:** System log entry only. No service action required.

---

671770DD    671770DD

**Explanation:** System log entry only, no service action required

---

6717FFF2    6717FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

6717FFF3    6717FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

6717FFF4    6717FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

6717FFF5    6717FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6717FFF6    6717FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6717FFF7    6717FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

6717FFF8    6717FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6717FFF9    6717FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6717FFFA    6717FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6717FFFB 6717FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6717FFFE 6717FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





---

## (6718) Reference codes

---

6718102E    6718102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV

---

67183002    67183002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- BACKPLN
- FI01106
- FI01140

---

67183010    67183010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141

---

67183020    67183020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
- FI01106
- STORIOA
- FI01140

---

67183029    67183029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

67183100    67183100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67183109    67183109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140

---

67183110    67183110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
- STORIOA
- DISKDRV
- FI01106
- FI01140

---

67183130    67183130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS

---

67183131    67183131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS

## 67187000 • 6718FFFA

---

67187000    67187000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

67187001    67187001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

67187003    67187003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

67187004    67187004

**Explanation:** System log entry only. No service action required.

---

671870DD    671870DD

**Explanation:** System log entry only, no service action required

---

6718FFF2    6718FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

6718FFF3    6718FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

6718FFF4    6718FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

6718FFF5    6718FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6718FFF6    6718FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6718FFF7    6718FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

6718FFF8    6718FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6718FFF9    6718FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6718FFFA    6718FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6718FFFB    6718FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6718FFFE    6718FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140



---

## (6719) Reference codes

---

6719102E    6719102E

**Explanation:** Out of alternate sectors for disk storage

**Failing Item:**

- DISKDRV
- 

67193002    67193002

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
  - STORIOA
  - BACKPLN
  - FI01106
  - FI01140
- 

67193010    67193010

**Explanation:** Disk device returned wrong response to IOA

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01140
  - FI01141
- 

67193020    67193020

**Explanation:** Storage subsystem configuration error

**Response:** If an MES is being installed, verify the configuration.

**Failing Item:**

- DISKDRV
  - FI01106
  - STORIOA
  - FI01140
- 

67193029    67193029

**Explanation:** A device replacement has occurred

**Response:** No action required. This reference code is logged for information only.

---

67193100    67193100

**Explanation:** Tape/optical or disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

67193109    67193109

**Explanation:** IOA timed out a disk command

**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - FI01140
- 

67193110    67193110

**Explanation:** Disk bus interface error occurred

**Response:**

**Failing Item:**

- DSKIP03
  - STORIOA
  - DISKDRV
  - FI01106
  - FI01140
- 

67193130    67193130

**Explanation:** Device Licensed Internal Code

**Response:** The device is not supported with the level of code currently on the system. Contact your next level of support.

**Failing Item:**

- SVCDOCS
- 

67193131    67193131

**Explanation:** Device or IOA Licensed Internal Code

**Response:** The device does not support a needed attribute and is running with degraded performance. Contact your next level of support.

**Failing Item:**

- SVCDOCS
-

## 67197000 • 6719FFFA

---

67197000    67197000

**Explanation:** Disk sector read error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

67197001    67197001

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

67197003    67197003

**Explanation:** Device format error

**Response:** If the disk has not been formatted by the system, initialize and format the disk. See Work with disk unit recovery.

---

67197004    67197004

**Explanation:** System log entry only. No service action required.

---

671970DD    671970DD

**Explanation:** System log entry only, no service action required

---

6719FFF2    6719FFF2

**Explanation:** Disk motor problem

**Failing Item:**

- DISKDRV
- 

6719FFF3    6719FFF3

**Explanation:** Disk media format not valid

**Failing Item:**

- DISKDRV
- 

6719FFF4    6719FFF4

**Explanation:** Disk device problem

**Failing Item:**

- DISKDRV
  - STORIOA
- 

---

6719FFF5    6719FFF5

**Explanation:** Disk sector read error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6719FFF6    6719FFF6

**Explanation:** Disk device detected recoverable error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6719FFF7    6719FFF7

**Explanation:** Temporary disk data error

**Response:** No action required. This reference code is logged for information only.

**Failing Item:**

- DISKDRV
- 

6719FFF8    6719FFF8

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6719FFF9    6719FFF9

**Explanation:** Temporary disk data error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- 

6719FFFA    6719FFFA

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this

event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01140
- FI01141
- BACKPLN

---

**6719FFFB    6719FFFB**

**Explanation:** SCSI bus reset occurred

**Response:** No action required. This reference code is logged for information only.

---

**6719FFFE    6719FFFE**

**Explanation:** Temporary disk bus error

**Response:** If this event appears in a serviceable event view, work with the failing item list found there. If this event does not appear in a serviceable event view, no service action is required.

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- FI01140





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## (6A59) Reference codes

---

**6A590AD2**    **6A590AD2**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00718
- 

**6A590AD3**    **6A590AD3**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00718
- 

**6A590B25**    **6A590B25**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
  - FI00727
- 

**6A590BA0**    **6A590BA0**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590BAB**    **6A590BAB**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590BB0**    **6A590BB0**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590BD0**    **6A590BD0**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

---

**6A590BD1**    **6A590BD1**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590BEE**    **6A590BEE**

**Explanation:** I/O card Licensed Internal Code ended abnormally

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590C10**    **6A590C10**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
  - FI00727
- 

**6A590C20**    **6A590C20**

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590C30**    **6A590C30**

**Explanation:** Adapter card failed modem interface test

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590C40**    **6A590C40**

**Explanation:** Synchronous-data-link-control send-receive test failed

**Failing Item:**

- FI00719
  - FI00718
- 

**6A590C43**    **6A590C43**

---

## 6A590C50 • 6A59FFFF

**Explanation:** Synchronous-data-link-control send-receive test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C50 6A590C50

**Explanation:** Binary synchronous control send-receive test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C53 6A590C53

**Explanation:** Binary synchronous control send-receive test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C60 6A590C60

**Explanation:** Asynchronous send-receive test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C63 6A590C63

**Explanation:** Asynchronous send-receive test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C70 6A590C70

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C80 6A590C80

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590C90 6A590C90

**Explanation:** Communications adapter card X.21 test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590CA1 6A590CA1

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A590CC0 6A590CC0

**Explanation:** Communications adapter card test failed

**Failing Item:**

- FI00719
- FI00718

---

### 6A595007 6A595007

**Explanation:** Diagnostic wrap test completed; no errors detected

---

### 6A595008 6A595008

**Explanation:** Diagnostic wrap test completed; error was detected

**Failing Item:**

- FI00719
- DPAC
- FI00718

---

### 6A59FFFF 6A59FFFF

**Explanation:** User suspected problem

**Failing Item:**

- USER

---

## (6B25) Reference codes

---

6B253020    6B253020

**Explanation:** VIOS hosted, I/O processor detected a configuration error.

**Response:** Either too many devices or the wrong kind of devices have been configured under the IOA. Change the configuration.

**Failing Item:**

- SVCDOCS
- 

6B253100    6B253100

**Explanation:** VIOS hosted, I/O processor card detected interface error

**Failing Item:**

- VIOSLOG
  - FCINTF
  - ANYFC
  - FCIOA
  - OPT\_CLN
- 

6B253120    6B253120

**Explanation:** VIOS hosted, I/O processor detected a port failure.

**Failing Item:**

- FCCABLE
  - FCPORT
  - FCIOA
  - VIOSLOG
  - FCDEV
  - OPT\_CLN
- 

6B253140    6B253140

**Explanation:** VIOS hosted, I/O Processor detected that a port is now operational.

**Response:** This reference code and the 3120 reference code that occurred before it require no service action, since the port is now operational.

---

6B253400    6B253400

**Explanation:** VIOS hosted, I/O processor card detected device error.

**Failing Item:**

- FCDEV
  - FCINTF
- 

- ANYFC
  - FCIOA
  - OPT\_CLN
- 

6B253405    6B253405

**Explanation:** An error occurred during task initialization for a removable media device. This SRC is logged when an error occurs and the removable media device driver cannot determine the device type or model.

**Response:** Perform the following:

- Check the Product Activity Log for other entries that indicate interface problems and work those problems.
- Check the device firmware level and apply the latest PTFs.
- Check for LIC logs with major code 2E00. Contact your next level of support with the information you have gathered.

**Problem determination:** IPL the IOP to retry the device identification process. If the error persists then contact your service provider.

**Failing Item:**

- PTFSRCH
- 

6B258100    6B258100

**Explanation:** VIOS hosted, recovered Fibre Channel interface error

**Failing Item:**

- AJDGP01
- 

6B258130    6B258130

**Explanation:** VIOS hosted, recovered Fibre Channel interface error.

**Response:** No action required. This reference code is logged for information only.

---

6B258301    6B258301

**Explanation:** VIOS hosted, unexpected fibre channel error detected.

**Failing Item:**

- NEXTLVL
- 

6B259500    6B259500

**Explanation:** Internal program error in driver code.

---

## 6B259903

### Failing Item:

- PTFSRCH

---

6B259903    6B259903

**Explanation:** Tape device information was logged.  
Informational event, no service required.

---

## (7207) Reference codes

A tape or tape library device failure occurred.

**Note:** Use this table to handle reference codes that might be displayed during a type D IPL to install the operating system. If you are not performing a type D IPL of the operating system, consult any error logs found in the serviceable event view. If you cannot locate an error log in the serviceable event view that corresponds with the failure, run a verification test for the tape unit.

1. Verify that the device has power.
2. Check the device for any error indications. Refer to the device service information to resolve any error indications.
3. Clean the recording head in the tape device.
4. Attempt the failing operation again. Does the operation complete successfully?

**Yes:** You have corrected the problem. **This ends the procedure.**

**No:** Look at the 8 rightmost characters of the Data display for Function 11, which represent the reference code. Find the reference code in the following list.

---

72073000      72073000

**Explanation:** I/O adapter hardware error detected

**Failing Item:**

- FI01112

---

72073202      72073202

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the following condition is not present:

- The attached device type or model is only supported on an I/O adapter that is attached to an I/O processor.

**Failing Item:**

- TAPCNFG
- FI00871

---

72073400      72073400

**Explanation:** Device error has occurred

**Failing Item:**

- FI00872
- DEVTERM
- FI00871
- FI01103
- FI01106

---

72079020      72079020

**Explanation:** Tape unit configuration error

**Response:** Before exchanging any parts, verify that the

following conditions are not present:

- Tape and DASD devices attached to an I/O Processor that does not support Tape and Dasd devices at the same time.
- An unsupported device type or model is attached.

**Failing Item:**

- TAPCNFG
- FI00871
- PTFSRCH

---

72079100      72079100

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
2. For a SCSI attached device ensure that a terminating plug is attached to the device end of the cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

72079101      72079101

**Explanation:** Fibre Channel interface error detected

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the Fibre Channel cable is correctly connected to the ports.
2. Clean the Fibre Channel connectors.
3. If there is a switch or hub attached, verify that it is operational.
4. If there is a gateway device attached, refer to the gateway device service documentation for additional problem analysis procedures.
5. refer to the tape device service documentation for additional problem analysis procedures.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FCIOA
- FCDEV
- FCCABLE

72079102      72079102

**Explanation:** Gateway device detected a SCSI interface error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FI00871
- FCGATE
- FI00872
- DEVTERM

72079103      72079103

**Explanation:** Interface error detected by system or by tape unit

**Response:** If the attached device is an external tape device, do the following before exchanging any parts:

1. Ensure that the SAS cable is correctly connected to the ports.
2. Ensure that the device has power.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- SASCABL

72079200      72079200

**Explanation:** Tape unit is not responding

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the cable.
3. For a SCSI attached device ensure that a terminating plug is attached to the device end of the SCSI cable.

If the attached tape device is owned by a Virtual I/O Server partition refer to Troubleshooting the Virtual I/O Server to determine the parts to replace.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

72079201      72079201

**Explanation:** Tape unit command timeout

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.
2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the signal cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.
5. If the attached tape device is owned by a Virtual I/O Server partition it may be necessary to reset the virtual IOP to recover from the error.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM
- MEDIA

72079202      72079202

**Explanation:** Tape unit failed after Licensed Internal Code was loaded

**Response:** If the attached device is an external device, do the following before exchanging any parts:

1. Ensure that the device is powered on.

2. If an interposer is required, make sure that it is connected between the I/O processor and the SCSI cable.
3. Ensure that the SCSI cable is seated correctly, and that there are no bent or damaged pins on the SCSI cable.
4. Ensure that a terminating plug is attached to the device end of the SCSI cable.

**Failing Item:**

- FI00871
- FI01112
- FI00872
- DEVTERM

---

72079210    72079210

**Explanation:** Illegal or unsupported tape unit response

**Failing Item:**

- FI00871
- FI01112
- PTFSRCH

---

72079211    72079211

**Explanation:** Gateway device detected a bus protocol error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE
- FCIOA
- FI00871
- ANYFC
- FCCABLE
- FI00872
- DEVTERM

---

72079220    72079220

**Explanation:** Hardware configuration change detected

**Response:** The tape device or tape library device has reported a configuration change that requires the I/O processor to be reset. Reset the I/O processor before using the device.

---

72079300    72079300

**Explanation:** Tape unit failure

**Failing Item:**

- FI00871

---

72079301    72079301

**Explanation:** Tape device failure, redundancy lost

**Response:** The tape unit detected a hardware failure that does not prevent the tape unit from completing the current operation.

**Failing Item:**

- FI00871

---

72079302    72079302

**Explanation:** Tape device failure or media error

**Response:** The tape unit detected a failure that may be caused by a hardware failure or a media error.

Refer to the tape unit service information for possible information on diagnostic tests that can be run to isolate between hardware and media failures.

**Failing Item:**

- MEDIA
- FI00871

---

72079303    72079303

**Explanation:** Gateway device failure

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCGATE

---

72079304    72079304

**Explanation:** Tape unit failure

**Response:** Before exchanging any parts, do the following:

1. Ensure that the EKM server is operational and properly configured.
2. Ensure that the mounted cartridge is in the EKM server database.

**Failing Item:**

- USER
- FI00871

---

72079310    72079310

**Explanation:** Licensed Internal Code for the tape unit is not correct

**Failing Item:**

- PTFSRCH
- FI00871

---

 72079320      72079320

**Explanation:** Tape device Licensed Internal Code failure

**Failing Item:**

- FI00130
  - FI00871
- 

72079321      72079321

**Explanation:** Gateway device Licensed Internal Code error

**Response:** Use the gateway device service documentation to analyze the problem.

**Failing Item:**

- FCCODE
- 

72079350      72079350

**Explanation:** Tape unit detected a read or write error on tape medium

**Response:** A permanent read or write error occurred. Clean the tape unit and retry the operation.

If cleaning the tape unit does not correct the problem, exchange the tape media.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

72079351      72079351

**Explanation:** Tape with excessive error rate was mounted in tape device.

**Response:** The tape unit detected that the mounted tape cartridge has a history of excessive read and write errors. It is recommended that you exchange the tape cartridge.

**Failing Item:**

- MEDIA
  - TAPCLN
  - FI00871
- 

72079355      72079355

**Explanation:** The data format is incorrect; the tape cannot be read

**Response:** The tape unit has detected that the data format on the tape media is not supported or that the tape media is defective. Do the following before exchanging any parts:

1. Initialize the tape to a different format.
  2. Clean the tape unit.
- 

If the operation continues to fail, use a different tape cartridge.

**Failing Item:**

- USER
  - MEDIA
  - TAPCLN
  - FI00871
- 

72079500      72079500

**Explanation:** Licensed Internal Code error

**Response:** If the system is operational, perform a dump of the I/O processor data.

**Failing Item:**

- PTFSRCH
- 

72079501      72079501

**Explanation:** Licensed Internal Code error

**Failing Item:**

- PTFSRCH
- 

72079800      72079800

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

72079801      72079801

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

72079802      72079802

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

72079803      72079803

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---



---

72079804      72079804

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

72079805      72079805

**Explanation:** System successfully recovered from temporary I/O error

**Response:** No action required. This reference code is logged for information only.

---

72079810      72079810

**Explanation:** Problem analysis has determined a part should be replaced.

**Response:** This reference code is used for ending Online Problem Analysis with a list of failing items. (Information Only)

---

72079899      72079899

**Explanation:** Problem analysis completed, the problem has been corrected.

**Response:** This reference code is used for ending Online Problem Analysis when no problem was found or the problem was corrected.

---

72079900      72079900

**Explanation:** Licensed Internal Code for tape unit was not upgraded

**Response:** The I/O processor loading of Licensed Internal Code (LIC) to the programmable tape unit was not completed.

The tape unit will continue to operate with the previous LIC. You may do either of the following:

- Wait for next IPL when the system will attempt to load the LIC for the tape drive again.
- Perform TUIPI04 to reset the IOP and the tape unit. When the IOP is reset, if the device has the wrong level of LIC, the IOP will attempt to load the new LIC.

**Failing Item:**

- USER

---

72079901      72079901

**Explanation:** Tape performance statistics logged

**Response:** No action required. This reference code is logged for information only.

---

72079902      72079902

**Explanation:** An IOP dump was initiated

**Response:** No action required.

---

72079903      72079903

**Explanation:** Tape device information logged

**Response:** No action required. This reference code is logged for information only.

---

7207FFF6      7207FFF6

**Explanation:** Tape volume statistics logged (no action required)



---

## (A1xx) Reference codes

An A1xx system reference (attention) code is an attention code posted by the service processor. An A1xx SRC offers information about a platform or service processor dump, confirms a control panel function request, or indicates an issue with a service processor wake-on-LAN setting. The A1xx table uses the following format:

- The reference code contains numbers that identify a particular action your server performs during initialization of firmware.
- The description offers a brief description about this SRC. It may also contain instructions for continuing the problem analysis.
- The FRU List offers a link to instructions or service actions for recovering from a hang on an attention code. Click the FRU List only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the service processor appears to be hung.

---

**A1003000**    **A1003000**

**Explanation:** Informational message: the platform dump was successful. If the system hangs on this progress code, perform FSPSPC1.

---

**A1003001**    **A1003001**

**Explanation:** Reserved (for platform dump). If the system hangs on this progress code, perform FSPSPC1.

---

**A1003022**    **A1003022**

**Explanation:** Confirm partition dump (control (operator) panel function 22).

**Response:** The control panel displays this attention code after you request a partition dump (panel function 22). When you see this code, scroll to function 22 again on the panel and press **Enter** to perform the partition dump. If the system hangs on this progress code, perform FSPSPC1.

---

**A1003042**    **A1003042**

**Explanation:** Confirm platform dump (control panel function 42)

**Response:** The control panel displays this attention code after you request a platform dump (panel function 42). When you see this code, scroll to function 42 again on the panel and press **Enter** to perform the platform dump. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

**A1003043**    **A1003043**

**Explanation:** Confirm service processor dump (control panel function 43)

**Response:** The control panel displays this attention code after a service processor dump (panel function 43) is requested. When you see this code, scroll to function 43 again on the panel and press **Enter** to perform the service processor dump. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

**A1008003**    **A1008003**

**Explanation:** Confirm restart IPL control (operator panel function 03).

**Response:** The control panel displays this attention code after a restart IPL (panel function 03) is requested. When this SRC is displayed, scroll to function 03 again on the panel and press enter to perform the restart IPL. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

**A1008008**    **A1008008**

**Explanation:** Confirm fast power-off (control panel function 08)

**Response:** This attention code is displayed on the control panel after you request a fast power-off (panel function 08). When you see this code, scroll to function 08 again on the panel and press **Enter** to perform the fast power-off. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

**A1008009**    **A1008009**

**Explanation:** Beginning emergency power off (EPO) countdown. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

**A100800A**    **A100800A**

**Explanation:** Proceeding with EPO. This SRC displays

## A181D000 • A1A3C100

after the countdown has completed successfully. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A181D000 A181D000

**Explanation:** The hypervisor did not respond to a ROLE or FAILOVER message. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A181D001 A181D001

**Explanation:** The hypervisor did not post an Xdown interrupt when a reset/reload occurred. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

### A1A3C100 A1A3C100

**Explanation:** Invalid operational mode for remote power on (wake onLAN)

**Response:** Check the service processor settings for remote power on. If the system hangs on this progress code, perform isolation procedure FSPSPC1.

---

## (A2xx) Reference codes

No service action is required.

---

**A2002250**    **A2002250**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was unavailable. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

**Failing Item:**

- SLOTUSE

---

**A2002300**    **A2002300**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was unavailable. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

**Failing Item:**

- SLOTUSE

---

**A2002310**    **A2002310**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A2002320**    **A2002320**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A2002425**    **A2002425**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A2002426**    **A2002426**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A2002475**    **A2002475**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. A slot that was needed for the partition was either empty or the device in the slot has failed. See the Symbolic FRU SLOTUSE for more information on the cause of this error.

If you have a RAID enablement card (CCIN 5709) on your system, it will disable an embedded SCSI adapter. If that embedded slot is called out in the error, you can safely ignore this error.

**Failing Item:**

- SLOTUSE

---

**A2002477**    **A2002477**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** No service action required.

---

**A2002479**    **A2002479**

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** No service action required.

## A2002485 • A2D03002

---

A2002485    A2002485

**Explanation:** A problem occurred during the IPL of a partition.

**Response:** The partition ID is in extended word one as LP=xxx in decimal format. The platform LIC for this partition attempted an operation. There was a failure. Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

A2003123    A2003123

**Explanation:** System log entry only, no service action required

---

A2008080    A2008080

**Explanation:** System log entry only, no service action required

**Response:** No service action required.

---

A2008108    A2008108

**Explanation:** A problem occurred during the IPL of a partition.

---

A2009010    A2009010

**Explanation:** A problem occurred during the IPL of a partition.

---

A2009020    A2009020

**Explanation:** A problem occurred during the IPL of a partition.

---

A2009030    A2009030

**Explanation:** A problem occurred during the IPL of a partition.

---

A200B07B    A200B07B

**Explanation:** System log entry only, no service action required

**Response:** No service action required.

---

A200C220    A200C220

**Explanation:** A problem occurred during the IPL of a partition.

---

A200C225    A200C225

**Explanation:** A problem occurred during the IPL of a partition.

---

A200C230    A200C230

**Explanation:** A problem occurred during the IPL of a partition.

---

A2D03000    A2D03000

**Explanation:** User-initiated immediate termination and MSD of a partition.

**Response:** No service action required.

---

A2D03001    A2D03001

**Explanation:** User-initiated RSCDUMP of RPA partition's PFW content.

**Response:** No service action required.

---

A2D03002    A2D03002

**Explanation:** User-initiated RSCDUMP of IBM i partition's SLIC bootloader and PFW content.

**Response:** No service action required.

---

## (A6xx) Reference codes

---

A6000000    A6000000

**Explanation:** Operating system status code

**Response:** This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.

Normally, no action should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:

1. Examine the date and time of the informational reference code.
2. Determine if any other reference codes have been logged at or before the same date and time.
3. Begin the service approach based on these other logged errors.

---

A6000102    A6000102

**Explanation:** A machine check occurred during IPL

**Response:** Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.

---

A6000103    A6000103

**Explanation:** Main storage dump must be copied for service

**Failing Item:**

- LICIP01

---

A6000104    A6000104

**Explanation:** Terminate Immediate reference code is bad

**Failing Item:**

- LICIP08
- AJDG301

---

A6000105    A6000105

**Explanation:** More than one request to terminate the system was issued

**Failing Item:**

- LICIP08
- AJDG301

---

A6000106    A6000106

**Explanation:** Terminate Immediate data is not valid

**Failing Item:**

- LICIP08
- AJDG301

---

A6000107    A6000107

**Explanation:** Main storage dump must be copied for service

**Response:** The server detected an unrecoverable machine check condition.

Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.

---

A6000109    A6000109

**Explanation:** An unrecoverable memory error occurred

**Response:** Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list. If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot by using Performing a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.

**Failing Item:**

- SVCDOCS

---

A6000202    A6000202

**Explanation:** Unrecoverable read error

**Response:** Restore the Licensed Internal Code using Utilities to install and restore IBM i Licensed Internal Code.

---

A6000210    A6000210

**Explanation:** The system ASP has run out of disk storage.

**Response:** The out of storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.

---

A6000231    A6000231

## A6000232 • A6000308

**Explanation:** Disk sanitize action completed successfully

**Response:** No service action required. This entry is logged for information only.

---

### A6000232 A6000232

**Explanation:** Disk sanitize action did not complete successfully

**Response:** Provide the Product Activity Log entry to your next level of support for analysis.

---

### A6000244 A6000244

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

### A6000255 A6000255

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

### A6000266 A6000266

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500

- FI00302
- FI00301
- AJDG301

---

### A6000299 A6000299

**Explanation:** Informational LIC state SRC.

---

### A6000302 A6000302

**Explanation:** Recursion in exception handler

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000304 A6000304

**Explanation:** Component specific exception handler return code not valid

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000305 A6000305

**Explanation:** Exception while storage management lock is held

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000307 A6000307

**Explanation:** LIC exception code detected a problem

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
- AJDG301

---

### A6000308 A6000308

**Explanation:** LIC exception code detected a problem

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
  - AJDG301
-



---

**A6000317**    **A6000317****Explanation:** Traceback for code not found**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000323**    **A6000323****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000324**    **A6000324****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000325**    **A6000325****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000326**    **A6000326****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000327**    **A6000327****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000328**    **A6000328****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

---

**A6000329**    **A6000329****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000333**    **A6000333****Explanation:** A branch to a bad address was attempted**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000334**    **A6000334****Explanation:** Exception Handler could not be removed**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000335**    **A6000335****Explanation:** Code resumed to not valid address following exception**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000336**    **A6000336****Explanation:** LIC exception code detected a problem**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000401**    **A6000401****Explanation:** A machine check occurred during IPL**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000402**    **A6000402****Explanation:** A machine check occurred during authority initialization**Failing Item:**

- LICIP08
  - AJDG301
-

## A6000403 • A6000418

---

**A6000403**    **A6000403**

**Explanation:** Unhandled exception during IPL or install

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000405**    **A6000405**

**Explanation:** Unhandled exception in authority recovery

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000406**    **A6000406**

**Explanation:** Unhandled exception in data base recovery

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000407**    **A6000407**

**Explanation:** Unhandled exception in data base initialization

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000408**    **A6000408**

**Explanation:** Unhandled exception in journal recovery

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000409**    **A6000409**

**Explanation:** Unhandled exception in journal synchronization

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000410**    **A6000410**

**Explanation:** Unhandled exception in journal clean up

**Failing Item:**

- LICIP08
  - AJDG301
- 

---

**A6000411**    **A6000411**

**Explanation:** Unhandled exception in commit recovery

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000412**    **A6000412**

**Explanation:** Unhandled exception in commit initialization

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000413**    **A6000413**

**Explanation:** Rebuild of recovery object index failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000414**    **A6000414**

**Explanation:** Install of operating system failed on read from media

**Failing Item:**

- LICIP08
  - FI00300
- 

**A6000415**    **A6000415**

**Explanation:** Create user profile failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000417**    **A6000417**

**Explanation:** Initiating the initial process failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000418**    **A6000418**

**Explanation:** The information loaded from the install media is not valid

**Failing Item:**

- LICIP08
  - AJDG301
-

---

**A6000419**    **A6000419**

**Explanation:** The information loaded from the install media is not valid

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000420**    **A6000420**

**Explanation:** The information loaded from the install media is not valid

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000421**    **A6000421**

**Explanation:** Bad return code creating a queue or message

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000422**    **A6000422**

**Explanation:** The Load/Dump command failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000439**    **A6000439**

**Explanation:** Opening the IPCF connection failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000440**    **A6000440**

**Explanation:** Termination code is not valid

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000441**    **A6000441**

**Explanation:** Power off system command failed

**Failing Item:**

- LICIP08
  - AJDG301
- 

---

**A6000443**    **A6000443**

**Explanation:** Programmed IPL command failure

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000446**    **A6000446**

**Explanation:** Error during machine termination

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000447**    **A6000447**

**Explanation:** Failure to reach MI boundary

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000449**    **A6000449**

**Explanation:** Exception in MI boundary manager

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000506**    **A6000506**

**Explanation:** Attempt to destroy a task with critical flag on

**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6000507**    **A6000507**

**Explanation:** A critical process terminated. This SRC will be in the LPAR's panel.

LIC detected an attempt to terminate a process with its critical flag set to ON. Normally this process will be SCPE.

This is a secondary affect of the process termination request for a critical process that was caused by a system error condition that began process termination. The system error condition that began process termination is most commonly a storage error or LIC exception handling.

**Response:** Perform LICIP08 - save and send in the Main Store Dump, collect LIC and Product Activity Logs.

**Failing Item:**

## A6000607 • A6001103

- LICIP08
- AJDG301

---

A6000607    A6000607

**Explanation:** Maximum stack size exceeded in process or task

**Failing Item:**

- LICIP08
- AJDG301

---

A6000620    A6000620

**Explanation:** Event management index is not usable

**Failing Item:**

- LICIP08
- AJDG301

---

A6000650    A6000650

**Explanation:** Resource management segment could not be created or extended

**Response:** A main store dump was initiated.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9.

Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support.

The problem may also be that there is not enough auxiliary storage.

**Failing Item:**

- AJDG301

---

A6000801    A6000801

**Explanation:** Invalid LID directory detected

**Response:** During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory.

**Failing Item:**

- LICIP08
- FI00070
- FI00300
- AJDG301

---

A6000802    A6000802

**Explanation:** LID directory unusable

**Response:** During system IPL, the LIDMgr detected that the LID directory and associated Load Source is not usable.

Reinstall the Licensed Internal Code by using Utilities

to install and restore IBM i Licensed Internal Code.

For more information, contact IBM Service Support.

**Failing Item:**

- AJDG301

---

A6000901    A6000901

**Explanation:** The LinkLoader has found its bad flag ON

**Response:** This reference code is usually the result of a system termination while the LinkLoader is performing its work.

Reinstall the Licensed Internal Code by using Utilities to install and restore IBM i Licensed Internal Code.

---

A6000902    A6000902

**Explanation:** Unable to perform programmed IPL

**Response:** The LinkLoader was not successful in performing a programmed IPL.

Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.

---

A6000903    A6000903

**Explanation:** The LinkLoader was not able to allocate a segment

**Response:** Perform the D mode IPL again. If the problem persists, there might be a memory problem. Contact your next level of support.

---

A6000904    A6000904

**Explanation:** The LinkLoader was not able to load a critical LID

**Response:** Perform the D mode IPL again. If the problem persists, contact your next level of support.

---

A6001001    A6001001

**Explanation:** Enqueuing a task to the TDQ which is already enqueued on TDQ

**Failing Item:**

- LICIP08
- AJDG301

---

A6001103    A6001103

**Explanation:** MISR not readable; must be readable for Normal Mode install

**Response:** MISR is not readable. Perform a manual install to reinitialize the system.

---

**A6001104**    **A6001104**

**Explanation:** Failure reading media or not install media

**Response:** Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and re-attempt the install. If the install still fails, contact your service representative.

---

**A6001201**    **A6001201**

**Explanation:** Critical database segment could not be created

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001204**    **A6001204**

**Explanation:** Error in constraint enforcement

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001210**    **A6001210**

**Explanation:** Object not found in the in-use table

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001215**    **A6001215**

**Explanation:** Error in critical code sequence

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001219**    **A6001219**

**Explanation:** A back leveled driver has been detected

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001604**    **A6001604**

**Explanation:** Not able to create APPN task

**Response:** An error occurred during task creation which requires a power off of the system.

**Failing Item:**

- LICIP08

- AJDG301

---

**A6001724**    **A6001724**

**Explanation:** An attempt to create a segment failed

**Response:** The create could fail for two reasons:

- A code problem. Perform the procedure indicated in the failing item list.
- No free auxiliary storage on the system. Add additional DASD if the create failed because no auxiliary storage was available.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6001730**    **A6001730**

**Explanation:** An IPL is needed to restore system performance

**Response:** Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.

Look at the Product Activity Log entry, and find the value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.

For more information, contact IBM Service Support.

**Failing Item:**

- UPLF1

---

**A6003000**    **A6003000**

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to Copying a main storage dump.

**Failing Item:**

- AJDG301

---

**A60041FC**    **A60041FC**

**Explanation:** Installation of LIC failed

**Response:** Words 12 and 13 of this SRC contain additional diagnostic information.

Install LIC using physical media.

To determine what caused the failure, collect SRC information and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A60041FD    A60041FD**

**Explanation:** Installation of LIC failed

**Response:** A main store dump was initiated. Words 12 and 13 of this SRC contain additional diagnostic information.

To recover the partition using the previously installed LIC, perform a B-mode IPL. You can then re-try the installation of LIC. Otherwise, install LIC using physical media.

To determine what caused this failure, collect SRC information and main store dump and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6004401    A6004401**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004402    A6004402**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004403    A6004403**

**Explanation:** Storage Management failed to reach full paging.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004404    A6004404**

**Explanation:** Auto copy failed or not attempted.

**Response:** Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6004405    A6004405**

**Explanation:** System ASP threshold exceeded after auto copy done.

**Response:** Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.

---

**A6004420    A6004420**

**Explanation:** MSD Manager not configured to save dump information

**Response:** The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.

---

**A6004421    A6004421**

**Explanation:** Insufficient space in the ASP to store a platform dump

**Response:** The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:

- Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.
- Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.
- Use the MSD Manager to copy the current platform dump to a different ASP.
- Use the MSD Manager to copy the current platform dump to media.

---

**A6004422    A6004422**

**Explanation:** A platform dump is saved in MSD Manager

**Response:** The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.

**Failing Item:**

- PLDUMP
-

---

**A6004700**    **A6004700**

**Explanation:** Processor On Demand error detected.

**Response:** Processor on Demand Data Block key is not valid.

Replace the Processor Capacity card.

**Failing Item:**

- CTLPNCD
- 

**A6004701**    **A6004701**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Data Block contains data that does not match the expected data.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004703**    **A6004703**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Serialization has failed during IPL.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004710**    **A6004710**

**Explanation:** Processor On Demand error detected.

**Response:** SPCN communication failure during Processor On Demand.

Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.

**Failing Item:**

- SPNLCRD
- 

**A6004712**    **A6004712**

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD
- 

**A6004713**    **A6004713**

**Explanation:** Incorrect Processor Capacity Card installed.

**Response:** The Processor Capacity Card is the failing

item since it has been swapped in from a different system.

Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.

**Failing Item:**

- CTLPNCD
- 

**A6004714**    **A6004714**

**Explanation:** The CUoD data is not present. A problem may exist.

**Response:** The Processor Capacity Card was changed and there may be a problem.

If the system did have any activated standby processors before the Processor Capacity Card was replaced, then new processor on demand activation codes must be obtained to restore the previous activations.

Contact your service provider.

---

**A6004715**    **A6004715**

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD
- 

**A6004730**    **A6004730**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand standby processors are in use.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6004731**    **A6004731**

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Trial Activation period is not valid. Contact your next level of support.

**Failing Item:**

- AJDG301
- 

**A6004733**    **A6004733**

**Explanation:** Processor On Demand error detected.

**Response:** Contact your service provider.

**Failing Item:**

- AJDG301

## A6004740 • A6005007

---

A6004740    A6004740

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Activation code just entered is not valid.

Contact your next level of support.

**Failing Item:**

- AJDG301

---

A6004741    A6004741

**Explanation:** Processor On Demand error detected.

**Response:** An invalid Processor On Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.

**Failing Item:**

- AJDG301

---

A6004745    A6004745

**Explanation:** Processor Capacity card replaced on activated POD system.

**Response:** Contact IBM Support to order a replacement Processor On Demand activation code.

---

A6004747    A6004747

**Explanation:** 1 hour left in POD 14 day Trial Activation Period.

**Response:** If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.

---

A6005001    A6005001

**Explanation:** DST received no response from a workstation controller

**Response:** The workstation I/O processor for the system or partition console did not respond.

**Failing Item:**

- RTRIP01
- FI00380
- AJDG301

---

A6005002    A6005002

**Explanation:** DST problem attempting to use the system console

**Response:** A code problem occurred during an attempt to use the system console.

**Failing Item:**

- LICIP03

- AJDG301
- FI00380

---

A6005003    A6005003

**Explanation:** Service program failed

**Response:** The ASCII system console failed to respond.

**Failing Item:**

- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

A6005004    A6005004

**Explanation:** DST console failed to respond

**Response:** The system console failed to respond.

**Failing Item:**

- RTRIP02
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

A6005005    A6005005

**Explanation:** Service program failed

**Response:** The workstation adapter system console failed to respond.

**Failing Item:**

- WSAIP01
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

A6005007    A6005007

**Explanation:** Service program failed

**Response:** The workstation adapter console failed to respond.

**Failing Item:**

- RTRIP07
- FI00320
- FI00602
- USER



- AJDG301
- FI00380

---

**A6005008    A6005008**

**Explanation:** DST console failed to respond

**Response:**

**Failing Item:**

- OPCIP03
- FI00719

---

**A6005010    A6005010**

**Explanation:** IPL service function ended abnormally

**Failing Item:**

- LICIP04
- AJDG301

---

**A6005014    A6005014**

**Explanation:** DST status. The Storage Management Dual Path Information Screen option to dump data to a PAL has completed successfully.

---

**A6005015    A6005015**

**Explanation:** DST error. An error has occurred gathering data for the Storage Management Dual Path Information Screen option to dump data to a PAL. Contact your next level of support or hardware service provider.

**Failing Item:**

- NEXTLVL

---

**A6005082    A6005082**

**Explanation:** DST lost contact with the console

**Response:** A service program lost contact with the system console.

**Failing Item:**

- RTRIP03
- AJDG301
- USER

---

**A6005083    A6005083**

**Explanation:** IPL service function ended abnormally

**Response:** A service program lost contact with the system console.

**Failing Item:**

- TWSIP01
- AJDG301
- USER

---

**A6005090    A6005090**

**Explanation:** System startup failed in unattended IPL mode

**Response:** Perform the following:

- If reference code A6xx5090 is displayed on the control panel for more than 10 minutes, perform the procedure indicated in the failing item list.
- For reference code B6xx5090, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP11
- FI00580
- FI00500
- FI00301
- FI00021
- FI00065
- AJDG301

---

**A6005092    A6005092**

**Explanation:** System is in DASD migration mode

**Response:** Install Licensed Internal Code and Upgrade Load Source was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.

---

**A6005094    A6005094**

**Explanation:** IASP detected a failure during the vary on operation

**Failing Item:**

- LICIP12

---

**A60050FF    A60050FF**

**Explanation:** DST unrecoverable program error

**Failing Item:**

- LICIP03
- AJDG301
- FI00380

---

**A6005120    A6005120**

**Explanation:** System LIC detected a program exception

**Response:** System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources.

Check the Product activity log for related entries. If this reference code is logged with an error class of Informational, then no action is required.

## A6005121 • A6005192

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP01
- AJDG301
- FI00130

---

**A6005121**    **A6005121**

**Explanation:** LIC program exception occurred

**Response:** System LIC detected a programming problem for which a main storage dump may have been initiated. Collect the dump if available.

A problem log entry may be generated for this refcode.

**Failing Item:**

- LICIP01
- AJDG301

---

**A6005122**    **A6005122**

**Explanation:** LIC program exception occurred

**Response:** System LIC detected an IOP programming problem for which an IOP dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

---

**A6005123**    **A6005123**

**Explanation:** LIC program exception occurred

**Response:** System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated.

**Failing Item:**

- LICIP01
- FI00130
- AJDG301
- FI00131

---

**A6005126**    **A6005126**

**Explanation:** Addressed device failed to respond to selection

**Failing Item:**

- DISKDRV
- STORIOA
- DISKTRY

- FI01106
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

**A6005127**    **A6005127**

**Explanation:** IOP timed out a disk command

**Failing Item:**

- DISKDRV
- STORIOA
- FI01106
- DISKTRY
- FI01140
- FI01141
- DEVTERM
- BACKPLN

---

**A6005128**    **A6005128**

**Explanation:** I/O processor failure

**Failing Item:**

- FI01112
- FI01107

---

**A600512D**    **A600512D**

**Explanation:** An IOP dump was initiated

**Response:** Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.

---

**A600512E**    **A600512E**

**Explanation:** LIC program exception occurred

**Response:** The system was in a D IPL mode when the problem was detected. A main storage dump was not taken.

**Failing Item:**

- LICIP01
- AJDG301
- FI00130

---

**A6005192**    **A6005192**

**Explanation:** Insufficient entitled memory for the I/O configuration

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the I/O adapter. To restart a storage I/O adapter, use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O

adapter. To restart a communications I/O adapter, vary the line off and vary it on using the vary configuration (VRYCFG) command.

**Failing Item:**

- SVCDOCS

A6005193    A6005193

**Explanation:** Virtual adapter not supported in a shared memory partition

**Response:** Use the hardware management console to remove the virtual adapter from the partition.

**Failing Item:**

- SVCDOCS

A6005194    A6005194

**Explanation:** Insufficient entitled memory for the I/O configuration

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the partition.

**Failing Item:**

- SVCDOCS

A6005206    A6005206

**Explanation:** System LIC detected a missing IOP LIC code load

**Response:** System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system Load Source device or that system LIC was unable to successfully read that load from the Load Source device.

**Failing Item:**

- LICIP01
- USER

A6005209    A6005209

**Explanation:** System LIC detected an IOP timeout during IOP IPL

**Response:** Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state.

**Failing Item:**

- LICIP01
- USER
- FI00130
- AJDG301

A6005219    A6005219

**Explanation:** LIC program exception occurred

**Response:** An IOP signaled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP.

This reference code is logged for information only. No action is required.

**Failing Item:**

- FI00310
- FI00318
- FI00065
- FI00130
- AJDG301

A6005275    A6005275

**Explanation:** The system issued a reset/reload to the IOP.

**Response:** System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.

Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.

To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.

A6005276    A6005276

**Explanation:** IOP Reset was issued

**Response:** LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.

If the Load Source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.

**Failing Item:**

- RTRIP08
- AJGLD01
- AJDG301
- FI00021

## A6005310 • A6005350

---

A6005310    A6005310

**Explanation:** LIC program exception occurred

**Response:** System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries and contact your next level of hardware service support.

**Failing Item:**

- LPARSUP

---

A6005311    A6005311

**Explanation:** LIC program exception occurred

**Response:** LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.

Following is a list of problems which may have caused this SRC to be reported:

- Non-configured disk unit which was previously a load source on a partitioned system.
- Load Source configuration data does not match partition for which it is being used.
- Load Source configuration data does not match system serial number for which it is being used.
- Load Source configuration data is newer than primary partition configuration data.

**Failing Item:**

- LPRIP01
- LPARSUP

---

A6005312    A6005312

**Explanation:** LIC program exception occurred

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be in error or inconsistent on a secondary partition's Load Source. The data was automatically updated to the current system level.

---

A6005313    A6005313

**Explanation:** LIC program exception occurred

**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.

**Failing Item:**

- LPARCFG

---

A6005340    A6005340

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

---

A6005341    A6005341

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.

---

A6005342    A6005342

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

---

A6005343    A6005343

**Explanation:** Secondary partition not running at optimum.

**Response:** Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.

---

A6005344    A6005344

**Explanation:** Secondary partition not running at optimum.

**Response:** The interactive performance specified in the configuration data for this partition could not be met.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

A6005350    A6005350

**Explanation:** Secondary partition software release not supported

**Response:** The logical partition software version is outside the supported release delta.

Check the Release Delta from the Primary partition "Display Partition Release Level" screen.

Check the LPAR documentation for the release level of

the Primary partition and determine what the supported Release Delta is.

---

**A6005380**    **A6005380**

**Explanation:** LIC program exception occurred

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

**A6005390**    **A6005390**

**Explanation:** LIC program exception occurred

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

**A6005505**    **A6005505**

**Explanation:** The copying of DASD log data to the IOP log was successful

**Response:** IOP log data can be copied to a spool file for examination by the development lab.

---

**A6005555**    **A6005555**

**Explanation:** SLIC I/O DASD subsystem error recovery in progress.

---

**A6005600**    **A6005600**

**Explanation:** Unrecoverable read error

**Response:** VPD data could not be read.

Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not usable and should generate an error.

If no such error occurred, call your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6006900**    **A6006900**

**Explanation:** System bus error

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006901**    **A6006901**

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006902**    **A6006902**

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006905**    **A6006905**

**Explanation:** Optical bus failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6006906**    **A6006906**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

**A6006907    A6006907**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

**A6006908    A6006908**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC data in the I/O bus VPD could not be accessed. The I/O Bus identified in the SRC may not have become operational.

If there is a B6xx 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event view on the hardware management console or service processor is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

**A6006909    A6006909**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

**A600690A    A600690A**

**Explanation:** Associated adapter not found in this partition

**Failing Item:**

- LICIP16

---

**A6006910    A6006910**

**Explanation:** I/O processor failure

**Response:** An I/O processor timed out, returned bad status, or is not following the system bus protocol.

**Failing Item:**

- LICIP07
- FI00310
- FI00318
- FI00065
- FI00130

- AJDG301

---

**A6006938**    **A6006938**

**Explanation:** Not valid system configuration detected

**Response:** This system model does not allow a configuration of more than three (non-OptiConnect) I/O Processors.

Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.

---

**A6006944**    **A6006944**

**Explanation:** Missing or failed I/O processor cards

**Response:** A system bus appears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.

**Failing Item:**

- FI00317
- FI00316
- AJDG301

---

**A6006960**    **A6006960**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Slot unavailable due to 64 bit card in adjacent slot.

One of the messages documented with the symbolic FRU will describe the problem. See SLOTERR symbolic FRU for a list of messages and corrective actions.

**Failing Item:**

- SLOTERR

---

**A6006961**    **A6006961**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** LED control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing

item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or a serviceable event viewer on the hardware management console is available for this problem then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

**A6006962**    **A6006962**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Power control failure, do not use slot.

If there is a Linux partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

**A6006963**    **A6006963**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Power control failure, do not use slot.

## A6006964 • A6006967

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

### Failing Item:

- SLOERR
- MASBUS

---

### A6006964    A6006964

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** One of several errors or configuration problems has occurred under a Multi-adapter bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the hardware management console or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.

If you do not have access to the Service Action Log, or serviceable event view on the hardware management console or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.

1. xxxx2022 - IOP found in slots owned by a Linux partition. The Multi-adapter Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured.
2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge but there is no IOP to support them. The adapters cannot be used.
3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

### Failing Item:

- MABRCFG

---

### A6006965    A6006965

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** Card type not supported in this slot.

An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The card type is not supported in that slot under the multi-adapter bridge. The card is unavailable.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

### Failing Item:

- MABRCFG

---

### A6006966    A6006966

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O processor removed from multi-adapter bridge card slot.

On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

### Failing Item:

- MABRCFG

---

### A6006967    A6006967

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O adapter unavailable due to moved I/O processor card.

The I/O adapter specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

### Failing Item:

- MABRCFG



---

**A6006968**    **A6006968**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** IOA removed from multi-adapter bridge slot.

On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A6006969**    **A6006969**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O adapter replaced by I/O processor card.

On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A600696A**    **A600696A**

**Explanation:** Card slot test failed

**Failing Item:**

- LICIP14
- FI00131
- BACKPLN

---

**A600696B**    **A600696B**

**Explanation:** Card slot could not be validated

**Response:** This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter bridge domain as the I/O Adapter. Do one of the following:

-- Using the hardware management console or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.

OR

-- Vary off the I/O Adapter. Using Hardware Service

manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.

OR

-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same multi-adapter bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same multi-adapter bridge domain as the I/O Adapter.

---

**A6006970**    **A6006970**

**Explanation:** High Speed Link (HSL) resource failure

**Response:** A system PCI bus failure was detected. Word 7 of the SRC contains the bus number.

This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.

This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the multi-adapter bridge. In some cases it may be caused by a failing IOP in the multi-adapter bridge's domain. When an IOP is causing the problem, the failing IOP cannot be identified.

NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

If the Service Action Log, or serviceable event view on the hardware management console or service processor, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SI\_PHB
- PRI\_PCI
- MA\_BRDG
- MABIP03
- BRDGSET
- OPT\_CLN

---

**A6006971**    **A6006971**

**Explanation:** High Speed Link (HSL) resource failure

**Response:** A failure occurred in a multi-adapter bridge or on the bus to the card location it controls.

## A6006972 • A6006980

If a serviceable event view is available, use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available, use the failing item list documented here.

### Failing Item:

- MABIP02
- MA\_BRDG
- MASBUS
- PIOCARD

---

### A6006972 A6006972

**Explanation:** High Speed Link (HSL) resource failure

**Response:** Multi-adapter Bridge (MaB) failure detected.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

### Failing Item:

- MA\_BRDG

---

### A6006973 A6006973

**Explanation:** High Speed Link (HSL) resource failure

**Response:** Multi-adapter Bridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.

### Failing Item:

- BRDGSET
- SIIOADP
- MA\_BRDG

---

### A6006974 A6006974

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** PCI I/O processor rejected the assignment

of or the removal of an I/O adapter.

### Failing Item:

- MABRCFG

---

### A6006975 A6006975

**Explanation:** The system issued a reset/reload to the service processor.

**Response:** Service processor error.

### Failing Item:

- AJDGP01

---

### A6006976 A6006976

**Explanation:** Service processor failure.

**Response:** For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or a serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

### Failing Item:

- SVCPROC

---

### A6006980 A6006980

**Explanation:** Network Interface Controller / IO Hub failure.

**Response:** For Power5 and newer servers, service this error using the B7006980 service information. Otherwise, continue with this information.

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SICNTRL
- OPT\_CLN

---

**A6006981**    **A6006981**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** For Power5 and newer servers, service this error using the B7006981 service information. Otherwise, continue with this information.

Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

If you find either a B6xx 6982 or B6xx 6984 SRC logged at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B6xx 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.

**NOTE:** This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

**NOTE:** A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIOADP
- OPT\_CLN

---

**A6006982**    **A6006982**

**Explanation:** High Speed Link (HSL) connection failure

**Response:** For Power5 and newer servers, service this error using the B7006982 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL) or serviceable event view you are using, then it is informational or statistical only. It does not require a service action.

Otherwise, this is a connection failure on an HSL link. Perform the procedure indicated in the failing item list.

**Failing Item:**

- RIOIP09
- HSL\_LNK
- SIOADP
- SICNTRL
- REM\_NIC
- OPT\_CLN

---

**A6006983**    **A6006983**

**Explanation:** An invalid High Speed Link (HSL) configuration was detected

**Response:** For Power5 and newer servers, service this error using the B7006983 service information. Otherwise, continue with this information.

An HSL loop has an invalid configuration. Word 4 of the SRC contains the program return code (PRC) which identifies the problem with the loop's configuration. Use the PRC and the FRU listed below to determine the problem.

If you are using the Service Action Log (SAL) or serviceable event view you are working with, the FRU description may already indicate the configuration problem.

**Failing Item:**

- SIRGCFG

---

**A6006984**    **A6006984**

**Explanation:** High Speed Link (HSL) loop status message

**Response:** For Power5 and newer servers, service this error using the B7006984 service information. Otherwise, continue with this information.

An HSL loop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number in HSM.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B6xx 6982 or B6xx 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.

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**A6006985**    **A6006985**

**Explanation:** High Speed Link (HSL) loop status message

**Response:** For Power5 and newer servers, service this error using the B7006985 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:

This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B6xx 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem

There may be multiple B6xx 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B6xx 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B6xx 6985 entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B6xx 6985 entries for that loop resource in the serviceable event view.

- If you find a B6xx 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following:
  - Perform RIOIP06 to determine if any other systems are connected to this loop and return here. (HSL\_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2.
  - Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC) resources. Ignore B6xx 6982 and B6xx 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2.
  - Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B6xx 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2.
  - For the B6xx 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2.
- Use the serviceable event's FRU list when it is available.
 

If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL\_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIRSTAT
- HSL\_LNK
- SIIOADP
- SICNTRL
- OPT\_CLN

---

**A6006986    A6006986**

**Explanation:** System bus error

**Response:** For Power5 and newer servers, service this error using the B7006986 service information. Otherwise, continue with this information.

During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.

This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".

Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:

Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.

**Failing Item:**

- TWRCARD
- CBLALL

---

**A6006987    A6006987**

**Explanation:** High Speed Link (HSL) connection failure

**Response:** For Power5 and newer servers, service this error using the B7006987 service information. Otherwise, continue with this information.

Failures are occurring on the HSL link.

There may be B6xx 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.

- If there is a cable FRU in the serviceable event entry:
  - If the connection is copper and either end has a loose connection, re-seat the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of

the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using.

2. If the connection is optical, clean the connections at both ends of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using.
  3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using.
- If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view.

**Failing Item:**

- HSL\_LNK
- OPT\_CLN

**A6006990    A6006990**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC

**A6006991    A6006991**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01

**A6006992    A6006992**

**Explanation:** Service processor failure.

**Failing Item:**

- AJDGP01

**A6006993    A6006993**

**Explanation:** Service processor failure.

**Response:** A failure occurred with the service processor hardware or the service processor LIC.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC
- AJDGP01

**A6006994    A6006994**

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

**Failing Item:**

- SVCPROC

**A600699C    A600699C**

**Explanation:** Wrap plug is installed on Bus Expansion Adapter card

**Response:** This reference code is for information only. It indicates the presence of a wrap plug on the local optical link card.

**A60069A8    A60069A8**

**Explanation:** Informational bus reference code

**Response:** This reference code is for information only and might include the following:

- Optical speed encode
- Broken optical links now operational
- Other information

**A60069B8    A60069B8**

**Explanation:** Bus hardware configuration problem

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

**A60069C1    A60069C1**

**Explanation:** A failure occurred communicating with another LPAR or system participating in Opti-connect with this LPAR or system. Starting with IBM i release 7.1 this event will be logged in the Product Activity Log but it will not be in the Service Action Log or the Problem Log. This event normally occurs when the other LPAR or system is powered off. If both LPARs or systems are running and have no Opti-connect errors then this event is indicating a possible problem with Opti-connect.

**Response:** Contact your next level of support if you suspect an Opti-connect problem. Otherwise this is a tracking event.

**Failing Item:**

- NEXTLVL

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**A60069C2    A60069C2**

**Explanation:** HSL Opticonnect normal connect to another sys. or partition.

**Response:** This reference code is informational only.

HSL OptiConnect has established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.

---

**A60069C3    A60069C3**

**Explanation:** HSL Opticonnect normal disconnect from other sys. or partition

**Response:** This reference code is informational only.

HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect.

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**A60069C5    A60069C5**

**Explanation:** I/O processor failure

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**A60069C6    A60069C6**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.

If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS

---

**A60069C7    A60069C7**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.

Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.

If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS
- LOC\_SYS

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**A60069C8    A60069C8**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:

- time out of a critical message
- LIC code / table problem
- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

**Failing Item:**

- REM\_SYS
- LOC\_SYS
- AJDG301

---

**A60069C9    A60069C9**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:

- LIC problem where the local bus unit is off line.
- LIC problem where the remote bus unit is off line.

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

**Failing Item:**

- AJDG301
- REM\_SYS
- LOC\_SYS

---

**A60069CF    A60069CF**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.

After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

## A60069D0 • A6007001

**Failing Item:**

- AJDG301

---

**A60069D0 A60069D0**

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069D8 A60069D8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069D9 A60069D9**

**Explanation:** Host Ethernet Adapter (HEA) failure

**Response:** Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

**Failing Item:**

- HEA

---

**A60069DA A60069DA**

**Explanation:** System log entry only, no service action required

---

**A60069DB A60069DB**

**Explanation:** LIC failure

**Response:** A Licensed Internal Code error occurred. The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.

**Failing Item:**

- SVCDOCS

---

**A60069DC A60069DC**

**Explanation:** The HEA is not connected to the Ethernet switch

**Response:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.

If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.

---

**A60069DD A60069DD**

**Explanation:** The HEA connection to the Ethernet switch has been restored

**Response:** System log entry only, no service action required.

---

**A60069DE A60069DE**

**Explanation:** HEA Media Interface Adapter Failure

**Response:** Firmware detected a failure in the HEA Media Interface Adapter.

**Failing Item:**

- HEA
- AJDG301

---

**A60069E0 A60069E0**

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069E8 A60069E8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069F0 A60069F0**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A60069F8 A60069F8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

**A6007001 A6007001**

**Explanation:** ISDN call in rejected

**Failing Item:**

- UG3LB



---

**A6007004**    **A6007004**

**Explanation:** TCP/IP informational error

**Response:** This reference code is logged when the TCP/IP Attribute Log Protocol Errors is set, and the TCP/IP System LIC silently discards an in bound datagram. Silently discard is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams are those with checksums or destination addresses which are not valid.

This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.

---

**A6007055**    **A6007055**

**Explanation:** Statistics were logged, no service action required

**Response:** This reference code is logged for information only.

---

**A6007102**    **A6007102**

**Explanation:** APPN CP-CP session ended.

---

**A6007201**    **A6007201**

**Explanation:** A utility failure occurred

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.

---

**A6007202**    **A6007202**

**Explanation:** Utility power restored

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.

---

**A6007203**    **A6007203**

**Explanation:** A battery low condition was detected

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.

---

**A6007204**    **A6007204**

**Explanation:** Uninterruptible Power System reported a bypass active

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.

---

**A6007205**    **A6007205**

**Explanation:** Battery low condition was reset

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.

---

**A6007206**    **A6007206**

**Explanation:** UPS reported bypass no longer active

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.

---

**A600720A**    **A600720A**

**Explanation:** Battery Power Unit replacement dates do not match

**Response:** The replacement dates for one of the Battery Power Units do not match. Run "Display Hardware Configuration" and verify that the dates match the labels on the batteries.

---

**A6007703**    **A6007703**

**Explanation:** System LIC detected a program exception

**Response:** Storage Management detected a DASD datacheck condition and the defective sector was reallocated.

Perform a system IPL to restart the system.

---

**A6007704**    **A6007704**

**Explanation:** General failure detected by HRI component.

**Failing Item:**

- AJDG301

---

**A6007777**    **A6007777**

**Explanation:** Hardware configuration change detected

**Response:** A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons.

1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing.
2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource.

## A6008000 • A600CF01

- The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.

---

### A6008000 A6008000

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.

---

### A6008001 A6008001

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008002 A6008002

**Explanation:** Maximum number of redundant connections exceeded

**Response:** An attempt to activate a connection from another I/O adapter to an external storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.

---

### A6008003 A6008003

**Explanation:** External storage subsystem disk unit connection was restored

**Response:** No action required.

---

### A6008004 A6008004

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008005 A6008005

**Explanation:** High performance connection failed

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There are still two or more external storage subsystem disk unit connections, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008006 A6008006

**Explanation:** High performance connection failed

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There is still one more external storage subsystem disk unit connection, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

### A6008007 A6008007

**Explanation:** High performance connection was restored

**Response:** A high performance connection to an external storage subsystem disk unit was restored.

Performance is no longer degraded.

No action required.

---

### A600B700 A600B700

**Explanation:** A platform firmware error log was reported to LIC without an SRC in the platform log. LIC will create a log in the PAL with SRC B600B700 to store the platform firmware log in. The platform firmware log will be copied to the component specific data area in the LIC log in the same position it normally is for platform errors.

**Response:** Contact your hardware service provider. This is a platform firmware problem.

**Failing Item:**

- NEXTLVL

---

### A600CF00 A600CF00

**Explanation:** Permanent error on removable media device.

**Response:** A type D IPL terminated because of a removable media Load Source device failure. If the removable media Load Source is an external device, check the cables. If that does not correct the problem, replace the device. If the removable media Load Source is an internal device, replace the device. If the removable media Load Source is a virtual device, ensure it is set up correctly.

**Failing Item:**

- SVCDOCS

---

### A600CF01 A600CF01

**Explanation:** Unsupported removable media device configuration.

**Problem determination:** A type D IPL terminated

because of an unsupported removable media device configuration. Retry the D-IPL with a different removable media device.

**Failing Item:**

- SVCDOCS

**A600CFFC A600CFFC**

**Explanation:** Optical library device condition not expected

**Response:** The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library.

Contact your hardware service provider.

**Failing Item:**

- OPTLCBL
- DRVSWCH

**A600CFFD A600CFFD**

**Explanation:** Optical drive failure

**Failing Item:**

- OPTLDRV

**A600CFFF A600CFFF**

**Explanation:** Media determined to be bad in Optical library

**A600F103 A600F103**

**Explanation:** Main storage dump must be copied for service

**Failing Item:**

- LICIP01

**A600F104 A600F104**

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** The Hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete.

**Failing Item:**

- LICIP01

**A600F105 A600F105**

**Explanation:** Licensed Internal Code detected error

**Failing Item:**

- NEXTLVL

**A600FDC0 A600FDC0**

**Explanation:** LIC program reported informational error

**Response:** This reference code is logged for information only. No action required.

**A600FDC5 A600FDC5**

**Explanation:** LIC program failed and data was captured

**Response:** This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.

The user should dial IBM Software Support for assistance.

**Failing Item:**

- UG3AS

**A6xx0000 A6xx0000**

**Explanation:** Operating system status code

**Response:** This reference code is for information only. It is shown in the Product activity log as a side effect of a condition that was detected by LIC.

Normally, no action should be taken as a result of information reference codes. However, to isolate the root cause, use these suggestions:

1. Examine the date and time of the informational reference code.
2. Determine if any other reference codes have been logged at or before the same date and time.
3. Begin the service approach based on these other logged errors.

**A6xx0102 A6xx0102**

**Explanation:** A machine check occurred during IPL

**Response:** Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9 before attempting to IPL again and report the problem to your Software Service Provider.

**A6xx0103 A6xx0103**

**Explanation:** Main storage dump must be copied for service

**Failing Item:**

- LICIP01

## A6xx0104 • A6xx0255

---

A6xx0104    A6xx0104

**Explanation:** Terminate Immediate reference code is bad

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0105    A6xx0105

**Explanation:** More than one request to terminate the system was issued

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0106    A6xx0106

**Explanation:** Terminate Immediate data is not valid

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0107    A6xx0107

**Explanation:** Main storage dump must be copied for service

**Response:** The server detected an unrecoverable machine check condition.

Collect all the words of the SRC and the main store dump and send to your system manufacturer for analysis.

---

A6xx0109    A6xx0109

**Explanation:** An unrecoverable memory error occurred

**Response:** Re-IPL the partition that terminated. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View that indicate the replacement of memory in the failing item list. If there are no B1xxxxxx SRCs in the Serviceable Event View that indicate a memory problem, perform a slow boot by using Performing a slow boot in order to run diagnostics on the memory. Then, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View.

**Failing Item:**

- SVCDOCS

---

A6xx0202    A6xx0202

**Explanation:** Unrecoverable read error

**Response:** Restore the Licensed Internal Code using Utilities to install and restore IBM i Licensed Internal Code.

---

A6xx0210    A6xx0210

**Explanation:** The system ASP has run out of disk storage.

**Response:** The out of storage condition in the system ASP can be caused by an allocation failure in some other system software. This could be a looping condition that continues to allocate storage. Contact your service representative for assistance with the Main Storage Dump.

---

A6xx0231    A6xx0231

**Explanation:** Disk sanitize action completed successfully

**Response:** No service action required. This entry is logged for information only.

---

A6xx0232    A6xx0232

**Explanation:** Disk sanitize action did not complete successfully

**Response:** Provide the Product Activity Log entry to your next level of support for analysis.

---

A6xx0244    A6xx0244

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

A6xx0255    A6xx0255

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

**A6xx0266    A6xx0266**

**Explanation:** Contact was lost with the device indicated

**Response:** Do not power off the system.

Perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP13
- FI00580
- FI00500
- FI00302
- FI00301
- AJDG301

---

**A6xx0299    A6xx0299**

**Explanation:** Informational LIC state SRC.

---

**A6xx0302    A6xx0302**

**Explanation:** Recursion in exception handler

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0304    A6xx0304**

**Explanation:** Component specific exception handler return code not valid

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0305    A6xx0305**

**Explanation:** Exception while storage management lock is held

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0307    A6xx0307**

**Explanation:** LIC exception code detected a problem

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0308    A6xx0308**

**Explanation:** LIC exception code detected a problem

**Response:** Component Specific Exception Handler recursion is detected in an IBM i Operating System process.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0317    A6xx0317**

**Explanation:** Traceback for code not found

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0323    A6xx0323**

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0324    A6xx0324**

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0325    A6xx0325**

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

## A6xx0326 • A6xx0407

---

A6xx0326 A6xx0326

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0327 A6xx0327

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0328 A6xx0328

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0329 A6xx0329

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0333 A6xx0333

**Explanation:** A branch to a bad address was attempted

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0334 A6xx0334

**Explanation:** Exception Handler could not be removed

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0335 A6xx0335

**Explanation:** Code resumed to not valid address following exception

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0336 A6xx0336

**Explanation:** LIC exception code detected a problem

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0401 A6xx0401

**Explanation:** A machine check occurred during IPL

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0402 A6xx0402

**Explanation:** A machine check occurred during authority initialization

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0403 A6xx0403

**Explanation:** Unhandled exception during IPL or install

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0405 A6xx0405

**Explanation:** Unhandled exception in authority recovery

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0406 A6xx0406

**Explanation:** Unhandled exception in data base recovery

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0407 A6xx0407

**Explanation:** Unhandled exception in data base initialization

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx0408**    **A6xx0408**
**Explanation:** Unhandled exception in journal recovery**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0409**    **A6xx0409****Explanation:** Unhandled exception in journal synchronization**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0410**    **A6xx0410****Explanation:** Unhandled exception in journal clean up**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0411**    **A6xx0411****Explanation:** Unhandled exception in commit recovery**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0412**    **A6xx0412****Explanation:** Unhandled exception in commit initialization**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0413**    **A6xx0413****Explanation:** Rebuild of recovery object index failed**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0414**    **A6xx0414****Explanation:** Install of operating system failed on read from media**Failing Item:**

- LICIP08
- FI00300

---

**A6xx0415**    **A6xx0415**
**Explanation:** Create user profile failed**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0417**    **A6xx0417****Explanation:** Initiating the initial process failed**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0418**    **A6xx0418****Explanation:** The information loaded from the install media is not valid**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0419**    **A6xx0419****Explanation:** The information loaded from the install media is not valid**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0420**    **A6xx0420****Explanation:** The information loaded from the install media is not valid**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0421**    **A6xx0421****Explanation:** Bad return code creating a queue or message**Failing Item:**

- LICIP08
  - AJDG301
- 

**A6xx0422**    **A6xx0422****Explanation:** The Load/Dump command failed**Failing Item:**

- LICIP08
- AJDG301

## A6xx0439 • A6xx0650

---

A6xx0439 A6xx0439

**Explanation:** Opening the IPCF connection failed

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0440 A6xx0440

**Explanation:** Termination code is not valid

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0441 A6xx0441

**Explanation:** Power off system command failed

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0443 A6xx0443

**Explanation:** Programmed IPL command failure

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0446 A6xx0446

**Explanation:** Error during machine termination

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0447 A6xx0447

**Explanation:** Failure to reach MI boundary

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0449 A6xx0449

**Explanation:** Exception in MI boundary manager

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0506 A6xx0506

**Explanation:** Attempt to destroy a task with critical flag on

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0507 A6xx0507

**Explanation:** A critical process terminated. This SRC will be in the LPAR's panel.

LIC detected an attempt to terminate a process with its critical flag set to ON. Normally this process will be SCPE.

This is a secondary affect of the process termination request for a critical process that was caused by a system error condition that began process termination. The system error condition that began process termination is most commonly a storage error or LIC exception handling.

**Response:** Perform LICIP08 - save and send in the Main Store Dump, collect LIC and Product Activity Logs.

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0607 A6xx0607

**Explanation:** Maximum stack size exceeded in process or task

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0620 A6xx0620

**Explanation:** Event management index is not usable

**Failing Item:**

- LICIP08
- AJDG301

---

A6xx0650 A6xx0650

**Explanation:** Resource management segment could not be created or extended

**Response:** A main store dump was initiated.

Words 2 to 9 of this SRC contain additional diagnostic information. Record SRC words 1 through 9.

Perform a system IPL and collect the Product activity log and main store dump and provide them along with the recorded SRC information to IBM Service Support.



The problem may also be that there is not enough auxiliary storage.

**Failing Item:**

- AJDG301

---

**A6xx0801    A6xx0801**

**Explanation:** Invalid LID directory detected

**Response:** During system IPL, the LIDMgr detected an I/O failure or media failure while trying to read the LID directory.

**Failing Item:**

- LICIP08
- FI00070
- FI00300
- AJDG301

---

**A6xx0802    A6xx0802**

**Explanation:** LID directory unusable

**Response:** During system IPL, the LIDMgr detected that the LID directory and associated Load Source is not usable.

Reinstall the Licensed Internal Code by using Utilities to install and restore IBM i Licensed Internal Code.

For more information, contact IBM Service Support.

**Failing Item:**

- AJDG301

---

**A6xx0901    A6xx0901**

**Explanation:** The LinkLoader has found its bad flag ON

**Response:** This reference code is usually the result of a system termination while the LinkLoader is performing its work.

Reinstall the Licensed Internal Code by using Utilities to install and restore IBM i Licensed Internal Code.

---

**A6xx0902    A6xx0902**

**Explanation:** Unable to perform programmed IPL

**Response:** The LinkLoader was not successful in performing a programmed IPL.

Perform a system IPL. If the problem persists, examine the main storage dump and determine the reason for the failure of the programmed IPL.

---

**A6xx0903    A6xx0903**

**Explanation:** The LinkLoader was not able to allocate a segment

**Response:** Perform the D mode IPL again. If the problem persists, there might be a memory problem. Contact your next level of support.

---

**A6xx0904    A6xx0904**

**Explanation:** The LinkLoader was not able to load a critical LID

**Response:** Perform the D mode IPL again. If the problem persists, contact your next level of support.

---

**A6xx1001    A6xx1001**

**Explanation:** Enqueueing a task to the TDQ which is already enqueued on TDQ

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1103    A6xx1103**

**Explanation:** MISR not readable; must be readable for Normal Mode install

**Response:** MISR is not readable. Perform a manual install to reinitialize the system.

---

**A6xx1104    A6xx1104**

**Explanation:** Failure reading media or not install media

**Response:** Determine that correct install media is loaded. If correct install media is installed, media could be corrupt. Obtain another copy of the install media and re-attempt the install. If the install still fails, contact your service representative.

---

**A6xx1201    A6xx1201**

**Explanation:** Critical database segment could not be created

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1204    A6xx1204**

**Explanation:** Error in constraint enforcement

**Failing Item:**

- LICIP08
- AJDG301

## A6xx1210 • A6xx4401

---

**A6xx1210**    **A6xx1210**

**Explanation:** Object not found in the in-use table

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1215**    **A6xx1215**

**Explanation:** Error in critical code sequence

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1219**    **A6xx1219**

**Explanation:** A back leveled driver has been detected

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1604**    **A6xx1604**

**Explanation:** Not able to create APPN task

**Response:** An error occurred during task creation which requires a power off of the system.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1724**    **A6xx1724**

**Explanation:** An attempt to create a segment failed

**Response:** The create could fail for two reasons:

- A code problem. Perform the procedure indicated in the failing item list.
- No free auxiliary storage on the system. Add additional DASD if the create failed because no auxiliary storage was available.

**Failing Item:**

- LICIP08
- AJDG301

---

**A6xx1730**    **A6xx1730**

**Explanation:** An IPL is needed to restore system performance

**Response:** Licensed Internal Code has detected a condition that is impacting system performance. System operation can continue, but system performance may be noticeably reduced until the next IPL.

Look at the Product Activity Log entry, and find the

value at offset x'000180'. If the value equals x'00000122', the error was caused by too much processor memory being installed.

For more information, contact IBM Service Support.

**Failing Item:**

- UPLF1

---

**A6xx3000**    **A6xx3000**

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** Copy the current main storage dump to media. For more information on how to copy a Main Storage Dump, refer to Copying a main storage dump.

**Failing Item:**

- AJDG301

---

**A6xx41FC**    **A6xx41FC**

**Explanation:** Installation of LIC failed

**Response:** Words 12 and 13 of this SRC contain additional diagnostic information.

Install LIC using physical media.

To determine what caused the failure, collect SRC information and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6xx41FD**    **A6xx41FD**

**Explanation:** Installation of LIC failed

**Response:** A main store dump was initiated. Words 12 and 13 of this SRC contain additional diagnostic information.

To recover the partition using the previously installed LIC, perform a B-mode IPL. You can then re-try the installation of LIC. Otherwise, install LIC using physical media.

To determine what caused this failure, collect SRC information and main store dump and contact your next level of support.

**Failing Item:**

- SVCDOCS

---

**A6xx4401**    **A6xx4401**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6xx4402**    **A6xx4402**

**Explanation:** Missing DASD units.

**Response:** Copy the current main storage dump to media. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6xx4403**    **A6xx4403**

**Explanation:** Storage Management failed to reach full paging.

**Response:** Copy the current main storage dump to media.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6xx4404**    **A6xx4404**

**Explanation:** Auto copy failed or not attempted.

**Response:** Copy the current main storage dump. If copying to system ASP, existing copies may need to be deleted or renamed. Then exit the Main Storage Dump Manager.

For more information on how to perform a Main Storage Dump, refer to Copying a main storage dump.

---

**A6xx4405**    **A6xx4405**

**Explanation:** System ASP threshold exceeded after auto copy done.

**Response:** Delete other system ASP copies or exit the Main Storage Dump Manager and then from DST copy the Auto Copy to media and then delete the Auto Copy in system ASP.

---

**A6xx4420**    **A6xx4420**

**Explanation:** MSD Manager not configured to save dump information

**Response:** The platform produced dump data, but the Main Storage Dump (MSD) Manager was not configured to automatically copy the dump to an Auxiliary Storage Pool (ASP). The dump will be lost if the system power is lost. Use MSD Manager to manually copy the current platform dump to media or an ASP.

---

**A6xx4421**    **A6xx4421**

**Explanation:** Insufficient space in the ASP to store a platform dump

**Response:** The platform produced dump data, and the Main Storage Dump (MSD) Manager was configured to automatically copy the dump to an Auxiliary Storage Pool (ASP), but there was not sufficient free space

available in the ASP. The dump will be lost if the system power is lost. Manually copy the current platform dump from the platform by performing one of the following:

- Make room in the designated ASP and then use the MSD Manager to copy the current platform dump to ASP.
  - Use the MSD Manager to delete other dump copies, then copy the current platform dump to ASP.
  - Use the MSD Manager to copy the current platform dump to a different ASP.
  - Use the MSD Manager to copy the current platform dump to media.
- 

**A6xx4422**    **A6xx4422**

**Explanation:** A platform dump is saved in MSD Manager

**Response:** The platform produced dump data. The dump data was copied to the Main Storage Dump (MSD) Manager.

**Failing Item:**

- PLDUMP
- 

**A6xx4700**    **A6xx4700**

**Explanation:** Processor On Demand error detected.

**Response:** Processor on Demand Data Block key is not valid.

Replace the Processor Capacity card.

**Failing Item:**

- CTLPNCD
- 

**A6xx4701**    **A6xx4701**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Data Block contains data that does not match the expected data.

Contact your service provider.

**Failing Item:**

- AJDG301
- 

**A6xx4703**    **A6xx4703**

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand Serialization has failed during IPL.

Contact your service provider.

**Failing Item:**

- AJDG301
-

## A6xx4710 • A6xx4745

---

### A6xx4710 A6xx4710

**Explanation:** Processor On Demand error detected.

**Response:** SPCN communication failure during Processor On Demand.

Look in the Product Activity Log for other SPCN errors and perform the actions indicated for those errors.

**Failing Item:**

- SPNLCRD

---

### A6xx4712 A6xx4712

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD

---

### A6xx4713 A6xx4713

**Explanation:** Incorrect Processor Capacity Card installed.

**Response:** The Processor Capacity Card is the failing item since it has been swapped in from a different system.

Put the Processor Capacity Card back in the system it came from, and reinstall this system's original Processor Capacity Card.

**Failing Item:**

- CTLPNCD

---

### A6xx4714 A6xx4714

**Explanation:** The CUoD data is not present. A problem may exist.

**Response:** The Processor Capacity Card was changed and there may be a problem.

If the system did have any activated standby processors before the Processor Capacity Card was replaced, then new processor on demand activation codes must be obtained to restore the previous activations.

Contact your service provider.

---

### A6xx4715 A6xx4715

**Explanation:** Processor On Demand error detected.

**Response:** Correct any Processor Capacity card or SPCN failures.

**Failing Item:**

- CTLPNCD

---

### A6xx4730 A6xx4730

**Explanation:** Processor On Demand error detected.

**Response:** Processor On Demand standby processors are in use.

Contact your service provider.

**Failing Item:**

- AJDG301

---

### A6xx4731 A6xx4731

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Trial Activation period is not valid. Contact your next level of support.

**Failing Item:**

- AJDG301

---

### A6xx4733 A6xx4733

**Explanation:** Processor On Demand error detected.

**Response:** Contact your service provider.

**Failing Item:**

- AJDG301

---

### A6xx4740 A6xx4740

**Explanation:** Processor On Demand error detected.

**Response:** The Processor On Demand Activation code just entered is not valid.

Contact your next level of support.

**Failing Item:**

- AJDG301

---

### A6xx4741 A6xx4741

**Explanation:** Processor On Demand error detected.

**Response:** An invalid Processor On Demand Activation code has been entered more than 5 consecutive times. Contact your service provider.

**Failing Item:**

- AJDG301

---

### A6xx4745 A6xx4745

**Explanation:** Processor Capacity card replaced on activated POD system.

**Response:** Contact IBM Support to order a replacement Processor On Demand activation code.

---

**A6xx4747**    **A6xx4747**

**Explanation:** 1 hour left in POD 14 day Trial Activation Period.

**Response:** If a new activation code was purchased, it should be entered now. Otherwise, the system will revert back to its previous activation state at the end of the Trial Activation Period.

---

**A6xx5001**    **A6xx5001**

**Explanation:** DST received no response from a workstation controller

**Response:** The workstation I/O processor for the system or partition console did not respond.

**Failing Item:**

- RTRIP01
- FI00380
- AJDG301

---

**A6xx5002**    **A6xx5002**

**Explanation:** DST problem attempting to use the system console

**Response:** A code problem occurred during an attempt to use the system console.

**Failing Item:**

- LICIP03
- AJDG301
- FI00380

---

**A6xx5003**    **A6xx5003**

**Explanation:** Service program failed

**Response:** The ASCII system console failed to respond.

**Failing Item:**

- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

**A6xx5004**    **A6xx5004**

**Explanation:** DST console failed to respond

**Response:** The system console failed to respond.

**Failing Item:**

- RTRIP02
- FI00320
- FI00602
- USER

- AJDG301
- FI00380

---

**A6xx5005**    **A6xx5005**

**Explanation:** Service program failed

**Response:** The workstation adapter system console failed to respond.

**Failing Item:**

- WSAIP01
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

**A6xx5007**    **A6xx5007**

**Explanation:** Service program failed

**Response:** The workstation adapter console failed to respond.

**Failing Item:**

- RTRIP07
- FI00320
- FI00602
- USER
- AJDG301
- FI00380

---

**A6xx5008**    **A6xx5008**

**Explanation:** DST console failed to respond

**Response:**

**Failing Item:**

- OPCIP03
- FI00719

---

**A6xx5010**    **A6xx5010**

**Explanation:** IPL service function ended abnormally

**Failing Item:**

- LICIP04
- AJDG301

---

**A6xx5014**    **A6xx5014**

**Explanation:** DST status. The Storage Management Dual Path Information Screen option to dump data to a PAL has completed successfully.

## A6xx5015 • A6xx5121

---

### A6xx5015 A6xx5015

**Explanation:** DST error. An error has occurred gathering data for the Storage Management Dual Path Information Screen option to dump data to a PAL. Contact your next level of support or hardware service provider.

**Failing Item:**

- NEXTLVL

---

### A6xx5082 A6xx5082

**Explanation:** DST lost contact with the console

**Response:** A service program lost contact with the system console.

**Failing Item:**

- RTRIP03
- AJDG301
- USER

---

### A6xx5083 A6xx5083

**Explanation:** IPL service function ended abnormally

**Response:** A service program lost contact with the system console.

**Failing Item:**

- TWSIP01
- AJDG301
- USER

---

### A6xx5090 A6xx5090

**Explanation:** System startup failed in unattended IPL mode

**Response:** Perform the following:

- If reference code A6xx5090 is displayed on the control panel for more than 10 minutes, perform the procedure indicated in the failing item list.
- For reference code B6xx5090, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP11
- FI00580
- FI00500
- FI00301
- FI00021
- FI00065
- AJDG301

---

### A6xx5092 A6xx5092

**Explanation:** System is in DASD migration mode

**Response:** Install Licensed Internal Code and Upgrade Load Source was specified but the key is not in the manual position. Change the key position to manual and perform a system IPL.

---

### A6xx5094 A6xx5094

**Explanation:** IASP detected a failure during the vary on operation

**Failing Item:**

- LICIP12

---

### A6xx50FF A6xx50FF

**Explanation:** DST unrecoverable program error

**Failing Item:**

- LICIP03
- AJDG301
- FI00380

---

### A6xx5120 A6xx5120

**Explanation:** System LIC detected a program exception

**Response:** System LIC detected a programming problem. If performance or other system degradation is occurring, the system may be operating with reduced resources.

Check the Product activity log for related entries. If this reference code is logged with an error class of Informational, then no action is required.

Otherwise, perform the procedure indicated in the failing item list.

**Failing Item:**

- LICIP01
- AJDG301
- FI00130

---

### A6xx5121 A6xx5121

**Explanation:** LIC program exception occurred

**Response:** System LIC detected a programming problem for which a main storage dump may have been initiated. Collect the dump if available.

A problem log entry may be generated for this refcode.

**Failing Item:**

- LICIP01
- AJDG301

---

**A6xx5122**    **A6xx5122****Explanation:** LIC program exception occurred**Response:** System LIC detected an IOP programming problem for which an IOP dump may have been initiated.**Failing Item:**

- LICIP01
  - FI00130
  - AJDG301
  - FI00131
- 

**A6xx5123**    **A6xx5123****Explanation:** LIC program exception occurred**Response:** System LIC detected an interface problem with the IOP or an IOP programming problem for which an IOP and main storage dump may have been initiated.**Failing Item:**

- LICIP01
  - FI00130
  - AJDG301
  - FI00131
- 

**A6xx5126**    **A6xx5126****Explanation:** Addressed device failed to respond to selection**Failing Item:**

- DISKDRV
  - STORIOA
  - DISKTRY
  - FI01106
  - FI01140
  - FI01141
  - DEVTERM
  - BACKPLN
- 

**A6xx5127**    **A6xx5127****Explanation:** IOP timed out a disk command**Failing Item:**

- DISKDRV
  - STORIOA
  - FI01106
  - DISKTRY
  - FI01140
  - FI01141
  - DEVTERM
  - BACKPLN
- 

---

**A6xx5128**    **A6xx5128****Explanation:** I/O processor failure**Failing Item:**

- FI01112
  - FI01107
- 

**A6xx512D**    **A6xx512D****Explanation:** An IOP dump was initiated**Response:** Copy the IOP dump entry and any related entries from the Product Activity Log to suitable media, and give to an IBM service representative.

---

**A6xx512E**    **A6xx512E****Explanation:** LIC program exception occurred**Response:** The system was in a D IPL mode when the problem was detected. A main storage dump was not taken.**Failing Item:**

- LICIP01
  - AJDG301
  - FI00130
- 

**A6xx5192**    **A6xx5192****Explanation:** Insufficient entitled memory for the I/O configuration**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the I/O adapter. To restart a storage I/O adapter, use Hardware Service Manager to re-IPL the virtual I/O processor that is associated with this I/O adapter. To restart a communications I/O adapter, vary the line off and vary it on using the vary configuration (VRYCFG) command.**Failing Item:**

- SVCDOCS
- 

**A6xx5193**    **A6xx5193****Explanation:** Virtual adapter not supported in a shared memory partition**Response:** Use the hardware management console to remove the virtual adapter from the partition.**Failing Item:**

- SVCDOCS
-

## A6xx5194 • A6xx5311

---

A6xx5194    A6xx5194

**Explanation:** Insufficient entitled memory for the I/O configuration

**Response:** Use the hardware management console to increase the entitled memory capacity of the partition and restart the partition.

**Failing Item:**

- SVCDOCS

---

A6xx5206    A6xx5206

**Explanation:** System LIC detected a missing IOP LIC code load

**Response:** System LIC detected a missing IOP LIC code load during IPL of the IOP. This indicates that either the IOP code load is not installed on the system Load Source device or that system LIC was unable to successfully read that load from the Load Source device.

**Failing Item:**

- LICIP01
- USER

---

A6xx5209    A6xx5209

**Explanation:** System LIC detected an IOP timeout during IOP IPL

**Response:** Verify that all IOP cable connections are secure, and check tape and other non-disk devices and media to verify that they are in a ready state.

**Failing Item:**

- LICIP01
- USER
- FI00130
- AJDG301

---

A6xx5219    A6xx5219

**Explanation:** LIC program exception occurred

**Response:** An IOP signaled to system LIC that it had entered a critical internal state. LIC automatically attempted to restart the IOP.

This reference code is logged for information only. No action is required.

**Failing Item:**

- FI00310
- FI00318
- FI00065
- FI00130
- AJDG301

---

A6xx5275    A6xx5275

**Explanation:** The system issued a reset/reload to the IOP.

**Response:** System Licensed Internal Code detected that an IOP Reset/Reload has occurred, and that the IOP successfully recovered.

Users who were signed on to a Workstation device under the IOP will need to sign back on. Any LAN/WAN communications lines under the IOP will need to be restarted. Tape/Optical devices under the IOP may need to be varied back on.

To determine the cause of the IOP Reset/Reload, check the Product Activity Log for additional entries logged with the same System Log ID, and perform any actions indicated for those errors.

---

A6xx5276    A6xx5276

**Explanation:** IOP Reset was issued

**Response:** LIC has detected a problem with the Service Processor IOP and has reset it but has not initiated reload of the Service Processor.

If the Load Source is mirrored, some system operations may be able to continue normally. However, some system service operations have been suspended and the system should be scheduled for power down as soon as possible.

**Failing Item:**

- RTRIP08
- AJGLD01
- AJDG301
- FI00021

---

A6xx5310    A6xx5310

**Explanation:** LIC program exception occurred

**Response:** System LIC detected a logical partition configuration data consistency error. Copy the Product Activity Log data for this error and any related entries and contact your next level of hardware service support.

**Failing Item:**

- LPARSUP

---

A6xx5311    A6xx5311

**Explanation:** LIC program exception occurred

**Response:** LPAR configuration data does not match current system configuration. The system will not IPL past DST until the problem is corrected.

Following is a list of problems which may have caused this SRC to be reported:



- Non-configured disk unit which was previously a load source on a partitioned system.
- Load Source configuration data does not match partition for which it is being used.
- Load Source configuration data does not match system serial number for which it is being used.
- Load Source configuration data is newer than primary partition configuration data.

**Failing Item:**

- LPRIP01
- LPARSUP

---

**A6xx5312    A6xx5312****Explanation:** LIC program exception occurred**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be in error or inconsistent on a secondary partition's Load Source. The data was automatically updated to the current system level.

---

**A6xx5313    A6xx5313****Explanation:** LIC program exception occurred**Response:** LPAR configuration data informational error.

The LPAR configuration data was found to be inconsistent on a primary partition and could only be corrected with an older copy of the data.

**Failing Item:**

- LPARCFG

---

**A6xx5340    A6xx5340****Explanation:** Secondary partition not running at optimum.**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

---

**A6xx5341    A6xx5341****Explanation:** Secondary partition not running at optimum.**Response:** Check the primary partition Product Activity Log for system memory entries from approximately the same time. Perform the actions indicated for those entries.

---

**A6xx5342    A6xx5342****Explanation:** Secondary partition not running at optimum.**Response:** Check the Primary partition's Product Activity Log for system processor entries from approximately the same time. Perform the actions indicated for those entries.

---

**A6xx5343    A6xx5343****Explanation:** Secondary partition not running at optimum.**Response:** Check the Primary partition's Product Activity Log for system memory errors from approximately the same time. Perform the actions indicated for those entries.

---

**A6xx5344    A6xx5344****Explanation:** Secondary partition not running at optimum.**Response:** The interactive performance specified in the configuration data for this partition could not be met.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

**A6xx5350    A6xx5350****Explanation:** Secondary partition software release not supported**Response:** The logical partition software version is outside the supported release delta.

Check the Release Delta from the Primary partition "Display Partition Release Level" screen.

Check the LPAR documentation for the release level of the Primary partition and determine what the supported Release Delta is.

---

**A6xx5380    A6xx5380****Explanation:** LIC program exception occurred**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

## A6xx5390 • A6xx6907

---

A6xx5390    A6xx5390

**Explanation:** LIC program exception occurred

**Response:** Record the Product Activity Log (PAL) hex data for this SRC or print the PAL entry.

Contact your next level of support.

**Failing Item:**

- LPARSUP

---

A6xx5505    A6xx5505

**Explanation:** The copying of DASD log data to the IOP log was successful

**Response:** IOP log data can be copied to a spool file for examination by the development lab.

---

A6xx5555    A6xx5555

**Explanation:** SLIC I/O DASD subsystem error recovery in progress.

---

A6xx5600    A6xx5600

**Explanation:** Unrecoverable read error

**Response:** VPD data could not be read.

Look for other errors implicating hardware. There is no way to know what VPD read has failed, but the resource is not usable and should generate an error.

If no such error occurred, call your next level of support.

**Failing Item:**

- SVCDOCS

---

A6xx6900    A6xx6900

**Explanation:** System bus error

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

A6xx6901    A6xx6901

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

A6xx6902    A6xx6902

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

A6xx6905    A6xx6905

**Explanation:** Optical bus failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

---

A6xx6906    A6xx6906

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC could not access part of the HSL I/O bridge VPD. The bridge and HSL loop may be prevented from becoming operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIIOADP
- OPT\_CLN

---

A6xx6907    A6xx6907

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC detected invalid data in the HSL I/O bridge VPD. The bridge and HSL loop may not have become operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event view on the hardware management console, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the

failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIOADP
- OPT\_CLN

**A6xx6908    A6xx6908**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC data in the I/O bus VPD could not be accessed. The I/O Bus identified in the SRC may not have become operational.

If there is a B6xx 6906 reference code, close this problem in the serviceable event view you are working with and work the 6906 error.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event view on the hardware management console or service processor is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIOADP
- OPT\_CLN

**A6xx6909    A6xx6909**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** LIC detected invalid data in the I/O bus VPD. The bus and resources associated with it may not be operational.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event

viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

If the serviceable event view only indicated a frame or enclosure see the locations section for the frame or enclosure type. The location of the HSL I/O Bridge will be given in the locations tables.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIOADP
- OPT\_CLN

**A6xx690A    A6xx690A**

**Explanation:** Associated adapter not found in this partition

**Failing Item:**

- LICIP16

**A6xx6910    A6xx6910**

**Explanation:** I/O processor failure

**Response:** An I/O processor timed out, returned bad status, or is not following the system bus protocol.

**Failing Item:**

- LICIP07
- FI00310
- FI00318
- FI00065
- FI00130
- AJDG301

**A6xx6938    A6xx6938**

**Explanation:** Not valid system configuration detected

**Response:** This system model does not allow a configuration of more than three (non-OptiConnect) I/O Processors.

Power down the system and remove the extra (non-OptiConnect) I/O Processor(s) so that there are three or less. Restart the system.

---

**A6xx6944    A6xx6944**

**Explanation:** Missing or failed I/O processor cards

**Response:** A system bus appears to be empty. If the bus is not empty, two I/O processors in consecutive slots may be missing or broken. If there are broken I/O processors, then another more serious SRC has occurred. Otherwise find the bus number for this failure from the Product activity log and use the system configuration list to verify the configuration of the I/O processors on that bus.

**Failing Item:**

- FI00317
- FI00316
- AJDG301

---

**A6xx6960    A6xx6960**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Slot unavailable due to 64 bit card in adjacent slot.

One of the messages documented with the symbolic FRU will describe the problem. See SLOTERR symbolic FRU for a list of messages and corrective actions.

**Failing Item:**

- SLOTERR

---

**A6xx6961    A6xx6961**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** LED control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or a serviceable event viewer on the hardware management console is available for this problem then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

**A6xx6962    A6xx6962**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Power control failure, do not use slot.

If there is a Linux partition in the system, any IOPs plugged into slots owned by a Linux partition will not power on. This error will be logged. Correct the situation by removing the IOP cards.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log, or serviceable event view on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOTERR
- MASBUS

---

**A6xx6963    A6xx6963**

**Explanation:** Multi-adapter bridge card slot error, do not use card slot

**Response:** Power control failure, do not use slot.

The card location is not available for use. The Failing Item with the card slot error is in the Failing Item list for this reference code.

See SLOTERR symbolic FRU for the list of messages and a further description of the problem detected by Licensed Internal Code.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SLOERR
- MASBUS

---

**A6xx6964    A6xx6964**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** One of several errors or configuration problems has occurred under a Multi-adapter bridge. If you are using the Service Action Log (SAL), or the serviceable event viewer on the hardware management console or the service processor, then the correct FRU, description and card position(s) will be listed. Use the FRUs and descriptions in the serviceable event view you are working with to determine the problem.

If you do not have access to the Service Action Log, or serviceable event view on the hardware management console or service processor, then word 4 of the SRC has more information. Examine the last 4 digits in word 4 to determine the problem by comparing them to the list below and using the FRU(s) listed here.

1. xxxx2022 - IOP found in slots owned by a Linux partition. The Multi-adapter Bridge and PCI Bridge set that it controls are assigned to a Linux partition. The IOP found in the SLOT indicated by the DSA in word 7 will not be configured.
2. xxxx2014 - I/O adapters were found under the Multi-adapter Bridge but there is no IOP to support them. The adapters cannot be used.
3. xxxx2015 - An card type was found that cannot be supported in the card position where it is located.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A6xx6965    A6xx6965**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** Card type not supported in this slot.

An I/O processor or I/O adapter card type is installed in the location indicated in word 7 of the SRC. The

card type is not supported in that slot under the multi-adapter bridge. The card is unavailable.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A6xx6966    A6xx6966**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O processor removed from multi-adapter bridge card slot.

On the previous IPL an I/O processor was in the card location specified in word 7 of the SRC. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A6xx6967    A6xx6967**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O adapter unavailable due to moved I/O processor card.

The I/O adapter specified in word 7 of the SRC is not available. On the previous IPL there was an I/O processor card the adapter was assigned to. The I/O processor was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

**A6xx6968    A6xx6968**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** IOA removed from multi-adapter bridge slot.

On the previous IPL an I/O adapter was in the card slot specified in word 7 of the SRC. That I/O adapter was not detected on this IPL.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

## A6xx6969 • A6xx6971

- MABRCFG

---

### A6xx6969 A6xx6969

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** I/O adapter replaced by I/O processor card.

On the previous IPL there was an I/O adapter in the location specified in word 7 of the SRC. This IPL LIC detected that the IOA was replaced by an IOP in that location.

See MABRCFG symbolic FRU for the list of messages, a further description of the problem detected by Licensed Internal Code and the corrective action.

**Failing Item:**

- MABRCFG

---

### A6xx696A A6xx696A

**Explanation:** Card slot test failed

**Failing Item:**

- LICIP14
- FI00131
- BACKPLN

---

### A6xx696B A6xx696B

**Explanation:** Card slot could not be validated

**Response:** This can be caused by "PCI error injection policy" being set to "YES" and an I/O Processor being installed on the same Multi-adapter bridge domain as the I/O Adapter. Do one of the following:

-- Using the hardware management console or a customer PC with a Web browser access the Advanced System Management Interface (ASMI) and disable PCI error injection policy.

OR

-- Vary off the I/O Adapter. Using Hardware Service manager in SST/DST, locate the I/O Adapter resource. Using concurrent maintenance on the associated packaging resource, remove the I/O Adapter and install it in a location that does not have I/O Processors on the same Multi-adapter bridge domain.

OR

-- Vary off the I/O Adapter. Use the concurrent maintenance option in Hardware Service Manager in SST/DST to power off all I/O Processors located on the same multi-adapter bridge domain as the I/O Adapter. Use concurrent maintenance to power off and power on the I/O Adapter. Then use concurrent maintenance to power on the I/O Processors located on the same multi-adapter bridge domain as the I/O Adapter.

---

### A6xx6970 A6xx6970

**Explanation:** High Speed Link (HSL) resource failure

**Response:** A system PCI bus failure was detected. Word 7 of the SRC contains the bus number.

This failure can occur when a tower in an HSL loop is powered off using concurrent maintenance. If this is the case, close this problem.

This error is most likely in the hardware that makes up the PCI bus, the PCI bus side of the HSL I/O bridge or the multi-adapter bridge. In some cases it may be caused by a failing IOP in the multi-adapter bridge's domain. When an IOP is causing the problem, the failing IOP cannot be identified.

NOTE: This SRC can occur for the PCI bus resource on a PCI bus in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

If the Service Action Log, or serviceable event view on the hardware management console or service processor, is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SI\_PHB
- PRI\_PCI
- MA\_BRDG
- MABIP03
- BRDGSET
- OPT\_CLN

---

### A6xx6971 A6xx6971

**Explanation:** High Speed Link (HSL) resource failure

**Response:** A failure occurred in a multi-adapter bridge or on the bus to the card location it controls.

If a serviceable event view is available, use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available, use the failing item list documented here.

**Failing Item:**

- MABIP02
  - MA\_BRDG
  - MASBUS
  - PIOCARD
-

---

**A6xx6972**    **A6xx6972**

**Explanation:** High Speed Link (HSL) resource failure

**Response:** Multi-adapter Bridge (MaB) failure detected.

For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event viewer you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event view is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- MA\_BRDG

---

**A6xx6973**    **A6xx6973**

**Explanation:** High Speed Link (HSL) resource failure

**Response:** Multi-adapter Bridge has detected a problem in the card installed in the location specified in word 7 of the SRC. Use the FRU list in the Service Action Log (SAL), or serviceable event view you are working with. If you are working from this document's FRU list use the Symbolic FRU BRDGSET to determine the failing items.

**Failing Item:**

- BRDGSET
- SIIOADP
- MA\_BRDG

---

**A6xx6974**    **A6xx6974**

**Explanation:** Multi-adapter bridge configuration change or error

**Response:** PCI I/O processor rejected the assignment of or the removal of an I/O adapter.

**Failing Item:**

- MABRCFG

---

**A6xx6975**    **A6xx6975**

**Explanation:** The system issued a reset/reload to the service processor.

**Response:** Service processor error.

**Failing Item:**

- AJDGP01

---

**A6xx6976**    **A6xx6976**

**Explanation:** Service processor failure.

**Response:** For this reference code the failing item list presented in the Service Action Log (SAL), or serviceable event view you are working with, can be different from the failing item list documented here. That is due to the differences in system models and features installed.

If the Service Action Log (SAL) or a serviceable event viewer on the hardware management console is available then use the failing item list presented there for servicing this reference code.

If a serviceable event viewer is not available then use the failing item list documented here. By following the procedures in the symbolic FRUs listed here you will isolate to the correct FRU list based on system model and features installed.

**Failing Item:**

- SVCPROC

---

**A6xx6980**    **A6xx6980**

**Explanation:** Network Interface Controller / IO Hub failure.

**Response:** For Power5 and newer servers, service this error using the B7006980 service information. Otherwise, continue with this information.

The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SICNTRL
- OPT\_CLN

---

**A6xx6981**    **A6xx6981**

**Explanation:** High Speed Link (HSL) I/O bridge failure

**Response:** For Power5 and newer servers, service this error using the B7006981 service information. Otherwise, continue with this information.

Cycle power on the frame identified as the frame with failed HSL I/O Bridge prior to replacing FRUs.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are using, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

If you find either a B6xx 6982 or B6xx 6984 SRC logged

## A6xx6982 • A6xx6985

at approximately the same time as this SRC then they were caused by the same failure. If you find a 6982 SRC logged at approximately the same time then close this problem and service the 6982 SRC. The failing item listed for this SRC is one of the failing items listed for B6xx 6982. If the serviceable event view's entry for this SRC has a location listed then record the location for use in servicing the 6982 SRC.

NOTE: This SRC can occur for the HSL I/O Bridge resource in an I/O expansion unit when the unit is powered off for a concurrent maintenance action.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

### Failing Item:

- SIIOADP
- OPT\_CLN

---

### A6xx6982    A6xx6982

**Explanation:** High Speed Link (HSL) connection failure

**Response:** For Power5 and newer servers, service this error using the B7006982 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL) or serviceable event view you are using, then it is informational or statistical only. It does not require a service action.

Otherwise, this is a connection failure on an HSL link. Perform the procedure indicated in the failing item list.

### Failing Item:

- RIOIP09
- HSL\_LNK
- SIIOADP
- SICNTRL
- REM\_NIC
- OPT\_CLN

---

### A6xx6983    A6xx6983

**Explanation:** An invalid High Speed Link (HSL) configuration was detected

**Response:** For Power5 and newer servers, service this error using the B7006983 service information. Otherwise, continue with this information.

An HSL loop has an invalid configuration. Word 4 of the SRC contains the program return code (PRC) which identifies the problem with the loop's configuration. Use the PRC and the FRU listed below to determine the problem.

If you are using the Service Action Log (SAL) or serviceable event view you are working with, the FRU

description may already indicate the configuration problem.

### Failing Item:

- SIRGCFG

---

### A6xx6984    A6xx6984

**Explanation:** High Speed Link (HSL) loop status message

**Response:** For Power5 and newer servers, service this error using the B7006984 service information. Otherwise, continue with this information.

An HSL loop has switched to its alternate path. This is an informational SRC only.

Word 7 of the SRC contains the loop number in the leftmost 4 digits. The loop number is in hexadecimal format. You must convert the hexadecimal loop number into decimal format to recognize the loop number in HSM.

This SRC can be caused by a tower on the HSL loop powering off.

This SRC may also appear in the Service Action Log (SAL), or serviceable event viewer you are using, with a B6xx 6982 or B6xx 6981 logged at approximately the same time. In that case the other SRC is reporting a failure and this SRC is reporting that the alternate HSL path is now being used. Service the other SRC if present.

---

### A6xx6985    A6xx6985

**Explanation:** High Speed Link (HSL) loop status message

**Response:** For Power5 and newer servers, service this error using the B7006985 service information. Otherwise, continue with this information.

If this SRC is not in the Service Action Log (SAL), or serviceable event view you are using, then it is informational. Use FRU SIRSTAT to determine what this SRC means. Otherwise, continue with the following steps:

This error can appear as a serviceable event when a tower, or I/O unit or another system in the loop did not complete powering on before LIC on this system checked this loop for errors. Search the Product Activity Log (PAL) for the last B6xx 6985 SRC logged for this loop and use FRU SIRSTAT to determine if this error requires service. If the last entry indicates the loop is functioning (determined by FRU SIRSTAT) then no service action is required, close this problem

There may be multiple B6xx 6985 logs with xxxx 3205 in word 4 errors for the same loop resource in the serviceable event view. This is caused by retry and recovery attempts. If there is a B6xx 6985 with xxxx 3206 or xxxx 3208 in word 4 after the above B6xx 6985



entries in the PAL, then the recovery efforts were successful. If this is the case, close all the B6xx 6985 entries for that loop resource in the serviceable event view.

1. If you find a B6xx 6981 in the serviceable event view then close that problem and go to step 2. Otherwise perform the following:
  - Perform RIOIP06 to determine if any other systems are connected to this loop and return here. (HSL\_LNK or HSLxxxx FRU in the Service Action Log (SAL) entry, or serviceable event view you are working with, indicates the loop number.) If there are other system(s) then continue with the steps that follow, otherwise go to step 2.
  - Check for HSL failures on the other system(s) before replacing parts. HSL failures are serviceable event entries with HSL I/O Bridge and Network Interface Controller (NIC) resources. Ignore B6xx 6982 and B6xx 6984 entries. If there are HSL failures on other system(s) then continue with the steps that follow, otherwise go to step 2.
  - Repair the problems on the other systems and return to this step. After making repairs on the other system(s) check the Product Activity Log (PAL) of this system for a B6xx 6985 logged after the repairs you made on the other system(s). If you find one then continue with the steps that follow, otherwise go to step 2.
  - For the B6xx 6985 log you found, use FRU SIRSTAT to determine if the loop is now complete. If the loop is complete then this problem has been resolved. Use RIOIP01 to verify that the loop is now working properly. Otherwise, go to step 2.
2. Use the serviceable event's FRU list when it is available.
 

If this SRC appears in the Service Action Log (SAL), or the serviceable event view you are using, with the Symbolic FRU HSL\_LNK or HSLxxxx listed as a FRU, then perform problem isolation procedure RIOIP01. Otherwise exchange the FRUs listed in the serviceable event view.

NOTE: A fiber optic cleaning kit may be required for optical HSL connections.

**Failing Item:**

- SIRSTAT
- HSL\_LNK
- SIIOADP
- SICNTRL
- OPT\_CLN

---

**A6xx6986    A6xx6986**

**Explanation:** System bus error

**Response:** For Power5 and newer servers, service this error using the B7006986 service information. Otherwise, continue with this information.

During IPL, system LIC detected an HSL I/O bridge that was already initialized. The bridge should have been in a flushed and uninitialized state after powering on. There is a problem with SPCN components that prevented the tower from powering off after a previous power off was issued. The tower will not be configured for this IPL.

This reference code is equivalent to 1xxx 90F0. When referring to the "CBLALL" symbolic FRU in the Failing Item list, perform the "CBLALL" procedure using reference code "90F0".

Word 5 of the SRC identifies the frame. Determine the frame by breaking down word 5:

Word 5 -> xxxx xxNN where: NN is the frame number in hexadecimal format.

**Failing Item:**

- TWRCARD
- CBLALL

---

**A6xx6987    A6xx6987**

**Explanation:** High Speed Link (HSL) connection failure

**Response:** For Power5 and newer servers, service this error using the B7006987 service information. Otherwise, continue with this information.

Failures are occurring on the HSL link.

There may be B6xx 6982 errors logged on the same loop and about the same time as this error. Close those errors and continue to correct the problem by working this error.

- If there is a cable FRU in the serviceable event entry:
  1. If the connection is copper and either end has a loose connection, re-seat the cable. To do this, disconnect the connection and wait a minimum of 30 seconds. Then reconnect the cable and complete the tightening process in at most 30 seconds. Repeat the process at the other end of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), or serviceable event view you are using.
  2. If the connection is optical, clean the connections at both ends of the cable. If the error persists, replace the FRUs in the Service Action Log (SAL), serviceable event view you are using.
  3. If the error persists, replace the FRUs at each end of the cable starting with the FROM FRU listed in the serviceable event view you are using.

## A6xx6990 • A6xx69C2

- If there was no cable in the Service Action Log (SAL), or serviceable event view you are using, then replace the FRUs listed in the serviceable event view.

### Failing Item:

- HSL\_LNK
- OPT\_CLN

---

A6xx6990    A6xx6990

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

### Failing Item:

- SVCPROC

---

A6xx6991    A6xx6991

**Explanation:** Service processor failure.

### Failing Item:

- AJDGP01

---

A6xx6992    A6xx6992

**Explanation:** Service processor failure.

### Failing Item:

- AJDGP01

---

A6xx6993    A6xx6993

**Explanation:** Service processor failure.

**Response:** A failure occurred with the service processor hardware or the service processor LIC.

The FRU list displayed in the Service Action Log (SAL), or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

### Failing Item:

- SVCPROC
- AJDGP01

---

A6xx6994    A6xx6994

**Explanation:** Service processor failure.

**Response:** The FRU list displayed in the Service Action Log (SAL) or serviceable event view you are working with, may vary from the failing item list given in this document. Use the FRU list in the serviceable event view if it is available to you.

### Failing Item:

- SVCPROC

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A6xx699C    A6xx699C

**Explanation:** Wrap plug is installed on Bus Expansion Adapter card

**Response:** This reference code is for information only. It indicates the presence of a wrap plug on the local optical link card.

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A6xx69A8    A6xx69A8

**Explanation:** Informational bus reference code

**Response:** This reference code is for information only and might include the following:

- Optical speed encode
- Broken optical links now operational
- Other information

---

A6xx69B8    A6xx69B8

**Explanation:** Bus hardware configuration problem

**Response:** Contact your next level of support.

### Failing Item:

- NEXTLVL

---

A6xx69C1    A6xx69C1

**Explanation:** A failure occurred communicating with another LPAR or system participating in Opti-connect with this LPAR or system. Starting with IBM i release 7.1 this event will be logged in the Product Activity Log but it will not be in the Service Action Log or the Problem Log. This event normally occurs when the other LPAR or system is powered off. If both LPARs or systems are running and have no Opti-connect errors then this event is indicating a possible problem with Opti-connect.

**Response:** Contact your next level of support if you suspect an Opti-connect problem. Otherwise this is a tracking event.

### Failing Item:

- NEXTLVL

---

A6xx69C2    A6xx69C2

**Explanation:** HSL Opticonnect normal connect to another sys. or partition.

**Response:** This reference code is informational only.

HSL OptiConnect has established connection normally. The local system or partition is participating in HSL Opticonnect with other systems or partitions on the same HSL loop.

---

**A6xx69C3**    **A6xx69C3**

**Explanation:** HSL Opticonnect normal disconnect from other sys. or partition

**Response:** This reference code is informational only.

HSL Opticonnect disconnected normally from a remote node. The local system or partition has stopped participating in HSL Opticonnect with the remote system or partition on the same HSL loop. Possible reasons include:

- A remote system or partition went off line due to a normal power off or disable of HSL Opticonnect.

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**A6xx69C5**    **A6xx69C5**

**Explanation:** I/O processor failure

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL

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**A6xx69C6**    **A6xx69C6**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. The problem is most likely with the remote system or partition. Intervention at the remote system is most likely required. Examine both the local and remote HSL OptiConnected systems or partitions for problems on this HSL loop.

Possible reasons include: A fatal error in software or hardware in the remote system or partition or a power failure in the remote system.

If there was not a complete HSL loop before this error occurred then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for a problem with: an HSL cable, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the Service Action Log (SAL), or serviceable event view you are using on the local system or partition for HSL failures on the same HSL loop at approximately the same time this error occurred.

Examine the remote system or partition for problems. If the remote system or partition is powered on and IPL'd then examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network

Interface Controllers. When the remote system is IPL'd it will automatically reconnect with this system or partition.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS

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**A6xx69C7**    **A6xx69C7**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required.

Possible causes are: time out, hang or hardware failure. The problem may be with: the local system or partition or the remote system or partition.

If there was not a complete HSL loop before this error then a failure or power down in an HSL component between the local system or partition and the remote system or partition could have caused this error. Check for SRCs with FRUs like: HSL cables, HSL I/O bridge or a power problem in an expansion I/O tower or unit on this loop.

Examine the SAL or serviceable event view you are working with on the local system or partition for failures on the same loop, or with the Network Interface Controller at approximately the same time.

Examine the remote system or partition for problems. Correct any HSL or NIC problems you find with the remote and local systems or partitions.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log (PAL) information for this failure on both systems. Be sure to record all words in the SRC. Contact your next level of support.

**Failing Item:**

- REM\_SYS
- LOC\_SYS

---

**A6xx69C8**    **A6xx69C8**

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an unexpected event or failure. All of the HSL

## A6xx69C9 • A6xx69D0

OptiConnect connections on this loop will be in a failed state. LIC will attempt to recover from the error. Intervention at the local or remote system or partition may be required. Possible causes are:

- time out of a critical message
- LIC code / table problem
- Network deadlock detected

The problem may be with:

- The local system or partition
- The remote system or partition

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL failures on the same HSL loop, or with the Network Interface Controller at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote system or partition for problems on the same HSL loop or with the Network Interface Controller at approximately the same time this error occurred.

Correct any problems you find with the remote and local systems or partitions that happened at approximately the same time and involve HSL Opticonnect or HSL loop components or Network Interface Controllers.

If there are no problems with the remote system or partition and there are no problems with the local system or partition then collect all the Product Activity Log information for this failure on all systems or partitions. Be sure to record all words in the SRCs. Contact your next level of support.

### Failing Item:

- REM\_SYS
- LOC\_SYS
- AJDG301

---

### A6xx69C9 A6xx69C9

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** The local system or partition disconnected from a remote system or partition due to an failure in a LIC virtualized bus unit. LIC will attempt to recover from the error. Possible causes are:

- LIC problem where the local bus unit is off line.
- LIC problem where the remote bus unit is off line.

Examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote system or partition for problems. Examine the Service Action Log (SAL), or the serviceable event view you are using, on the remote system or partition for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

### Failing Item:

- AJDG301
- REM\_SYS
- LOC\_SYS

---

### A6xx69CF A6xx69CF

**Explanation:** HSL Opticonnect abnormal disconnect from other sys. or partition.

**Response:** LIC internal error. All systems participating in HSL OptiConnect will be disconnected. The system must be re-IPL'd to recover. Before re-IPL'ing the system initiate a main store dump.

After getting the dump, examine the Service Action Log (SAL), or serviceable event view you are using, on the local system or partition for HSL Opticonnect failures that occurred at approximately the same time this error occurred.

Examine the remote systems or partitions for problems. Examine the Service Action Log (SAL), or serviceable event view you are using, on the remote systems or partitions for HSL Opticonnect problems that occurred at approximately the same time this error occurred.

Collect all the Product Activity Log information for this failure on all systems and partitions on this HSL loop. Be sure to record all words in the SRCs. Contact your next level of support with the information you have collected.

### Failing Item:

- AJDG301

---

### A6xx69D0 A6xx69D0

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

### Failing Item:

- NEXTLVL
-

---

**A6xx69D8**    **A6xx69D8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx69D9**    **A6xx69D9**

**Explanation:** Host Ethernet Adapter (HEA) failure

**Response:** Firmware detected a hardware failure in the Host Ethernet Adapter (HEA).

**Failing Item:**

- HEA
- 

**A6xx69DA**    **A6xx69DA**

**Explanation:** System log entry only, no service action required

---

**A6xx69DB**    **A6xx69DB**

**Explanation:** LIC failure

**Response:** A Licensed Internal Code error occurred. The partition will continue to run with this Host Ethernet Adapter (HEA) disabled. Perform a partition dump and then IPL the partition to recover the HEA. Send the partition dump to your next level of support.

**Failing Item:**

- SVCDOCS
- 

**A6xx69DC**    **A6xx69DC**

**Explanation:** The HEA is not connected to the Ethernet switch

**Response:** The Host Ethernet Adapter (HEA) is not connected to the Ethernet switch. If the HEA connection is not needed, no service action is required.

If the HEA connection is needed, verify that the cable is connected and the switch is powered on. After repairing the problem, verify that the connection has been restored.

---

**A6xx69DD**    **A6xx69DD**

**Explanation:** The HEA connection to the Ethernet switch has been restored

**Response:** System log entry only, no service action required.

---

**A6xx69DE**    **A6xx69DE**

**Explanation:** HEA Media Interface Adapter Failure

**Response:** Firmware detected a failure in the HEA Media Interface Adapter.

**Failing Item:**

- HEA
  - AJDG301
- 

**A6xx69E0**    **A6xx69E0**

**Explanation:** Bus Expansion Adapter card failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx69E8**    **A6xx69E8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx69F0**    **A6xx69F0**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx69F8**    **A6xx69F8**

**Explanation:** Bus Expansion Adapter failed

**Response:** Contact your next level of support.

**Failing Item:**

- NEXTLVL
- 

**A6xx7001**    **A6xx7001**

**Explanation:** ISDN call in rejected

**Failing Item:**

- UG3LB
- 

**A6xx7004**    **A6xx7004**

**Explanation:** TCP/IP informational error

**Response:** This reference code is logged when the TCP/IP Attribute Log Protocol Errors is set, and the TCP/IP System LIC silently discards an in bound datagram. Silently discard is defined to mean discard the received datagram without reporting an error to the originating host device. Examples of such datagrams

## A6xx7055 • A6xx7777

are those with checksums or destination addresses which are not valid.

This reference code is for information only. Normally no action should be taken as a result of this reference code. It is generated in order to assist with remote device or TCP/IP network problem determination.

---

**A6xx7055**    **A6xx7055**

**Explanation:** Statistics were logged, no service action required

**Response:** This reference code is logged for information only.

---

**A6xx7102**    **A6xx7102**

**Explanation:** APPN CP-CP session ended.

---

**A6xx7201**    **A6xx7201**

**Explanation:** A utility failure occurred

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a utility failure.

---

**A6xx7202**    **A6xx7202**

**Explanation:** Utility power restored

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting that utility power has been restored.

---

**A6xx7203**    **A6xx7203**

**Explanation:** A battery low condition was detected

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a battery low condition.

---

**A6xx7204**    **A6xx7204**

**Explanation:** Uninterruptible Power System reported a bypass active

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is reporting a bypass is active.

---

**A6xx7205**    **A6xx7205**

**Explanation:** Battery low condition was reset

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a battery low condition.

---

**A6xx7206**    **A6xx7206**

**Explanation:** UPS reported bypass no longer active

**Response:** This reference code is for information only. The Uninterruptible Power System (UPS) is no longer reporting a bypass active condition.

---

**A6xx720A**    **A6xx720A**

**Explanation:** Battery Power Unit replacement dates do not match

**Response:** The replacement dates for one of the Battery Power Units do not match. Run "Display Hardware Configuration" and verify that the dates match the labels on the batteries.

---

**A6xx7703**    **A6xx7703**

**Explanation:** System LIC detected a program exception

**Response:** Storage Management detected a DASD datacheck condition and the defective sector was reallocated.

Perform a system IPL to restart the system.

---

**A6xx7704**    **A6xx7704**

**Explanation:** General failure detected by HRI component.

**Failing Item:**

- AJDG301

---

**A6xx7777**    **A6xx7777**

**Explanation:** Hardware configuration change detected

**Response:** A hardware resource is missing. The resource reported in to the system on a previous IPL, but has not reported in on the current IPL. This could occur for several different reasons.

1. It could be a normal situation where the resource is currently powered off. In this case, when the resource is powered back on, it will no longer be missing.
2. The hardware resource could also be missing if it has been removed from the system, for example, a tape drive that was replaced with a different tape drive. The service representative should use the Hardware service manager to remove the entry for this resource.
3. The resource may not have reported in on this IPL because it is failing. Perform problem analysis to determine why the resource is failing.

---

**A6xx8000**    **A6xx8000**

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Look for other errors in the Service Action Log (SAL), or serviceable event view you are working with, and fix them.

---

**A6xx8001**    **A6xx8001**

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

**A6xx8002**    **A6xx8002**

**Explanation:** Maximum number of redundant connections exceeded

**Response:** An attempt to activate a connection from another I/O adapter to an external storage subsystem disk unit failed because the maximum number of connections are already active for this disk unit. No action required.

---

**A6xx8003**    **A6xx8003**

**Explanation:** External storage subsystem disk unit connection was restored

**Response:** No action required.

---

**A6xx8004**    **A6xx8004**

**Explanation:** An external storage subsystem disk unit connection failed

**Response:** Could not read configuration information from the disk unit. Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

**A6xx8005**    **A6xx8005**

**Explanation:** High performance connection failed

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There are still two or more external storage subsystem disk unit connections, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

**A6xx8006**    **A6xx8006**

**Explanation:** High performance connection failed

**Response:** A high performance connection to an external storage subsystem disk unit failed.

There is still one more external storage subsystem disk unit connection, but performance might be degraded.

Look for other errors in the Service Action Log, or serviceable event view you are working with, and fix them.

---

**A6xx8007**    **A6xx8007**

**Explanation:** High performance connection was restored

**Response:** A high performance connection to an external storage subsystem disk unit was restored.

Performance is no longer degraded.

No action required.

---

**A6xxB700**    **A6xxB700**

**Explanation:** A platform firmware error log was reported to LIC without an SRC in the platform log. LIC will create a log in the PAL with SRC B600B700 to store the platform firmware log in. The platform firmware log will be copied to the component specific data area in the LIC log in the same position it normally is for platform errors.

**Response:** Contact your hardware service provider. This is a platform firmware problem.

**Failing Item:**

- NEXTLVL

---

**A6xxCF00**    **A6xxCF00**

**Explanation:** Permanent error on removable media device.

**Response:** A type D IPL terminated because of a removable media Load Source device failure. If the removable media Load Source is an external device, check the cables. If that does not correct the problem, replace the device. If the removable media Load Source is an internal device, replace the device. If the removable media Load Source is a virtual device, ensure it is set up correctly.

**Failing Item:**

- SVCDOCS

---

**A6xxCF01**    **A6xxCF01**

**Explanation:** Unsupported removable media device configuration.

**Problem determination:** A type D IPL terminated

## A6xxCFFC • A6xxFDC5

because of an unsupported removable media device configuration. Retry the D-IPL with a different removable media device.

**Failing Item:**

- SVCDOCS

---

### A6xxCFFC A6xxCFFC

**Explanation:** Optical library device condition not expected

**Response:** The optical disk drive addressing within the optical library is incorrect. This error is likely to be the result of faulty cabling or switch setting following service to an optical library.

Contact your hardware service provider.

**Failing Item:**

- OPTLCBL
- DRVSWCH

---

### A6xxCFFD A6xxCFFD

**Explanation:** Optical drive failure

**Failing Item:**

- OPTLDRV

---

### A6xxCFFF A6xxCFFF

**Explanation:** Media determined to be bad in Optical library

---

### A6xxF103 A6xxF103

**Explanation:** Main storage dump must be copied for service

**Failing Item:**

- LICIP01

---

### A6xxF104 A6xxF104

**Explanation:** LPAR service function directed a Main Storage Dump.

**Response:** The Hypervisor terminated a partition with an unresponsive Operating System. A Main Store Dump must be done for service. Call your next level of support when the dump is complete.

**Failing Item:**

- LICIP01

---

### A6xxF105 A6xxF105

**Explanation:** Licensed Internal Code detected error

**Failing Item:**

- NEXTLVL

---

### A6xxFDC0 A6xxFDC0

**Explanation:** LIC program reported informational error

**Response:** This reference code is logged for information only. No action required.

---

### A6xxFDC5 A6xxFDC5

**Explanation:** LIC program failed and data was captured

**Response:** This reference code indicates first failure data capture (FFDC) data was collected for a problem reported by licensed internal code.

The user should dial IBM Software Support for assistance.

**Failing Item:**

- UG3AS



---

## (A7xx) Reference codes

An A7xx reference code indicates that an event or error was detected and logged by platform firmware. To resolve an A7xx reference code, determine if the SRC requires a service action. If the SRC is listed in a serviceable event view, use the FRU list from the serviceable event view to determine the actions to take. If you do not find the SRC in a serviceable event view, then it is an informational event and does not require service action.

---

### A7001150    A7001150

**Explanation:** System log entry only, no service action required

**Response:** No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

---

### A7001151    A7001151

**Explanation:** System log entry only, no service action required

**Response:** No action needed unless a serviceable event was logged. If a serviceable event was logged, resolve that error.

---

### A7001152    A7001152

**Explanation:** Platform firmware detected a timeout condition.

**Response:** A reset/reload of the service processor has cleared the timeout condition.

If a service processor dump exists, it should be collected for IBM Service.

**Failing Item:**

- NEXTLVL

---

### A7001160    A7001160

**Explanation:** Service processor failure

**Response:** Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

The platform encountered an error communicating with the service processor. The platform code attempts a graceful shutdown of partitions and powers off the server after a certain time, or when the last partition indicates shutdown, whichever comes first.

**Failing Item:**

- LICCODE
- SVCPROC
- PSI\_LNK

---

### A7001161    A7001161

**Explanation:** System log entry only, no service action required

**Response:** The platform encountered a service processor event indicating that the power status has changed. Note that this is A7xx only.

---

### A7001730    A7001730

**Explanation:** Platform LIC detected an error

**Response:** The VPD for the system is not what was expected at IPL.

When word 9 is 00180003, a redundant VPD chip exists, and the system will continue to run. Replace the VPD card at your next scheduled maintenance. When word 9 is not 00180003 replace the VPD card immediately.

Work with the FRU list in the serviceable event view, if there is one. Otherwise, use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- CAPACTY

---

### A700173A    A700173A

**Explanation:** A VPD collection overflow occurred

**Response:** Look for and resolve other errors in the serviceable event view. If that does not resolve the problem, check for firmware updates and install them, if available. If that does not resolve the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

### A700173C    A700173C

**Explanation:** Generic Asset Protection Event. No service action is required.

**Response:**

**Problem determination:**

---

### A7003000    A7003000

## A7003003 • A7004712

**Explanation:** User-initiated PHYP-generated SYSDUMP.

**Response:** No service action required.

---

A7003003    A7003003

**Explanation:** User-initiated PHYP-content RSCDUMP.

**Response:** No service action required.

---

A7004091    A7004091

**Explanation:** User intervention required

**Response:** The system power on has reached a standby state. The firmware does not have partition configuration information.

Use the HMC OR SDMC to activate one or more partitions to change the system from a standby state to an operating state. If the HMC or SDMC does not manage the server, perform Restoring your server to factory settings.

**Failing Item:**

- SVCDOCS

---

A7004700    A7004700

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD.

Capacity on Demand is not available because the stored activation code is not valid. Contact your next level of support to verify your activation code. If the activation code is valid, replace the VPD card.

**Failing Item:**

- SVCDOCS
- CAPACTY

---

A7004701    A7004701

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD. The IPL failed.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- CAPACTY

---

A7004703    A7004703

**Explanation:** Platform LIC failure

**Response:** A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on

Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

**Failing Item:**

- LICCODE

---

A7004704    A7004704

**Explanation:** Platform LIC detected an error

**Response:** The Capacity on Demand function is no longer available. If Capacity on Demand functions are required, look for and correct errors with SRCs of the form B1xxxxxx in the Serviceable Event View. If that does not correct the problem, or no errors were found, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

A7004705    A7004705

**Explanation:** Platform LIC failure

**Response:** A problem occurred when initializing, reading, or using system VPD. The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

A7004710    A7004710

**Explanation:** Platform LIC detected an error

**Response:** A communications problem with the service processor occurred while initiating Capacity on Demand. The Capacity on Demand function is not available.

If Capacity on Demand function is required, look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors. If that does not correct the problem, proceed with the failing items listed in the serviceable event view for this SRC.

**Failing Item:**

- SVCDOCS
- CAPACTY

---

A7004712    A7004712

**Explanation:** Platform LIC detected the VPD card is missing

**Response:** A problem occurred when initializing, reading, or using system VPD.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented

here to determine the parts to exchange.

**Failing Item:**

- CAPACTY

A7004713    A7004713

**Explanation:** Platform LIC detected an error

**Response:** The VPD card has been exchanged with a not valid card. Reinstall the original VPD card in the system.

**Failing Item:**

- SVCDOCS

A7004714    A7004714

**Explanation:** Platform LIC has detected a new VPD card

**Response:** The new VPD card requires new activation codes. Enter the new activation codes.

A7004715    A7004715

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when initializing, reading, or using system VPD during concurrent maintenance.

Look for errors with SRCs of the form B1xxxxxx in the Serviceable Event View. Work those errors first. If that does not correct the problem, replace the VPD card.

Work with the FRU list in the serviceable event view if there is one, otherwise use the FRU list documented here to determine the parts to exchange.

**Failing Item:**

- SVCDOCS
- CAPACTY

A7004716    A7004716

**Explanation:** User intervention required

**Response:** The Capacity on Demand activation code recovery period has been started. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS
- LPARCFG

A7004721    A7004721

**Explanation:** The World Wide Port Name (WWPN) Prefix is not valid.

**Response:** Contact your hardware service provider to obtain a valid World-Wide Port Name (WWPN). Once

you have obtained a valid WWPN value, go to ASM and select: System\_Configuration-> Program\_Vital\_Product\_Data-> System\_Keywords. On the System\_Keyword menu, enter the value for the 'WN' keyword.

**Failing Item:**

- SVCDOCS

A7004730    A7004730

**Explanation:** Platform LIC detected an error

**Response:** A problem occurred when configuring the logical partitions on the system. More resources were allocated than there are available for use. Either obtain more capacity by obtaining new activation codes or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS
- LPARCFG

A7004731    A7004731

**Explanation:** Platform LIC detected an error

**Response:** The system has been running with full Capacity on Demand resources activated. In one hour, the system will terminate and unlicensed resources will no longer be available. To prevent the system from terminating, enter an activation code of all zeroes. Then obtain the proper activation codes for the resources being used or allocate fewer resources in the LPAR configuration.

**Failing Item:**

- SVCDOCS

A7004733    A7004733

**Explanation:** Platform LIC failure

**Response:** The Capacity on Demand function is not available. If Capacity on Demand function is required, re-IPL the system. If that does not correct the problem, contact your next level of support.

A7004740    A7004740

**Explanation:** Platform LIC detected an error

**Response:** An incorrect activation code has been detected. Resources associated with this activation code have been disabled. Enter a valid activation code.

A7004741    A7004741

**Explanation:** Platform LIC detected an error

**Response:** The number of allowable attempts to enter a valid activation code has been exceeded. The system will continue to run, but a system IPL is required in

## A7004742 • A70047CD

order to retry entering a valid activation code.

---

A7004742    A7004742

**Explanation:** Platform LIC detected an error

**Response:** A communications problem with the service processor occurred. No Capacity on Demand changes can be made, but you can continue to run with the current Capacity on Demand resources.

Look for errors with SRCs of the form B1xxxxxx or B7xx69xx in the Serviceable Event View. Work those errors first. If that does not correct the problem, re-IPL the system. If that does not correct the problem, contact your next level of support.

**Failing Item:**

- SVCDOCS

---

A7004747    A7004747

**Explanation:** User intervention required

**Response:** One hour remains until the On/Off Capacity on Demand request expires. Permanently activate the temporary Capacity on Demand resources, enter a new On/Off Capacity on Demand request for the temporary resources, or remove all temporary resources from partitions before the request expires.

**Failing Item:**

- SVCDOCS

---

A7004748    A7004748

**Explanation:** User intervention required

**Response:** One hour remains until the Utility Capacity on Demand enablement expires. In order to reactivate temporary resources, a new Utility Capacity on Demand enablement code is required.

**Failing Item:**

- SVCDOCS

---

A7004749    A7004749

**Explanation:** User intervention required

**Response:** One hour remains until the Trial Customer on Demand activation expires. Obtain a permanent activation code or remove all temporary resources from partitions before the request expires.

**Failing Item:**

- SVCDOCS

---

A700474A    A700474A

**Explanation:** System has Active Memory Mirroring (AMM) ON, but is not licensed for AMM use

**Problem determination:** The FSP or HMC interfaces

have been used to set AMM to "ON" for the system. However, at IPL time, the system does not have a valid license for AMM. The customer needs to contact IBM or a Partner Sales representative to purchase and enter an Activation Code for this feature. If this is not possible, then turn off the system; use FSP or HMC interfaces to turn AMM "OFF"; and re-IPL.

**Failing Item:**

- SVCDOCS

---

A7004750    A7004750

**Explanation:** A Capacity on Demand change has been detected

**Response:** Utility Capacity on Demand resources have been activated.

---

A7004788    A7004788

**Explanation:** System log entry only, no service action required

**Response:** The data obtained from the system is not what was expected. The IPL will continue. Should other errors occur, contact your next level of support.

---

A70047C1    A70047C1

**Explanation:** Capacity on Demand data mismatch

**Response:** The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

---

A70047CB    A70047CB

**Explanation:** Fast system IPL changed to slow system IPL

**Response:** The data obtained from the system is not what was expected. The system will perform a slow IPL in order to obtain the correct data. If other errors occur, contact your next level of support.

---

A70047CD    A70047CD

**Explanation:** Platform LIC detected an error

**Response:** The server detected a not valid Capacity On Demand activation and terminated the system. The allocated resources for the system might exceed those that are available for use.

**Failing Item:**

- SVCDOCS

---

A70047FF A70047FF

**Explanation:** System log entry only, no service action required

**Response:** The Capacity on Demand History Log has been written to the error log. No service action is required.

---

A700C2AC A700C2AC

**Explanation:** System log entry only, no service action required

**Response:** The Capacity on Demand License acceptance has completed.

No corrective action is required.

**Failing Item:**

- SVCDOCS

---

A7013003 A7013003

**Explanation:** Partition-initiated PHYP-content RSCDUMP.

**Response:** No service action required.



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## (AAxx) Reference codes

Partition firmware posts AAxx system reference (attention) codes, which offer information about the next target state for the platform firmware. These codes might also indicate that you need to perform an action, such as opening a firmware console or checking serial connections.

**Note:** Click the failing item in the FRU list only when you experience a hang condition on an attention code. For example, a hang condition occurs when your server performs a requested action but the SRC in the control panel display does not change for several minutes and the partition firmware appears to be hung.

---

**AA00E158**    **AA00E158**

**Explanation:** Waiting for virtual terminal (VTERM) to be opened on the HMC.

**Explanation:** Admin access password prompt

**Failing Item:**

- FWPWD

---

**AA00E159**    **AA00E159**

**Explanation:** Waiting for serial connection to the service processor to be established

---

**AA060007**    **AA060007**

**Explanation:** A keyboard was not found

---

**AA00E175**    **AA00E175**

**Explanation:** The I/O configuration exceeds the recommended size. Some operating systems might crash when using this configuration.

---

**AA06000B**    **AA06000B**

**Explanation:** The system or partition was not able to find an operating system on any of the devices in the boot list.

**Failing Item:**

- FWFLASH

---

**AA06000C**    **AA06000C**

**Explanation:** The media specified in a device in the bootlist was not bootable

---

**AA00E1A8**    **AA00E1A8**

**Explanation:** The system is booting to the open firmware prompt

---

**AA06000D**    **AA06000D**

**Explanation:** The media in the device in the bootlist not found under the I/O adapter specified by the boot list.

**Failing Item:**

- FWFLASH

---

**AA06000E**    **AA06000E**

**Explanation:** The adapter specified in the boot list is not present or not functioning.

---

**AA00E1A9**    **AA00E1A9**

**Explanation:** The system is booting to the SMS menus

**Failing Item:**

- FWFLASH

---

**AA060010**    **AA060010**

**Explanation:** The FAT filesystem on the bootdisk is configured in a way that may cause a boot failure.

---

**AA00E1B0**    **AA00E1B0**

**Explanation:** Waiting for the user to select language and keyboard.

---

**AA060011**    **AA060011**

**Explanation:** The firmware did not find the operating system image and is was unable to detect at least one hard disk in the boot list. Firmware is now retrying the entries in the boot list. This often occurs when the boot disk enclosure is not yet fully initialized or if the boot disk belongs to a server partition.

---

**AA00E1B1**    **AA00E1B1**

**Explanation:** Waiting for the user to accept or decline the license agreement.

**Problem determination:** This error might occur before

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**AA00E1F3**    **AA00E1F3**

## AA100001 • AA260005

the initialization of an enclosure that contains the boot disk is complete or when the boot disk belongs to another partition.

If this problem persists, do the following:

1. Verify that the boot disk belongs to the partition that is being booted.
2. Verify that the boot list in the SMS menus is correct.

---

### AA100001 AA100001

**Explanation:** The hypervisor failed to send an LP event to the partition firmware.

---

### AA100002 AA100002

**Explanation:** A bad return code was received when the LP event acknowledgement was received from the hypervisor.

---

### AA130013 AA130013

**Explanation:** Bootable media is missing from a USB-attached CD-ROM.

---

### AA130014 AA130014

**Explanation:** The media in the USB CD-ROM drive has been changed.

---

### AA170210 AA170210

**Explanation:** Setenv/\$setenv parameter error - the name contains a null character.

**Failing Item:**

- FWFLASH

---

### AA170211 AA170211

**Explanation:** Setenv/\$Setenv parameter error - value contains a null character

**Failing Item:**

- FWFLASH

---

### AA170212 AA170212

**Explanation:** Setenv/\$Setenv parameter error: name is null or too long. The name length is limited to 31 characters.

**Failing Item:**

- FWFLASH

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### AA190001 AA190001

**Explanation:** The server firmware function to get and set the time-of-day reported an error.

---

### AA260001 AA260001

**Explanation:** The firmware is waiting for someone to enter the machine type, model, and serial number.

---

### AA260002 AA260002

**Explanation:** The system is waiting for the serial number to be entered.

**Response:** Enter the serial number of the system at the prompt

---

### AA260003 AA260003

**Explanation:** The system is waiting for the system unique ID number to be entered.

**Response:** Enter the system unique ID number at the prompt.

---

### AA260004 AA260004

**Explanation:** The system is waiting for the worldwide port number to be entered.

**Response:** Enter the worldwide port number at the prompt.

---

### AA260005 AA260005

**Explanation:** The system is waiting for the brand number to be entered.

**Response:** Enter the brand number at the prompt.



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European Community contact:  
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Technical Regulations, Department M456  
IBM-Allee 1, 71139 Ehningen, Germany  
Tele: +49 7032 15-2937  
email: tjahn@de.ibm.com

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VCCI-A

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Declaration: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may need to perform practical action.

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### IBM Taiwan Contact Information:

台灣IBM 產品服務聯絡方式：  
台灣國際商業機器股份有限公司  
台北市松仁路7號3樓  
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International Business Machines Corp.  
New Orchard Road  
Armonk, New York 10504  
Tel: 914-499-1900

Der verantwortliche Ansprechpartner des Herstellers in der EU ist:  
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Technical Regulations, Abteilung M456  
IBM-Allee 1, 71139 Ehningen, Germany  
Tel: +49 7032 15-2937  
email: tjahn@de.ibm.com

Generelle Informationen:

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM-authorized dealer or service representative for help.

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高調波ガイドライン準用品

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Tel: 914-499-1900

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