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Mobile IP
Common Desktop Environment
CDE Image Viewer
Sun Java System Calendar Server Client Applet
DARPA Trivial Name Server
I2O Intelligent I/O
GNOME Viewer for PDF and PostScript Files
The Graphical Smartcard Admin Interface
iButton Smartcard
Cyberflex Smartcard
PAM Smartcard
OCF/SCF Smartcard Framework
SCF Smartcard APIs
Remote Program Load Server Functionality
Transition From ipge to e1000g NIC Driver as the Default Ethernet Driver for Sun4V Systems
Solstice Enterprise Agents Support
Mozilla 1.X Support
Standard Type Services Framework Support
SPARC: ifca Driver Support
zic -s Option Support
Removable Volume Management Support
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Preface

This document describes the Solaris 10 7/07 HW operating system. For information about the Solaris 10 3/05, Solaris 10 3/05 HW1, Solaris 10 3/05 HW2, Solaris 10 1/06, Solaris 10 6/06, and Solaris 10 11/06, see the “Solaris 10 Release Notes”, Sun part number 819–7324–13.

The Solaris 10 7/07 HW Release Notes contain installation and runtime problem details. Also included are end-of-software support statements for the Solaris™ 10 Operating System.

Note – This Solaris release supports systems that use the SPARC® and x86 families of processor architectures: UltraSPARC®, SPARC64, AMD64, Pentium, and Xeon EM64T. The supported systems appear in the Solaris 10 Hardware Compatibility List at http://www.sun.com/bigadmin/hcl. This document cites any implementation differences between the platform types.

In this document the term “x86” refers to 64-bit and 32-bit systems manufactured using processors compatible with the AMD64 or Intel Xeon/Pentium product families. For supported systems, see the Solaris 10 Hardware Compatibility List.

Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris 10 software.

Related Books

You might need to refer to the following documentation when you install Solaris software:

- Java Desktop System Release 3 Solaris 10 Collection
- Solaris 10 Start Here card
- Solaris 10 Installation Guide: Basic
- Solaris 10 Installation Guide: Network-Based Installations
- Solaris 10 Installation Guide: Solaris Live Upgrade and Upgrade Planning
- Solaris 10 Installation Guide: Advanced, JumpStart, Solaris Flash Archives and RAID-1 Volumes
Solaris 10 System Administrator Collection

For information on current CERT advisories, see the official CERT web site at http://www.cert.org.

For some hardware configurations, you might need supplemental hardware-specific instructions for installing the Solaris software. If your system requires hardware-specific actions at certain points, the manufacturer of your hardware has provided supplemental Solaris installation documentation. Refer to those materials, such as Solaris Sun Hardware Platform Guide, for hardware-specific installation instructions.

Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

Note – Sun is not responsible for the availability of third-party web sites mentioned in this document. Sun does not endorse and is not responsible or liable for any content, advertising, products, or other material on or available from such sites or resources. Sun will not be responsible or liable for any damage or loss caused or alleged to be caused by or in connection with use of or reliance on any such content, goods, or services that are available on or through any such sites or resources.

Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- Documentation (http://www.sun.com/documentation/)
- Support (http://www.sun.com/support/)
- Training (http://www.sun.com/training/)

Typographic Conventions

The following table describes the typographic conventions that are used in this book.
### TABLE P–1  Typographic Conventions

<table>
<thead>
<tr>
<th>Typeface</th>
<th>Meaning</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>AaBbCc123</td>
<td>The names of commands, files, and directories, and onscreen computer output</td>
<td>Edit your .login file. Use ls -a to list all files. machine_name% you have mail.</td>
</tr>
<tr>
<td>AaBbCc123</td>
<td>What you type, contrasted with onscreen computer output</td>
<td>machine_name% su</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Password:</td>
</tr>
<tr>
<td>aabbcc123</td>
<td>Placeholder: replace with a real name or value</td>
<td>The command to remove a file is rm filename.</td>
</tr>
<tr>
<td>AaBbCc123</td>
<td>Book titles, new terms, and terms to be emphasized</td>
<td>Read Chapter 6 in the User's Guide.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A cache is a copy that is stored locally.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Do not save the file.</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Note:</strong> Some emphasized items appear bold online.</td>
</tr>
</tbody>
</table>

### Shell Prompts in Command Examples

The following table shows the default UNIX® system prompt and superuser prompt for the C shell, Bourne shell, and Korn shell.

### TABLE P–2  Shell Prompts

<table>
<thead>
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<th>Shell</th>
<th>Prompt</th>
</tr>
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<tbody>
<tr>
<td>C shell</td>
<td>machine_name%</td>
</tr>
<tr>
<td>C shell for superuser</td>
<td>machine_name#</td>
</tr>
<tr>
<td>Bourne shell and Korn shell</td>
<td>$</td>
</tr>
<tr>
<td>Bourne shell and Korn shell for superuser</td>
<td>#</td>
</tr>
</tbody>
</table>
This chapter describes all issues that relate to the Solaris 10 7/07 HW Operating System.

**Solaris 10 7/07 HW Restrictions**

The Solaris 10 7/07 HW release has the following restrictions:

- The Solaris 10 7/07 HW release can only be installed on SPARC Enterprise M4000-M9000 Servers.
  
  For more information about the SPARC Enterprise M4000–M9000 Servers, see the following:
  
  - Sun SPARC Enterprise M4000/M5000 Servers Product Notes For XCP Version 1041
  - Sun SPARC Enterprise M8000/M9000 Servers Product Notes For XCP Version 1041

- The Solaris 10 7/07 HW release does not support upgrades from the previous Solaris 10 11/06 release. The Solaris 10 7/07 HW OS should be installed freshly.

- The Solaris 10 7/07 HW release does not support upgrades to any other Solaris releases. The other Solaris Operating Systems should be installed freshly.

- The Solaris 10 7/07 HW release cannot be patched. Bug fixes might be available in a future Solaris 10 release.

**Solaris 10 7/07 HW Bugs and Issues**

**I/O Performance Related Issues**

The following bugs result in a lower than expected I/O performance using HBAs and NICs on the SPARC Enterprise M4000-M9000 servers. The fixes to these bugs might be available in a future Solaris 10 release.
6562458
This bug impacts the following cards:
- X1027A – 10 GbE
- X4447A-Z — QGC

6552241
This bug impacts the following cards:
- SG-PCIE2FC-QF4
- SG-PCIE1FC-QF4

6530687
This bug impacts the following cards:
- SG-PCIE2FC-EM4
- SG-PCIE1FC-EM4
- SG-PCIE2FC-EM4
- SG-PCI1FC-EM4

Runtime Issues
The following bugs are runtime issues that are known to be problems. The fixes to these bugs might be available in a future Solaris 10 release.

6566788
The system does not panic on certain uncorrectable errors in the PCIe Root Complex.

6557854
The system cannot ascertain the physical slot number for PCIe External I/O Expansion Unit.

6557246
There might be potential panic with explicit drop policy.

6555985
There might be potential panic in the tun_wdata_v4() slowpath case when using per-port IPsec policy.
Fixed Bugs

The following bugs referenced in the Sun SPARC Enterprise M8000/M9000 Servers Product Notes and Sun SPARC Enterprise M4000/M5000 Servers Product Notes are fixed in the Solaris 10 7/07 HW release:

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Bug Number</th>
</tr>
</thead>
<tbody>
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<td>6485555</td>
<td>6530178</td>
</tr>
<tr>
<td>6495303</td>
<td>6534471</td>
</tr>
<tr>
<td>6498283</td>
<td>6536564</td>
</tr>
<tr>
<td>6508432</td>
<td>6539084</td>
</tr>
<tr>
<td>6510861</td>
<td>6542632</td>
</tr>
</tbody>
</table>
This chapter describes problems that relate to the installation of the Solaris 10 Operating System.

**Note** – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to Appendix A.

---

**General Information**

This section provides general information such as behavior changes in Solaris 10 OS.

**New Minimum Memory Requirement**

Beginning with the Solaris 10 7/07 HW release, all x86 based systems must now have at least 256 Mbytes of RAM to run the Solaris software.

**Support for Products Not Part of the Solaris OS**

Although the Solaris 10 software has been tested for compatibility with previous releases, some third-party applications might not be fully ABI compliant. Contact the supplier of these applications directly for information about compatibility.

Your system might run both a Solaris OS and other products that are not part of the Solaris software. These products might be supplied by either Sun or another company. If you upgrade this system to the Solaris 10 release, make sure that these other products are also supported on the Solaris 10 OS. Depending on the status of each of these products, you can perform one of the following options:
Before You Begin

- Verify that the existing version of the product is supported on the Solaris 10 software.
- Install a new version of the product that is supported on the Solaris 10 release. You might need to remove the previous version of the product prior to upgrading to the Solaris software. See the product documentation for more details.
- Remove the product prior to upgrading to the Solaris 10 software.

Installation Change for the Solaris Companion DVD

When you are installing the Solaris OS, the Companion DVD is not available to be installed with the Solaris installation program. Use the `pkgadd(1M)` command to install the Solaris Companion DVD. For detailed installation instructions, see the README file on the Companion DVD.

Correct Solaris Data Encryption Supplement Required for Use of Longer Key Lengths on Solaris 10 Updates

When you install the Solaris 10 7/07 HW release and you wish to access longer key lengths for use with data encryption, you must use the Solaris Data Encryption Supplement packages that corresponds to Solaris 10. The supplement is delivered in the SUNWcry and SUNWcryr packages that are available for download from:

http://www.sun.com/download/

To bring these packages up to the same patch level as your current update, you will have to install the appropriate patch:

- Patch ID 118562-05 or a later revision for SPARC based systems
- Patch ID 118563-04 or a later revision for x86 based systems

To determine your current patch level, use `showrev -p`. 
Additional Procedures Required When Installing Patches for Solaris 10 7/07 HW Release

The following patches are applied to resolve problems that were reported in CR 6277164 and CR 6214222:

- Patch ID 119366-05 for SPARC based systems
- Patch ID 119367-05 for x86 based systems

The sections that follow provide further steps that you must perform to completely resolve the reported problems.

Resolving Issues With the GNOME Display Manager (6277164)

Note – Perform this procedure before you use the GNOME Display Manager (GDM) as your login program, or if you have already enabled GDM as your login program. Otherwise, you can skip this procedure.

When applying the patch, load new values into the GDM configuration files. Then restart the GDM application.

1. To load the new values into the configuration file, choose one of the following options.
   - Copy the /etc/X11/gdm/factory-gdm.conf file to the /etc/X11/gdm/gdm.conf file. Perform this step if you have not made any modifications to the gdm.conf file. Then you can start the GDM application.
   - Manually merge the differences in the factory-gdm.conf file into the gdm.conf file. Perform this step if you have modified the gdm.conf file and want to retain your modifications.

When merging files, copy the values for the following commands from the factory-gdm.conf file to the gdm.conf file. These commands enable you to obtain the best OS performance.
   - RebootCommand
   - HaltCommand
   - SuspendCommand
   - DefaultPath
   - RootPath
   - GraphicalTheme

2. To restart GDM, perform the following steps:
   a. Become superuser.
   b. Issue the following command:
Sun Fire V250 Server Installation

The SUNW CXaall software metacluster must be installed on a Sun Fire V250 Server.

NFS Version 4 Introduces New Prompt at First System Boot

Solaris 10 OS uses NFS Version 4 (NFSv4) as the default distributed file system mechanism. In
NFSv4, file user and group attributes are exchanged as strings of the form “user@domain” and
“group@domain,” respectively.

The domain portion of the string should be common between client and server. This
information is automatically derived from the system’s name service domain name. However,
in certain cases, the derived domain might not match between client and server. This mismatch
might typically occur in environments where either of the following circumstances is true:

- The DNS TXT record is not used.
- Multiple administrative domain boundaries are crossed.

If domain information between client and server does not match, NFSv4-accessed files might
appear to be owned by “nobody.”

To ensure proper configuration, on the first system boot the system now prompts you for a
domain to use for NFSv4. Answer “no” to this prompt if one of the following configurations
describes your deployment:

- Your deployment utilizes the DNS TXT record to configure the NFSv4 domain.
- Your deployment has a single (flat) administrative domain.

Custom JumpStart and Advanced Installations

Environments that use the Custom JumpStart™ method to perform unattended system
installations require minimal tuning to suppress the first boot prompts.

A sample script, set_nfs4_domain, is provided in the Solaris 10 distribution media and is
located in the ${CDrom_mnt_pt}/Solaris_10/Misc/jumpstart_sample directory. A copy of
this script should be modified to set the NFS4_DOMAIN variable to site-specific needs and be
called from within JumpStart’s finish script. The target system’s NFSv4 domain is therefore
preconfigured as part of the JumpStart finish phase, and thus suppresses any first boot prompts.
Follow these steps to perform unattended installations:

1. Create a copy of the set\_nfs4\_domain script in the same directory as your JumpStart’s finish\_sh scripts.
2. Edit the script and set the NFS4\_DOMAIN variable to your specific needs.
3. Edit your finish\_sh script and append a call to set\_nfs4\_domain.
4. Perform the JumpStart installations as usual.

For further details, refer to the sysidconfig(1M), sysidtool(1M), nfsmapid(1M), and nfs(4) man pages. See also the System Administration Guide: Network Services.

**Default Size of /var File System Inadequate for Extra Value Products**

The default size of the /var file system might be insufficient for the Extra Value products in the following situations:

- If you install any of the Extra Value products that are provided on the Solaris 10 DVD or CDs
- If the /var file system is located on a separate slice

You must manually specify a larger slice size for the /var file system.

**Note** - If the /var file system is not on a separate slice or partition, this problem does not occur.

**Workaround:** Choose one of the following workarounds.

- If you are using the Solaris installation program GUI, follow these steps.
  1. Begin the installation.
  2. From Select Type of Install, select Custom Install.
     The Solaris installation program displays several screens that enable you to customize the software localizations, products, and disk layout that you want to install.
     The disk layout screen is displayed.
  4. Type /var in the File System column for a specific slice, then click Apply.
     The installation program suggests a default size for the /var file system.
  5. Edit the Size column entry for the /var file system to twice the disk space size.
     For example, if the installation program assigns 40 Mbytes of space, change the Size value to 80.
6. Complete the installation.
   - If you are using the Solaris installation program’s text installer, follow these steps.
     1. Begin the installation.
     2. From Select Type of Install, select Custom Install.
        The Solaris installation program displays several screens that enable you to customize
        the software localizations, products, and disk layout that you want to install.
        The disk layout screen is displayed.
     4. Type /var in the File System column for a specific slice.
        The installation program suggests a default size for the /var file system.
     5. Press F4_Customize to customize the size of the /var file system.
     6. Edit the Size column entry for the /var file system to twice the disk space size.
        For example, if the installation program assigns 40 Mbytes of space, change the Size
        value to 80.
     7. Complete the installation.
   - If you are using the custom JumpStart program, use the filesys profile keyword to set the
     size of the /var file system. The following example sets the size of the /var file system on
     slice 5 to 256 Mbytes.

     filesys c0t0d0s5 256 /var

**SPARC: Older Firmware Might Need Boot Flash PROM Update**

On SPARC based systems, Solaris 10 OS runs in 64-bit mode only. Some Sun4U™ systems
might need to be updated to a higher level of OpenBoot™ firmware in the flash PROM to run
the OS in 64-bit mode. The following systems might require a flash PROM update:

- Ultra™ 2
- Ultra 450 and Sun Enterprise™ 450
- Sun Enterprise 3000, 4000, 5000, and 6000 systems

The following table lists the UltraSPARC systems and the minimum firmware versions that are
required to run the 64-bit Solaris 10 OS. System type is the equivalent of the output of the uname
-i command. You can determine which firmware version you are running by using the
prtconf -V command.
TABLE 2-1  Minimum Firmware Versions Required to Run 64–Bit Solaris Software on UltraSPARC Systems

<table>
<thead>
<tr>
<th>System Type From <code>uname -i</code></th>
<th>Minimum Firmware Version From <code>prtconf -V</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNW,Ultra-2</td>
<td>3.11.2</td>
</tr>
<tr>
<td>SUNW,Ultra-4</td>
<td>3.7.107</td>
</tr>
<tr>
<td>SUNW,Ultra-Enterprise</td>
<td>3.2.16</td>
</tr>
</tbody>
</table>

**Note** – If a system is not listed in the previous table, the system does not need a flash PROM update.

See any edition of the Solaris 8 Sun Hardware Platform Guide at [http://docs.sun.com](http://docs.sun.com) for instructions to perform a flash PROM update.

**Solaris Management Console 2.1 Software Is Not Compatible With Solaris Management Console 1.0, 1.0.1, or 1.0.2 Software**

Solaris Management Console 2.1 software is not compatible with Solaris Management Console 1.0, 1.0.1, or 1.0.2 software. If you are upgrading to the Solaris 10 release, and you have Solaris Management Console 1.0, 1.0.1, or 1.0.2 software installed, you must first uninstall the Solaris Management Console software before you upgrade. Solaris Management Console software might exist on your system if you installed the SEAS 2.0 overbox, the SEAS 3.0 overbox, or the Solaris 8 Admin Pack.

**Workaround:** Choose one of the following workarounds:

- Before you upgrade, use the `/usr/bin/prodreg` command to perform a full uninstall of Solaris Management Console software.
- If you did not uninstall Solaris Management Console 1.0, 1.0.1, or 1.0.2 software before you upgraded to the Solaris 10 release, you must first remove all Solaris Management Console 1.0, 1.0.1, or 1.0.2 packages. Use the `pkgrm` command for package removal instead of the `prodreg` command. Carefully follow the order of package removal. Complete the following steps:
  1. Become superuser.
  2. Type the following command:

    ```bash
    # pkginfo | grep "Solaris Management Console"
    ```
If the description does not start with “Solaris Management Console 2.1,” the package names in the output identify a Solaris Management Console 1.0 package.

3. Use the **pkgrm** command to remove all instances of Solaris Management Console 1.0 packages in the following order:

   **Note** – Do not remove any package that has “Solaris Management Console 2.1” in its description. For example, SUNWmc . 2 might indicate Solaris Management Console 2.1 software.

   If the **pkginfo** output displays multiple versions of Solaris Management Console 1.0 packages, use the **pkgrm** command to remove both packages. Remove the original package. Then, remove the package that has been appended with a number. For example, if the SUNWmcman and SUNWmcman . 2 packages appear in the **pkginfo** output, first remove the SUNWmcman package and then remove the SUNWmcman . 2 package. Do not use the **prodreg** command.

```bash
# pkgrm SUNWmcman
# pkgrm SUNWmcapp
# pkgrm SUNWmcsvr# pkgrm SUNWmcsvu
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmcsws
```

4. In a terminal window, type the following command:

```bash
# rm -rf /var/sadm/pkg/SUNWmcapp
```

The Solaris Management Console 2.1 software should now function properly. For future maintenance, or if the Solaris Management Console 2.1 software does not function properly, remove the Solaris Management Console 2.1 software. Reinstall the software by completing the following steps:

1. Use the **pkgrm** command to remove all Solaris Management Console 2.1 packages and dependent packages in the following order:

   **Note** – If your installation has multiple instances of Solaris Management Console 2.1 packages, such as SUNWmc and SUNWmc . 2, first remove SUNWmc, and then SUNWmc . 2. Do not use the **prodreg** command.

```bash
# pkgrm SUNWpmgr
# pkgrm SUNWrmi
# pkgrm SUNWvmg
# pkgrm SUNWlhma
# pkgrm SUNWlvmr
```
2. Insert the Solaris 10 Software - 4 CD into your CD-ROM drive. Type the following in a terminal window:

```
# cd /cdrom/cdrom0/Solaris_10/Product
# pkgadd -d . SUNWmccom SUNWmcc SUNWmc SUNWwbmc SUNWmcex SUNWmcdev \
  SUNWmgapp SUNWmga SUNWdcclnt SUNWlvma SUNWlvmg SUNWpmgr \ 
  SUNWrmui
```

All previous Solaris Management Console versions are removed. The Solaris Management Console 2.1 software is now functional.

**Cannot Create a Solaris Flash Archive When Solaris Zones Are Installed (6246943)**

Starting with the current Solaris release, a Solaris Flash archive cannot be properly created when a non-global zone is installed. The Solaris Flash feature is not currently compatible with the Solaris containers (zones) feature.

Do not use the `flar create` command to create a Solaris Flash archive in these instances:

- In any non-global zone
- In the global zone if there are any non-global zones installed

If you create a Solaris Flash archive in such an instance, the resulting archive might not install properly when the archive is deployed.

**Workaround:** None.
Installation Bugs

The following bugs might occur during or after the installation of Solaris 10 OS.

**Symbolic Links to etc/default/kbd and etc/default/nfs Files are Missing (6547635)**

- For the Solaris OS, the keyboard layout information must be received during the installation either automatically from the keyboard hardware identification or from the user's preconfiguration. The keyboard layout information might not be received as the symbolic link to the file etc/default/kbd is missing. No error message is displayed.

  **Workaround:** If the keyboard layout information is not received during the installation, the sysidkbd tool prompts the keyboard layout list for configuration in the first boot.

- The NFSMAPID_DOMAIN domain name is commented out in the etc/default/nfs file. If you try to access files that are commented out, the file owner is displayed as nobody. See the following example:

  ```
  bash> cd /net/line2-wl100z/export/home/rw
  /net/line2-wl100z/export/home/rw
  bash> ls -lia
  total 1
  5824 drwxrwxrwx 2 nobody 512 Apr 19 15:50 ./
  5824 dr-xr-xr-x 2 root 2 Apr 19 16:08 ../
  5825 -rw-r--r-- 1 nobody 0 Apr 19 15:23 dingfile
  5827 -rw-r--r-- 1 nobody 0 Apr 19 15:50 line2-ultra45
  5826 -rw-r--r-- 1 nobody 0 Apr 19 15:26 line3-sb2k
  bash>
  ```

  No error message is displayed.

  **Workaround:** Edit the /etc/default/nfs file so that NFSMAPID_DOMAIN domain name has the correct value.

**The Linux Partition Does Not Display on the GRUB Menu After Installing the Solaris OS (6508647)**

If Linux is installed on your disk and you installed the Solaris OS on a separate partition, the Linux partition does not display on the GRUB menu. No error message is displayed.

**Workaround:** Edit the GRUB menu's menu.1st file to add Linux to the GRUB menu. Perform the following steps:

1. Boot the Solaris OS.
2. Edit the menu.lst file at /boot/grub/menu.lst. For more information, see the System Administration Guide: Basic Administration.

**SPARC: Installing a Solaris Flash Archive Causes Sun4v System to Hang (6411690)**

If you use the `flarcreate` command to create a Solaris Flash archive and use the `-L pax` option, the installation of the archive hangs on a Sun4v system. The archive failure occurs during the retrieval of the archive. This failure affects both the T1000 and T2000 models.

The following error message is displayed.

```
pci@7c0/pci@0: Device 1c Nothing there
pci@7c0/pci@0: Device 1d Nothing there
pci@7c0/pci@0: Device 1e Nothing there
pci@7c0/pci@0: Device 1f Nothing there
Probing I/O buses
Sun Fire T200, No Keyboard
```

Rebooting with command: boot
Boot device: disk  File and args:
FCode UFS Reader 1.12 00/07/17 15:48:16.
Loading: /platform/SUNW,Sun-Fire-T200/ufsboot
Loading: /platform/sun4v/ufsboot
ERROR: Last Trap: Memory Address not Aligned
[Exception handlers interrupted, please file a bug]
[type 'resume' to attempt a normal recovery]
{0} ok
(This hangs and will never complete)

**Workaround:** Create the archive by using the `cpio copy` option. The `cpio` option is the default. See the following example:

```
# flarcreate -n test.flar.sun4v.cpio -c
/net/server/export1/rw/test.flar.sun4v.cpio
```
Solaris Not Sending a PRLI to Tape Device (6379955)

Solaris OS is not sending Process Login (PRLI) data to the tape device during a path recovery sequence.

No error message is displayed to the user, but the problem can be identified from:
- Regular system log messages indicates a path issue, such as offline or online.
- Cfgadm -a1 command. This command shows the failed condition for the tape device.
- I/O to a tape device has ceased.

Workaround:

To recover from this situation, use the `luxadm forcelip` command to the FC host bus adapter. For example:

```
luxadm -e forcelip /dev/cfg/c99
```

c99 is the specific controller that is being used to communicate with the tape transport.

SPARC: Solaris 10 OS Installation Program Might Not Display Special Case Panels Properly (5002175)

If you install the Solaris 10 software by using the Solaris installation program, some of the information and exit panels for the Sun\textsuperscript{TM} Remote Services (SRS) Net Connect software might not display properly.

The installation panel frame and Cancel button are displayed, but the installation panel content is missing.

**Note** – This problem might also occur during a Solaris installation of other software products that are included in this Solaris OS release.

Workaround: Follow these steps:

1. Bypass the SRS Net Connect installation by clicking the Cancel button when the empty installation panel is displayed.
2. After the installation of the Solaris 10 software has completed, manually install the SRS Net Connect software from the Solaris 10 Operating System DVD or Solaris 10 Software - 2 CD.

Installing the SRS Net Connect software after the initial Solaris 10 software installation has completed ensures that all panels are displayed properly.
Warnings Might Occur When a File System Is Created (4189127)

When a file system is created during installation, one of the following warning messages might be displayed:

Warning: inode blocks/cyl group (87) >= data blocks (63) in last cylinder group. This implies 1008 sector(s) cannot be allocated.

Or:

Warning: 1 sector(s) in last cylinder unallocated

The warning occurs when the size of the file system that you created does not equal the space on the disk that is being used. This discrepancy can result in unused space on the disk that is not incorporated into the indicated file system. This unused space is not available for use by other file systems.

Workaround: Ignore the warning message.

Additional Installation Issues

This section describes issues that are related to the installation of the Solaris OS.

smosservice add Command Does Not Install Designated ARCH=all Packages (4871256)

The smosservice add command does not install any packages that are designated ARCH=all in the root (/) or /usr file systems. There is no error message indicating these packages were skipped. This problem exists in all Solaris OS versions, and applies to both SPARC® based and x86 based clients.

Note that the list of missing packages varies, depending on the Solaris release that you are running.

Workaround: Locate and install the missing ARCH=all packages.

For step-by-step instructions on locating and installing missing packages, see “How to Locate and Install Missing ARCH=all Packages” in System Administration Guide: Basic Administration.
StarOffice Patch Application Requires Additional Steps

The following patches are applied to the Solaris OS to resolve StarOffice™ problems that were reported in CR 6234855 and CR 6262830:

- For SPARC based systems
  - Patch ID 119412-06
  - Patch ID 119906-03
- For x86 based systems:
  - Patch ID 119413-06
  - Patch ID 119907-03

To completely resolve the reported problems, perform the following steps after applying the patches. These steps enable you to use StarOffice 7 Product 5 software to open, for example, those OpenDocument files that were created in StarOffice 8 software.

1. Become superuser.
2. Issue the following command:

   ```bash
   # update-mime-database /usr/share/mime
   ```
3. Log out of the system and then log in again.

StarOffice and StarSuite Software Cannot Coexist in the Same System

When you install Solaris 10 OS, either the StarOffice or the StarSuite™ software is also automatically installed, depending on which language you select. The languages and the corresponding software that these languages support are listed as follows:

<table>
<thead>
<tr>
<th>Selected Language</th>
<th>Supported Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chinese, Japanese, Korean</td>
<td>StarSuite</td>
</tr>
<tr>
<td>Other languages</td>
<td>StarOffice</td>
</tr>
</tbody>
</table>

StarOffice and StarSuite cannot coexist in the same system. If you want to replace a software that you accidentally installed, follow these steps.

1. Insert the Solaris 10 Software - 3 CD or Solaris 10 Operating System DVD in the drive.
2. Become superuser.
3. Change to the Product directory, for example, /cdrom/cdrom0/Solaris_10/Product.
4. Replace the software.
   - To replace StarOffice with StarSuite, use the following commands:
     
     ```
     # pkgrm SUNWsogm SUNWsom
     # pkgadd -d . SUNWsoagm SUNWsoam
     ```
   
   - To replace StarSuite with StarOffice, use the following commands:
     
     ```
     # pkgrm SUNWsoagm SUNWsom
     # pkgadd -d . SUNWsogm SUNWsom
     ```

### Cannot Install Documentation Packages With Names Longer Than Nine Characters on Documentation Servers Running Solaris 7 or Solaris 8 Software

Some localized documentation collections in PDF format have package names that are longer than nine characters. To install these PDF collections on servers that are running Solaris 7 or 8 software, you must first install two patches.

**Workaround:** For instructions on how to install these patches, see the Solaris Documentation Important Information file on Solaris 10 OS Documentation DVD. This file is located in the following directory:

```
mount-point/README/locale/install_locale.html
```

### Additional Related Locales Might Be Installed

When you select a locale for your installation, additional related locales might also be installed. This change in behavior occurs in the Solaris 10 release because all full locales, with message translations, and the Asian and Japanese partial locales, locale enabler, have been repackaged based on language support for locales. Other partial locales are still packaged and installed based on geographic region, such as Central Europe.
CHAPTER 3

Solaris Runtime Issues

This chapter describes runtime issues that are known to be problems.

Note – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to Appendix A.

Common Desktop Environment

The following bugs in Solaris 10 OS apply to the Common Desktop Environment (CDE).

Security Flaws in Firefox 2.0.0.1 (6526694)

The Firefox 2.0.0.1 web browser and derived products contain several flaws. Severe impacts of these flaws include enabling a remote attacker to execute arbitrary actions, or causing denial of service. For more information, see http://secunia.com/advisories/24205/. No error message is displayed.

Workaround: Upgrade to Firefox 2.0.0.3.

Printing From Some GNOME Applications Fail (6477108)

The name service switch enhancements feature causes the papiPrintersList() command to fail. This command is used by many GNOME applications to populate the print dialog with queue names.
No error message is displayed.

**Workaround:** None.

---

**strftime(3c) Should Support GNU Extension in `%m` And `%d` (6448815)**

The Java DS menu bar and some applications, like Evolution, incorrectly display Chinese date. The incorrect date is displayed in the `%m %d` format where M and D are the month and date in Chinese respectively.

**Workaround:** Perform the following steps:

3. Edit the file `gnome-panel.gnome-2-16.zh_CN.po` and replace all occurrences of `%m` with `%Om`, and `%d` with `%e`.
   ```bash
   msgfmt -v -o gnome-panel.gnome-2-16.zh_CN.mo /tmp/gnome-panel.gnome-2-16.zh_CN.po
   ```
5. Log out of the system and re-login.

---

**Nautilus ACL MASK is Not in Sync With Group Permissions (6464485)**

The Group permissions in the Permissions tab should be the same as the Mask permissions in the Access Tab, but on some occasions they appear out of sync.

**Workaround:** Click the Close button, and then click Reload. View the file properties again. The Group permissions and the Mask permissions will now be in sync again. The permissions are set to what you changed the Mask to in the previous step.
SMC CLI Commands Do Not Process the Solaris Trusted Extensions Options (6447833)

This bug affects management of Solaris™ Trusted Extensions by using the SMC. When the SMC command line with the -B toolbox option is used to pass in the Trusted Extensions options, the command is not executed. This failed execution prevents the use of the SMC CLI to manage Solaris Trusted Extensions. The following error message is displayed:

There was an unrecognized extended, nonstandard option specified with the -x option. Please refer to man pages for additional information and correct syntax usage

Workaround: Use the SMC GUI for administration of users, roles, and profiles.

Mouse Pointer and the dtfile Icon Are Not Displayed When You Drag the dtfile Icon (6462945)

When you drag the dtfile icon, the icon and the mouse pointer might not be displayed. No error message is displayed.

Workaround: Add the following lines to the /usr/dt/config/<locale>/sys.resources file, under #if EXT_SUN_TSO:

```bash
!! DragNDrop protocol. Other styles cause policy violation.
*DragInitiatorProtocolStyle: DRAG_DYNAMIC
*DragReceiverProtocolStyle: DRAG_DYNAMIC
```

SMC Updates the tnrhdb File But Does Not Run tnctl to Update the Trusted Host Cache (6471594)

When the SMC is used to manage network security templates, the /etc/security/tsol/tnrhdb file is updated but the tndb cache is not updated. Network security definitions do not take effect. No error message is displayed.

Workaround: After you modify a network entry in the SMC, manually refresh the tndb cache with one of the following commands:

- Modify an entry in the file scope:
  
  ```bash
  # /usr/sbin/tnctl -H /etc/security/tsol/tnrhdb
  ```

- Modify an entry in the LDAP scope:
  
  ```bash
  # /usr/sbin/tnctl -H <hostname>
  ```
Cannot Login Using GDM Unless Clearance is Set to admin_high (6432114)

The login fails when you log in to the Solaris Trusted Extensions Java Desktop Systems (Java DS) by using GDM. This failure is caused by the PAM configuration. The \texttt{pam.conf(4)} file does not contain the required entries for GDM.

On login, the following error message is displayed:

\texttt{The system administrator has disabled access to the system temporarily}

\textbf{Workaround:} Add the following two lines to the \texttt{/etc/pam.conf} file:

\begin{verbatim}
gdm account requisite pam_roles.so.1
gdm account required pam_unix_account.so.1
\end{verbatim}

For information about the file format, see the \texttt{pam.conf(4)} man page.

Trusted Stripe Disappears From The Screen After Resolution Change (6460624)

When you type the \texttt{/usr/X11/bin/xrander -s} command to set a smaller screen resolution, Trusted Stripe is no longer displayed. This affects the Trusted CDE Desktop but not the Trusted Java DS Desktop. No error message is displayed.

\textbf{Workaround:} After the resolution changes, restart the \texttt{Workspace Manager}. Select \texttt{windows -> Restart Workspace Manager} from the CDE workspace menu and click OK.

Secure Attention Key or Hot Key Does Not Work on x86 Systems (6486416)

The Secure Attention key or hot key, \texttt{Alt+Break}, on PC keyboards does not work on x86 systems. No error message is displayed.

\textbf{Workaround:} None.
Full-Screen Magnification and Keyboard Accessibility Features Not Working (6273030)

On your Java Desktop System software, you cannot set up the following:

- Full-screen magnification
- Keyboard accessibility features

**Workaround:** Perform the following steps:

1. Open the `/etc/X11/gdm/gdm.conf` file.
2. Depending on your system’s platform, perform the following:
   - On SPARC based systems:
     a. Look for the line in the file that begins as follows:

        ```
        command=/usr/openwin/bin/Xsun
        ```
     b. Append the following modification to the line:

        ```
        +kb +accessx -dev framebuffer1 -dev framebuffer2
        ```

        For example:

        ```
        +kb +accessx -dev /dev/fbs/pfb1 -dev /dev/fbs/pfb0
        ```
   - On x86 based systems:
     a. Look for the line in the file that begins as follows:

        ```
        command=/usr/X11R6/bin/Xorg
        ```
     b. Append the following modification to the line:

        ```
        +kb +accessx
        ```

CDE Removable Media Auto Run Capability Removed (4634260)

The Removable Media auto run capability in the CDE desktop environment has been temporarily removed from the Solaris 10 software.

**Workaround:** To use the auto run function for a CD-ROM or another removable media volume, you must do one of the following:

- Run the `volstart` program from the top level of the removable media file system.
- Follow the instructions that are included with the CD for access from outside of CDE.
**Solaris PDASync Cannot Delete Last Entry From the Desktop (4260435)**

After you delete the last item from the desktop, the item is restored from the handheld device to the desktop when you synchronize your handheld device. Examples of items that you might delete, and then have restored, are the last appointment in your Calendar or the last address in the Address Manager.

**Workaround:** Manually delete the last entry from the handheld device prior to synchronization.

---

**Documentation DVD**

The following Documentation DVD bugs apply to the Solaris 10 release.

**SUNWsdocs Package Needed to Remove Other Documentation Packages**

If you remove the **SUNWsdocs** package, then try to remove other documentation packages, the removal fails. This problem occurs because the **SUNWsdocs** package is installed with any collection and provides the browser entry point.

**Workaround:** If you removed the **SUNWsdocs** package, reinstall the **SUNWsdocs** package from the documentation media and then remove the other documentation packages.

---

**European Locale PDF Documents Available Only Through C Locale (4674475)**

On systems that are running the current Solaris 10 release, PDF documents on the Solaris 10 Documentation DVD are not accessible in the following European locales:

- de (German)
- es (Spanish)
- fr (French)
- it (Italian)
- sv (Swedish)

**Workaround:** Choose one of the following workarounds.

- On x86 based platforms, set the environment variable `LC_ALL` to `C acroread`. For example, in the C shell, type the following command in a terminal window:
On SPARC based systems, upgrade to Adobe Acrobat Reader 5.0 or a later version.

File Systems

The following file system bugs apply to the Solaris 10 release.

zoneadm install Fails With a ZFS Legacy Mount (6449301)

If a non-global zone is initially configured with a ZFS file system to be mounted with the `add fs subcommand and specifies mountpoint=legacy, the subsequent zone installation fails. The following error message is displayed.

```
ERROR: No such file or directory:
cannot mount </zones/path/root/usr/local> in non-global zone to install:
the source block device or directory </path/local> cannot be accessed
```

Workaround: Add access to a ZFS file system after installing the non-global zone.

zpool Scrubbing Leads to Memory Exhaustion and a System Hang (6456888)

A zpool scrub or resilver operation of large amounts of data might lead to a system hang or panic. No error message is displayed.

Workaround: If the system hangs or panics, perform the following steps:
1. Reboot the system.
2. Continue the resilver or scrub operation.
3. Do not stress the system with additional load until the resilver or scrub operation completes.

ZFS and UNIX/POSIX Compliance Issues

ZFS is designed to be a POSIX compliant file system and in most situations, ZFS is POSIX compliant. However, two edge case conditions exist when ZFS does not meet the POSIX compliance tests:
1. Updating ZFS files system capacity statistics.
2. Modifying existing data with a 100 percent full file system.

Related CRs:
- 6362314
- 6362156
- 6361650
- 6343113
- 6343039

Adding ZFS Patch to a Solaris 10 7/07 HW System Causes Spurious Warning Messages (6429860)

Adding ZFS patches to a Solaris 10 7/07 HW system causes spurious warning messages from the patchadd command because the ZFS packages are being added to the system for the first time. The following error message is displayed:

The following requested patches have packages not installed on the system:
   Package SUNWzfskr from directory SUNWzfskr in patch 122641-03
   is not installed on the system.

Changes for package SUNWzfskr will not be applied to the system.

Workaround:
Ignore the spurious messages from the patchadd command.

`fdisk -E` Can Sweep Disk Used by ZFS Without Warning (6412771)

If you use the `fdisk -E` command to modify a disk that is used by a ZFS storage pool, the pool becomes unusable and might cause an I/O failure or system panic.

Workaround:
Do not use the `fdisk` command to modify a disk that is used by a ZFS storage pool. If you need to access a disk that is used by a ZFS storage pool, use the `format` utility. In general, disks that are in use by file systems should not be modified.

ZFS and Third-Party Backup Product Issues

The following are the issues with the Veritas NetBackup and Brightstor ARCserve Backup products.
Veritas NetBackup Does Not Back Up and Preserve Files With ZFS/NFSv4 ACLs (6352899)

The Veritas NetBackup product can be used to back up ZFS files, and this configuration is supported. However, this product does not currently support backing up or restoring NFSv4-style ACL information from ZFS files. Traditional permission bits and other file attributes are correctly backed up and restored.

If a user tries to back up or restore ZFS files, the NFSv4-style ACL information from ZFS files is silently dropped. There is no error message indicating that the ACL information from ZFS files has been dropped.

Support for ZFS/NFSv4 ACLs is under development and is expected to be available in the next Veritas NetBackup release.

Workaround 1:

As of the Solaris 10 7/07 HW release, both the tar and cpio commands correctly handle ZFS files with NFSv4-style ACLs.

Use the tar command with the -p option or the cpio command with the -P option to write the ZFS files to a file. Then, use the Veritas NetBackup to back up the tar or cpio archive.

Workaround 2:

As an alternative to using Veritas NetBackup, use the ZFS send and receive commands to back up ZFS files. These commands correctly handle all attributes of ZFS files.

BrightStor ARCserve Backup Client Agent for UNIX (Solaris) and ZFS Support

The BrightStor ARCserve Backup (BAB) Client Agent for UNIX (Solaris) can be used to backup and restore ZFS files.

However, ZFS NFSv4-style ACLs are not preserved during backup. Traditional UNIX file permissions and attributes are preserved.

Workaround: If you want to preserve ZFS files with NFSv4-style ACLs, use the tar command with the -p option or the cpio command with the -P option to write the ZFS files to a file. Then, use BAB to backup the tar or cpio archive.

ZFS GUI Should Check For /usr/lib/embedded_su at the Beginning of Each Wizard (6326334)

If you add the SUNWzfsg package from a Solaris 10 7/07 HW release to a system that runs a pre-Solaris 10 6/06 release, which does not have the embedded_su patch, the ZFS Administration application wizards are not fully functional.
If you attempt to run the ZFS Administration application on a system without the `embedded_su` patch, you will only be able to browse your ZFS configuration. The following error message is displayed:

```
/usr/lib/embedded_su: not found
```

**Workaround:**

Add the `embedded_su` patch (119574-02) to the system that runs a pre-Solaris 10 6/06 release.

---

**Fails to Sync File System on Panic (6250422)**

If a host panics with file system I/O occurring to a target, which is connected by using the Solaris iSCSI software initiator, the I/O might not be able to flush or sync to the target device. This inability to flush or sync might cause file system corruption. No error message is displayed.

**Workaround:**

Use the journaling file system like UFS. Starting with Solaris 10, UFS logging is enabled by default. For more information about UFS, see “What’s New in File Systems?” in *System Administration Guide: Devices and File Systems*.

---

**NFSv4 Access Control List Functions Might Work Incorrectly**

NFSv4 Access Control List (ACL) functions might work improperly if clients and servers in the network are installed with different previous Solaris 10 releases. The affected ACL functions and command-line utilities that use these functions are the following:

- `acl()`
- `facl()`
- `getfacl`
- `setfacl`

For more information about these functions and utilities, see their respective man pages.

For example, errors might be observed in a network that includes the following configuration:

- A client that is running Solaris 10 Beta software
- A server that is running Solaris 10 software

The following table illustrates the results of the ACL functions in client-server configurations with different Solaris 10 releases.
<table>
<thead>
<tr>
<th>Operation</th>
<th>Client S10 OS</th>
<th>Server S10 OS</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>get ACL</td>
<td>S10 Beta</td>
<td>S10 OS</td>
<td>fabricated ACL*</td>
</tr>
<tr>
<td>get ACL</td>
<td>S10 OS</td>
<td>S10 Beta</td>
<td>works ok</td>
</tr>
<tr>
<td>set ACL</td>
<td>S10 Beta</td>
<td>S10 OS</td>
<td>works ok</td>
</tr>
<tr>
<td>set ACL</td>
<td>S10 OS</td>
<td>S10 Beta</td>
<td>Error: EOPNOTSUP</td>
</tr>
</tbody>
</table>

**Workaround:** For the NFSv4 ACL functionality to work properly, perform a full installation of the Solaris 10 OS on both the server and the client.

### Access Problems Between Solaris NFSv4 Clients and NFSv4 Servers

In the current Solaris 10 version, Solaris implementation of NFSv4 Access Control Lists (ACL) is now compliant with RFC 3530 specifications. However, errors occur for NFSv4 clients that use the Solaris 10 Beta 2 or Beta 1 versions. These clients cannot create files in the NFSv4 servers that are using the current Solaris 10 release. The following error message is displayed:

```
NFS getacl failed for server_name: error 9 (RPC: Program/version mismatch)
```

**Workaround:** None.

### Using `mkfs` Command to Create File System Might Fail on Very Large Disks (6352813)

The `mkfs` command might be unable to create a file system on disks with a certain disk geometry and whose sizes are greater than 8 Gbytes. The derived cylinder group size is too large for the 1-Kbyte fragment. The large size of the cylinder group means that the excess metadata cannot be accommodated in a block.

The following error message is displayed:

```
With 15625 sectors per cylinder, minimum cylinders per group is 16. This requires the fragment size to be changed from 1024 to 4096. Please re-run mkfs with corrected parameters.
```

**Workaround:** Use the `newfs` command instead. Or, assign a larger fragment size, such as 4096, when you use the `mkfs` command.
**File System Creation Might Fail on Small Slices (6346510)**

Creating a UFS file system with the `newfs` command might fail under the following conditions:

- The size of the slice is small, approximately less than 4 Mbytes.
- The size of the disk exceeds 8 Gbytes.

The error is caused by the large-size requirement of the file system for metadata. The following warning message is displayed:

```
Warning: inode blocks/cyl group (295) >= data blocks (294) in last
cylinder group. This implies 4712 sector(s) cannot be allocated.
/dev/rdsk/c0t0d0s6: 0 sectors in 0 cylinders of 48 tracks, 128 sectors
0.0MB in 0 cyl groups (13 c/g, 39.00MB/g, 18624 i/g)
super-block backups (for fsck -F ufs -o b=#) at:
#
```

**Workaround:** As superuser, perform one of the following workarounds:

- **Workaround 1:** Specify the number of tracks when you use the `newfs` command. Follow these steps.
  1. Use the format command to find out the number of tracks to assign. For example:

    ```
    # format
    Searching for disks...done
    AVAILABLE DISK SELECTIONS:
      0. c0t0d0 <SUN18G cyl 7506 alt 2 hd 19 sec 248>
      /pci@1f,4000/scsi@3/sd@0,0
    Specify disk (enter its number):
    In the example, the number of tracks is 19.
    2. Assign the number to the file system that you create with the `newfs` command. For example:

    ```
    # newfs -v -t 19 /dev/dsk/c0t0d0s6
    newfs: construct a new file system /dev/rdsk/c0t0d0s6: (y/n)? y
    mkfs -F ufs /dev/rdsk/c0t0d0s6 4712 -1 19 8192 1024 16 10 167 2048
    t 0 -1 8 128 n
    mkfs: bad value for nsect: -1 must be between 1 and 32768
    mkfs: nsect reset to default 32
    Warning: 152 sector(s) in last cylinder unallocated
    /dev/rdsk/c0t0d0s6: 4712 sectors in 8 cylinders of 19 tracks,
    32 sectors
    2.3MB in 1 cyl groups (16 c/g, 4.75MB/g, 2304 i/g)
    ```
super-block backups (for fsck -F ufs -o b=#) at: 32,
#

- **Workaround 2:** Specify the number of bytes per inode (nbpi) in the `newfs` command to reduce the inode density in the file system. For example:

```bash
# newfs -i 4096 /dev/dsk/c0t0d0s6
newfs: construct a new file system /dev/rdsk/c0t0d0s6: (y/n)? y
Warning: 1432 sector(s) in last cylinder unallocated
/dev/rdsk/c0t0d0s6: 4712 sectors in 1 cylinders of 48 tracks,
128 sectors
 2.3MB in 1 cyl groups (16 c/g, 48.00MB/g, 11648 i/g)
super-block backups (for fsck -F ufs -o b=#) at:
 32,
#
```

### System Crash Dump Fails on Devices Greater Than 1 TByte (6214480)

The system cannot generate a dump on a partition that is equal to or greater than 1 Tbyte in size. If such a device is on a system, the following might occur after the system boots subsequent to a system panic:

- The system does not save the dump.
- The following message is displayed:

  0% done: 0 pages dumped, compression ratio 0.00, dump failed: error 6

**Workaround:** Configure the size of your system’s dump device to less than 1 Tbyte.

### Using `smosservice` Command to Add OS Services Results in Insufficient Disk Space Message (5073840)

If you use the `smosservice` command to add OS services to a UFS file system, a message that there is insufficient disk space available is displayed. This error is specific to UFS file systems on EFI-labeled disks.

**Workaround:** Complete the following workaround.

1. Apply the SMI VTOC disk label.
2. Re-create the file system.
3. Rerun the `smosservice` command.
Hardware–Related Issue and Bugs

The following hardware–related issue and bugs apply to the Solaris 10 release.

**The (ZFS) ARC Allocates Memory Inside The Kernel Cage Preventing DR (6522017)**

ZFS can potentially allocate kernel memory across all system boards on systems with very large memory configurations. One free system board is required for dynamic memory reconfiguration so that the memory from the board to be dynamically reconfigured can be copied to the free board. The dynamic memory reconfiguration means that you cannot dynamically reconfigure memory on systems with very large memory configurations that have ZFS running. High-end SunFire™ servers can relocate kernel pages so that this issue is avoided. These servers must have kernel page relocation (KPR) enabled for domains with more than 32 cores. No error message is displayed

**Workaround:** Reduce the amount of kernel memory that ZFS can allocate by setting the zfs_arc_max parameter in the /etc/system file. The following example sets the maximum size to 512 Mbytes.

```
set zfs_arc_max = 0x20000000
```

**SPARC: DR: cfgadm -c configure Command Fails on Slot of Starcat and Silverstone (6452077)**

This bug affects all existing PCI platforms with hot-pluggable slots when the customer tries to hot-plug and configure a card making a 64-bit MEM request, for example, the Crystal 2R Fibre Channel card.

No error message is displayed. However, the configuration fails and the card is not usable.

**Workaround:** None. Reboot the system with the card inserted in the slot, and the card is configured and ready for operation.

**mpathadm Does Not Display Load-Balance Setting Specific to Device**

The mpathadm show logical-unit subcommand lists the load balancing global configuration value for the Current Load Balance property. However, entries in the csi_vhci.conf that change the load-balance type for a specific product are not reflected in the mpathadm output even when the setting is active.
Registration Tool Prevents Power Management on Some Framebuffers (6321362)

If the background processes for the registration tool are left running, the Elite3D and Creator3D framebuffers stop power management. This failure reduces the power savings when the system is in a power-managed state. Under certain conditions, sys-suspend might also hang. No error message is displayed. The system might hang during a system suspend or resume operation.

Workaround:

Run the following command approximately 60 seconds after each login:

```bash
# pkill -f basicreg.jar
# pkill -f swupna.jar
```

SPARC: Sun Crypto Accelerator 4000 Board Versions 1.0 and 1.1 Not Supported in Solaris 10 OS

A new cryptographic framework is provided in Solaris 10 OS. However, versions 1.0 and 1.1 of the Sun Crypto Accelerator 4000 board’s software and firmware do not utilize this framework. Consequently, these versions are not supported in the Solaris 10 OS.

The 2.0 release uses the new framework. This release is available as a free upgrade to current Sun Crypto Accelerator 4000 users who plan to use Solaris 10 OS. Because the Sun Crypto Accelerator 4000 is an export-controlled product, you must contact Sun Enterprise Services or your local sales channel to obtain the free upgrade. Additional information is available on the Sun Crypto Accelerator 4000 web page at Sun’s products site.

Certain USB 2.0 Controllers Are Disabled

Support for certain USB 2.0 controllers has been disabled because of incompatibilities between these devices and the EHCI driver. The following message is displayed:

Due to recently discovered incompatibilities with this USB controller, USB2.x transfer support has been disabled. This device will continue to function as a USB1.x controller. If you are interested in enabling USB2.x support please refer to the ehci(7D) man page. Please refer to www.sun.com/io for Solaris Ready products and to www.sun.com/bigadmin/hcl for additional compatible USB products.
Supported USB Devices and Corresponding Hub Configurations

This Solaris release supports both USB 1.1 and USB 2.0 devices. The following table is a summary of USB devices that work in specific configurations. Connection types can either be direct to the computer or through a USB hub. Note that USB 1.1 devices and hubs are low speed or full speed. USB 2.0 devices and hubs are high speed. For details about ports and speeds of operation, see the System Administration Guide: Devices and File Systems.

<table>
<thead>
<tr>
<th>USB Devices</th>
<th>Connection Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>USB 2.0 storage devices</td>
<td>Direct, USB 1.1 hub, USB 2.0 hub</td>
</tr>
<tr>
<td>USB 1.1 devices except audio</td>
<td>Direct, USB 1.1 hub, USB 2.0 hub</td>
</tr>
<tr>
<td>USB 1.1 audio devices</td>
<td>Direct, USB 1.1 hub</td>
</tr>
<tr>
<td>USB 2.0 audio devices</td>
<td>Not supported</td>
</tr>
</tbody>
</table>

DVD-ROM/CD-ROM Drives on Headless Systems

Power management of interactive devices such as removable media is linked with power management of your monitor and the graphics card that drives your monitor. If your screen is active, devices such as the CD-ROM drive and diskette remain at full-power mode. These devices might switch to low-power mode on a system without a monitor. To restore power to the CD or diskette, type `volcheck` to obtain the latest status from each removable device.

Alternatively, you can disable power management on your system by using the Dtpower GUI. By disabling power management, these devices are constantly at full power.

SPARC: Power Management in Sun Expert3D and Sun Elite3D Hardware Not Working Under Certain Circumstances (6321362)

Sun Expert3D or Sun Elite3D cards in Sun Blade™ 1000 or Sun Blade 2000 workstations normally switch to low-power mode after an idle period. However, if these cards are set as the primary head in the Xserver, power management does not work. The affected cards remain at full power and no power savings are realized. No error message is displayed.
Workaround: None.

**SPARC: jfca Driver for Certain Host Bus Adapters That Are Connected to Tape Devices Might Cause Errors (6210240)**

The jfca driver for the following host bus adapters (HBAs) might cause system panics or I/O failures when these HBAs are connected to tape devices:

- SG-PCI1FC-JF2
- SG-PCI2FC-JF2

The jfca driver for these HBAs is prone to race conditions when certain operations are being run, and thus causes the errors. The operations are the following:

- Link reset
- Loop reset
- Switch reset
- Repeated link failures

Error messages similar to the following examples might be displayed:

- I/O failure messages

  jfca: [ID 277337 kern.info] jfca4: Sequencer-detected error. Recover immediately.
  last message repeated 18376 times
  scsi: [ID 107833 kern.warning] WARNING: /pci@1e,600000/SUNW,jfca@3,1/fp@0,0/st@w2100001086108628,1 (st3):
  SCSI transport failed: reason 'timeout': giving up

- System panic message

  panic[cpu1]/thread=2a100497cc0: BAD TRAP: type=31 rp=2a1004978d0 addr=a8 mmu.fsr=0 occurred in module "jfca" due to a NULL pointer dereference

Workaround: Do not connect tape devices to either the SG-PCI1FC-JF2 or SG-PCI2FC-JF2 HBA.
Contestation Exists Between Certain Devices That Share the Same Bus (6196994)

A bus contention occurs if Quad Fast-Ethernet (QFE) cards share the same bus with any of the following adapters:

- Sun GigaSwift adapter
- Sun Dual Gigabit Ethernet and Dual SCSI/P adapter
- Sun Quad Gigaswift Ethernet adapter

The infinite-burst parameter of the ce driver that is used by these adapters is enabled by default. Consequently, little or no bus time is available for the QFE ports that share the same bus.

**Workaround:** Do not place QFE cards on the same bus as the network adapters in the list.

hat_getkpfnum() **DDI Function is Obsolete (5046984)**

The hat_getkpfnum() DDI function is obsolete. Developers should update their device drivers to not use the hat_getkpfnum() DDI interface. If drivers are using hat_getkpfnum(), warnings similar to the following example are displayed:

**WARNING:** Module mydrv is using the obsolete hat_getkpfnum(9F) interface in a way that will not be supported in a future release of Solaris. Please contact the vendor that supplied the module for assistance, or consult the Writing Device Drivers guide, available from http://www.sun.com for migration advice.

**Callstack of bad caller:**

```
hat_getkpfnum_badcall+93
hat_getkpfnum+6e
mydrv_setup_tx_ring+2d
mydrv_do_attach+84
mydrv_attach+242
devi_attach+6f
attach_node+62
i_ndi_config_node+82
i_ddi_attachchild+4a
devi_attach_node+4b
devi_attach_children+57
config immediate children+6e
devi_config_common+77
mt_config_thread+8b
```
To determine if a driver is using `hat_getkpfnum()`, consult the driver source code, or examine the driver's symbols by using `nm()`. Using the driver `mydrv` as an example, type the following syntax:

```
% nm /usr/kernel/drv/mydrv | grep hat_getkpfnum
```

For guidance about migrating drivers away from `hat_getkpfnum()`, refer to Appendix B, “Summary of Solaris DDI/DKI Services,” in *Writing Device Drivers*.

**Some DVD and CD-ROM Drives Fail to Boot Solaris (4397457)**

The default timeout value for the SCSI portion of the SunSwift™ PCI Ethernet/SCSI host adapter (X1032A) card does not meet the timeout requirements of Sun's SCSI DVD-ROM drive (X6168A). With marginal media, the DVD-ROM occasionally experiences timeout errors. The only exceptions are Sun Fire 6800, 4810, 4800, and 3800 systems. These systems overwrite the SCSI timeout value by means of OpenBoot PROM.

**Workaround:** For other platforms, use the on-board SCSI interfaces or DVD-ROM compatible SCSI adapters, such as the following examples:

- X1018A (SBus: F501-2739-xx)
- X6540A (PCI: F375-0005-xx)

**iPlanet Directory Server 5.1 Issues**

This section provides important information for users of iPlanet™ Directory Server 5.1 who are upgrading to the new Solaris 10 release.

**Installing Directory Server 5.1**

Sun Java System Directory Server 5 2005Q1 replaces iPlanet Directory Server 5.1 that was integrated in the Solaris 9 Operating System. In Solaris 10 OS, this new Directory Server can be installed as part of the Sun Java Enterprise System.

**Note** - For information about the Sun Java System Directory Server 5 2005Q1, refer to the documentation for the Sun Java System at [http://docs.sun.com](http://docs.sun.com)

Solaris 10 OS continues to support Directory Server 5.1. You might need to install Directory Server 5.1 under the following circumstances:
You need to recover Directory Server 5.1 data.
You want to migrate your data to Directory Server 5 2005Q1.

In Solaris 10 release, you install the Directory Server 5.1 manually. Follow these steps:

1. Insert the Solaris 10 Software - 4 CD into your CD-ROM drive.
2. Become superuser.
3. In a terminal window, install the Directory Server.

```
# cd /cdrom/cdrom0/Solaris_10/Product/
# pkgadd -d . IPLTnls IPLTnspr IPLTjss IPLTldap \
  IPLTdsr IPLTdsu IPLTadmin IPLTcons IPLTadcon IPLTdscon \
  IPLTadman IPLTdsman
```

To install Simplified Chinese localization packages, issue the following additional command:

```
# pkgadd -d . IPLTdsu IPLTcsadmin IPLTccons IPLTcadcon \
  IPLTcdscon IPLTcadman IPLTcdsman
```

To install Japanese localization packages, issue the following additional command:

```
# pkgadd -d . IPLTjdsu IPLTjadmin IPLTjcons IPLTjadcon \
  IPLTjdscon IPLTjadman IPLTjdsman
```


**Migrating to the Sun Java System Directory Server 5 2005Q1**

**Caution** – The database formats of the two Directory Server versions are incompatible. Thus, if you are a Directory Server 5.1 user, Sun recommends that you migrate your database to a database that is formatted for the Sun Java System Directory Server 5 2005Q1.

To perform a migration, both versions of the Directory Server must exist in the system that has been upgraded to the Solaris 10 OS. If you are a DS 5.1 user, but are using the compressed archive (.tar.gz) delivery format, you can skip immediately to the migration instructions in Step 2.

1. On a terminal window, check whether iPlanet Directory Server 5.1 packages are present in your system.
$ pkginfo | grep IPLT

If the following packages appear as output, then you can go to Step 2 to proceed with the migration. The output indicates that the iPlanet Directory Server 5.1 packages are in the system.

- system IPLTadcon Administration Server Console
- system IPLTadman Administration Server Documentation
- system IPLTadmin Administration Server
- system IPLTcons Console Client Base
- system IPLTdscon Directory Server Console
- system IPLTdsman Directory Server Documentation
- system IPLTdsr Directory Server (root)
- system IPLTdsu Directory Server (usr)
- system IPLTjss Network Security Services for Java
- system IPLTnls Nationalization Languages and Localization Support
- system IPLTnss Network Security Services
- system IPLTldap PerLDAP

If the packages do not exist, then install the iPlanet Directory Server 5.1 packages first. Refer to the 4-step procedure in the preceding section “Installing Directory Server 5.1” on page 55. After installation is complete, go to Step 2 to proceed with the migration.


After migrating your data, make sure you continue to back up directory data in the same way as you backed up directory data before migration. Future disaster recovery might require the migrated database.

**Issues While Running Debugger**

The following issues involve the kernel debugger.

**SPARC: Problems With dbx Debugger While Processing 64-bit Objects (6347707)**

The dbx debugger terminates with a memory access failure while processing certain 64-bit executable files and libraries. However, the problem does not affect the normal use of these 64-bit objects. An error message similar to the following example is displayed:

```
dbx: internal error: signal SIGBUS (invalid address alignment)
```
Workaround: Use either the mdb debugger or the Solaris Dynamic Tracing facility instead. These alternatives can diagnose processes that use the 64-bit objects.

System Might Loop When Master CPU Is Changed (4405263)

A system that is running the Solaris kernel debugger to debug a live system might loop with incomplete error messages. This loop occurs when the OpenBoot PROM’s master CPU is changed. A system reset restores the system to operation. However, the traces of the original failure are lost. Consequently, you cannot perform a diagnosis of the fatal reset.

Workaround: When the system is at the PROM level, the OpenBoot’s ok prompt is displayed. In a system with multiple CPUs, the ok prompt is preceded by a number that is enclosed in curly braces. This number indicates the active CPU in the system. To run your debug session while at the PROM level, use the following steps.

1. Raise pil to f by typing the following command:

   {0} ok h# 0f pil!

2. Use the switch-cpu command to selectively switch from the currently active CPU to different CPUs. For example, to switch from CPU #0 to CPU #1, type the following command:

   {0} ok 1 switch-cpu

   The ok prompt is now preceded by the number of the CPU to which you switched.

   {1} ok

3. Run your debugger.

4. At the end of your debugger session, issue a reset-all command to return the system to normal use.

Note – Make sure that you upgrade the system to the latest version of the OpenBoot PROM.

Localization Issues

This section describes localization issues that apply to Solaris 10 OS.
**Multiple Input Method Switcher Applications Appear in Trusted Java DS**

When you log in to the Trusted Java DS with UTF-8 or Asian locales, the Input Method Switcher application, iiim-panel, appears per label by default. Thus in multiple label environment, multiple iiim-panel appears, which could be confusing to the user.

No error message is displayed.

**Workaround:** Stop using the iiim-panel. Perform the following steps:

- Right-click on iiim-panel and select Preference. The Input Method Preference Editor, iiim-properties, is displayed.
- Select None or Attach to Each Application from the Input Method Status and Switcher Placement list in the General tab.
- Press Apply or Click the OK button.

**Note** – When Attach to each application is selected, language switcher list will not be displayed for GTK applications. You can switch input language through non-GTK applications or by running GTK applications with X Input Method instead of IIIM. For example:

```
% env GTK_IM_MODULE=xim gedit
```

**Wnn8 Japanese Input Method**

Wnn8 Japanese Input method cannot be used if the Wnn8 servers are not enabled.

**Workaround:** Enable the Wnn8 servers:

```
# svcadm enable wnn8/server
```

In addition, select Wnn8 as the Japanese Language engine by running the iiim-properties command.

**Keyboard Shortcuts in Mozilla Ambiguous in Spanish Locale (6288620)**

The keyboard shortcuts in Mozilla 1.7 are ambiguous in the Spanish (Es) locale. For example, you can use Ctrl-S to copy or to save. No error message is displayed.

**Workaround:** Use the shortcut keys assigned to user actions from the product menu.
Uninstaller Displays Strings Incorrectly in Some Locales (6487062)

This bug affects how you uninstall Solaris Trusted Extensions by using prodreg in locales other than C, POSIX, or any English locale. Strings are not displayed correctly in these locales when you uninstall by using prodreg.

No error message is displayed. The uninstaller shows placeholder strings, and buttons do not display correctly.

**Workaround:** Before you uninstall with prodreg, run the following commands:

```
# cd <Solaris_installation_media>/Solaris_10/ExtraValue/CoBundled/Trusted_Extensions
# cp -rp locale /var/sadm/tx
```

Then uninstall with prodreg.

Input Method Cannot Be Enabled With Primary Administrator Rights (6475081)

A user who has the Primary Administrator right cannot use the input method for specific locales which prevents that user from entering characters normally. The input method status is not displayed in the workspace. No error message is displayed.

**Workaround:** Add the following lines to the `/etc/security/exec_attr` file:

```
Primary Administrator:solaris:cmd::/usr/bin/csh:uid=0;gid=0
Primary Administrator:solaris:cmd::/usr/bin/ksh:uid=0;gid=0
Primary Administrator:solaris:cmd::/usr/bin/sh:uid=0;gid=0
```

For information about the file format, see the `exec_attr(4)` man page.

New ChuYin Input Method Not Supported in Upgrade to IIIMF rev.12 (6492129)

When you upgrade the OS to the Solaris 10 6/06 or Solaris 10 11/06 release, the input method framework and individual input methods get upgraded from rev.10 to rev.12. However, ChuYin is not in the list of supported input methods. Also, you cannot use the function keys F2 and F3 to switch methods.

**Workaround:** Use PinYin to type traditional Chinese characters with Hanyu PinYin. Use Ctrl+Shift to switch input methods.
AltGr **Does Not Work As Mode Switcher in Some Russian Locales (6487712)**

The AltGr key does not work as a mode switcher for the Russian Xsun layout in ru_RU.KOI8-R and ru_RU.ANSI1251 locales.

**Workaround 1:** Switch to the ru_RU.UTF-8 or the ru_RU.ISO8859-5 locale.

**Workaround 2:** Use IIMF™ instead of the Russian keyboard layout.

**Arabic6.kt Keytable Does Not Contain Arabic Symbols (6463576)**

The Arabic6.kt keytable does not contain any Arabic symbols.

**Workaround:** Use IIMF. Set the Arabic input through the gmet switcher instead of switching to Arabic by using the Altgr key.

**Arabic Text Not Appearing in ar Locales**

If your x86 system is using Xorg as the default Xserver, the Arabic font (iso7759-6) does not appear in the ar locale. This error does not occur if you are using XSun instead of XOrg.

**Workaround:** Follow these steps.

1. As superuser, edit /usr/dt/config/Xservers.
   - Uncomment or add the following line:
     
     ```
     :0 Local local_uid@console root /usr/openwin/bin/Xsun :0
     -nobanner -defdepth 24
     ```
   - Comment out the following line:
     
     ```
     :0 Local local_uid@console root /usr/X11/bin/Xorg :0
     ```
2. Reboot the system.

Alternatively, you can log in to ar_EG.UTF-8 or other UTF-8 locales.
Solaris PDASync Does Not Support Data Exchange With the Multibyte Internationalized PDA Device (4263814)

If you exchange multibyte data between a PDA device and Solaris CDE, the data might be corrupted in both environments.

Workaround: Back up your data on your personal computer with the PDA backup utility before you run the Solaris PDASync application. If you accidentally exchange multibyte data and corrupt that data, restore your data from the backup.

Adding Regions Fails With the localeadm Command (6350486)

The function to add regions in the localeadm command no longer works if you create a new configuration file. The Language CD is not detected when you add the following regions:

- Southern Europe
- North America
- Northern Europe

The following error message is displayed:

No langcd image has been found in
/cdrom/sol_10_1005_x86_4/Solaris_10/Product

No langcd image has been found in
/cdrom/sol_10_1005_x86_4 /cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4

Please enter the path to this image/disk, or enter ‘q’ to quit:

Workaround: When you are prompted to create a new configuration file, select No. Instead, use the configuration file that was installed in the system.

L10N Messages Missing When Using localeadm Utility to Add Locales (6423974)

When the Locale_config configuration file is created using the DVD/net image, using the Locale_config file to add locales leaves many unlocalized messages on the Gnome Desktop. No error message is displayed.
Workaround 1:

Login as superuser and do the following:

1. Change to the location of the `localeadm` `Locale_config` file.
   
   ```
   # cd /usr/sadm/lib/localeadm/
   ```

2. Revert to the existing `Locale_config` file bundled with the `localeadm` utility.
   
   ```
   # mv Locale_config_S10.txt.old Locale_config_S10.txt
   ```

Workaround 2:

Re-create the `Locale_config` file by using the CD images.

**SPARC: Keycode 50 Does Not Work for European Keyboard Layouts (6387317)**

Keycode 50 is not working for European keyboard layouts. This problem occurs with all European `*6.kt` keytable files. All keytables assign some symbols to keycode 50, but the key does not work. No error message is displayed.

**Workaround:**

Edit the `*6.kt` files in the `/usr/openwin/share/etc/keytables` directory. Duplicate keycode 50 for keycode 49 in the affected `*6.kt` file. For example, add the following entry for keycode 49 to the affected keytable file:

49 RN XK_numbersign XK_asciitilde

**Several Arabic Fonts Do Not Work in GNOME (6384024)**

In GNOME when you select certain Arabic fonts, the characters do not display. This problem appears when you select fonts for applications, the desktop, or the window title using the GNOME font properties menu. The affected fonts include:

- Akhbar MT (Regular, Bold)
- Shayyal MT (Regular, Bold)
- Naskh MT (Regular, Bold)

No error message is displayed.

**Workaround:**
Use any of the newly delivered Kacst family of fonts to display Arabic characters in GNOME applications.

**Unable to Switch Input Language on Session-Saved Applications (6360759)**

Multiple language input is supported in UTF-8 locales, but the language switch is not working with session-saved applications where mouse button 1 is clicked first after login. This problem occurs with the Java Desktop System (Java DS). No error message is displayed.

**Workaround:**

Click mouse button 1 on the backgroundworkspace or Launch Menu before clicking any application.

**Keyboard Shortcuts in Mozilla in ES Locale Are Unusual and Ambiguous (6288620)**

The keyboard shortcuts in Mozilla 1.7 are unusual, especially in Spanish locale. For example, Ctrl-S is being used for copying as well as for saving. No error message is displayed.

**Workaround:**

Identify the shortcut keys assigned to user actions from menu in the product.

**Migration Note to UTF-8 locales**

When migrating to UTF-8 locales, the files affect the method that you use to import or export data.

**Microsoft Office Files**

Microsoft Office files are encoded in Unicode. StarOffice applications can read and write the Unicode encoded files.

**HTML Files**

HTML files authored using HTML editors such as Mozilla Composer, or HTML files saved by a web browser, usually contain a charset encoding tag. After exporting or importing, you can browse such HTML files with the Mozilla Navigator web browser, or edit the files with Mozilla Composer, according to the encoding tag in the HTML file.
Fixing Broken HTML File

Some HTML files might be displayed in garbage characters. This problem is typically due to the following reasons:

- The charset encoding tag is incorrect.
- The charset encoding tag is missing.

To find the charset encoding tag in the HTML file, perform the following actions:

1. Open the file with Mozilla.
2. Press Ctrl-i, or click View to open the View menu.
3. Click Page Info.

The charset information is in the bottom of the General tab, for example:

```
Content-Type text/html; charset=us-ascii
```

If the string charset=us-ascii does not match the actual encoding of the file, the file might appear broken. To edit the encodings of the HTML file, perform the following actions:

1. Open the file with Mozilla Composer.
2. Open the File menu.
3. Select Save as Charset.
4. Choose the correct encoding. Mozilla Composer automatically converts the encoding and the charset tag as appropriate.

Emails Saved As Portable Format

Modern mails are tagged with the MIME charset tag. The Email and Calendar application accepts MIME charset tags. You do not need to perform any encoding conversion.

Plain Text Files

Plain text files do not have a charset tag. If the files are not in UTF-8 encoding, encoding conversion is needed. For example, to convert a plain text file encoded in Traditional Chinese big5 to UTF-8, execute the following command:

```
iconv -f big5 -t UTF-8 inputfilename
```

> outputfilename

You can also use the File System Examiner for the encoding conversion.

You can use the Text Editor to read and write character encoding text automatically or by specifying an encoding explicitly when opening or saving a file.
To start Text Editor, click Launch, then choose Applications->Accessories->Text Editor.

**File Names and Directory Names**

If file names and directory names using multibyte characters are not in UTF-8 encoding, encoding conversion is needed. You can use File System Examiner to convert file and directory names and the contents of plain text files from legacy character encodings to UTF-8 encoding. Refer to the online Help for File System Examiner for more information.

To start File Systems Examiner, click Launch, then choose Applications->Utilities->File System Examiner.

When you access non-UTF-8 file or directory names on Microsoft Windows via SMB using File Manager, you can access the non-UTF-8 file or directory names without encoding conversion.

**Launching Legacy Locale Applications**

For applications that are not ready to migrate to Unicode UTF-8, you can create a launcher on a front panel to start the application in legacy locales. You can also launch the applications directly from the command line. Perform the following steps to create a launcher for an application.

1. Right-click on the panel where you want to place the launcher.
2. Choose Add to Panel->Launcher.
3. Use the following format to type the entry in the Command field in the Create Launcher dialog:

   ```
   env LANG=locale LC_ALL=locale application name
   ```

   For example, if you want to launch an application called motif-app from /usr/dt/bin in the Chinese Big5 locale, enter the following text in the Command field of the Create Launcher:

   ```
   env LANG=zh_TW.BIG5 LC_ALL=zh_TW.BIG5 /usr/dt/bin/motif-app
   ```

4. Click OK to create the launcher on the panel.

When you need to run CLI (command line interface) applications which are specific to a legacy locale, open a Terminal window in the legacy locale first and then run the CLI applications in the same Terminal window. To open a Terminal window in a legacy locale, enter the following command:

```
eng LANG=locale LC_ALL=locale GNOME-TERMINAL --disable-factory.
```

Instead of opening a new Terminal window in a legacy locale, you can switch the locale setting from UTF-8 to a legacy locale in the current Terminal window by changing the encoding the Set Character Encoding menu in the Terminal window. Then you must also set the LANG and LANG environment variables to the current shell.
Hardware for Estonian Keyboard Type 6, French Canadian Keyboard Type 6, and Polish Programmers Keyboard Type 5 Not Available

Software support for three additional keyboard layouts has been added to the Solaris OS: Estonian keyboard Type 6, French Canadian keyboard Type 6, and Polish programmers keyboard Type 5.

This software gives users in Estonia, Canada, and Poland greater flexibility for keyboard input by modifying standard U.S. keyboard layouts to their own language needs.

Currently, no hardware is available for the three additional keyboard layout types.

Workaround: To take advantage of this new keyboard software, modify the /usr/openwin/share/etc/keytables/keytable.map file in one of the following ways:

- For the Estonian Type 6 keyboard, make the following changes:
  1. Change the US6.kt entry to Estonia6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

     6 0 Estonia6.kt

  2. Add the following entries to the /usr/openwin/lib/locale/iso8859-15/Compose file:

     <scaron> : "/xa8" scaron
     <scaron> : "/xa6" scaron
     <scaron> : "/270" scaron
     <scaron> : "/264" scaron

  3. Reboot the system for the changes to take effect.

- For the French Canadian Type 6 keyboard, make the following changes:
  1. Change the US6.kt entry to Canada6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

     6 0 Canada6.kt

  2. Reboot the system for the changes to take effect.

- If you are using the existing Polish Type 5 keyboard layout, make the following changes:
  1. Change the Poland5.kt entry to Poland5_pr.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:
Note – If you are using a keyboard with dip-switches, make sure the switches are set to the correct binary value for the Polish keytable entry (binary 52) before rebooting the system.

2. If you are using a standard U.S. Type 5 keyboard, change the US5.kt entry to Poland5_pr.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

4 33 Poland5_pr.kt

3. Reboot the system for the changes to take effect.

**Cannot Print Documents in Portable Document Format (6239307, 6218079)**

On all locales, the Document Viewer cannot print localized files that are in Portable Document Format (PDF).

**Workaround:** Choose one of the following workarounds:
- On SPARC based systems, use the Acrobat Reader to print localized PDF files.
- On x86 based systems, use StarOffice to create and then print PDF files.

**Special Keyboard Keys Do Not Work (5077631)**

Special keys on the left of the keyboard do not work on European keyboard mappings. This problem affects all European locales.

**Workaround:** Use shortcut keys instead of the special keyboard keys. The following example lists shortcut keys and the corresponding functions:
- Ctrl-Z - Undo
- Ctrl-C - Copy
- Ctrl-V - Paste
- Alt-Tab allows you to switch between windows.

**Modifier Keys Do Not Function Correctly (4996542)**

On all locales, the Alt key and the Shift key might not function as modifier keys when you use the Internet/Intranet input method. For example, the Shift-arrow key combination might not allow you to select text. Instead, the combination might insert Latin characters.
Workaround: Use a different input method, for example, Default. To switch input methods, right-click on an object and select Input method.

**Chinese and Korean Characters Are Printed In a Box (4977300)**

The postscript printer does not bundle Chinese or Korean fonts. Consequently, in Chinese or Korean locales, if you attempt to print from the Mozilla browser, the characters are printed within a box. The Common UNIX Printer System (CUPS) needs to convert the Mozilla postscript fonts before a file can be printed.

Workaround: Perform the following steps.
1. Click Launch => Preferences => Printers.
2. Right-click the PostScript printer icon, then select Properties.
3. Click the Advanced tab.
4. Set the Ghostscript pre-filtering to Convert to PS level 1.

**Sort Capability in the European UTF - 8 Locales Does Not Function Correctly (4307314)**

The sort capability in the European UTF - 8 locales does not work properly.

Workaround: Before you attempt to sort in a FIGGS UTF - 8 locale, set the `LC_COLLATE` variable to the ISO–1 equivalent.

```bash
# echo $LC_COLLATE
> es_ES.UTF-8
# LC_COLLATE=es_ES.ISO8859-1
# export LC_COLLATE

Then start sorting.
```

**Networking Issues**

The following networking bugs apply to the Solaris 10 release.
File *libmd.so.1 Not Found* (6541703)

The symbolic link between `/lib/libmd.so` and `/lib/libmd.so.1` is missing.

The following error message is displayed:

`libmd.so: not found`

**Workaround:** Log in as a superuser. Type the following command on the command line to manually add the symbolic link:

```
ln -s /lib/libmd.so.1 /lib/libmd.so
```

Login Fails on iSCSI Target With Two Portals and One Bad Portal (6476060)

If an iSCSI target or an array returns more than one IP address as part of its send target response, the initiator takes into account only the last address in the list and not the first one, as it used to prior to this release. As a result, if the last IP address is bad or invalid, the connection to this target fails.

**Workaround:** Return the different target portal group tags (TPGT) for each entry in its send target response. The initiator tries to establish a connection to all the IP addresses so that the connection succeeds.

System Domain of Interpretation Is Not Configurable (6314248)

The system Domain of Interpretation (DOI) is not configurable. When the SMC is used to create a new trusted network template, the SMC sets the DOI to 0 and Solaris Trusted Extensions does not function correctly. Various error messages are displayed.

**Workaround:** Set the DOI to 1 using the SMC.

Memory Leaks with ECC and RSA Cipher Suites (6421471)

Memory leak in NSS with ECC and RSA cipher suites might cause a system hang or system panic. The out of memory error message is displayed.
Workaround: Install the following patches:

- Patch ID 119213-09 for SPARC based systems.
- Patch ID 119214-09 for x86 based systems.

**iSCSI Initiator Does Not Handle LUN Address Reporting Properly (6377485)**

The Solaris iSCSI software initiator does not support logical units with a LUN greater than 255. No error message is displayed.

**Workaround:**

Change the logical unit numbers of the target device to less than 255.

**Wrong MAC Address is Displayed When There is More Than One Ethernet Card (6316245)**

When you register to a Solaris 10 7/07 HW OS for remote update management using the Sun Update Connection, your system information is displayed. If your system has more than one Ethernet card, the same MAC address is displayed for all the Ethernet cards. No error message is displayed.

**Workaround:** None.

**SPARC: RTM_IFINFO Message Has Different Sizes on 32-bit and 64-bit Compilations**

Sixty-four-bit programs that create PF_ROUTE sockets and parse the contents of RTM_IFINFO messages in the if_msghdr_t structure might work incorrectly unless they are recompiled.

**IP Forwarding Disabled by Default in Solaris 10 OS**

In this Solaris release, IP forwarding is disabled by default. This setting applies to both IPv4 and IPv6 regardless of other system configurations. Systems with multiple IP interfaces that formerly forwarded IP packets by default no longer have this automatic feature. To enable IP forwarding in multihomed systems, administrators must manually perform additional configuration steps.

**Workaround:** The command `routeadm` enables IP forwarding. The configuration changes that are the result of `routeadm` usage persist across system reboots.
To enable IPv4 forwarding, type `routeadm -e ipv4-forwarding`.

To enable IPv6 forwarding, type `routeadm -e ipv6-forwarding`.

To apply the enabled IP-forwarding configuration to the currently running system, type `routeadm -u`.

For more information about IP forwarding, see the `routeadm(1M)` man page.

**Generic LAN Driver Version 3 Fails to Set Field Length of Logical Link Control Frames (6350869)**

The Generic LAN Driver Version 3 (GLDv3) incorrectly sets the field length of Logical Link Control (LLC) frames. Consequently, protocols such as AppleTalk that are dependent on LLC do not function correctly. No error message is displayed. The problem affects the following network interface controllers:

- bge
- e1000g
- xge

**Workaround:** None.

**Zone Not Booting When IP Address Belongs to a Failed IP Network Multipathing Group (6184000)**

A zone can be configured so that the zone’s IP address becomes part of an IP Network Multipathing (IPMP) group. The configuration process is documented in “How to Extend IP Network Multipathing Functionality to Shared-IP Non-Global Zones” in *System Administration Guide: Solaris Containers-Resource Management and Solaris Zones*.

If all the network interfaces in the IPMP group fail, a zone does not boot if it has an IP address that is part of the IPMP group.

The following example illustrates the result if you attempt to boot the zone.

```
# zoneadm -z my-zone boot
zoneadm: zone 'my-zone': bge0:1: could not set default interface for multicast: Invalid argument
zoneadm: zone 'my-zone': call to zoneadmd failed
```

**Workaround:** Repair at least one network interface in the group.
Intermittent Errors Might Occur With the Use of DataDigests (5108515)

Internet SCSI (iSCSI) targets might report cyclic redundancy check (CRC) errors if DataDigests are enabled. User applications that update input/output buffers after transmitting to the iSCSI initiator might cause a miscalculation of the CRC. When the target responds with a CRC error, the iSCSI Initiator retransmits the data with the correct DataDigest CRC. Data integrity is maintained. However, data transfer performance is affected. No error message is displayed.

Workaround: Do not use the DataDigest option.

ATM LANE Subnets for IPv4/IPv6 Might Not Complete Initialization (4625849)

During system boot, multiple instances might not connect to their LAN Emulation (LANE) instance if more than eight LANE instances are on a single adapter. This bug does not appear at multiuser level.

Workaround: To reinitialize your SunATM network, perform the following steps:

1. Verify the problem by issuing a lanestat -a command.
   - Instances that are not connected have Virtual Circuit Identifier (VCI) values of 0 to the LAN Emulation Server (LES) and Broadcast and Unknown Address Server (BUS).
2. Stop and restart your SunATM network.

   # /etc/init.d/sunatm stop
   # /etc/init.d/sunatm start

3. Reset netmasks or any other network setup for the SunATM interfaces.

Configuring Multiple Tunnels Between Two IP Nodes With Filtering Enabled Might Result in Packet Loss (4152864)

If you configure multiple IP tunnels between two IP nodes, and enable `ip_strict_dst_multihoming` or other IP filters, packet loss might result.

Workaround: Choose one of the following:

- First, configure a single tunnel between the two IP nodes. Add addresses to the tunnel by using the `ifconfig` command with the `addif` option.
- Do not enable `ip_strict_dst_multihoming` on tunnels between two IP nodes.
Security Issues

The following security issues applies to the Solaris 10 release.

Nonpassword Logins Fail With pam_ldap Enabled

After the account management PAM module for LDAP (pam_ldap) is enabled, users must have passwords to log in to the system. Consequently, nonpassword-based logins fail, including those logins that use the following tools:

- Remote shell (rsh)
- Remote login (rlogin)
- Secure shell (ssh)

Workaround: None.

Incorrect Parameters Might Cause Panic in Sun StorEdge T3 (4319812)

A Sun StorEdge™ T3 system might panic if an application uses the HTTP interface to send tokens with out-of-range parameters.

Service Management Facility

This section describes issues that involve the Service Management Facility of Solaris 10 OS. For more information about this new feature in the Solaris OS, see “Solaris Service Manager” in Solaris 10 7/07 HW What’s New.

Print Services Have Offline Settings by Default (5100134)

When a host has no local printers configured, two print services, ipp-listener and rfc1179, are set to offline by default. These services are automatically moved to online after local printers are configured on the host. The default offline settings of these services do not indicate an error. Therefore, no user intervention is required.

Workaround: None.
**keyserv Daemon Disables Some File System Services (5084183)**

On systems that do not use Network Information Service (NIS) or NIS+ name service, the NFS and autofs services are disabled. The failure is due to these services’ dependency on the keyserv daemon. The keyserv daemon relies on the RPC domain name, which is not set on systems that do not use NIS or NIS+. Consequently, the failure of the keyserv daemon causes the NFS and autofs services to become disabled.

**Workaround:** To enable the services, perform the following steps:

1. Become superuser.
2. Issue the following commands:

   ```
   # svcadm disable network/rpc/keyserv
   # svcadm disable -t network/nfs/client:default
   # svcadm enable network/nfs/client:default
   # svcadm disable -t network/nfs/server:default
   # svcadm enable network/nfs/server:default
   # svcadm disable -t network/rpc/gss:ticotsord
   # svcadm enable network/rpc/gss:ticotsord
   ```

**Login Prompts Sometimes Appear Before File Systems Are Mounted (5082164)**

During system startups, sometimes the login services such as console or ssh logins start before remote file systems and naming services become available. Consequently, the user name might not be recognized or the user’s home directory might not be available.

**Workaround:** If the error occurs, wait for a few seconds and then log in again. Alternatively, log in from a local account to view the system state.

---

**Smart Card**

The following Smart Card bugs apply to Solaris 10 OS.

**System Does Not Respond to Smart Card (4415094)**

If ocfserv terminates and the display is locked, the system remains locked even when a smart card is inserted or removed.

**Workaround:** Perform the following steps to unlock your system:
1. Perform a remote login to the machine on which the ocfserv process was terminated.
2. Become superuser.
3. Kill the dtsession process by typing the following in a terminal window.
   
   ```
   # pkill dtsession
   ```

   ocfserv restarts and smart card login and capability are restored.

---

**Edit Config File Menu Item in Smartcards Management Console Does Not Work (4447632)**

The Edit Config File menu item in the Smartcards Management Console does not edit smart card configuration files that are located in `/etc/smartcard/opencard.properties`. If the menu item is selected, a warning is displayed which indicates not to continue unless requested by technical support.

**Workaround:** Do not use the Edit Config File menu item in the Smartcards Management Console. For information on smart card configuration, see the *Solaris Smartcard Administration Guide*.

---

**Solaris Commands and Standards**

The following section describes behavior changes in certain commands and standards in Solaris 10 OS.

**Failed Unconfigure Command**

**cfgadm Might Succeed Later Without Notice (6483258)**

Sometimes the `cfgadm -c unconfigure` command fails because of pending I/Os. With the changed kernel, the command is retried offline. The `cfgadm`'s unconfigure command might, however, succeed later without any notice to the user.

**Workaround:** Run the `cfgadm -a1` command.

**Bash 2.0.5b No Longer Sets Some Environment Variables**

Solaris 10 OS includes Bash 2.0.5b. This shell no longer automatically exports the following variables to the environment:

- `HOSTNAME`
This new behavior applies even if the shell assigns default values to these variables.

**Workaround:** Export these variables manually.

### New `ln` Utility Requires `-f` Option

The behavior of `/usr/bin/ln` has changed to adhere to all of the standards from SVID3 through XCU6. If you use the `ln` command without the `-f` option to link to an existing target file, the link is not established. Instead, a diagnostic message is written to standard error, and the command proceeds to link any remaining source files. Finally, the `ln` command exits with an error value.

For example, if file b exists, the syntax `ln a b` generates the following message:

```
ln: b: File exists
```

This behavior change affects existing shell scripts or programs that include the `ln` command without the `-f` option. Scripts that used to work might now fail in Solaris 10 OS.

**Workaround:** Use the `-f` option with the `ln` command. If you have existing scripts that execute the link utility, make sure to modify these scripts to comply with the command’s new behavior.

### New `tcsh` Rejects `setenv` Variable Names That Use a Dash or an Equals Sign

In Solaris 10 OS, `tcsh` has been upgraded to version 6.12. This version no longer accepts environment variables whose names use a dash or an equals sign. Scripts that contain `setenv` lines and that work in earlier Solaris versions might generate errors in the current Solaris 10 release. The following error message is displayed:

```
setenv: Syntax error
```

For more information, refer to the `tcsh` man page for the Solaris 10 OS.

**Workaround:** Do not use the dash or equals sign in names for environment variables.

### STDIO `getc` Family EOF Condition Behavior Change

Applications that were built in strict standard C conformance mode are affected by the behavior changes of certain library functions. An example is applications that were compiled by using the `cc -Xc` or `c89` compilation mode. The behavior has changed for the following library functions:
A formal interpretation of the 1990 C Standard requires that after an end-of-file condition is set, no more data is returned from the file on subsequent input operations. The exception is if the file pointer is repositioned or the error and end-of-file flags are explicitly cleared by the application.

The behavior for all other compilation modes remains unchanged. Specifically, the interfaces can read additional newly written data from the stream after the end-of-file indicator has been set.

**Workaround:** Call `fseek()` or `clearerr()` on the stream to read additional data after the EOF condition has been reported on the stream.

### Output Columns of the `ps` Command Have Been Widened

Due to larger UIDs, processor ids, and cumulative execution time, the columns of the `ps` command output have been widened. Customer scripts should not assume fixed output columns.

**Workaround:** Scripts should use the `-o` option of the `ps` command.

For more information, see the `ps(1)` man page.

### Command `ping -v` Does Not Work on IPv6 Addresses (4984993)

The command `ping -v` fails when the command is applied to addresses that use Internet Protocol version 6 (IPv6). The following error message is displayed:

```
ping: setsockopt IPV6_RECVHDRDSTOPTS Invalid argument
```

**Workaround:** None. To obtain the same ICMP packet information that `ping -v` provides, use the `snoop` command.
Solaris Volume Manager

The following Solaris Volume Manager bugs apply to the Solaris 10 release.

**Solaris Volume Manager `metattach` Command Might Fail**

If you have a Solaris Volume Manager mirrored root (/) file system in which the file system does not start on cylinder 0, all submirrors you attach must also not start on cylinder 0.

If you attempt to attach a submirror starting on cylinder 0 to a mirror in which the original submirror does not start on cylinder 0, the following error message is displayed:

can't attach labeled submirror to an unlabeled mirror

**Workaround:** Choose one of the following workarounds:

- Ensure that both the root file system and the volume for the other submirror start on cylinder 0.
- Ensure that both the root file system and the volume for the other submirror do not start on cylinder 0.

**Note** – By default, the JumpStart installation process starts swap at cylinder 0 and the root (/) file system somewhere else on the disk. Common system administration practice is to start slice 0 at cylinder 0. Mirroring a default JumpStart installation with root on slice 0, but not cylinder 0, to a typical secondary disk with slice 0 that starts at cylinder 0, can cause problems. This mirroring results in an error message when you attempt to attach the second submirror. For more information about the default behavior of Solaris installation programs, see the Solaris 10 Installation Guides.

**Solaris Volume Manager `metassist` Command Fails in Non-English Locales (5067097)**

In non-English locales, the Solaris Volume Manager `metassist` command might fail to create volumes. For example, if LANG is set to ja (Japanese), the following error message is displayed:

```
xmllEncodeEntitiesReentrant : input not UTF-8
Syntax of value for attribute read on mirror is not valid
Value "XXXXXX" (unknown word) for attribute read on mirror
is not among the enumerated set
Syntax of value for attribute write on mirror is not valid
```
Value "XXXXXX" (Parallel in Japanese) for attribute write on mirror is not among the enumerated set

metassist: XXXXXX (invalid in Japanese) volume-config

**Workaround:** As superuser, set the LANG variable to LANG=C.

For the Bourne, Korn, and Bash shells, use the following command:

```
# LANG=C; export LANG
```

For the C shell, use the following command:

```
# setenv LANG C
```

**Volume Creation Fails in Systems With Unformatted Disks (5064066)**

Creating Solaris Volume Manager volume configurations with the `metassist` command might fail if an unformatted disk is in the system. The following error message is displayed:

```
metassist: failed to repartition disk
```

**Workaround:** Manually format any unformatted disks before you issue the `metassist` command.

**Hot Spares Do Not Work Correctly When Solaris Volume Manager RAID-1 (Mirror) or RAID-5 Volumes Are Created in Disk Sets Built on Soft Partitions (4981358)**

If you create a Solaris Volume Manager RAID-1 (mirror) or RAID-5 volume in a disk set that is built on top of a soft partition, hot spare devices do not work correctly.

Problems that you might encounter include, but are not limited to, the following:

- A hot spare device might not activate.
- A hot spare device status might change, indicating the device is broken.
- A hot spare device is used, but resynced from the wrong drive.
- A hot spare device in use encounters a failure, but the broken status is not reported.

**Workaround:** Do not use this configuration to create a Solaris Volume Manager RAID-1 or RAID-5 volume in disk sets.
Solaris Volume Manager **metadevadm** Command Fails if Logical Device Name No Longer Exists (4645721)

You cannot replace a failed drive with a drive that has been configured with the Solaris Volume Manager software. The replacement drive must be new to Solaris Volume Manager software. If you physically move a disk from one slot to another slot on a Sun StorEdge A5x00, the metadevadm command fails. This failure occurs when the logical device name for the slice no longer exists. However, the device ID for the disk remains present in the metadevice replica. The following message is displayed:

```
Unnamed device detected. Please run `devfsadm && metadevadm -r` to resolve.
```

**Note** - You can access the disk at the new location during this time. However, you might need to use the old logical device name to access the slice.

**Workaround:** Physically move the drive back to its original slot.

Solaris Volume Manager **metarecover** Command Fails to Update **metadb** Namespace (4645776)

If you remove and replace a physical disk from the system, and then use the metarecover -p -d command to write the appropriate soft partition specific information to the disk, an open failure results. The command does not update the metadevice database namespace to reflect the change in disk device identification. The condition causes an open failure for each such soft partition that is built on top of the disk. The following message is displayed:

```
Open Error
```

**Workaround:** Create a soft partition on the new disk instead of using the metarecover command to recover the soft partition.

**Note** - If the soft partition is part of a mirror or RAID 5, use the metareplace command without the -e option to replace the old soft partition with the new soft partition.

```
# metareplace dx mirror or RAID 5
old_soft_partition new_soft_partition
```
Sun Java Desktop System

This section describes issues that apply to the Sun Java Desktop System (Java DS) in the Solaris 10 OS.

Email and Calendar

This section describes issues related to Email and Calendars.

Problems With Using Multiple Attachments (6260583)

If you drag and drop email messages to a new email message body, the content of the new email message is corrupted.

Workaround: To send multiple attachments, perform the following steps:
1. Select the messages you want to attach.
2. On the Menu bar, choose Action => Forward => Attached.
   Alternatively, you can press Ctrl-J to send the messages.

Problem With Changing Authentication Type (6246543)

After you change the authentication type for the incoming mail server, Email and Calendar might not work correctly.

Workaround: Restart Email and Calendar.

Incomplete List of Contacts in Contact Folder (5088514)

After you import an LDAP Data Interchange Format file containing several contacts, only some of the contacts are displayed in your contact folder. This is a display problem only. Email and Calendar has imported all the contacts.

Workaround: Restart Email and Calendar.

Login Issues

This section describes login issue.

Login Error Message

You might encounter the following error message when you log in to a Java Desktop System session:
Could not look up internet address for hostname. This will prevent GNOME from operating correctly. It may be possible to correct the problem by adding hostname to the file /etc/hosts

**Workaround:** Ensure that your hostname is set up correctly in the /etc/hosts file. Perform the following steps:

1. Set the hostname in the /etc/hosts file as follows:

   ```
   127.0.0.1 localhost loghost hostname
   localhost.localdomain
   ```

   *hostname* is the name of your system.

2. Ensure that your hostname is listed in the /etc/nodename file. This file must also contain the following line:

   ```
   127.0.0.1 localhost loghost hostname
   localhost.localdomain
   ```

**$PATH issues (6247943)**

When you log into Java Desktop System Release 3, your $PATH is set incorrectly to the following:

```
/usr/bin::/usr/dt/bin:/usr/openwin/bin:/bin:
/usr/ucb:/usr/openwin/bin:/usr/dt/bin
```

**Workaround:** Remove the following from your $PATH:

- /usr/openwin/bin:
- /bin:
- :

The resulting path should be similar to the following example:

```
/usr/bin:/usr/dt/bin:/usr/ucb:/usr/openwin/bin:/usr/dt/bin
```

**Remote Connection Problems (6203727)**

If you use dtlogin remote connection, you cannot connect to the GNOME Display Manager from certain systems.

**Workaround:** When you are prompted to select the remote login, specify the IP address instead of the hostname.
Help System

Wrong Help Window Opened For Volume Control (6253210)
If you use the Yelp browser to open the online help for Volume Control, the help file for the Keyboard Accessibility panel application is opened instead.

Workaround: None.

Online Help Freezes (5090731)
If you open an application’s online help and no help files exist for that application, an error dialog box is displayed. Unless you click OK, the online Help system freezes and you cannot open the online help of other applications that you start subsequently.

Workaround: You must click the OK button in the error dialog box.

Mozilla Browser

Cannot Print Certain Documents From the Mozilla Browser
You cannot print documents from the Mozilla browser if the documents contain Unicode characters that are not in the Basic Multilingual Plane (BMP).

Workaround: None.

Cannot Specify User Preferences for Roaming Access in Mozilla Browser (6200999)
In the Mozilla browser, you can specify that User Preferences should be transferred to and from the Roaming Access server. You specify your Roaming Access option by following these steps:

1. On the browser, click Edit and select Preferences.
2. Select Roaming User, then select Item Selection.
3. On the right panel, select User Preferences.

However, the selection of User Preferences does not take effect.

Workaround: None.

Keyboard Shortcuts Fail (6192644)
In the Mozilla browser, you enable caret browsing by pressing F7. When caret browsing is enabled, the keyboard shortcut Ctrl-Home brings you to the beginning of the web page that you are browsing. However, this keyboard shortcut does not work when you browse certain sites such as www.yahoo.com and www.mozilla.org.
Workaround: Disable caret browsing by pressing F7.

System-Level Issues

User Preferences Not Fully Compatible
User preferences in your home account for an earlier version of the GNOME Desktop might be partly incompatible with the version on the Java DS Release 3.

Workaround: Reset your preferences. Perform the following steps:
1. Log out of the Java Desktop System.
2. Click Session and choose Failsafe terminal.
3. Log in.
4. In the failsafe terminal window, enter the following commands:

   % gnome-cleanup exit

5. Log in again.
   
   Your GNOME preferences are now reset.

GNU Image Manipulation Program Missing From the Graphics Menu (6209566)
The GNU Image Manipulation Program (GIMP) is not available in the Graphics menu.

Workaround: Perform the following steps.
1. Open a terminal window.
2. Edit the /usr/share/applications/gimp-2.0.desktop file.
3. Change the Exec and TryExec lines to add the full path to the GIMP binary:

   TryExec=/usr/sfw/bin/gimp2.0
   Exec=/usr/sfw/bin/gimp-remote-2.0 %u

Problems With Online Registration of StarOffice 7 Software (6208829)
You might be unable to complete the online registration of the StarOffice 7 software if the software cannot find Mozilla on the system. The software must be able to locate the Email and Calendar application to successfully send documents.

Workaround: Add /usr/sfw/bin to your PATH. Perform the following steps.
1. Open a terminal window.
2. Issue the following command:

   % export PATH=/usr/sfw/bin:$PATH

3. To start the StarOffice software, issue the following command:

   % soffice

4. Complete the StarOffice registration procedure.

**Problems With Sound Recorder**

The slide bar and the side counter do not work when the Sound Recorder is recording a new .wav file.

**Workaround:** None.

**Volume Control Option Not Working**

The option in the Volume Control panel application that enables you to start the Volume Control desktop applications does not work.

**Workaround:** None.

**Outdated List of Allowed Applications for Solaris OS (6267922)**

In the Solaris software, you restrict application launching by setting to true the /desktop/gnome/lockdown/ restrict_application_launching gconfkey. This setting allows only certain applications to appear on the Launch menu where you can start these applications. The allowed applications are listed in the /desktop/gnome/lockdown/allowed_applications gconfkey.

Currently, the list includes applications that are outdated and are no longer included in the Java Desktop System software. Moreover, the list also contains references to certain applications with incorrect directory locations. Consequently, if you restrict application launching, certain key applications such as Mozilla or StarOffice do not appear on the Launch menu.

**Workaround:** Perform the following steps.

1. Become superuser.
2. Remove the ~/.gconf/desktop/gnome/lockdown directory if the directory exists.

   # rm -rf ~/.gconf/desktop/gnome/lockdown
3. Log out of the system and then log in again.

**Problems When Using Keyboard Indicator (6245563)**

Using the keyboard indicator might make the keyboard unusable when you switch between X servers.

*Workaround:* None. Do not use the Keyboard Indicator.

**Certain View Options Might Cause File Manager to Fail (6233643)**

The File Manager might fail if you use the following View options:

- View as Catalog
- View as Image Collection

Depending on the View options that you use, the following error messages might be displayed:

- **Error:**
  
  The application nautilus has quit unexpectedly

- **Error:**

  The Catalog view encountered an error while starting up

- **Error:**

  The Image Collection view encountered an error while starting up

*Workaround:* None. Every time these problems occur, restart File Manager or click the Restart Application button on the crash dialog box.

**CD Quality, Lossless Mode Fails at Start of Recording (6227666)**

If you use the Sound Recorder multimedia application in CD Quality, Lossless mode, the application fails when recording starts. The following error message is displayed:

The Application "gnome-sound-recorder" has quit unexpectedly.

*Workaround:* Perform the following steps.

1. Become superuser.
2. Issue the following command:

```bash
# GCONF_CONFIG_SOURCE=xml::/etc/gconf/gconf.xml.defaults
/usr/bin/gconftool-2 --makefile-install-rule
/etc/gconf/schemas/gnome-audio-profiles.schemas
```

In addition, existing users must perform the following steps.

1. If the `gnome-audio-profiles-properties` application is running, stop the application by closing the application window.

2. If the profile `cdlossless` exists in `~/.gconf/system/gstreamer/audio/profiles`, remove the profile.

   ```bash
   % rm ~/.gconf/system/gstreamer/audio/profiles/cdlossless
   ``

3. Log out of the system and then log in again.

---

**Cannot Delete Files Outside of Home Directory (6203010, 5105006)**

You can only delete files from your own home directory file system.

**Workaround:** To delete files outside your home directory file system, open a terminal window and use the command line.

---

**Problems Creating Certain Types of Archives (5082008)**

You cannot use Archive Manager to create the following types of archives:

- .arj
- .lha
- .bzip
- .lzop
- .zoo

**Workaround:** None.
System Administration

This section describes system administration bugs in Solaris 10 OS.

iSCSI Target Coreumps When Running JIST Test Suite (6550844)

When running the JIST read/write/compare load test with 10 threads as part of the entrance test for Amber Road, the iscsi target coredumps. This might cause the JIST test to fail with data compare errors. Sometimes the JIST might run successfully, but a new core file is generated.

Workaround: None.

ZFS Administration Window Fails To Launch (6549565)

Type the URL https://localhost/:6789.2 in a Firefox browser and log in as the root user. When you click the ZFS Administration link, the ZFS Administration window does not start. The following error message is displayed:

setSelectionComponentState is not defined
https://localhost:6789/zfs/zfsmodules/Header
openOrClose: TreeFrame is not defined
https://localhost:6789/zfs/zfsmodules/CloseFrame.jsp

Workaround: None.

smosservice Command Fails (6545660)

The smosservice command fails after displaying that the file
/usr/snadm/lib/libspmizones.so does not exist. The following error message is displayed:

Failed to load library "libspmizones.so".
ld.so.1: java: fatal: libspmizones.so: open failed:
No such file or directory.

Workaround: Create a soft link to libspmizones.so and then execute the smosservice command. Use the following command to create the link:

ln -s /usr/snadm/lib/libspmizones.so.1 /usr/snadm/lib/libspmizones.so
**luacreate : zone** Feature Does Not Work on Whole Root Zones (6526238)

The `luacreate : zone` feature does not work on whole root zones when a whole root non-global zone in the parent boot environment has a dedicated filesystem. Bits of the dedicated filesystem in the whole root zone will not be copied to the target zone in the alternate boot environment. The following error message is displayed:

```
Creating shared file system mount points.
Copying root of zone havana-z1>.
Copying /tests> in zone havana-z1>.
egrep: syntax error
```

This message essentially means that you have a partially created whole root zone in the newly created boot environment.

**Workaround:** Copy the bits of the whole root zone's dedicated filesystem manually to the target zone in the alternate boot environment.

**Solaris is Unable to Handle Mode Switches Between Legacy and AHCI Modes for the SATA Controller (6520224)**

In systems which have an AHCI compliant SATA controller, the BIOS setup typically enables the controller to be set in either AHCI, legacy, or RAID modes. Solaris supports AHCI and legacy modes.

The SATA mode setting in BIOS must not be changed after an initial Solaris installation. The SATA mode setting must also not be changed before or after a Solaris upgrade. If the SATA mode BIOS setting is modified after installing Solaris, the system will reset and fail to boot without indicating what led to the failure.

**Workaround:** If boot failure is encountered as a result of changing the BIOS setting, revert back to the original setting in order to boot Solaris.

**Possible Error With 32-bit Applications Getting File System State on Large File Systems (6468905)**

When run on large file systems, for example ZFS, applications using `statvfs(2)` or `statfs(2)` to get information about the state of the file system exhibit an error. The following error message is displayed:
Value too large for defined data type

Workaround: Applications should use `statvfs64()` instead.

**Solaris Trusted Extensions Administration Tools Display Incorrect Labels (6478436)**

Solaris Trusted Extensions administration tools such as the Solaris Management Console (SMC) and `tninfo` might not display the `ADMIN_LOW` or `ADMIN_HIGH` labels. Instead the administration tools might incorrectly display labels like `PUBLIC` and `CNF : RESTRICTED`.

This incorrect display of labels can result in misconfigured systems. For example, the SMC might incorrectly display `PUBLIC` for a zone when the actual default label is `ADMIN_LOW`. Because of incorrect label display the zone fails to boot.

The error is because the default label view is `EXTERNAL` when it should be `INTERNAL`. This causes `ADMIN_LOW` to be promoted to the minimum user label and `ADMIN_HIGH` to be demoted. As a result, the administration tools incorrectly display the lowest and highest labels defined instead of correctly displaying `ADMIN_LOW` and `ADMIN_HIGH`.

**Workaround:** Perform the following steps:

1. Install Solaris Trusted Extensions but do not reboot the system.
2. Edit your `label_encodings` file. The default `label_encodings` file is `/etc/security/tsol/label_encodings`. Add the following line in the `LOCAL DEFINITIONS` section:

   ```
   Default Label View is Internal;
   ```

**Using `patchadd` With the `-R` Option To Specify an Alternative Root Path From Systems That Are Not Zones Aware Should Be Restricted (6464969)**

On systems running a Solaris release that is not zones aware, using `patchadd -R`, or any command that accepts the `-R` option to specify an alternate root path for a global zone that has non-global zones installed, will not work.

In contrast with the error message that is displayed by using the `luupgrade [-t, -T, -p, -P]` command, no error message regarding the use of appropriate command-level restrictions is displayed in this instance.

There is no indication that the `-R` option did not work. As a result of the failure of the command, Solaris 10 packages or patches are not installed on any of the installed non-global zones.
This problem occurs while installing and uninstalling packages or patches.

**Note** – The -R option works if the alternate boot environment has configured non-global zones, but no installed non-global zones. However, to avoid a potential problem, or if you are not sure whether there are any installed non-global zones used as the alternate root path, restrict the use of the -R option in all instances.

For more information, see the following man pages:
- `patchadd(1M)`
- `patchrm(1M)`
- `pkgadd(1M)`
- `pkgrm(1M)`

**Workaround 1**: Upgrade the OS to at least the Solaris 10 1/06 release.

If you are running the Solaris 10 3/05 release, install the following patches to enable the use of commands that accept the -R option to create an alternate root path:
- Patch ID 119254-19 for SPARC based systems
- Patch ID 119255-19 for x86 based systems

**Workaround 2**: Restrict the use of the `patchadd -R` command or any command that accepts the -R option to create an alternate root path.

Instead, boot the alternate root, for example, the Solaris 10 release, as the active OS. Then install and uninstall the Solaris 10 packages and patches without using the -R option.

**Upgrade to Solaris 10 7/07 HW or Changing Specific Device Configurations Might Break PCI/PCIe Hotplug Administration (6466526)**

The `cfgadm` command displays ApLd's that might be incorrect or inconsistent with the format that is specified in the `cfgadm_pci(1M)` man page. This inconsistency occurs under the following circumstances:
- Upgrading to the Solaris 10 7/07 HW release
- Swapping hardware of PCI or PCI Express (PCIe) attachment points at the same physical location. For example, replacing an expansion chassis at the same location.

No specific error message is displayed. However, the `cfgadm` command might display one of the following:
- An incorrectly formatted ApLd which might work
A correctly formatted ApId which might not work

If the ApId does not work, then the cfgadm command will display a corresponding error message.

Workaround: Remove all PCI and PCIe links under the /dev/cfg directory and then run the command, devfsadm -c. The PCI and PCIe links are displayed as ApIds in:

```
cfgadm -s "select=class(pci)"
```

**smosservice or smdiskless Is Broken Due to wbem Issues (6378956)**

The smosservice or smdiskless command might not work because of a dependency on JDK™ 1.5 release.

The following error message is displayed:

```
/usr/sadm/bin/smosservice list -u <user> -p <password> Exception in thread "main"
java.lang.UnsupportedClassVersionError:
com/sun/management/viperimpl/console/BaseConsoleOptionsManager
(Unsupported major.minor version 49.0)
at java.lang.ClassLoader.defineClass0(Native Method)
at java.lang.ClassLoader.defineClass(ClassLoader.java:539)
at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:251)
at java.net.URLClassLoader.defineClass(URLClassLoader.java:251)
at java.net.URLClassLoader.access$100(URLClassLoader.java:55)
at java.net.URLClassLoader$1.run(URLClassLoader.java:194)
at java.security.AccessController.doPrivileged(Native Method)
at java.net.URLClassLoader.findClass(URLClassLoader.java:187)
at java.lang.ClassLoader.loadClass(ClassLoader.java:289)
at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:274)
at java.lang.ClassLoader.loadClass(ClassLoader.java:235)
at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:302)
```

Workaround:

Set the JAVA_HOME variable to point to a JDK 1.5 installation.

```
# JAVA_HOME=/usr/java
```
Sun Patch Manager Tool 2.0 Not Compatible With Previous Versions

A system that runs the Sun Patch Manager Tool 2.0 can manage remote systems that run Patch Manager Tool, including Sun Patch Manager Tool 1.0.

However, a system with an earlier version of Patch Manager Tool cannot manage remote systems that run Patch Manager Tool 2.0. Earlier versions include the following:

- Sun Patch Manager Base Software 1.x
- Sun Patch Manager Tool 1.0

Note – Common Information Model/Web Based Enterprise Management (CIM/WBEM) support for Patch Manager Tool does not exist in the Solaris 8 OS. Consequently, remote management with Patch Manager does not apply to Solaris 8 systems.

Sun Remote Services Net Connect Supported Only in the Global Zone

Sun Remote Services (SRS) Net Connect is supported only in the global zone. Error messages are displayed if you perform one of the following actions:

- You install SRS Net Connect in a local zone.
- SRS Net Connect is installed in the global zone at the time a local zone is created.

The error messages are as follows:

*** package SUNWcstu failed to install - interactive administration required:
Interactive request script supplied by package
pkgadd: ERROR: request script did not complete successfully
Installation of SUNWcstu was suspended (interaction required).
No changes were made to the system.

*** package SUNWfrunc failed to install - interactive administration required:
Interactive request script supplied by package
pkgadd: ERROR: request script did not complete successfully
Installation of SUNWfrunc was suspended (interaction required).
No changes were made to the system.
Workaround: Ignore the error messages.

Error or Warning Messages Might Be Displayed While Installing Non-global Zones With the `zoneadm` Command

While installing a non-global zone by using the `zoneadm` command, error or warning messages might be displayed during package installation. The messages are similar to the following example:

```
Preparing to install zone zone1.
Creating list of files to copy from the global zone.
Copying 2348 files to the zone.
Initializing zone product registry.
Determining zone package initialization order.
Preparing to initialize 790 packages on the zone.
Initialized 790 packages on zone.
Zone zone1 is initialized.
```

Installation of the following packages generated errors:
- SUNWjhrt
- SUNWmcc
- SUNWjhdev
- SUNWmsb
- SUNWmcon
- SUNWmpatchmgr

Installation of the following packages generated warnings:
- SUNWjhrt
- SUNWmcc
- SUNWjhdev
- SUNWmsb
- SUNWmcon
- SUNWmpatchmgr
- SUNWwrmui
- SUNWdoc
- SUNWl5m
- SUNWpmgr

Problems about package installation are also recorded in
`/export/zone1/root/var/sadm/system/logs/install_log` which contains a log of the zone installation.

Workaround: None.

**Note** – The non-global zone can still be used even though these messages have been reported. Issues with package installation existed in earlier Solaris Express and Solaris 10 Beta releases. However, no notification about these problems was being generated. Beginning with this Solaris release, these errors are now properly reported and logged.

SPARC: Error Messages Displayed During Dynamic Reconfiguration (6312424)

During dynamic reconfiguration (DR), error messages might be displayed. The messages are displayed if you perform DR while input and output operations are active on devices that are in
After the messages are displayed, the input and output operations are retried and eventually succeed. The following is a sample that is displayed:

```
Jul 28 12:23:19 qame10-a scsi: [ID 107833 kern.warning] WARNING: /ssm@0,0/pci@19,700000/SUNW,qlc@2,1/fp@0,0/ssd@w2100000c5056fa13,0 (ssd6): 
Jul 28 12:23:19 qame10-a transport rejected fatal error
Jul 28 12:22:08 qame10-a scsi: [ID 107833 kern.warning] WARNING: /ssm@0,0/pci@19,700000/SUNW,qlc@2,1/fp@0,0/ssd@w2100000c5056f9a7,0 (ssd36):
Jul 28 12:22:08 qame10-a SCSI transport failed: reason 'timeout': retrying command
```

**Workaround:** None. Ignore the error messages.

---

**Error Messages Displayed by pkgchk After You Remove Patches for Zones (6267966)**

The `patchadd` and `patchrm` commands work improperly in non-global zones with inherited file systems. Consequently, in those zones, the `pkgchk` command might generate error messages about packages under the following circumstances:

1. In the global zone, you apply patches for the Solaris 10 zone system by using the `patchadd` command.
2. You use the `patchrm` command to remove patches that you just recently applied.
3. In a non-global zone with inherited file systems, you check with the `pkgchk` command for information about a package in any of the removed patches.

The following sample message is displayed when the `pkgchk` command is used on SUNWcsu under the circumstances previously listed.

```
# pkgchk SUNWcsu
ERROR: /usr/lib/inet/certdb
    modtime <04/26/05 10:55:26 PM> expected <01/23/05 01:48:24 AM> actual
    file size <36012> expected <42152> actual
    file cksum <37098> expected <19747> actual
ERROR: /usr/lib/inet/certlocal
    modtime <04/26/05 10:55:26 PM> expected <01/23/05 01:48:24 AM> actual
    file size <44348> expected <84636> actual
```

**Workaround:** None. The errors are harmless. Ignore the error messages.
Race Condition Between EF/kcfd and IPsec Algorithm Availability (6266083)

Systems with the Solaris 10 3/05 HW1 release might cause problems with IPsec. This problem might occur on a freshly installed system or a system that imports a large number of new Service Management Facility (SMF) manifests during the boot. After these booting conditions, IPsec, which is part of svc:/network/initial:default, might be initialized prior to the encryption framework, which is part of svc:/system/cryptosvc:default. Because authentication or encryption algorithms are not available, creation of IPsec security associations might fail with an error message such as the following:

```
PF_KEY error: type=ADD, errno=22:
Invalid argument, diagnostic code=40:
Unsupported authentication algorithm
```

For example, this error might occur when using DR on a Sun Fire E25K system, which involves IPsec services.

**Workaround:** Before performing operations that use IPsec services, perform the following steps after a boot that imports a large number of new SMF manifests:

1. Issue this command after booting:
   ```
   ipsecalgs -s
   ```
2. If `/etc/inet/secret/ipseckeys` exists on the system, also issue this command:
   ```
   ipseckey -f /etc/inet/secret/ipseckeys
   ```

Now you can perform actions that create IPsec security associations, such as using DR on a Sun Fire E25K system.

This procedure needs to be repeated only when a large number of new SMF manifests are imported during the boot.

Solaris Product Registry Administration Utility Fails to Launch in a Zone (6220284)

If you attempt to launch the Solaris Product Registry administration utility in a zone, the attempt fails. During the zone installation, productregistry, the Solaris Product Registry database, is not duplicated in the zone. Consequently, the utility cannot run in a zone.

**Workaround:** As superuser, copy the productregistry database to the zone.

```bash
# cp /var/sadm/install/productregistry zone_path/var/sadm/install/
```
In the previous command, `zone_path` is the path to the root directory of the zone that you created.

**Cannot Delete Existing Diskless Clients From the System (6205746)**

If you use the `smdiskless` command to delete a diskless client, the command fails. The diskless client is not removed from the system databases. The following error message is displayed:

Failing with error EXM_BMS.

**Workaround:** Unshare the `/export` partition before adding the client.

**Net Connect 3.1.1 Installation Fails (6197548)**

Installation of Net Connect 3.1.1 fails if you select the product at the beginning of a full Solaris 10 installation. This failure occurs when you are installing by using the Solaris 10 Operating System DVD. At the completion of the OS installation, the following error message is recorded in the Net Connect install log in `/var/sadm/install/logs/`:

Installation of SUNWSRSXP failed.
Error: pkgadd failed for SUNWSrspx
Install complete. Package: SUNWSrspx

**Workaround:** After the OS installation is completed, follow these steps:

1. Insert the Solaris 10 Operating System DVD or the Solaris 10 Software - CD 4.
2. Change to the directory of the Net Connect product.
3. Run the Net Connect installer.

**Note** – To download the latest version of the Sun Net Connect software and release notes, go to the Sun Net Connect portal at [https://srsnetconnect.sun.com](https://srsnetconnect.sun.com)

**SPARC: smosservice delete Command Does Not Successfully Remove All Directories (6192105)**

If you use the `smosservice delete` command to remove a diskless client service, the command does not successfully remove all the service directories.

**Workaround:** Follow these steps.

1. Make sure that no clients exist that use the service.
# unshare /export/exec/Solaris_10_sparc.all
# rm -rf /export/exec/Solaris_10_sparc.all
# rm -rf /export/exec/.copyofSolaris_10_sparc.all
# rm -rf /export/.copyofSolaris_10
# rm -rf /export/Solaris_10
# rm -rf /export/share
# rm -rf /export/root/templates/Solaris_10
# rm -rf /export/root/clone/Solaris_10
# rm -rf /tftpboot/inetboot.sun4u.Solaris_10

2. Remove the following entry from the /etc/bootparams file.

fs1-24 boottype:=os

**Note** – Remove this entry only if this file server does not provide functions or resources for any other services.

3. Remove the following entry from the /etc/dfs/dfstab file.

share -F nfs -o ro /export/exec/Solaris_8_sparc.all/usr

4. Modify the /var/sadm/system/admin/services/Solaris_10 file.
   
   - If the file server is not Solaris_10, delete the file.
   - If the file server is Solaris_10, remove all entries after the first three lines. The deleted lines indicate the service USR_PATH and SPOOLED ROOT packages in /export/root/templates/Solaris_10 and the supported platforms.

**patchadd Command Does Not Support Installing Patches From an NFS Server (6188748)**

If you use the patchadd command to install patches across the NFS from another system, the command fails. The following example shows a patchadd operation that failed and the error message that is displayed:

Validating patches...

Loading patches installed on the system...
[...]
Loading patches requested to install.
[...]
Checking patches that you specified for installation.
[...]
Approved patches will be installed in this order:
[...]
Checking local zones...
[...]
Summary for zones:
[...]
Patches that passed the dependency check:
[...]
Patching global zone
Adding patches...

Checking installed patches...
Verifying sufficient filesystem capacity (dry run method)...
Installing patch packages...

Patch Patch_ID has been successfully installed.
See /var/sadm/patch/Patch_ID/log for details
Patch packages installed:
SUNWroute
[...]

Adding patches...
The patch directory
/dev/.SUNW_patches_0111105334-1230284-00004de14dcb29c7
cannot be found on this system.
[...]
Patchadd is terminating.

Workaround: Manually copy all of the patches to be installed from the NFS server to the local system first. Then use the patchadd command to install the patches from the directory on the local system where the patches were copied.

\texttt{lucreate} Command Does Not Create RAID-1 Volumes (5106987)

If you use the \texttt{lucreate} command to create RAID-1 volumes (mirrors) that do not have device entries in the /dev/md directory, the command fails. You cannot mirror file systems with the \texttt{lucreate} command unless you first create the mirrors with Solaris Volume Manager software.

Workaround: Create the mirrored file systems with Solaris Volume Manager software, then create the new boot environment with the \texttt{lucreate} command.

For more information about the \texttt{lucreate} command, see the \texttt{lucreate(1M)} or Solaris 10 11/06 Installation Guide: Solaris Live Upgrade and Upgrade Planning.
For more information about how to create mirrored file systems with Solaris Volume Manager software, see Solaris Volume Manager Administration Guide.

**SPARC: Stopping the System by Using Keyboard Sequences Might Cause a System Panic (5061679)**

If you attempt to stop the system by pressing keyboard sequences such as Stop-A or L1-A, the system might panic. An error message similar to the following example is displayed:

```
panic[cpu2]/thread=2a100337d40: pcisch2 {pci@9,700000}:
consistent dma sync timeout
```

**Workaround:** Do not use keyboard sequences to force the system to enter OpenBoot PROM.

**Using the `ipfs` Command With `-W` Option Fails (5040248)**

The `ipfs` command saves and restores information about the state of the Network Address Translation (NAT) and packet-filtering state tables. This utility prevents network connections from being disrupted if the system reboots. If you issue the command with the `-W` option, `ipfs` fails to save the kernel state tables. The following error message is displayed:

```
state:SIOSTGET: Bad address
```

**Workaround:** None.

**kill -HUP Does Not Always Cause the Agent to Reread the snmpd.conf Configuration File (4988483)**

After modifying the contents of `snmpd.conf`, you can issue the command `kill -HUP snmp Process ID`. This command stops the `snmp` process. The command then sends a signal to the System Management Agent's master agent (`snmpd`) to reread `snmpd.conf` and implement the modifications that you introduced. The command might not always cause the master agent to reread the configuration file. Consequently, using the command might not always activate modifications in the configuration file.

Instead of using `kill -HUP`, restart the System Management Agent after adding modifications to `snmpd.conf`. Perform the following steps:

1. Become superuser.
2. Type the following command:
Solaris WBEM Services 2.5 Daemon Cannot Locate com.sun Application Programming Interface Providers (4619576)

The Solaris WBEM Services 2.5 daemon cannot locate providers that are written to the com.sun.wbem.provider interface or to the com.sun.wbem.provider20 interface. Even if you create a Solaris_ProviderPath instance for a provider that is written to these interfaces, the Solaris WBEM Services 2.5 daemon does not locate the provider.

Workaround: To enable the daemon to locate such a provider, stop and restart the Solaris WBEM Services 2.5 daemon.

# /etc/init.d/init.wbem stop
# /etc/init.d/init.wbem start

Note – If you use the javax API to develop your provider, you do not need to stop and restart the Solaris WBEM Services 2.5 daemon. The Solaris WBEM Services 2.5 daemon dynamically recognizes javax providers.

Some com.sun Application Programming Interface Method Invocations Fail Under XML/HTTP Transport Protocol (4497393, 4497399, 4497406, 4497411)

If you choose to use the com.sun application programming interface rather than the javax application programming interface to develop your WBEM software, only Common Information Model (CIM) remote method invocation (RMI) is fully supported. Other protocols, such as XML/HTTP, are not guaranteed to work completely with the com.sun application programming interface.

The following table lists examples of invocations that execute successfully under RMI but fail under XML/HTTP:

<table>
<thead>
<tr>
<th>Method Invocation</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIMClient.close()</td>
<td>NullPointerException</td>
</tr>
</tbody>
</table>
Method Invocation | Error Message
-----------------|----------------------
CIMClient.execQuery() | CIM_ERR_QUERY_LANGUAGE_NOT_SUPPORTED
CIMClient.getInstance() | CIM_ERR_FAILED
CIMClient.invokeMethod() | XMLERROR: ClassCastException

**Cannot Modify File-System Mount Properties With Solaris Management Console Mounts and Shares Tool (4466829)**

The Solaris Management Console Mounts and Shares tool cannot modify mount options on system-critical file systems such as root (/), /usr, and /var.

**Workaround:** Choose one of the following workarounds:

- Use the remount option with the mount command.

```
# mount -F file-system-type -o remount, 
additional-mount-options \
device-to-mount  mount-point
```

**Note** – Mount property modifications that are made by using the -remount option with the mount command are not persistent. In addition, all mount options that are not specified in the additional-mount-options portion of the previous command inherit the default values that are specified by the system. See the man page mount_ufs(1M) for more information.

- Edit the appropriate entry in the /etc/vfstab file to modify the file-system mount properties, then reboot the system.
This chapter describes issues specific to Sun midrange and high-end servers. Current Sun servers are part of the Sun Fire system family. Older servers are part of the Sun Enterprise system family.

Note – The Sun Validation Test Suite release notes are now a separate document and can be found at http://sun.com.

Note – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to Appendix A.

### Dynamic Reconfiguration on Sun Fire High-End Systems

This section describes major domain-side DR bugs on the following Sun Fire high-end systems that run the Solaris 10 software:

- Sun Fire 25K
- Sun Fire 20K
- Sun Fire 15K
- Sun Fire 12K

For information about DR bugs on Sun Management Services, see the SMS Release Notes for the SMS version that is running on your system.
Known Software and Hardware Bugs

The following software and hardware bugs apply to Sun Fire high-end systems.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the /rplboot directory.
2. Shut down NFS services.
   
   # sh /etc/init.d/nfs.server stop
3. Shut down Boot Server services.
   
   # sh /etc/init.d/boot.server stop
4. Perform the DR detach operation.
5. Restart NFS services.
   
   # sh /etc/init.d/nfs.server start
6. Restart Boot Server services.
   
   # sh /etc/init.d/boot.server start

Deleteboard Shows Leakage Error (4730142)

Warnings might be displayed when a DR command is executing on a system that is configured with the SunSwift PCI card, Option 1032. These warnings appear on domains that are running either the Solaris 8, Solaris 9, or Solaris 10 software. The following warning is an example:

Aug 12 12:27:41 machine genunix: WARNING: vmem_destroy('pcisch2_dvma'): leaked

These warnings are benign. The Direct Virtual Memory Access (DVMA) space is properly refreshed during the DR operation. No true kernel memory leak occurs.

Workaround: To prevent the warning from being displayed, add the following line to /etc/system:

set pcisch:pci_preserve_iommu_tsb=0
**GigaSwift Ethernet MMF Link Fails With CISCO 4003 Switch After DR Attach**

The link fails between a system with a Sun GigaSwift Ethernet MMF Option X1151A and certain CISCO switches. The failure occurs when you attempt to run a DR operation on such a system that is attached to one of the following switches:

- CISCO WS-c5500 switch (f/w: WS-C5500 Software, Version McpSW: 4.2(1) and NmpSW: 4.2(1))

This problem is not seen on a CISCO 6509 switch.

**Workaround:** Use another switch. Alternatively, you can consult Cisco for a patch for the listed switches.

---

**Dynamic Reconfiguration on Sun Fire Midrange Systems**

This section describes major issues that are related to DR on the following Sun Fire midrange systems:

- Sun Fire E6900
- Sun Fire E4900
- Sun Fire E6800
- Sun Fire E4810
- Sun Fire E4800
- Sun Fire E3800

---

**Minimum System Controller Firmware**

Table 4–1 shows acceptable combinations of Solaris software and System Controller (SC) firmware for each Sun Fire midrange system to run DR.

**Note** – To best utilize the latest firmware features and bug fixes, run the most recent SC firmware on your Sun Fire midrange system. For the latest patch information, see http://sunsolve.sun.com
TABLE 4–1 Minimum SC Firmware for Each Platform and Solaris Release

<table>
<thead>
<tr>
<th>Platform</th>
<th>Solaris Release</th>
<th>Minimum SC Firmware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sun Fire E6900/E4900 with</td>
<td>Solaris 10 3/05 HW1 (a limited release) or Solaris 10 1/06</td>
<td>5.19.0</td>
</tr>
<tr>
<td>UltraSPARC IV+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E6900/E4900 without UltraSPARC</td>
<td>Solaris 9 4/04</td>
<td>5.16.0</td>
</tr>
<tr>
<td>IV+</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sun Fire 6800/4810/4800/3800</td>
<td>Solaris 9 4/04</td>
<td>5.16.0</td>
</tr>
<tr>
<td>Sun Fire 6800/4810/4800/3800</td>
<td>Solaris 9</td>
<td>5.13.0</td>
</tr>
</tbody>
</table>

You can upgrade the system firmware for your Sun Fire midrange system by connecting to an FTP or HTTP server where the firmware images are stored. For more information, refer to the README and Install.info files. These files are included in the firmware releases that are running on your domains. You can download Sun patches from http://sunsolve.sun.com.

**Known DR Software Bugs**

This section lists important DR bugs.

**Network Device Removal Fails When a Program Is Holding the Device Open (5054195)**

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

**Workaround:** As superuser, perform the following steps:

1. Remove or rename the /rplboot directory.
2. Shut down NFS services.
   
   ```sh
   # sh /etc/init.d/nfs.server stop
   ```
3. Shut down Boot Server services.
   
   ```sh
   # sh /etc/init.d/boot.server stop
   ```
4. Perform the DR detach operation.
5. Restart NFS services.
   
   ```sh
   # sh /etc/init.d/nfs.server start
   ```
6. Restart Boot Server services.
   
   ```sh
   # sh /etc/init.d/boot.server start
   ```
Cannot Unconfigure cPCI Board With a Disabled Port 0 (4798990)

On Sun Fire midrange systems, a CompactPCI (cPCI) I/O board cannot be unconfigured when Port 0 (P0) on that board is disabled. This problem exists in Solaris 10 and Solaris 9 software. It also exists in Solaris 8 software that has one or more of the following patches installed:

- Patch ID 108528–11 through 108528–29
- Patch ID 111372–02 through 111372–04

The error also occurs only during DR operations that involve cPCI boards. An error message similar to the following example is displayed:

```
# cfgadm -c unconfigure NO.IB7
cfgadm: Hardware specific failure: unconfigure NO.IB7: Device busy:/ssm@0,0/pci@1b,700000/pci@1
```

NO.IB7 is a CompactPCI I/O Board with P0 disabled.

**Workaround:** Disable the slots instead of Port 0.

Sun Enterprise 10000 Release Notes

This section describes issues that involve the following features on the Sun Enterprise 10000 server:

- System Service Processor requirement
- Dynamic reconfiguration (DR)
- InterDomain Networks (IDNs)
- Solaris Operating System on Sun Enterprise 10000 domains

**Note** – The Solaris 10 software can be run on individual domains within a Sun Enterprise 10000 system. However, the Sun Enterprise 10000 System Service Processor is not supported by this release.

System Service Processor Requirement

The SSP 3.5 software is required on your System Service Processor (SSP) to support the Solaris 10 software. Install the SSP 3.5 on your SSP first. Then you can install or upgrade to the Solaris 10 OS on a Sun Enterprise 10000 domain.

The SSP 3.5 software is also required so that the domain can be properly configured for DR Model 3.0.
Dynamic Reconfiguration Issues

This section describes different issues that involve dynamic reconfiguration on Sun Enterprise 10000 domains.

DR Model 3.0

You must use DR 3.0 on Sun Enterprise 10000 domains that run the Solaris OS beginning with the Solaris 9 12/03 release. DR model 3.0 refers to the functionality that uses the following commands on the SSP to perform domain DR operations:

- addboard
- moveboard
- deleteboard
- showdevices
- rcfadm

You can run the rcfadm command on domains to obtain board status information. DR model 3.0 also interfaces with the Reconfiguration Coordination Manager (RCM) to coordinate the DR operations with other applications that are running on a domain.

For details about DR model 3.0, refer to the Sun Enterprise 10000 Dynamic Reconfiguration User Guide.

DR and Bound User Processes

For this Solaris release, DR no longer automatically unbinds user processes from CPUs that are being detached. You must perform this operation before initiating a detach sequence. The drain operation fails if CPUs are found with bound processes.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the /rp1boot directory.
2. Shut down NFS services.
   
   # sh /etc/init.d/nfs.server stop
3. Shut down Boot Server services.
   
   # sh /etc/init.d/boot.server stop
4. Perform the DR detach operation.
5. Restart NFS services.

    # sh /etc/init.d/nfs.server start

6. Restart Boot Server services.

    # sh /etc/init.d/boot.server start

**Enabling DR 3.0 Requires an Extra Step in Certain Situations (4507010)**

The SSP 3.5 software is required for a domain to be properly configured for DR 3.0. After upgrading your SSP to SSP 3.5, when DR 3.0 is enabled on the domain, run the following command:

    # devfsadm -i ngdr

**InterDomain Networks**

For a domain to become part of an InterDomain Network, all boards with active memory in that domain must have at least one active CPU.

**OpenBoot PROM Variables**

Before you issue the `boot net` command from the OpenBoot PROM prompt (`OK`), verify that the `local-mac-address?` variable is set to `false`. This setting is the factory default setting. If the variable is set to `true`, you must ensure that this value is an appropriate local configuration.

---

**Caution** – A `local-mac-address?` that is set to `true` might prevent the domain from successfully booting over the network.

---

In a `net con` window, you can use the following command at the OpenBoot PROM prompt to display the values of the OpenBoot PROM variables:

`OK printenv`

To reset the `local-mac-address?` variable to the default setting, use the `setenv` command:

`OK setenv local-mac-address? false`
Dynamic Reconfiguration on Sun Enterprise Midrange Systems

This section contains the latest information about dynamic reconfiguration (DR) functionality for the following midrange servers that are running the Solaris 10 software:

■ Sun Enterprise 6x00
■ Sun Enterprise 5x00
■ Sun Enterprise 4x00
■ Sun Enterprise 3x00

For more information about Sun Enterprise Server Dynamic Reconfiguration, refer to the Dynamic Reconfiguration User’s Guide for Sun Enterprise 3x00/4x00/5x00/6x00 Systems. The Solaris 10 release includes support for all CPU/memory boards and most I/O boards in the systems that are mentioned in the preceding list.

Supported Hardware

Before proceeding, make sure that the system supports dynamic reconfiguration. If your system is of an older design, the following message appears on your console or in your console logs. Such a system is not suitable for dynamic reconfiguration.

Hot Plug not supported in this system

The following I/O boards are not currently supported:

■ Type 2 (graphics)
■ Type 3 (PCI)
■ Type 5 (graphics and SOC+)

Software Notes

This section provides general software information about DR.

Enabling Dynamic Reconfiguration

To enable dynamic reconfiguration, you must set two variables in the /etc/system file. You must also set an additional variable to enable the removal of CPU/memory boards. Perform the following steps:

1. Log in as superuser.
2. Edit the /etc/system file by adding the following lines:

   set pln:pln_enable_detach_suspend=1
   set soc:soc_enable_detach_suspend=1
3. To enable the removal of a CPU/memory board, add this line to the file:

   ```
   set kernel_cage_enable=1
   ```

   Setting this variable enables the memory unconfiguration operation.

4. Reboot the system to apply the changes.

**Quiesce Test**

You start the quiesce test with the following command:

```bash
# cfgadm -x quiesce-test sysctl0:slot number
```

On a large system, the quiesce test might run for up to a minute. During this time no messages are displayed if `cfgadm` does not find incompatible drivers.

**Disabled Board List**

Attempting to connect a board that is on the disabled board list might produce an error message:

```bash
# cfgadm -c connect sysctl0:slot number
```

To override the disabled condition, two options are available:

- Using the force flag (`-f`)

  ```bash
  # cfgadm -f -c connect sysctl0:slot number
  ```

- Using the enable option (`-o enable-at-boot`)

  ```bash
  # cfgadm -o enable-at-boot -c connect sysctl0:slot number
  ```

To remove all boards from the disabled board list, choose one of two options depending on the prompt from which you issue the command:

- From the superuser prompt, type:

  ```bash
  # eeprom disabled-board-list=
  ```
From the OpenBoot PROM prompt, type:

```
OK set-default disabled-board-list
```

For further information about the `disabled-board-list` setting, refer to the “Specific NVRAM Variables” section in the *Platform Notes: Sun Enterprise 3x00, 4x00, 5x00, and 6x00 Systems* manual. This manual is part of the documentation set in this release.

## Disabled Memory List

Information about the OpenBoot PROM `disabled-memory-list` setting is published in this release. See “Specific NVRAM Variables” in the *Platform Notes: Sun Enterprise 3x00, 4x00, 5x00, and 6x00 Systems* in the Solaris on Sun Hardware documentation.

## Unloading Detach-Unsafe Drivers

If you need to unload detach-unsafe drivers, use the `modinfo` line command to find the module IDs of the drivers. You can then use the module IDs in the `modunload` command to unload detach-unsafe drivers.

## Self-Test Failure During a Connect Sequence

Remove the board from the system as soon as possible if the following error message is displayed during a DR connect sequence:

```
cfgadm: Hardware specific failure: connect failed: firmware operation error
```

The board has failed self-test, and removing the board avoids possible reconfiguration errors that can occur during the next reboot.

The failed self-test status does not allow further operations. Therefore, if you want to retry the failed operation immediately, you must first remove and then reinsert the board.

## Known Bugs

The following list is subject to change at any time.

### Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

**Workaround:** As superuser, perform the following steps:

1. Remove or rename the `/rplboot` directory.
2. Shut down NFS services.
   
   ```bash
   # sh /etc/init.d/nfs.server stop
   ```

3. Shut down Boot Server services.
   
   ```bash
   # sh /etc/init.d/boot.server stop
   ```

4. Perform the DR detach operation.

5. Restart NFS services.
   
   ```bash
   # sh /etc/init.d/nfs.server start
   ```

6. Restart Boot Server services.
   
   ```bash
   # sh /etc/init.d/boot.server start
   ```

---

**Memory Interleaving Set Incorrectly After a Fatal Reset (4156075)**

Memory interleaving is left in an incorrect state when a Sun Enterprise5 x500 server is rebooted after a fatal reset. Subsequent DR operations fail. The problem only occurs on systems with memory interleaving set to `min`.

**Workaround:** Choose one of the following options:

- To clear the problem, manually reset the system at the OK prompt.
- To avoid the problem, set the NVRAM `memory-interleave` property to `max`.

The second option causes memory to be interleaved whenever the system is booted. However, this option might be unacceptable because a memory board that contains interleaved memory cannot be dynamically unconfigured. See “Cannot Unconfigure a CPU/Memory Board That Has Interleaved Memory (4210234)” on page 115.

---

**Cannot Unconfigure a CPU/Memory Board That Has Interleaved Memory (4210234)**

To unconfigure and subsequently disconnect a CPU board with memory or a memory-only board, first unconfigure the memory. However, if the memory on the board is interleaved with memory on other boards, the memory cannot currently be unconfigured dynamically.

Memory interleaving can be displayed by using the `prt diag` or the `cfgadm` commands.

**Workaround:** Shut down the system before servicing the board, then reboot afterward. To permit future DR operations on the CPU/memory board, set the NVRAM `memory-interleave` property to `min`. See also “Memory Interleaving Set Incorrectly After a Fatal Reset (4156075)” on page 115 for a related discussion about interleaved memory.
Cannot Unconfigure a CPU/Memory Board That Has Permanent Memory (4210280)

To unconfigure and subsequently disconnect a CPU board with memory or a memory-only board, first unconfigure the memory. However, some memory cannot currently be relocated. This memory is considered permanent.

Permanent memory on a board is marked "permanent" in the `cfgadm` status display:

```
# cfgadm -s cols=ap_id:type:info
Ap_Id Type Information
ac0:bank0 memory slot3 64Mb base 0x0 permanent
ac0:bank1 memory slot3 empty
ac1:bank0 memory slot5 empty
ac1:bank1 memory slot5 64Mb base 0x40000000
```

In this example, the board in slot3 has permanent memory and so cannot be removed.

**Workaround:** Shut down the system before servicing the board, then reboot afterward.

cfgadm Disconnect Fails When Running Concurrent cfgadm Commands (4220105)

If a `cfgadm` process is running on one board, an attempt to simultaneously disconnect a second board fails. The following error message is displayed:

```
cfgadm: Hardware specific failure:
disconnect failed: nexus error during detach:<address>
```

**Workaround:** Run only one `cfgadm` operation at a time. Allow a `cfgadm` operation that is running on one board to finish before you start a `cfgadm` disconnect operation on a second board.
This chapter lists end-of-software support statements.

Note – The Solaris 10 OS media kit contains not only the Solaris 10 OS software, but also an extensive set of bonus software. The information provided on http://www.sun.com/service/serviceplans/solaris/10/ lists the components of the Solaris 10 OS media kit. It also shows the support provided for these components under the SunSpectrum program and Sun Software Support contracts.

Features That Might Be Removed in a Future Release

The following features might not be supported in a future release of the Solaris software.

Gnopernicus

Gnopernicus, the Java DS Screen Reader might not be available in a future Solaris release. Users should use the Orca Screen Reader instead.

Xsun Server

The Xsun server for the X Window System might not be available in a future Solaris release. Users should migrate to the Xorg server.

Features such as Display Postscript (DPS) and X Image Extension (XIE) that are available in Xsun but not in Xorg might no longer be included.
Features That Might Be Removed in a Future Release

Mobile IP
Mobile IPv4, the feature described in the mipagent(1M) man page, might not be included in a future Solaris release.

Common Desktop Environment
The Common Desktop Environment (CDE) might not be available in a future Solaris release. Users should migrate to the Java Desktop System.

CDE Image Viewer
CDE’s Image Viewer sdtimage might not be available in a future Solaris release. Users should migrate to GNOME Open gnome-open, to open image files.

Sun Java System Calendar Server Client Applet
The Sun Java System Calendar Server client applet, now applet, might not be available in a future Solaris release.

DARPA Trivial Name Server
The DARPA trivial name server, in.named(1M), might not be available in a future Solaris release. The Internet domain name server named(1M) provides similar functionality.

I2O Intelligent I/O
The I2O intelligent I/O driver framework and all corresponding drivers might not be supported in a future Solaris release. This includes the i2o_bs(7D), and i2o_scsi(7D) drivers and all I2O related functionality.

GNOME Viewer for PDF and PostScript Files
The GNOME viewer for PDF and PostScript™ files, might not be available in a future Solaris release. A replacement application is expected to enable viewing of PDF and PostScript files.

The Graphical Smartcard Admin Interface
The graphical Smartcard admin interface sdtsmartcardadmin(1M) may not be available in future Solaris releases. The same functionality is available in the smartcard(1M) command.
iButton Smartcard

The Dallas Semiconductor iButton Java Card Smartcard and OpenCard Framework (OCF) terminal driver, as described in ocf_ibutton(7d) might not be supported in future Solaris releases. Users should migrate to other Smartcard devices that are supported by libpcsclite(3lib).

Cyberflex Smartcard

The Cyberflex Smartcard might not be supported by the pam_smartcard(5) and smartcard(1m) commands in future Solaris releases. Users should migrate to other Smartcard devices and cards that are supported by libpcsclite(3lib).

PAM Smartcard

The PAM Smartcard module pam_smartcard(5) might not be available in future Solaris releases.

OCF/SCF Smartcard Framework

The OCF/SCF Smartcard framework may not be available in a future Solaris releases. The functionality of ocfserv(1M) will be provided by pcscd(1M). The card provisioning functionality of smartcard(1M) will be provided by muscletool(1M). The driver configuration functionality provided by smartcard(1M) is generally not necessary with pcscd(1M), however, when required system administrators can edit the reader.conf(4) file.

SCF Smartcard APIs

The SmartCard Framework (SCF) interfaces exported by libsmartcard and smartcard.jar may not be available in future Solaris releases. These interfaces are now obsolete. New C applications should be written to use the PS/SC interfaces exported from libpcsclite(3lib). There is no planned replacement for the SCF Java interfaces at this time.

Remote Program Load Server Functionality

The Remote Program Load (RPL) server functionality available through rpld(1M) and rpld.conf(4) may not be available in a future release of Solaris.
Transition From ipge to e1000g NIC Driver as the Default Ethernet Driver for Sun4V Systems

The ipge driver and all its SUNWipge packages for Sun4V systems might not be available with a future release of Solaris. Starting with the Solaris 10 7/07 HW release, Ontario and other SPARC based platforms transition from ipge to e1000g drivers. The e1000g driver will be the default Ethernet driver for all Sun platforms that use Intel 1G chipsets.

Solstice Enterprise Agents Support

The following Solstice Enterprise Agents™ (SEA) agents, libraries, and packages might not be supported in a future Solaris release:

- SEA-based SNMP master agent and sub agents
- libssagent and libssasnmp libraries
- SUNWsacom, SUNWsasnm, SUNWmibii packages

The System Management Agent (SMA) provides similar functionality for the aforementioned sources.

Mozilla 1.X Support

The Mozilla™ 1.X software might not be supported in a future Solaris release. Equivalent software is expected to be available in a future release.

Standard Type Services Framework Support

Standard Type Service Framwork (STSF) might not be available in a future Solaris release.

This includes the following:

- libST and libXst libraries
- xstls command
- stfsloader service
- XST extension to Xsun and Xorg servers

You can find this functionality in one of the following alternative sources:

- libX11
- libXft2
**SPARC: jfca Driver Support**

The JNI Fibre Channel Adapter (jfca) driver might not be available in a future Solaris release.

For more information, see the jfca(7D) man page.

**zić -s Option Support**

The -s option in the zić command might not be available in a future Solaris release.

For more information, see the zić(1M) man page.

**Removable Volume Management Support**

The volume management daemon (vold), volume management file system (volfs), and the associated volume management commands might not be included in a future Solaris release.

Automatic mounting and unmounting of removable media will continue to be supported.

For more information, see the vold(1M) and volfs(7FS) man pages.

**64-bit SPARC: Dual Basic Rate ISDN Interface and Multimedia Codec Chips**

T5900FC Dual Basic Rate ISDN Interface (DBRI) and associated multimedia codec chips might not be supported in a future Solaris release. In addition, device drivers written for these devices might not be supported.

**SPARC: Certain Drivers Might Not be Supported in a Future Solaris Release**

The following drivers might not be supported in a future Solaris release:

- SUNWrvc: Device driver for the SunVideo™ real-time video capture and compression card
- SUNWdial: Streams module for the Dials and Buttons devices
- SUNWdialh: Header files for the Dials and Buttons devices
Automated Security Enhancement Tool Support

The checksum functionality provided by Automated Security Enhancement Tool (ASET) in the /usr/aset directory might not be available in a future Solaris release.

You can find this functionality in one of the following alternative sources:

- The basic audit reporting tool, bart, in Solaris 10 OS
- The Solaris Fingerprint Database found at http://sunsolve.sun.com/pub-cgi/show.pl?target=content/content7

Asian Short dtlogin Names

The following Asian short locale names might not be listed in the dtlogin language list in a future release:

- zh
- ko
- zh_TW

Beginning with Solaris 8 release, new ISO-standard locale names have been provided, including the following locale names:

- zh_CN.EUC
- zh_CN.GBK
- zh_CN.UTF-8
- ko_KR.EUC
- ko_KR.UTF-8
- zh_TW.EUC

Audit Daemon Interfaces

The following interfaces that are used by the Solaris audit daemon might not be supported in a future release:

- auditsvc(2)
- audit_data(4)

Cfront Runtime Support Library

The library libc.so.3 is the runtime support library for programs that are compiled by the Cfront C++ compiler C++ 3.0. Neither the compiler nor programs that are created by the compiler run on Solaris 10 OS. The library might not be supported in a future release of Solaris.
Configuration Assistant's fp Plug-in Hardware Options

The following options of the configuration administration's (cfgadm) fp plug-in might not be supported in a future Solaris release:

- show_FCP_dev
- unusable_FCP_dev

Device Allocation Interfaces For the Basic Security Module

The following components of the device allocation mechanism of the Basic Security Module might not be included in a future release of the Solaris software:

- mkdevalloc(1M)
- mkdevmaps(1M)
- /etc/security/dev

Obsolete Device Driver Interfaces

Some device driver interfaces (DDI) might not be supported in a future release.

The following table lists the DDI interfaces that might not be supported, along with the preferred DDI interface alternatives.

<table>
<thead>
<tr>
<th>Obsolete Interface</th>
<th>Preferred Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmap</td>
<td>devmap</td>
</tr>
<tr>
<td>identify</td>
<td>set to nulldev</td>
</tr>
<tr>
<td>copyin</td>
<td>ddi_copyin</td>
</tr>
<tr>
<td>copyout</td>
<td>ddi_copyout</td>
</tr>
<tr>
<td>ddi_dma_addr_setup</td>
<td>ddi_dma_addr_bind_handle</td>
</tr>
<tr>
<td>ddi_dma_mem_setup(9F)</td>
<td>ddi_dma_mem_bind_handle</td>
</tr>
<tr>
<td>ddi_dma_curwin</td>
<td>ddi_dma_getwin</td>
</tr>
<tr>
<td>ddi_dma_free</td>
<td>ddi_dma_free_handle</td>
</tr>
<tr>
<td>ddi_dma_htoc</td>
<td>ddi_dma_addr[buf].bind-handle</td>
</tr>
<tr>
<td>ddi_dma_movwin</td>
<td>ddi_dma_getwin</td>
</tr>
</tbody>
</table>
Features That Might Be Removed in a Future Release

<table>
<thead>
<tr>
<th>Obsolete Interface</th>
<th>Preferred Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>ddi_dma_nextseg</td>
<td>ddi_dma_nextcookie</td>
</tr>
<tr>
<td>ddi_dma_nextwin</td>
<td>ddi_dma_nextcookie</td>
</tr>
<tr>
<td>ddi_dma_segtocookie</td>
<td>ddi_dma_nextcookie</td>
</tr>
<tr>
<td>ddi_dma_setup</td>
<td>ddi_dma_*_handle</td>
</tr>
<tr>
<td>ddi_dmae_getlim</td>
<td>ddi_dmae_getattr</td>
</tr>
<tr>
<td>ddi_getlongprop</td>
<td>ddi_prop_lookup</td>
</tr>
<tr>
<td>ddi_getlongprop_buf</td>
<td>ddi_prop_lookup</td>
</tr>
<tr>
<td>ddi_getprop</td>
<td>ddi_prop_get_in</td>
</tr>
<tr>
<td>ddi_getproplen</td>
<td>ddi_prop_lookup</td>
</tr>
<tr>
<td>ddi_iopb_alloc</td>
<td>ddi_dma_mem_alloc</td>
</tr>
<tr>
<td>ddi_iopb_free</td>
<td>ddi_dma_mem_free</td>
</tr>
<tr>
<td>ddi_mem_alloc</td>
<td>ddi_dma_mem_alloc</td>
</tr>
<tr>
<td>ddi_mem_free</td>
<td>ddi_dma_mem_free</td>
</tr>
<tr>
<td>ddi_map_regs</td>
<td>ddi_regs_map_setup</td>
</tr>
<tr>
<td>ddi_prop_create</td>
<td>ddi_prop_update</td>
</tr>
<tr>
<td>ddi_prop_modify</td>
<td>ddi_prop_update</td>
</tr>
<tr>
<td>ddi_segmap</td>
<td>see devmap</td>
</tr>
<tr>
<td>ddi_segmap_setup</td>
<td>devmap_setup</td>
</tr>
<tr>
<td>ddi_unmap_regs</td>
<td>ddi_regs_map_free</td>
</tr>
<tr>
<td>free_pktiope</td>
<td>scsi_free_consistent_buf</td>
</tr>
<tr>
<td>get_pktiope</td>
<td>scsi_alloc_consistent_buf</td>
</tr>
<tr>
<td>makecom_g0</td>
<td>scsi_setup_cdb</td>
</tr>
<tr>
<td>makecom_g0_s</td>
<td>scsi_setup_cdb</td>
</tr>
<tr>
<td>makecom_g1</td>
<td>scsi_setup_cdb</td>
</tr>
<tr>
<td>makecom_g5</td>
<td>scsi_setup_cdb</td>
</tr>
<tr>
<td>scsi_dmafree</td>
<td>scsi_destroy_pkt</td>
</tr>
<tr>
<td>scsi_dmaget</td>
<td>scsi_init_pkt</td>
</tr>
<tr>
<td>scsi_pktalloc</td>
<td>scsi_init_pkt</td>
</tr>
</tbody>
</table>
Features That Might Be Removed in a Future Release

<table>
<thead>
<tr>
<th>Obsolete Interface</th>
<th>Preferred Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>scsi_pktfree</td>
<td>scsi_destroy_pkt</td>
</tr>
<tr>
<td>scsi_resalloc</td>
<td>scsi_init_pkt</td>
</tr>
<tr>
<td>scsi_resfree</td>
<td>scsi_destroy_pkt</td>
</tr>
<tr>
<td>scsi_slave</td>
<td>scsi_probe</td>
</tr>
<tr>
<td>scsi_unslave</td>
<td>scsi_unprobe</td>
</tr>
<tr>
<td>ddi.peek(a,b,c,l,d)</td>
<td>ddi.peek(a,b,c,l,d)</td>
</tr>
<tr>
<td>ddi.poke(a,b,c,l,d)</td>
<td>ddi.poke(a,b,c,l,d)</td>
</tr>
<tr>
<td>in(a,b,c,l)</td>
<td>ddi.get(a,b,c,l)</td>
</tr>
<tr>
<td>out(a,b,c,l)</td>
<td>ddi.put(a,b,c,l)</td>
</tr>
<tr>
<td>repins(a,b,c,l)</td>
<td>ddi_rep_get(a,b,c,l)</td>
</tr>
<tr>
<td>repouts(a,b,c,l)</td>
<td>ddi_rep_put(a,b,c,l)</td>
</tr>
</tbody>
</table>

**Device Management Entries in** `power.conf`

The Device Management entries in the `power.conf` file might not be supported in a future release. Similar capability is provided by the Automatic Device Power Management entries in the Solaris 10 software.

For more information, see the `power.conf(4)` man page.

**Device Support and Driver Software**

The following table lists devices and driver software that might not be supported in a future release.

**TABLE 5–1** Device and Driver Software

<table>
<thead>
<tr>
<th>Name of Physical Device</th>
<th>Name of Driver</th>
<th>Type of Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI MegaRAID host bus adapter, first generation</td>
<td>mega</td>
<td>SCSI RAID</td>
</tr>
<tr>
<td>Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI</td>
<td>cpqncr</td>
<td>SCSI HBA</td>
</tr>
<tr>
<td>Compaq SMART-2/P Array Controller and Compaq SMART-2SL Array Controller</td>
<td>smartii</td>
<td>SCSI RAID controller</td>
</tr>
</tbody>
</table>
Form and Menu Language Interpreter

The Form and Menu Language Interpreter (FMLI) commands are obsolete and might not be supported in a future Solaris release. The obsolete commands include the following:

- /usr/bin/fmli
- /usr/bin/vsig

Host Files in /etc/net/ti*

The host files in /etc/net/ti* are no longer consulted in the Solaris Operating System, though these files remain in the Solaris software. In a future Solaris release, these host files might be entirely removed.

Java 2 Platform, Standard Edition 1.4

Java 2 Platform, Standard Edition (J2SE Platform) 1.4 might not be included in a future Solaris release. J2SE 5.0 software, the default Java version in the Solaris 10 OS, is a compatible replacement for J2SE 1.4 technology.

Kerberos Ticket Lifetime Parameters in krb5.conf

The Kerberos Ticket Lifetime parameters, max_life and max_renewable_life, might no longer be supported in a future release of the Solaris OS. These parameters are in the appdefaults section of the /etc/krb5/krb5.conf file. Instead of these parameters, use max_lifetime and renew_lifetime in the libdefaults section of /etc/krb5/krb5.conf.

Korean CID Fonts

Korean CID fonts will not be supported in a future release. You can use the Korean TrueType fonts that are included in the Solaris software as a replacement for Korean CID fonts.

Legacy or Traditional Non-UTF-8 Locales

Sun is adopting Unicode for character encoding. Therefore, except for zh_CN.GB18030 and C locales, non-UTF-8 locales might be removed as the Java Desktop System login locale in a future Solaris release.
**Functions in the CPU Performance Counters Library (libcpc)**

Hardware performance counters enable the measurement of many different hardware events that are related to CPU behavior. The following functions in the CPU Performance Counters library (libcpc) might not be supported in a future Solaris OS release:

<table>
<thead>
<tr>
<th>libcpc Function</th>
<th>libcpc Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>cpc_access</td>
<td>cpc_bind_event</td>
</tr>
<tr>
<td>cpc_count_sys_events</td>
<td>cpc_count_usr_events</td>
</tr>
<tr>
<td>cpc_event_accum</td>
<td>cpc_event_diff</td>
</tr>
<tr>
<td>cpc_eventtostr</td>
<td>cpc_getcciname</td>
</tr>
<tr>
<td>cpc_getcpuver</td>
<td>cpc_getusage</td>
</tr>
<tr>
<td>cpc_getntrip</td>
<td></td>
</tr>
<tr>
<td>cpc_pctx_bind_event</td>
<td>cpc_pctx_invalidate</td>
</tr>
<tr>
<td>cpc_pctx_rele</td>
<td>cpc_pctx_take_sample</td>
</tr>
<tr>
<td>cpc_rele</td>
<td>cpc_seterrfn</td>
</tr>
<tr>
<td>cpc_shared_bind_event</td>
<td>cpc_shared_close</td>
</tr>
<tr>
<td>cpc_shared_open</td>
<td>cpc_shared_rele</td>
</tr>
<tr>
<td>cpc_shared_take_sample</td>
<td>cpc_strtoevent</td>
</tr>
<tr>
<td>cpc_take_sample</td>
<td>cpc_version</td>
</tr>
<tr>
<td>cpc_walk_names</td>
<td></td>
</tr>
</tbody>
</table>

New functions have been added to the library in Solaris 10 OS. Developers who have code that utilizes the interfaces in the preceding list should instead use the following corresponding new functions:

<table>
<thead>
<tr>
<th>libcpc Function</th>
<th>libcpc Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>cpc_open</td>
<td>cpc_close</td>
</tr>
<tr>
<td>cpc_set_create</td>
<td>cpc_set_destroy</td>
</tr>
<tr>
<td>cpc_set_add_request</td>
<td>cpc_set_request_preset</td>
</tr>
<tr>
<td>cpc_buf_create</td>
<td>cpc_buf_destroy</td>
</tr>
<tr>
<td>cpc_bind_curlwp</td>
<td>cpc_bind_pctx</td>
</tr>
<tr>
<td>cpc_bind_cpu</td>
<td>cpc_unbind</td>
</tr>
</tbody>
</table>
libXinput Library

The libXinput.so.0 library might not be provided in a future release of the Solaris software. The libXinput.so.0 library was provided for backward compatibility with X11R4 applications that were built by using the draft standard X Input API of Solaris 2.1 and Solaris 2.2. The X11 standard X Input Extension library, libXi, was integrated in Solaris 2.3.

All applications that rely on the libXi API should be built by using the libXi shared library for future compatibility and standards conformance.

Network Information Service Plus (NIS+) Name Service Type

NIS+ might not be supported in a future release. Tools to aid in the migration from NIS+ to LDAP are available in the Solaris 9 software. For more information, visit http://www.sun.com/directory/nisplus/transition.html

nstest Test Program

The nstest is an interactive DNS test program to construct and send DNS queries. This program might no longer be supported in a future Solaris OS release. The same functionality that is provided by this test program is available by using the dig and nslookup commands.
Perl Version 5.6.1

Perl version 5.6.1 might not be supported in a future Solaris OS release. Perl version 5.8.4, the default version in the Solaris 10 OS, is not binary compatible with Perl version 5.6.1. However, the earlier version is still retained in this Solaris release. Customized modules that are installed by the customer must be rebuilt and reinstalled to use Perl version 5.8.4. Modify any scripts that require the use of version 5.6.1 to specifically use version 5.6.1 of the interpreter instead of version 5.8.4. The interpreters of the respective Perl versions are located in the following directories:

Perl 5.6.1 /usr/perl5/5.6.1/bin/perl
Perl 5.8.4 /bin/perl, /usr/bin/perl, or /usr/perl5/bin/perl

Solaris Management Console Patch Tool (Patch Manager)

The Solaris Management Console patch tool, Patch Manager, might not be available in a future release.

Solstice Enterprise Agents

Solstice Enterprise Agents might not be supported in a future release.

Standalone Router Discovery

The /usr/sbin/in.rdisc implementation of the IPv4 ICMP Router Discovery protocol might not be supported in a future release of the Solaris software. A near-equivalent version of this protocol, which is implemented as a component of /usr/sbin/in.routed, supports an enhanced administrative interface. The /usr/sbin/in.routed component supports the implementation of Routing Information Protocol (RIP) version 2. The /usr/sbin/in.routed component also has the ability to distinguish Mobile IP advertisements from Router Discovery messages.

Sun Fire Link Interfaces

The Sun Fire Link Interfaces might no longer be supported in a future Solaris release.
Sun Java Desktop System Applications

The following applications in the Java DS, Release 3, might be removed from a future release.

- Sun Java Calendar Preview
- GNOME Keyboard Layout Switcher
- Java DS Diagram Editor
- Java DS Java Text Editor
- Java DS Java Dictionary
- Java DS Disk Analyzer
- Java DS Mr. Project

Token Ring and Fiber Distributed Data Interface Device Types

Support for token ring (DL_TPR) and Fiber Distributed Data Interface (FDDI) device types in generic LAN driver (GLD) might be removed in a future Solaris release. After the removal is implemented, drivers for token ring or FDDI that rely on this support in GLD cease to function. However, other drivers or applications that do not use this support are not affected. To test whether a driver relies on GLD, run the following script:

```bash
#!/bin/sh
#
# Test a driver binary for use of GLD
#
for file do
    /usr/ccs/bin/nm $file | /bin/awk '{
        if (/gld_register/)
            isgld=1;
    } END {
        if (isgld)
            print file, "uses GLD";
        else
            print file, "does not use GLD";
    }' file=$file
done
```

For more information about generic LAN driver, see the `gld(7)` man page as well as “Writing Device Drivers”.
WBEM-based Dynamic Reconfiguration

The feature known as WDR - Web-Based Enterprise Management Dynamic Reconfiguration - might not be supported in a future release of the Solaris Operating System. WDR is currently supported on Sun Fire midrange and high-end systems.

XIL Interface

The XIL™ interface might not be supported in a future release. An application that uses XIL causes the following warning message to be displayed:

```
WARNING: XIL OBSOLESCENCE
This application uses the Solaris XIL interface which has been declared obsolete and may not be present in version of Solaris beyond Solaris 9. Please notify your application supplier.
The message can be suppressed by setting the environment variable "_XIL_SUPPRESS_OBSOLETE_MSG.
```

xetops Utility

The xetops utility might not be supported in a future release. The xetops utility converts an Asian text file to a PostScript file. This conversion enables Asian characters to be printed on PostScript printers that do not have resident Asian fonts.

Similar capability is provided in the mp command, which has been enhanced to support all of the native Asian encodings with more options and functionality.
Documentation Issues

This chapter describes known issues that are related to documentation.

System Administration Guide: Naming and Directory Services (NIS+)

Starting with the Solaris 10 7/07 HW release, the Solaris OS does not have two separate hosts files. The /etc/inet/hosts file is now a single hosts file that contains both IPv4 and IPv6 entries. You need not maintain IPv4 entries in two hosts files that always require synchronization. For backward compatibility, the /etc/inet/ipnodes file is replaced with a symbolic link of the same name to the /etc/inet/hosts file. For more information, see the hosts(4) man page. NIS clients and servers can communicate using either IPv4 or IPv6 RPC transports.

Discontinuation of Swedish Documentation

Starting with the Solaris 10 7/07 HW release, documents will not be translated into Swedish. For all the latest information, see the English documents on http://docs.sun.com/.

Application Server Documentation Refers to Derby Database Instead of Java DB

Application Server documentation refers to the Java DB database as “Derby.” Replace all references to “Derby” with Java DB. The database is installed to /usr/appserver/javadb.
Documents on the Software Supplement CD

Beginning with Solaris 10 Operating System, the Supplement CD no longer exists. The documents that were formerly supplied on the Supplement CD can now be found at http://docs.sun.com. The rest of the CD’s contents reside elsewhere in the Solaris kit or on Sun Microsystems’ web site.

System Administration Guide: Basic Administration

This section describes corrections to specific chapters in the System Administration Guide: Basic Administration.

Note – Beginning with the Solaris 10 1/06 release, this section no longer applies to the Solaris documentation.

Managing Diskless Clients (Tasks)

In Step 4 of “How to Add a Diskless Client,” the command to verify whether a diskless client has been added should read as follows:

4. Verify that the diskless clients were installed.

# /usr/sadm/bin/smdiskless list -H host-name:898 --

Solaris 10 Start Here and Solaris 10 Installation Guides

Note – Beginning with the Solaris 10 1/06 release, this section no longer applies to the Solaris documentation.

The Solaris 10 Start Here and Solaris 10 Installation Guides incorrectly indicate that Sun Java Enterprise System is installed by default in the Solaris 10 release. To install Sun Java Enterprise System with the Solaris 10 OS, you must perform a custom installation.

The following documents incorrectly state that Sun Java Enterprise System is installed by default during a Solaris 10 installation.
**Solaris 10 Installation Guide: Basic Installations**
- Planning for a Solaris Installation From CD or DVD Media (Tasks) — Checklist for Installation
- Installing With the Solaris Installation Program (Tasks)
  - Step 9 of SPARC: To Install or Upgrade With the Solaris Installation Program
  - Step 17 of x86: To Install or Upgrade With the Solaris Installation Program

**Solaris 10 Installation Guide: Network-Based Installations**
- Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software
- Gathering Information Before Installation or Upgrade (Planning)
  - Checklist for Installation
  - Checklist for Upgrading

**Solaris 10 Installation Guide: Solaris Live Upgrade and Upgrade Planning**
- Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software
- Gathering Information Before Installation or Upgrade (Planning) — Checklist for Upgrading

**Solaris 10 Installation Guide: Custom JumpStart and Advanced Installations**
See Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software.

**Solaris 10 Start Here**
See Install the Solaris 10 OS.
Solaris 10 Documentation and Man Pages

The company S2io has changed its name to Neterion. All references to S2io in the Solaris 10 documentation and man pages should read Neterion.
Table of Integrated Bug Fixes in the Solaris 10 Operating System

The tables in this appendix list bugs in these Release Notes that have been fixed in the Solaris 10 OS. For bugs that no longer apply to your Solaris 10 OS, refer to the table that corresponds to the specific release that you are using.

Note – The tables are only partial lists. Other fixed bugs in the operating system that were not previously documented in the Release Notes are excluded from these tables. For a complete list, refer to the Solaris 10 Operating System Patch List. The Patch List identifies bugs that have been fixed by specific patches that were applied to the current release. The list includes bugs that have not been documented in the Release Notes.

Fixed and Integrated Bugs

<table>
<thead>
<tr>
<th>CR Number</th>
<th>Title</th>
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<tbody>
<tr>
<td>6495454</td>
<td>Trusted Stripe Crashes When Users Change Roles</td>
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<tr>
<td>6481697</td>
<td>Auxiliary Window Fails to Open With Asian And Wnn Input Methods</td>
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<tr>
<td>6467756</td>
<td>Some Compose Key Inputs Do Not Work on GTK Applications</td>
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<tr>
<td>6463842</td>
<td>Japanese 106 keyboard Cannot Be Set Through kdmconfig</td>
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<tr>
<td>6444457, 6444791</td>
<td>Upgrade of System With Zones Installed Fails</td>
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<tr>
<td>6438372</td>
<td>Input Method Switcher Does Not Work in Trusted Java DS Environment</td>
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<tr>
<td>6429880</td>
<td>Deadkeys Not Working With GTK Applications on Xsun in EMEA UTF-8 Locales</td>
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<td>6421216</td>
<td>ufsrestore Does Not Use acl_set() For Setting ACLs</td>
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<td>Title</td>
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<tr>
<td>-----------</td>
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<tr>
<td>6414648</td>
<td>Overlapping Devices Might be Added to a ZFS Storage Pool</td>
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<tr>
<td>6397893</td>
<td>Creating a Solaris Flash Archive Fails When the End User Solaris Software Group is Installed</td>
</tr>
<tr>
<td>6388988</td>
<td>IIIMF Packages Might Not be Installed</td>
</tr>
<tr>
<td>6377106</td>
<td>Java Problem Prevents Accessibility Environment for Speech From Setting Up Correctly</td>
</tr>
<tr>
<td>6372197</td>
<td>After Installing the OS with a Solaris Flash Archive, Problem With Displaying Console</td>
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<tr>
<td>6371273</td>
<td>LUN Numbers Greater Than 256 Are Treated Differently by 2-Gbyte and 4-Gbyte QLogic HBAs</td>
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<tr>
<td>6363449</td>
<td>BIOS Hangs on Reboot After Using ZFS on Sun Ultra 20 or Sun Fire X2100</td>
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<tr>
<td>6363262</td>
<td>Numerous Mozilla Menu Entries Are Garbled in the Russian Locale</td>
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<tr>
<td>6358227</td>
<td>Postinstallation Problems With Whole Root Zone, Diskless Client, and Solaris Live Upgrade</td>
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<tr>
<td>6351923</td>
<td>Time Settings Might Cause Key Combinations to Fail to Start Assistive Technologies in the Sun Java Desktop System</td>
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<tr>
<td>6350819</td>
<td>Problem With Choosing a Terminal Type When Installing Solaris 10 1/06 Software</td>
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<td>6348316</td>
<td>Systems With Multiple CPUs Might Hang During Installation or System Boot</td>
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<tr>
<td>6346843</td>
<td>Bulgarian Locale Uses Russian Character Map</td>
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<td>6346204</td>
<td>Undetected Write Errors in NFSv4 Client With Full File System</td>
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<tr>
<td>6340714</td>
<td>Launch Menu Cannot Be Opened With Ctrl-Esc</td>
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<tr>
<td>6336069</td>
<td>Error Occurs When You Upgrade a Solaris Live Upgrade Boot Environment With CD or DVD Media</td>
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<tr>
<td>6334517</td>
<td>Problems With dtlogin When Using UTF-8 Locales</td>
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<td>6329929</td>
<td>Problems Configuring Preferences With the GNOME On-Screen Keyboard</td>
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<tr>
<td>6329642</td>
<td>Loadkeys Warnings Appear When System Is Booted From Solaris OS DVD</td>
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<tr>
<td>6319383</td>
<td>Some Language Input Does Not Work Correctly on Non-U.S. Keyboard Layouts</td>
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<tr>
<td>6314583</td>
<td>Serbian Locale Uses Russian Character Map</td>
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<td>6303564</td>
<td>SUNWceuow Package Improperly Upgraded if Symbolic Links to Solaris OS Are Changed</td>
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<td>6301627</td>
<td>Reinitializing Link on a Server in a Storage Area Network Causes Logical Unit Number on All Servers to Reset</td>
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<td>6300863</td>
<td>Solaris Install Launcher Exiting Causes Reboots</td>
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### TABLE A–1 Bugs Fixed in the Solaris 10 OS Software  (Continued)

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<td>du Reports Wrong Size Information on RAID-Z</td>
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<tr>
<td>6222925</td>
<td>Installation Fails When You Install Solaris Flash Archive on Empty Boot Environment With Solaris Live Upgrade</td>
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<tr>
<td>6215527</td>
<td>Login Process Might Hang in Certain Asian Non-UTF-8 Locales</td>
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<tr>
<td>6214222</td>
<td>Resolving Issues With AccessKeyMouseListeners</td>
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<tr>
<td>6221374</td>
<td>svccfg import Subcommand Does Not Refresh Dependent Services</td>
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<td>6219932</td>
<td>Compose Key Sequences Might Not Work When You Use X Keyboard Extension in Some Locales</td>
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<td>6219176</td>
<td>patchadd Fails to Reapply Patches to Newly Installed Packages</td>
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<td>6218158</td>
<td>Java Error Messages Are Displayed After a Solaris 10 OS Installation</td>
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<td>6216195</td>
<td>Non-Global Zones Created After Patching Global Zones Are Not Accessible by Remote Login Services</td>
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<tr>
<td>6215847</td>
<td>Solaris 10 Installation Disc Ejects When You Install the Solaris Flash Archive</td>
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<tr>
<td>6215739</td>
<td>Solaris GUI Installation Program Fails If You Configure Nonprimary Interface and Enable DHCP</td>
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<tr>
<td>6211279</td>
<td>Desktop Icons Invisible on Second Desktop System</td>
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<tr>
<td>6209619</td>
<td>Using USB 2.0 Hubs With USB 1.x Devices Might Cause System Panic</td>
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<tr>
<td>6209092</td>
<td>kdmconfig Program Runs Twice After Initial Installation</td>
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<tr>
<td>6208656</td>
<td>Solaris Installation GUI Might Fail When You Install Solaris Flash Archive</td>
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<td>6204987</td>
<td>EHCI Driver Unusable in Certain Motherboards</td>
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<tr>
<td>6204976</td>
<td>Problems When Saving Attachments With Localized Content</td>
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<td>6203680</td>
<td>Using FireWire-1394 Storage Devices Might Cause System Panic</td>
</tr>
<tr>
<td>6200924</td>
<td>Pausing USB Audio Devices During Play or Record Operation Might Cause System Deadlock</td>
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<tr>
<td>6192995</td>
<td>Default C Library Might Cause Boot Failure When You Install Solaris Flash Archives</td>
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<tr>
<td>6189823</td>
<td>localeadm -l Does Not List Installed Korean Locale Packages</td>
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<tr>
<td>6173972</td>
<td>Some Keyboard Keys Not Functioning With Num Lock Key On</td>
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<tr>
<td>5090222</td>
<td>SPARC: GigaSwift Fast and Gigabit Ethernet Devices With Revision IDs Lower Than 32 Might Cause System Panic</td>
</tr>
<tr>
<td>5087588</td>
<td>Installation Logs Might Be Incomplete or Inaccurate</td>
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### TABLE A–1 Bugs Fixed in the Solaris 10 OS Software (Continued)

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<td>Devices Not Immediately Available in Fabric Zones in a Storage Area Network</td>
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<tr>
<td>5062026</td>
<td>SPARC: Panics That Occur During Suspend and Resume Cycles Might Cause the System to Hang</td>
</tr>
<tr>
<td>5062018</td>
<td>Systems With Active Kernel Debugger Might Panic During Suspend/Resume Cycles</td>
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<tr>
<td>5042573</td>
<td>Some UTF-8 Locales Are Unavailable in the Common Desktop Environment Login Service</td>
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<tr>
<td>5042195</td>
<td>Only Part of the Disk Is Usable by <em>fdisk</em> or <em>format</em> Commands</td>
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<tr>
<td>5030842</td>
<td>Some Systems With USB 2.0 Hardware Might Hang or Panic</td>
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<tr>
<td>4992478</td>
<td>Permissions for Mount Points Not Preserved in Created Boot Environment</td>
</tr>
<tr>
<td>4937266</td>
<td>Cannot Type Multibyte Characters in Text Editor 2.9.1</td>
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<tr>
<td>4915974</td>
<td>Solstice DiskSuite Configurations Not Converted to Solaris Volume Manager Format When You Upgrade With Solaris Live Upgrade</td>
</tr>
<tr>
<td>4720192, 6215918</td>
<td><em>/dev</em> and <em>/devices/pseudo</em> Permissions Set Incorrectly After Installation</td>
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<td>4704046</td>
<td>Error Messages Might Be Seen When Installing Solaris By Using a Network Image</td>
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<tr>
<td>4640568</td>
<td>Systems With Multiple Interfaces Recognize All Interfaces as Usable After Installation or Upgrade</td>
</tr>
<tr>
<td>4506562</td>
<td>Solaris Bandwidth Manager Sometimes Causes System Panic During DR Operations</td>
</tr>
<tr>
<td>2136811</td>
<td>Need Itineraries so That Interrupted <em>scrub</em> or <em>resilver</em> Doesn't Have to Restart</td>
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<tr>
<td>Issue</td>
<td>Login Screen Marks UTF-8 Locales as Recommended</td>
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</tbody>
</table>
The patches that are listed in this appendix have been applied to the Solaris 10 Operating System in one of the following ways:

- **SolStart**
  These patches are located in the `/var/sadm/patch` directory on an installed system.

- **Freshbits technology**
  These patches were applied when the Solaris 10 OS was created. Therefore, these patches are not located in the `/var/sadm/patch` directory.

The `showrev -p` command provides a list of all patches that were applied to the installed system, regardless of how they were applied. The Solaris 10 software includes a known and tested level of patches. However, patches cannot be backed out of the Solaris 10 release.

---

**Note** – The Solaris 10 software contains special patches that perform tasks that are specific to the Solaris release installation images. These patches are specific to each Solaris software release and do not apply to other systems or releases of the Solaris software. Do not attempt to download or install these patches on other systems or installations of the Solaris OS.

---

**SPARC Patch List**

- **117465-02 – SunOS 5.10: fwtmp Patch**

  6180974

- **118367-04 – SunOS 5.10: csh Patch**

  6209912  6230795  6282038  6307905  6311438  6314637  6336149

- **118560-02 – SunOS 5.10: usr/bin/telnet patch**

  6234932  6317227
- 118566-01 – SunOS 5.10: patch usr/sbin/ping
  
  6222209

- 11866-12 – JavaSE 5.0: update 12 patch (equivalent to JDK 5.0u12)
<table>
<thead>
<tr>
<th>Service</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SPARC Patch List</td>
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</table>

Appendix B • Solaris Operating System Patch List
Appendix B • Solaris 10 Operating System Patch List

<table>
<thead>
<tr>
<th>Patch Number</th>
<th>Description</th>
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SPARC Patch List

6179014 6179233 6182630 6183297 6184225 6184713 6184718 6185342 6185483 6186650
618839 6188959 6189863 6189972 6189657 6189687 6190277 6190713 6190873 6190987 6191064
6192124 6192223 6192448 6192845 6192907 6192944 6193821 6194024 6194838 6195181 6195632
6195718 6197664 6198632 6199008 6199899 6200343 6200960 6201185 6201302 6201464 6201644
6201884 6201952 6202061 6203504 6205321 6205544 6205414 6205494 6206764 6207138 6207322
6209613 6210721 6211220 6212165 6214159 6214660 6214784 6215407 6216277 6216399
6220829 6221563 6222449 6224433 6225348 6223327 6219668

- 118676-03 – SunOS 5.10: patch for Solaris make and sccs utilities
  6208430 5037057 6470071

- 118683-01 – SunOS 5.10: Patch for assembler
  5069118 5071178 5079903 5093350 5090509 6192963 6236017 6253736

- 118705-01 – SunOS 5.10: XVR-1000 GFB Graphics Patch
  4949649 6270426

- 118706-01 – SunOS 5.10: Creator and Creator3D: FFB Graphics Patch
  6240103

- 118707-04 – SunOS 5.10: Expert3D IFB Graphics Patch
  6239859 6278448 6297322 6266390 6319759

- 118708-15 – SunOS 5.10: Sun XVR-1200 and Sun XVR-600 Graphics Accelerator Patch
  6202655 6205888 6210235 6244529 6248620 6250233 6260241 6266390 6278448 6279278 6293254
  6297322 6311081 6319362 6364976 6368913 6440714 6466799 6521995

- 118711-02 – SunOS 5.10: M64 Graphics Patch
  4950414 6269998

- 118712-18 – SunOS 5.10: Sun XVR-100 Graphics Accelerator Patch
  5098578 6182271 6214907 6260233 6282999 6302266 6337293 6345888 6350133 6373835
  6373759 6385527 6398532 6452445 6459541 6468135 6467135 6480033 6491858 6503731 6509359
  6510862 6513956 6353495 6519094 6537205 4789274 6541438 6532084 6534637 6555601 6546037
  6548222 6545708 6545680 6564685 6559125

- 118718-01 – SunOS 5.10: Generic Framebuffer configuration Graphics Patch
  6534154

- 118735-01 – SunOS 5.10: patch usr/sbin/rpc.nisd_resolv
  6220055

- 118777-09 – SunOS 5.10: Sun GigaSwift Ethernet 1.0 driver patch
SPARC Patch List

118814-01 – SunOS 5.10: patch platform/sun4u/kernel/tod/sparcv9/todsg
6226428 6228652 6228655 6230025

118815-05 – SunOS 5.10: awk awkpatch
5004023 5040318 5074811 5090114 6195584 6320514 6337300 6368966 6446725

118824-01 – SunOS 5.10: patch usr/bin/sparcv9/sort
6178339

118830-01 – SunOS 5.10: hme patch
5005976 5076750 6235003 6240490

118833-36 – SunOS 5.10: kernelpatch
1156383 1236941 4034947 4063945 4108775 4117562 4165223 4256818 4294701 4316952 4352289 4387797 4419428 4471706 4486978 4500618 4511681 4521202 4599450 4626861 4634519 4636944 4638717 4644326 4670406 4691277 4712059 4727117 4745648 4763363 4782952 4792021 4796051 4799697 4818196 4818484 4845958 4849565 4853554 4855218 4872386 4873353 4875624 4880976 4885968 4886293 4893897 4905227 4913952 4915681 4921452 4923208 4927518 4932869 4934259 4938301 4951608 4954646 4954703 4961433 4967732 4968226 4972826 4995852 4997994 5004247 5004374 5004701 5005976 5007714 5007726 5010267 5013200 5016956 5016975 5016998 5017041 5017095 5018506 5019542 5023079 5023670 5024476 5029967 5031470 5034470 5036894 5039369 5039974 5041567 5042195 5042855 5042924 5044805 5045382 5046450 5047630 5049969 5052723 5058875 5061331 5062145 5062435 5062645 5065608 5066548 5067964 5068886 5070446 5073604 5076027 5076357 5076548 5076976 5079311 5080443 5080821 5081575 5083133 5083170 5084073 5084264 5084421 5084452 5085739 5085886 5087103 5087929 5088665 5090022 5090037 5090773 5091442 5095432 5096257 5096624 5096868 5096891 5099806 5099850 5099855 5102062 5102894 5105010 5105177 5106644 5106725 5106803 5106865 5108067 5108471 5108961 5109126 5110135 6175438 6177369 6178064 6178746 6179167 6180317 6180557 6182677 6183621 6184323 6185781 6186472 6186851 6187076 6189856 6198561 6191192 6192523 6193468 6194015 6194576 6194723 6195171 6196169 6196844 6196850 6196861 6197460 6197861 6198351 6198405 6198521 6198523 6198614 6198766 6198890 6198953 6199406 6199444 6200071 6200160 6200295 6200896 6200924 6200969 6201067 6201142 6201257 6201425 6201431 6202564 6202573 6203341 6203479 6203517 6203547 6203680 6203955 6204443 6204546 6204621 6204983 6205014 6205337 6206217 6206732 6207276 6207772 6207840 6207963 6208058 6208532 6208790 6208918 6209159 6209350 6209399 6209411 6209502 6209588 6209619 6210668 6210697 6210716 6210881 6210936 6211827 6211936 6212248 6212406 6212418 6212756 6212797 6213074 6213184 6213273 6213277 6213418 6213463 6213551 6213962 6214108 6214180 6214472 6214604 6214615 6214620 6214687 6214698 6214721 6214834 6214946 6215000 6215065 6215444 6215546 6216056 6216134 6216135 6216149 6216447 6216478 6216650 6217001 6217370 6217624 6217821 6217870 6218082 6218194 6218503 6218854 6219127 6219132 6219142 6219178 6219195 6219276 6219317 6219538

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### SPARC Patch List

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<td>118842-01</td>
<td>SunOS 5.10: dada patch</td>
<td>5005976</td>
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<tr>
<td>118872-04</td>
<td>SunOS 5.10: ksh patch</td>
<td>4402737</td>
</tr>
<tr>
<td>118884-01</td>
<td>SunOS 5.10: atomic.h patch</td>
<td>4954703</td>
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<tr>
<td>118918-24</td>
<td>SunOS 5.10: Solaris Crypto Framework patch</td>
<td>4691624</td>
</tr>
<tr>
<td>118945-01</td>
<td>SunOS 5.10: Sun Gigabit Ethernet 3.0 driver patch</td>
<td>6238162</td>
</tr>
<tr>
<td>118959-03</td>
<td>SunOS 5.10: patch usr/bin/lastcomm and usr/bin/acctcom</td>
<td>5040858</td>
</tr>
<tr>
<td>118965-02</td>
<td>X11 6.8.0: Xorg</td>
<td>6366603</td>
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118981-03 – SunOS 5.10: Sun Quad FastEthernet qfe driver

6238254 6267267 6268767 6293226 6347707 6297366

119042-10 – SunOS 5.10: svccfg & svcprop patch

6197520 6217410 6221374 6222202 6231947 6251841 6287888 6296112 6299709 6351779 6355665 6367481 6397719 6461381

119059-29 – X11 6.6.2: Xsun patch

4751462 4915967 5016163 6191917 6212502 6216985 6217588 6219170 6219932 6219947 6221519
6226717 6226733 6227843 6228875 6247862 6248417 6248445 6248453 6255133 6265045 6265414
6265634 6269938 6270914 6276115 6277903 6278131 6279680 6280222 6297797 6310310 6311410
6314490 6316436 6319348 6326551 6334067 6338085 6340191 6346811 6347707 6353678 6359918
6361567 6366490 6370100 6377393 6377343 6376462 6377194 6377837 6378204 6383556
6387317 6395871 6397502 6426793 6450316 6453362 6458107 6465805 6502073 6482736 6245381
6508010 6488392 6487187 6501702 6477636 6525814 649660 6534483 6526191 6538280 6538290
6535201 6542279 6469385 6457530 6473929 6513118 6552230

119063-01 – SunOS 5.10: libXpm patch

6231515 6241936

119065-01 – SunOS 5.10: fc-cache patch

6205323

119070-04 – SunOS 5.10: Netra-CP2300 Patch

6197206 6213630 6233445

119079-13 – SunOS 5.10: Script Patch

6210697 6223059 6226968 6233613 6238277 6242365 6243456 6256312 6273106 6302827 6324123
6326533 6321947 6251841 6222202 6217410 6344138

119081-25 – SunOS 5.10: CD-ROM Install Boot Image Patch

4393815 4649122 4692667 4713660 4719125 4719211 4947796 5009917 5047412 5064512
4678185 6198783 6215847 6215918 6218158 6221702 6222925 6242499 6252385 6252388 6254694
6288726 6290082 6297950 6301206 6313099 6314149 6319439 6320965 6323208 6323294
6323511 6329642 6331510 6332093 6332722 6336267 6340350 6340354 6341482 6342039 6343072
6344771 6347051 6349235 6350819 6351213 6354062 6355905 6356711 6364583 6367162 6369598
6372101 6372197 6373211 6374204 6376794 6390583 6395264 6406788 6407201 6413159 6422730
6425215 6425221 6426207 6431490 6432478 6436821

119088-10 – SunOS 5.10: SPECIAL PATCH: qlc Script Patch to replace package scripts

6210934 6236343 6292280 6292987 6303297 6320936 6321523 6428334 6430552 6439910 6458629
6520427

119090-24 – SunOS 5.10: Sun iSCSI Device Driver and Utilities
119092-10 – SunOS 5.10: SPECIAL PATCH: iSCSI Script Patch to replace package scripts

119115-29 – Mozilla 1.7 patch

119117-36 – Evolution 1.4.6 patch

119130-33 – SunOS 5.10: Sun Fibre Channel Device Drivers
**SPARC Patch List**

620549 6261607 6270092 6276354 6279701 6279108 6283597 6286318 6288500 6288900 6290618
6292280 6292446 6292987 6295169 6296383 6298288 6300113 6304555 6306254 6311175
6311314 6313089 6316063 6317420 6317985 6319731 6320936 6321523 6323973 6325525 6326293
6326600 6326602 6326608 6328146 6328827 6329995 6331949 6337290 6340127 6342934
6343904 6344143 6347173 6349983 6350809 6355578 6356559 6360849 6361831 6366792
6371273 6372808 6374654 6378014 6379312 6379866 6380370 6381878 6381991 6385531
6386247 6387150 6389089 6390817 6390862 6391226 6394745 6395930 6399858 6402861 6410939
6406845 6408684 6411995 6420986 6429517 6430552 6439492 6439910 6442233 6450172 6453904
6455989 6464665 6464680 6464763 6464767 6464768 6464766 6464764 6464945 647033 6491238
6493492 6507762 6524565 6524651 6525587 6555589 6547236 6555590 4926429 6524809 6560823

- **119143-02** – SunOS 5.10: patch lib/libinetutil.so.1

- **119201-25** – SunOS 5.10: OS Localization message patch

- **119213-14** – NSS_NSPR_JSS 3.11.7: NSPR 4.6.7 / NSS 3.11.7 / JSS 4.2.5

- **119246-25** – SunOS 5.10: Manual Page updates for Solaris 10
119252-19 – SunOS 5.10: System Administration Applications Patch

119254-38 – SunOS 5.10: Install and Patch Utilities Patch

119258-35 – SunOS 5.10: Patch for Central European Region locale issues
119276-09 – SunOS 5.10: Patch for Northern Europe Region locale issues

119278-15 – CDE 1.6: dtlogin patch

119280-13 – CDE 1.6: Runtime library patch for Solaris 10

119282-01 – CDE1.6: GNOME/CDE Menu for Solaris 10

119284-01 – CDE 1.6: sdtwinfo patch

119286-01 – CDE 1.6: dtterm libDtTerm patch

119309-03 – SunOS 5.10: PGX32 Graphics

119313-13 – SunOS 5.10: WBEM Patch

119315-10 – SunOS 5.10: Solaris Management Applications Patch

119317-01 – SunOS 5.10: SVr4 Packaging Commands (usr) Patch

119368-05 – GNOME 2.6.0: Printing Technology Patch

119372-02 – GNOME 2.6.0: GNOME common development tools and libraries Patch
SPARC Patch List

6230101 6200654
- 119397-06 – SunOS 5.10: Patch for North America Region locale issues

6227384 6255292 6249315 6338196 6347707 6318932 6354302 6346087 6280189 6395212 6316938 6484316
- 119399-06 – SunOS 5.10: Patch for Central America Region locale issues

6228240 6255292 6249315 6338196 6318932 6354302 6346087 6280189 6395212 6316938 6484316
- 119401-08 – SunOS 5.10: Patch for Western Europe Region locale issues

6227384 6255292 6249315 6338196 6380900 6318932 6375175 6403522 6346087 6280189 6305220 6394467 6395212 6316938 6484316
- 119404-06 – SunOS 5.10: Patch for South American Region locale issues

6228240 6255292 6249315 6338196 6318932 6354302 6346087 6280189 6395212 6316938 6484316
- 119407-08 – SunOS 5.10: Patch for Eastern Europe Region locale issues

6228243 6228192 6255292 6249315 6338196 6347707 6346843 6314583 4944311 6367674 6383002 6399124 6375175 6403522 6346087 6280189 4997058 6395212 6316938 6505106 6484316
- 119410-05 – GNOME 2.6.0: Gnome Applets Patch

6205402 6245563 6207273 6393698 6393714 6393724 6393731 6404437 6402894 6232275
- 119414-14 – GNOME 2.6.0: Gnome Accessibility Libraries Patch

6192805 6265225 6182499 6182502 6217152 6192693 6205004 6216843 6226723 6228329 6260441 6283137 6315241 4768049 6347858 6340516 6358227 6386230 6199929 6407595 6431039 6377106 6437617 6468296 6486458 6534902
- 119416-01 – GNOME 2.6.0: Gnome Text-To-Speech Engine Patch

6216843 6226723 6228329
- 119418-03 – GNOME 2.6.0: Gnome On-screen Keyboard Patch

5109895 6200712 6211656 6223576 6405961 6364326 6329929
- 119420-01 – SunOS 5.10: Thai locale patch

6235012
- 119470-11 – SunOS 5.10: Sun Enterprise Network Array firmware and utilities

5046910 5076769 5079007 6201060 6204512 6234959 6235886 6247521 6250956 6250957 6274205 6285969 6309346 6339658 6347707 6384885 6395087 6397672 6494611 6534722
- 119534-12 – SunOS 5.10: Flash Archive Patch
119538-12 – GNOME 2.6.0: Window Manager Patch

119540-06 – GNOME 2.6.0: Gnome Dlogin configuration Patch

119544-03 – GNOME 2.6.0: Gnome streaming media framework Patch

119546-08 – APOC 1.2: APOC Configuration Agent Patch

119548-09 – GNOME 2.6.0: Gnome Multi-protocol instant messaging client Patch

119555-04 – SunOS 5.10: Software to support QLogic Ultra3 SCSI host bus adapters

119570-01 – SunOS 5.10: lwp8 Patch

119574-02 – SunOS 5.10: su patch

119578-30 – SunOS 5.10: FMA Patch
SPARC Patch List

6398388 6399875 6406417 6409768 6411192 6414182 6416735 6419218 6419771 6421627
6421650 6421659 6422221 6422560 6423975 6424520 6425600 6426009 6426514 6428381
6428843 6429361 6430015 6430823 6438025 6434164 6437467 6438703 6441262 6441859 6446309

- **119583-01** – SunOS 5.10: memory classification header file patch
  
  4818484 6198521 6253955

- **119598-08** – GNOME 2.6.0: Gnome Screen Reader and Magnifier Patch
  
  6205770 6191352 6207171 5083128 6205765 6202337 6200573 6180620 5095976 6315934 6202897
  6193299 6239339 6240135 6373775 6340786 6380184 6434160 6468296

- **119601-11** – SunOS 5.10: Patch for European Region JDS messages
  
  6250683 6296998 6274401 6186577 6263015 6176784 6180730 4929548 4957762 6308186 6336423
  6342833 6382651 6408317 6456415 6457961 6401474 6467056 6527359 6287987 6179511 6546801
  6461902 6493973 6526362

- **119603-07** – SunOS 5.10: Patch for Asian Region JDS messages
  
  6250683 6263015 6176784 4932571 6308186 4957762 6294274 6297892 6312176 6336423 6408317
  6454615 6461902 6493973 6526362

- **119605-07** – SunOS 5.10: Patch for Japanese JDS messages
  
  6250683 6263015 6176784 6308186 6336423 6408317 6454615 6461902 6493973 6526362

- **119648-03** – SunOS 5.10: vlan driver patch
  
  6507913 6216827 6421519 6313096

- **119703-09** – SunOS 5.10: Patch for localeadm issues
  
  6293965 6192791 6286551 6189823 6252055 6249315 6338196 6339465 6350486 6384012 6390202
  6412760 6221121 6221131 6416912 6430375 6430384 6408147 6423974 6237192 6423979 6339607
  6197142 6526363

- **119721-02** – SunOS 5.10: usr/lib/ecode/sparcv9/interpreter patch
  
  6250933 6281838

- **119728-03** – SunOS 5.10: FJSV, GPUU platform fmd.conf patch
  
  6249544 6265507 6369580 6392462

- **119757-07** – SunOS 5.10: Samba patch
  
  4768591 5080288 5100732 6174211 6179361 6185348 6217228 6218964 6248115 6248953 6254372
  6267187 6310561 6323751 6344828 6345488 6362017 6379618 6401467 6406753 6408839 6412838
  6444725 6446200 6447666 6449452 6482687 6506636 6518705 6521788 6556138 6557101 6563383
  6564928

- **119764-05** – SunOS 5.10: ipmitool patch
6209442 6266203 6266225 6344396 6397856 6433094
- 119766-02 – SunOS 5.10: SunFreeware man pages patch

6209442 6266203 6266225
- 119771-02 – SunOS 5.10: Asian CCK locales patch

6246438 6357520 6452120 6477325
- 119783-03 – SunOS 5.10: bind patch

6192028 6226796 6308420 6350145 6414518 6422873 6461587 6461591 6532492
- 119797-14 – SunOS 5.10: CDE Localization message patch

6259957 6299116 6279262 6309630 6345512 6375502 6382640 6395838 6402802 6228181 6472278
6496814 6523248 6533231 6537588
- 119810-04 – SunOS 5.10: International Components for Unicode Patch

4785261 6217550 6354379 6410112 6511431
- 119812-04 – X11 6.6.2: Free type patch

6229445 6292556 6354379 6410112 6511431
- 119814-16 – SunOS 5.10: OS Japanese manpages patch

6262660 6261964 6317482 6373667 6396026 6443861 6474177 6548283 6362324
- 119844-06 – SunOS 5.10: Patch for Southern Europe Region locale issues

6255292 6249315 6338196 6347707 6315127 6336555 6318932 6375175 6403522 6346087 6280189
6395212 6316938 6484316
- 119845-05 – SunOS 5.10: Patch for Australasia Region locale issues

6255292 6249315 6338196 6318932 6346087 6280189 6395212 6316938 6484316
- 119876-05 – SunOS 5.10: FJSV, GPUU platform links patch

6265507 6285132 6343503 6348606 6389580
- 119890-03 – GNOME 2.6.0: search tool Patch

6253916 5072526 6234957
- 119900-03 – GNOME 2.6.0: Gnome libtiff - library for reading and writing TIFF Patch

6203747 6321957 6377231 6412202
- 119903-02 – OpenWindows 3.7.3: Xview Patch
SPARC Patch List

4459703 6444095

- **119906-10** – Gnome 2.6.0: Virtual File System Framework patch
  5068327 6199955 6200485 6205707 6243455 6234855 6262830 6177074 6408294 6179500 6463564 6478281 6552805 6477272

- **119955-05** – CDE 1.6: Tooltalk Runtime patch for Solaris 10
  6206423 6235250 6347707 6328571 6257227 6548554 6548563

- **119963-08** – SunOS 5.10: Shared library patch for C++
  6242459 6244128 6253345 6300352 6283644 6274396 6304703 6326163 6339010 6393170 6408649 6319635 6421790 6432346

- **119974-08** – SunOS 5.10: fp plug-in for cfgadm
  6223856 6259488 6336260 6444373 6445889 6494611 6463935 6475039 6476151

- **119986-03** – SunOS 5.10: clri patch
  4913439 6194015 6421970

- **119988-01** – SunOS 5.10: sed patch
  4865669

- **120011-11** – SunOS 5.10: kernel patch
  1085341 1236941 1248254 1253974 4034947 4063945 4069191 4157198 4261677 4304959 4317114 4338634 4369168 4396195 4406529 4412599 4508683 4516075 4521282 4529113 4614772 4629135 4631155 4652746 4667251 4691104 4691624 4696964 4705220 4728609 4740951 4754856 4765561 4768758 4795652 4797442 4804979 4825216 4840845 4863327 4865670 4873799 4875480 4875636 4882852 4892188 4894692 4900516 4912568 4921979 4931229 4932150 4937832 4952533 4954703 4963280 4963285 4963287 4963315 4963361 4963362 4963365 4963368 4963372 4964162 4966416 4970365 4970475 4970596 4970603 4971371 4971789 4974005 4974806 4975817 4975956 4979830 4981132 4984263 4985360 4987141 4991139 4994285 4996426 4997903 5001239 5004247 5004701 5005887 5007891 5008923 5009112 501931 5022506 5022513 5023347 5024997 5026227 5027528 5028090 5033235 5033725 5039325 5036599 5039974 5033426 5041214 5046881 5048068 5049028 5049946 5053609 5057154 5057756 5062168 5062645 5063193 5067964 5068886 5076562 5080012 5080843 5081834 5083131 5083593 5085664 5087929 5090022 5094575 5095459 5094814 5096736 5096886 5097644 5099921 5103071 5108961 6180161 6181364 6181751 6181773 6183842 6186472 6188656 6188861 6193493 6194576 6196062 6196716 6197234 6197410 6197606 6198296 6198523 6199119 6199500 6201153 6201866 6202015 6202359 6202564 6203833 6204066 6205056 6207181 6207403 6207705 6207974 6208638 6208976 6209214 6211662 6211845 6213631 6214186 6214460 6214687 6214698 6214824 6215000 6215066 6215509 6215817 6216286 6216464 6216522 6217454 6217718 6217870 6217899 6218014 6218030 6218168 6218378 6218993 6219101 6219146 6219276 6219389 6219636 6220812 6220119 6220136 6220366 6221091 6221396 6221553 6221584 6222025 6222046 6222477 6222529 6222935 6223178 6223353 6223370 6223375 6223674 6223908 6224192 6224685 6224806 6225323 6225601 6226428 6226635 6226862 6227744 6227969 6228013 6228358 6228652 6228655 6228760 6229087 6229145 6229583 6230025 6230833

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Appendix B • Solaris 10 Operating System Patch List
- 120038-01 – SunOS 5.10: sadc patch
  6257191
- 120044-01 – SunOS 5.10: prsset patch
  6248421
- 120056-02 – SunOS 5.10: hpc3130 Patch
  6249526 6283570
- 120061-02 – SunOS 5.10: glm patch
  5026812 5091622 6208932 6258111 6350993
- 120062-01 – SunOS 5.10: localedef Patch
  6274427 6287593
- 120064-01 – SunOS 5.10: stdio_iso.h Patch
  6266832
- 120094-12 – X11 6.6.2: xscreensaver patch
  6237901 6267306 6228023 6203951 4806728 4818062 6368558 6368607 6369021 6346056 6232241
  6333226 6417168 5015296 6256528 6373797 6423730 5077974 5083155 6240938 6450019 6456499
  6388473 6406200 6395649 6461887 6478362 6478841 6451477
- 120099-08 – APOC 1.2: Sun Java(tm) Desktop System Configuration Shared Libraries
  6265312 6278049 6293945 6363692 6387982 6406269 6442745 6512760 6527486
- 120101-01 – SunOS 5.10: libmedia patch
  6240296
- 120128-02 – SunOS 5.10: xargs patch
  6203159 6323628
- 120195-02 – SunOS 5.10: patch schpc sc_gptwocfg gpttwo_pci
  5076027 6252214
- 120199-10 – SunOS 5.10: sysidtool Patch
  4716085 5110062 6194680 6220706 6239897 6268847 6404131 6404878 6421783 6438773 6439322
  6445230 6555501
- 120201-03 – X11 6.8.0: Xorg client libraries patch
  6248315 6366603 6347707 6504462 6489660
- 120222-20 – SunOS 5.10: Emulex-Sun LightPulse Fibre Channel Adapter driver
  6248456 6248899 6252273 6252308 6252633 6252767 6264417 6273321 6273949 6275529 6276730
  6277406 6281068 6281270 6281938 6284688 6286283 6286352 6290648 6291133 6296689 6299387
  6300078 6301627 6312068 6314407 6319648 6323974 6325753 6329384 6329972 6331152 6333054
  6333059 6336547 6339616 6339679 6339682 6340896 6340901 6342203 6343904 6344012 6348810
  6350753 6364395 6381360 6383122 6385881 6386425 6392218 6400647 6408870 6436873 6443455
  6447084 6462658 6467485 6468515 6469813 6469819 6482048 6482413 6482541 6482617 6482630
  6483985 6484005 6488246 6490673 6497681 6510934 6512195 6513802 6514128 6526703 6535567
  6535797 6540057 6544085 6553876 6561873
- 120224-06 – SunOS 5.10: SPECIAL PATCH: Emulex-Sun Fibre Channel Adapter driver
  6267262 6325753 6330354 6333059 6340896 6340901 6447084 6466086 6513802
- 120235-01 – SunOS 5.10: Live Upgrade Zones Support Patch
  6275557
- 120256-01 – SunOS 5.10: hci1394 Patch
  6260567 6286705
- 120272-12 – SunOS 5.10: SMA patch
  6191915 6243363 6243366 6244918 6247942 6298133 6299309 6314112 6314978 6347707 6349493
  6349495 6349499 6349501 6367337 6368319 6408492 6420118 6425297 6438781 6441943 6472768
  6473670 6487782 6490830 6494645 6496216 6498228 6503504 6536316 6553315 6540271
- 120274-01 – SunOS 5.10: SPECIAL PATCH: For postinstall File
  6191915
- 120282-02 – GNOME 2.6.0: Gnome CD Player Utility Patch
  5053909 6210011 6387160
- 120284-05 – GNOME 2.6.0: GNOME CORBA ORB and component framework
  6235648 6238754 6295858 6440951 6466464 6542835
- 120286-02 – GNOME 2.6.0: Gnome text editor Patch
  4937266 6355577 5092704 6347229
- 120288-03 – GNOME 2.6.0: Gnome terminal Patch
  6241338 6242857 6303664 6430930
- 120292-01 – SunOS 5.10: mysql patch
  6258187
- 120294-01 – SunOS 5.10: mysql man patch
  6258187
- 120311-02 – SunOS 5.10: FRESHBIT ONLY PATCH: For deletes file
  6178746
- 120329-02 – SunOS 5.10: reexec patch
  6245588 6371429
- 120335-04 – SunOS 5.10: Sun Update Connection Client Localization
- 120338-05 – SunOS 5.10: Asian CCK locales patch
  6279310 6285930 6347707
- 120344-01 – SunOS 5.10: SPECIAL PATCH: Common Fibre Channel HBA API Library
  Script Patch
  6202863 6239116
- 120346-08 – SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter
  Libraries
  6202863 6210435 6223854 6239116 6288908 6306254 6334772 6336260 6347707 6405584 6443728
  6486601 6494611 6523854 6534722 6544955
- 120348-02 – SunOS 5.10: Fibre Channel HBA Port utility
  6380685 6494611
- 120410-21 – SunOS 5.10: Internet/Intranet Input Method Framework patch
  6362324 6439551 6439552 6388748 6388754 6389513 6373635 6404462 6429880 6433315 6436040
  6443828 6418820 6461975 6463548 6456236 6449856 6400652 6458335 6503805 6521711 6303804
  6319383 6368739 6468167 6519571 6501702 6467756 6458025 6566160 6531459 6446303 6538703
  6542344 6562940 6562961
- 120412-06 – SunOS 5.10: Simplified Chinese locale patch
  6362324 6388988 6394129
- 120414-17 – SunOS 5.10: Asian CCK locales patch
  4916340 5024604 6263482 6267785 6285934 6299102 6362324 6433155 6388988 6412046 6462957
  6446836 6432120 6474887 6501702 6394129 6521643
- 120416-06 – SunOS 5.10: SPECIAL PATCH: class action scripts patch
6362324 6399243 6415636 6388988 6216641

- **120450-01** – SunOS 5.10: get_netmask Utility Patch

4218092

- **120452-01** – SunOS 5.10: SPECIAL PATCH: For editable files only

5006767

- **120454-02** – GNOME 2.6.0: Gnome Apoc GConf Adapter Patch

6281517 6397519

- **120456-01** – GNOME 2.6.0: Gnome image viewer Patch

6288517

- **120458-01** – GNOME 2.6.0: Gnome configuration Patch

6293945

- **120460-11** – GNOME 2.6.0: Gnome libs Patch

6242857 5087948 5088844 6216594 6306889 6301837 6231341 6305090 6347224 6340450 6394047 6393698 6393714 6393731 6405059 6404437 6402894 6428130 6375968 6471890 6521773

- **120462-08** – SunOS 5.10: FUJITSU PCI GigabitEthernet 2.0 patch

6263610 6314180 6314192 6236340 6328936 6389287 6389294 6389298 6411854 6411855 6411856 6489608 6489609 6489610 6536495

- **120543-09** – SunOS 5.10: Apache 2 Patch

6222168 6228840 6257414 6283488 6301799 6367565 6373222 6378495 6419373 6428387 6452767 6453503 6461151 6482942 6487586 6502023 6528378

- **120560-02** – SunOS 5.10: sun4u platform links patch

6297712 6342066 6377979

- **120618-01** – SunOS 5.10: mailx patch

6233613 6237411

- **120690-01** – SunOS 5.10: SPECIAL PATCH : For depend File

6299541

- **120704-01** – SunOS 5.10: smartcard man patch

6310070

- **120706-02** – SunOS 5.10: XIL 1.4.2 Loadable Pipeline Libraries
6255091 6357678

- 120719-02 – SunOS 5.10: SunFreeware gzip patch

6283819 6294656 6454453 6470484

- 120732-01 – SunOS 5.10: libusb patch

5033202 6251518 6251836 6272172

- 120737-01 – SunOS 5.10: FX patch

6251636

- 120739-03 – GNOME 2.6.0: GNOME PDF Viewer based on Xpdf

6219093 6294547 6418897

- 120741-01 – SunOS 5.10: seg_map header file patch

6264443

- 120746-01 – SunOS 5.10_sparc, SUNWswmt patch

6314804

- 120753-05 – SunOS 5.10: Microtasking libraries (libmtsk) patch

4640927 5105585 6176541 6224639 6266200 6281454 6284576 6292619 6308531 6315352 6347707
6321653 6337239 6352080 6358139 6364604 6383140 6406413 6420938 6452506 6465769 6510918
6513016 6518824 6525745

- 120807-01 – SunOS 5.10: rpc.mdcommd patch

6290815

- 120811-05 – SunOS 5.10: FUJITSU PCI Fibre Channel Driver 3.0 patch

6320887 6320888 6320889 6320890 6320891 6390438 6390438 6390442 6458277 6503309 6503310
6532173 6532174 6532175 6532176

- 120812-18 – OpenGL 1.5: OpenGL Patch for Solaris

6319713 6329031 6304867 6310706 6325241 6320884 6318796 6331251 6331516 6336456 4898884
6182277 6319762 6337931 6370332 6372166 6378129 6331508 6315618 6334385 6364166 6374033
6377389 6378207 6381610 6398277 6395879 6390026 6395712 6401397 6406474 6407746 6416582
6406701 6393151 6422606 6422765 6423678 6426814 6424131 6425810 6439494 6450137 6450143
6441146 6448080 6425711 6456988 6453221 6461379 6231225 6460443 6466601 6465810 6457370
6480786 6484429 6480397 6497288 6499862 6502759 6505039 6511101 6513034 6505769 6524712
6532426 6525525 6532662 6532382 6532296 6541065 6544600

- 120815-01 – SunOS 5.10: dmfe patch
5067101

- 120816-01 – SunOS 5.10: at and batch Patch

6208425

- 120825-01 – SunOS 5.10: SPECIAL PATCH: FJSV piedlu depend file

6318307

- 120830-05 – SunOS 5.10: vi and ex patch

6208422 6219736 6219754 6320759 6320774 6320781 6320783

- 120837-01 – SunOS 5.10: SPECIAL PATCH: For DEPEND Files

6213629 6317245

- 120873-06 – SunOS 5.10: xscreensaver localization message patch

6203951 6316915 6388099 6404846 6417480 6549999

- 120889-01 – SunOS 5.10: librac patch

6297767

- 120900-04 – SunOS 5.10: libzonecfg Patch

6200896 6218854 6328286 6346201 6400792

- 120928-19 – SunOS 5.10: Sun XVR-2500 Graphics Accelerator Patch

6205581 6234713 6238000 6265574 6265643 6305850 6307350 6307629 6309117 6314730 6316467 6320112 6325762 6327283 6334385 6334397 6336633 6336694 6336810 6338638 6339673 6342123 6344057 6345188 6345789 6351522 6356543 6356574 6358136 6359124 6359915 6360556 6368899 6376512 6384945 6386449 6389874 6391204 6397140 6400329 6401206 6401718 6406755 6407749 6409222 6417196 6419816 6425830 6429587 6432929 6437009 6441945 6441948 6443032 6444128 6448736 6456348 6457370 6462826 6466702 6467437 6467917 6468098 6472489 6474345 6474946 6476356 6476422 6476913 6480938 6485625 6487912 6489637 6492275 6492450 6493283 6494723 6497290 6499868 6504362 6502754 6503777 6505477 6505758 6513976 6518056 6527547 6525525 6527310 6536145 6540768 6547785 6543724 6548221 6554065 6553082 6540228 6556634

- 120932-01 – Solaris 10 U1: Live Upgrade to S10U1 fails due to checkinstall script

6320417

- 120934-01 – Solaris 10 U1: Live Upgrade to S10U1 fails due to SUNWccccrr postinatall

6320433

- 120984-01 – SunOS 5.10: nss_user.so.1 Patch
6235336
- 120988-01 – SunOS 5.10: grpck Patch

6221968
- 120992-02 – SunOS 5.10: nfs_clnt.h and nfs4_clnt.h Patch

6266836 6282389
- 120994-01 – SunOS 5.10: elf_amd64.h Patch

6236594
- 121002-03 – SunOS 5.10: pax patch

6300407 6324879 6383586
- 121004-03 – SunOS 5.10: sh patch

6277636 6388209 6471812
- 121012-02 – SunOS 5.10: traceroute patch

6238818 6290611 6290623 6291147 6291879 6298211 6298351
- 121036-01 – Gnome 2.6.0: base libraries patch

6215709
- 121061-01 – SunOS 5.10: motd Patch

6222495
- 121081-06 – SunOS 5.10: Connected Customer Agents 1.1.0

6450206 6410428 6304558 6319108 6300369 6395708 6392682
- 121095-01 – GNOME 2.6.0: GNOME EXIF tag parsing library for digital cameras

6257383
- 121104-02 – Adobe Acrobat Reader patch

6300634 6333477 6338781 6526702
- 121118-12 – SunOS 5.10: Sun Update Connection System Client 1.0.9
SPARC Patch List

6355862 6356114 6356149 6358651 6359761 6360451 6360929 6361188 6361487 6362146 6362166 6362828 6362887 6363403 6363941 6364454 6364707 6366823 6367722 6370198 6372108 6372139 6372274 6372515 6372563 6373939 6373946 6374784 6376004 6377932 6378893 6381063 6381140 6381322 6382007 6382999 6383012 6383176 6383224 6383315 6383653 6384634 6385661 6385673 6386168 6386364 6389085 6390448 6391266 6393075 6395034 6395316 6395874 6398238 6398433 6399218 6401173 6401777 6402500 6404885 6406720 6407897 6408365 6408544 6408613 6409482 6410140 6410531 6410538 6410539 6410542 6410544 6410545 6411679 6414005 6414159 6414343 6414657 6416609 6425987 6426181 6427463 6427757 6429333 6429336 6429934 6429935 6429937 6430654 6431846 6431851 6433481 6433486 6433678 6434792 6436114 6437060 6437063 6437159 6439023 6440031 6444021 6448807 6448994 6449018 6453526 6455598 6455636 6455700 6456391 6460262 6461126 6469364 6469367 6469373 6471052 6471054 6478319 6478621 6479276 6481338 6484611 6484928 6485481 6491530 6491895 6504320 6504405 6507691 6508361 6508369 6508654 6508927 6508931 6509899 6510573 6511377 6511378 6511386 6537598 6583919 6426874 6450709 6465132 6517375 6520882 6525982 6513981 6546183

- 121128-01 – SunOS 5.10: lofs patch
  5034470

- 121130-01 – SunOS 5.10: librcm.so.1 patch
  5103374

- 121133-02 – SunOS 5.10: zones library and zones utility patch
  6200896 6317239 6328286 6329667 6339404 6346201 6393109 6400792 6415764

- 121136-01 – Adobe Acrobat Reader patch
  6300634

- 121239-02 – SunOS 5.10: libgss patch
  5008950 6203833 6410987

- 121265-03 – SunOS 5.10: libc_psr_hwcapi.so.1 patch
  6315997 6325559 6485804

- 121286-04 – SunOS 5.10: libfru.so.1 and libfrureg.so.1 patch
  6309900 6325788 6374002 6430721

- 121296-01 – SunOS 5.10: fgrep Patch
  6295261

- 121306-02 – SunOS 5.10: SPECIAL PATCH: For package level scripts only
  6323208 6336160

- 121308-10 – SunOS 5.10: Solaris Management Console Patch
SPARC Patch List

5016983 5090761 6179516 6183058 6365746 6365758 6378956 6383511 6389712 6396510 6407617
6434217 6434535 6461461 6513080

- 121336-04 – SunOS 5.10: FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 1.0 patch
  6342915 6342916 6342918 6398480 6489598 6551872 6551873

- 121337-01 – SunOS 5.10: tlimod patch
  6328296

- 121394-01 – SunOS 5.10: aio_impl.h patch
  4954646 6183621

- 121428-08 – SunOS 5.10: Live Upgrade Zones Support Patch
  5015838 6221561 6242607 6264796 6381089 6400541 6516904 6562966 6568343

- 121430-16 – SunOS 5.8 5.9 5.10: Live Upgrade Patch
  4873203 4992478 5015838 5106987 6221561 6221609 6224940 6252385 6252388 6253700 6263351
  6264796 6265069 6284550 6286969 6297948 6297950 6317386 6319706 6319769 6320330 6322850
  6322867 6322962 6328587 6332091 6335531 6336069 6336160 6336245 6339728 6347732 6357186 6365289
  6367766 6381089 6390111 6395264 6398112 6405123 64411937 64420644 6432846 6468979
  6473085 6474504 6477349 6480573 6497684 6508829 6523497 6523534 6526238 6543062 6553162
  6561786

- 121453-02 – SunOS 5.10: Sun Update Connection Client Foundation
  6322616 6348676 6325141 6325580 6325603 6324926 6325021 6319981 6324094 6316500 6288010
  6288194 6288300 6289010 6293569 6297756 6298489 6299025 6300171 6300219 6300355 6300794
  6302650 6303352 6303587 6304558 6304563 6304786 6306155 6260830 6315572 6314437 6314341
  6316780 6342600

- 121463-08 – GNOME 2.6.0: Gnome Accessibility Libraries Patch
  6347858 6348516 6358227 6368230 6431039 6377106 6437617 6534092 6554390

- 121487-01 – CDE 1.6: dtmail patch
  6337697

- 121549-01 – SunOS 5.10: SPECIAL PATCH: FJSVdrdrl.us r.mainfest file
  6231947

- 121556-01 – SunOS 5.10: SUNW,Netra-CP3010 platform patch
  6237913 6313078

- 121557-01 – SunOS 5.10: SUNW,Netra-CP3010 usr/platform patch

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6237913 6336317
- 121558-01 – SunOS 5.10: SUNW,Netra-CP3010 platform patch

6237913
- 121559-01 – SunOS 5.10: Netra-CP3010 libprtdiag_psr patch

6237913 6336317
- 121561-04 – SunOS 5.10: keymap patch

6277193 6361984 6362506 6366101 6381421 6452685
- 121575-01 – SunOS 5.10: SPECIAL PATCH: For package level scripts only

6345097
- 121580-01 – SunOS 5.10: daktari and cherrystone header files patch

6240925
- 121606-02 – GNOME 2.6.0: Python patch

6199942 6247860 6318436 6318475 6340077 6484954
- 121620-02 – SunOS 5.10: Patch for mediaLib in Solaris

6359985 6347707 6397621
- 121667-02 – SunOS 5.10: pilot-link header patch

6321205 6334598
- 121669-01 – SunOS 5.10: SunFreeware pilot-link man pages patch

6321205
- 121671-01 – GNOME 2.6.0: SPECIAL PATCH for SUNW Python package

6199942 6247860 6318436 6318475 6340077
- 121675-09 – SunOS 5.10: Japanese Input System ATOK patch

6362324 6373667 6409794 6424740 6432726 6441936 6497081
- 121677-04 – SunOS 5.10: Japanese Input System Wnn patch

6362324 6443559 6427007 6396016 6396007 6459245
- 121679-02 – SunOS 5.10: SPECIAL PATCH: Japanese Input System Wnn patch

6362324
- 121721-01 – SunOS 5.10: SVM header files patch
121734-07 – SunOS 5.10: patch to support addition of new UTF-8 locales

121778-12 – SunOS 5.10: Script Patch

121780-11 – SunOS 5.10: SPECIAL PATCH: For EDITABLE Files

121870-01 – X11 6.6.2: xterm patch

121923-01 – Gnome 2.6.0: GNOME CD Burner patch

121944-02 – SunOS 5.10: libpsvcpolicy and libpsvcpolicy_psr patch

121946-01 – SunOS 5.10: Error processing FRU tree: IO error patch

121947-01 – SunOS 5.10: New Keyboards software needed

121953-02 – SunOS 5.10: Localization patch for new EMEA FIGGS locales

121975-01 – CDE 1.6: Xsession patch

121977-03 – CDE 1.6: Dtlogin patch

122005-01 – SunOS 5.10: SunFreeware growisofs man pages

122009-01 – SunOS 5.10: SunFreeware cdrtools patch
SPARC Patch List

- 6251877 6318184
  - 122011-01 – SunOS 5.10: SunFreeware cdrtools man pages patch

- 6251877 6318184
  - 122021-01 – SunOS 5.10: SPECIAL PATCH: For depend File

- 6251877 6318184
  - 122031-01 – SunOS 5.10: cgsix Patch

- 6246748
  - 122083-02 – SunOS 5.10: fsck mirrored patch

- 5044015 6273536 6331370
  - 122085-01 – SunOS 5.10: nispasswd patch

- 6225117
  - 122087-01 – SunOS 5.10: LTC1427-connected fan device driver patch

- 6176554
  - 122119-05 – SunOS 5.10: Patch for Arabic Fonts

- 6346091 6377955 6380993 6403522 6458616
  - 122130-03 – SunOS 5.10: Patch to update SUNWlocaledefs files

- 6345525 6432211 6316938 6484316 6435355 6505106
  - 122172-06 – SunOS 5.10: swap swapadd isaexec patch

- 6194015 6338653 6363824 6415521 6421970 6426755 6426760
  - 122174-03 – SunOS 5.10: dumpadm patch

- 6194015 6338653 6421970
  - 122180-01 – SunOS 5.10: Patch for North African locale issues

- 6348993
  - 122204-02 – GNOME 2.6.0: configuration framework Patch

- 6310437 6502229
  - 122208-01 – GNOME 2.6.0: Removable Media Patch

- 6207027
  - 122210-01 – GNOME 2.6.0: GNOME Media Player Patch
6370445

- **122212-19** – GNOME 2.6.0: GNOME Desktop Patch

```
4788904 4899270 5011528 5054339 5056390 5072848 5088581 6174227 6179500 6191372 6193275 6195818 6197950 6200000 6200326 6200485 6201648 6205402 6208184 6210443 6211279 6212275 6222326 6230090 6230098 6232275 6232578 6232849 6234894
```

- **122225-01** – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files

```
6381140
```

- **122231-01** – SunOS 5.10 Sun Connection agents, transport certificate update

```
6379777
```

- **122239-01** – SunOS 5.10: Apache 2 mod_perl Perl cgi patch

```
6289386
```

- **122255-04** – SunOS 5.10: etc/flash/precreation/caplib patch

```
5062145 6261859 6297798 6357980 6370222 6370368 6371413 6376429 6376682 6428121 6446353
```

- **122259-01** – SunOS 5.10: SunFreeware gnu esp ghostscript patch

```
6332828 6343050 6360710 6360803
```

- **122261-01** – SunOS 5.10: SunFreeware ghostscript man pages patch

```
6332828 6343050 6360710 6360803
```

- **122263-01** – SunOS 5.10: SPECIAL PATCH: fp plug-in for cfgadm

```
6319165
```

- **122363-02** – SunOS 5.10: fru_container.conf and libfruaccess.so.1 patch

```
6365800 6439953
```

- **122376-01** – SunOS 5.10: prex patch

```
6403612
```

- **122408-01** – SunOS 5.10: libmtmalloc patch

```
6411797 6502936 6515121 6555135
```
6217567

- **122416-05** – SunOS 5.10: SPECIAL PATCH: class action scripts patch

6318539 6487776 6550329 6556126 6482783 6567235

- **122418-01** – SunOS 5.10: Fix Garbled Message Issues for Ru

6363262

- **122422-03** – SunOS 5.10: add missing locale files for Mozilla

6387991 6403436 6419527 6418839

- **122424-01** – SunOS 5.10: Mozilla default bookmarks patch

6412687

- **122470-02** – Gnome 2.6.0: GNOME Java Help Patch

6364981 6434498

- **122487-06** – SunOS 5.10: Patch for Middle Eastern Region locale issue

6380993 6403522 6411975 6395212 6316938 6484316 6565869

- **122515-01** – SunOS 5.10: boston platform patch

6313684 6342066

- **122517-03** – SunOS 5.10: Sun Fire V215/V245 platmod patch

6313684 6328752 6342066 6360332 6372133 6405176 6455769

- **122525-03** – SunOS 5.10: Sun Fire V445 patch

6313684 6328752 6342066 6365052 6372133 6373525 6405176 6455769

- **122537-02** – SunOS 5.10: libpiclenvmon.so.1 patch

6394558 6439953

- **122640-05** – SunOS 5.10: zfs genesis patch

6276934 6280668 6285992 6322005 6322205 6335370 6338081 6338386 6338653 6341429 6343608 6365101 6381344 6392291 6393003 6393443 6395670 6396049 6396628 6397071 6397267 6398177 6398380 6398622 6398664 6398713 6399272 6399301 6399767 6399899 6399918 6399930 6400742 6402388 6402569 6402598 6403294 6405008 6406959 6407365 6407367 6407377 6407444 6407635 6407791 6408742 6408927 6410371 6410698 6410700 6410709 6410711 6410836 6411700 6413125 6413573 6413731 6416101 6420920 6422565 6423046 6424405 6426323 6435700

- **122669-01** – Evolution 1.4.6: Cryptographic Library patch

6316976
- **122675-01** – SunOS 5.10: SunFreeware samba man pages patch

  4768591 6174211 6332751 6344828 6362017 6379618

- **122700-02** – GNOME 2.6.0: Gnome libs CAS Patch

  6348450 6394047 6399245

- **122735-01** – CDE 1.6: backdrops patch

  6385021

- **122754-01** – SunOS 5.10: Exacct catalogue patch

  5076562 5083131 6181364 6183842 6202015 6216286 6221584 6222529 6223178

- **122761-01** – SunOS 5.10: SunUpdate Connection Bootstrapper

  5229087 6229583 6230033 6232253 6232309 6237801 6255593 6264225 6265569 6266851 6267828

- **122763-01** – SunOS 5.10: SunVideo 1.4 procedural patch

  6346926 6354842 6356155 6359264 6359850 6363503 6365742 6366758 6366821

- **122860-04** – SunOS 5.10: SCN Update Manager localization patch

  5076562 5083131 6181364 6183842 6202015 6216286 6221584 6222529 6223178

- **122911-07** – SunOS 5.10: Apache 1.3 Patch

  6290425 6290827 625738 6423033 6452767 6501938 6502023 6528378 6540271 6550227

- **122958-02** – GNOME 2.6.0: RealPlayer media application

  6382797 6383322 6383359 6383367 6377814 6450213

- **123003-03** – SunOS 5.10: SAM module patch

  6509847 6316308 6417985 6444027 6444779 6445882

- **123005-05** – SunOS 5.10: Basic Registration Update
SPARC Patch List

6302968 6316245 6334932 6367975 6398507 6399623 6399760 6440989 6444883 6437572 6448823 6449808 6452877 6450286 6480357 6462733 6428301 6434413 6449413 6448995

- 123011-01 – SunOS 5.10: BR desktop icon patch

- 123015-01 – SunOS 5.10: ps patch

- 123121-02 – SunOS 5.10: libwsreg.so.1 Patch

- 123123-02 – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files

- 123132-01 – SunOS 5.10: more patch

- 123140-01 – SunOS 5.10: SPECIAL PATCH: For package level scripts only

- 123144-01 – GNOME 2.6.0: Gnome RealPlayer CAS Patch

- 123162-02 – GNOME 2.6.0: Gnome Java Run Time Patch

- 123186-02 – SunOS 5.10: NIS yp utilities patch

- 123194-01 – SunOS 5.10: cron patch

- 123252-01 – SunOS 5.10: platform/SUNW,Netra-T2000 patch

- 123259-12 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch

- 123271-01 – SunOS 5.10: iwsnc patch

- 123301-01 – SunOS 5.10: i2c_svc patch
6396416
- 123319-01 – SunOS 5.10: sysacct patch

6367316
- 123322-01 – SunOS 5.10: pwconv patch

6379530
- 123326-01 – SunOS 5.10: tail patch

6354078
- 123328-01 – SunOS 5.10: expr patch

6354064
- 123332-01 – SunOS 5.10: tftp and in.tftpd patch

6301318
- 123358-02 – SunOS 5.10: jumpstart and live upgrade compliance patch

6372009 6433495 6445971
- 123360-01 – SunOS 5.10: usr/sbin/prtfru patch

6382587
- 123494-04 – X11 6.6.2: fontconfig patch

6355580 6405629 6477134 6447517
- 123520-01 – SunOS 5.10: basename & dirname patch

6210677
- 123526-01 – SunOS 5.10: libcurses patch

4503183 5027709 5080079
- 123535-01 – APOC 1.2: depend patch

6388397
- 123590-05 – SunOS 5.10: PostgreSQL patch

6429619 6452302 6511000 6520656 6539158 6539196 6540256 6546373
- 123611-02 – X11 6.6.2: Trusted Extensions patch

6395871 6435331
- 123628-01 – SunOS 5.10: SPECIAL PATCH: fp Script Patch to replace install components
  6385531
- 123630-01 – SunOS 5.10: HTTP proxy settings patch
  6428301 6431004 6431011 6431282 6434415 6437572
- 123647-01 – SunOS 5.10: gcc library .la patch
  6220191
- 123661-04 – SunOS 5.10: Basic Registration Localization
  6442747 6442794 6453942 6451466
- 123836-01 – SunOS 5.10: ATA driver patch
  6421427
- 123872-02 – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files
  6450350 6466183
- 123893-03 – SunOS sparc : Common Agent Container (cacao) runtime 2.1 upgrade patch 03
  6556883 6526343 6524977 6436145 6426278 6410164 6283710 6369806 6384513 6280032 6337616
  6339748 6344715 6345608 6348540 6355795 6370572 6379150 6395715 6403788 6405728
  6414544 6421891 6426615 6437886 6441536 6442702
- 123908-01 – SunOS 5.10: ar patch
  6382170 6391407 6398391
- 123912-02 – SunOS 5.10: ppriv patch
  6186472 6394554 6402114 6403267 6429516 6474295
- 123915-01 – SunOS 5.10: libcfgadm.so.1 patch
  6374522
- 123938-01 – GNOME 2.6.0: GNU Transport Layer Security Library Patch
  6473089
- 124093-02 – SunOS 5.10: SPECIAL PATCH: For package level scripts only
  6438773 5016983
- 124141-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch
- 124149-04 – SunOS 5.10: Sun XVR-300 Graphics Accelerator Patch
  6480033 6491858 6509359 6510862 6515331 6525065 6524532 6521344 6525750
- 124153-01 – SunOS 5.10: Solaris Management Applications Localization patch
  6465514
- 124166-01 – SunOS 5.10: SPECIAL PATCH: Script patch for 120272-06
- 124171-06 – SunOS 5.10: SCN Base cacao module patch
  6460977 6469551 6485617 6515667 6527874
- 124179-01 – SunOS 5.10: Sun Update Connection Bootstrapper Localization
  6465268
- 124188-02 – SunOS 5.10: Trusted Solaris Attributes Patch
  6396510 6481568
- 124235-01 – SunOS 5.10: libpam.so.1 patch
  6439960
- 124237-01 – SunOS 5.10: ftp patch
  6319844
- 124256-01 – SunOS 5.10: md_mirror patch
  6226297
- 124325-01 – SunOS 5.10: rcm modules patch
  4659930
- 124337-01 – SunOS 5.10: FUJITSU PCI Fibre Channel Driver 3.0 miniroot patch
  6474425
- 124363-01 – SunOS 5.10: /usr/bin/stardict patch
  6465248
- 124393-05 – CDE 1.6: Dtlogin smf patch
  6200922 6444304 6389083 6463474 6460522 6506600 6523702 6505800
- 124395-01 – CDE1.6: dtaction patch
  6405981
- 124397-02 – CDE1.6: libDtWidget patch
6489090 6502114

- 124399-01 – CDE1.6: dtfile patch

6405981

- 124401-01 – CDE1.6: dtpad patch

6405981

- 124403-01 – CDE1.6: dtstyle patch

6405981

- 124405-01 – CDE1.6: sdtprop patch

6405981

- 124442-01 – SunOS 5.10: ssh patch

6450490

- 124444-01 – SunOS 5.10: mountd patch

4613875

- 124457-01 – X11 6.6.2: xdm patch

6388471 6423858 6398796

- 124628-03 – SunOS 5.10: CD-ROM Install Boot Image Patch

5110062 6272742 6438773 6439322 6445230 6450040 6467841 6472014 6473406 6476699 6480302

6481557 6560182

- 124630-12 – SunOS 5.10: System Administration Applications, Network, and Core Libraries Patch

5110062 6242499 6264796 6272742 6293738 6342179 6386531 6395264 6402258 6411706 6429460

6517803 6517679 6500354 6560182 6560182 6560182

- 124924-01 – SunOS 5.10: vold patch

6435055

- 124939-03 – SunOS 5.10 5.10_x86: JDMK 5.1 patch

4703798 4704415 4850779 4984695 5057532 5065264 5066653 5079479 6174229 6183128 6192124

6199899 6238234 6239400 6286631 6298662 6305809 6313432 6318653 6353661 6354426 6409684

6454450 6496038 6215610 6227678 6295821 6335967 4997225 6195791 5051899 6273684 4960301

5044821 5066835 5072890

- 124943-01 – SunOS 5.10: SunFreeware gzip man pages patch
6454453 6470484

- 124997-01 – SunOS 5.10: /usr/bin/tippatch

6469394

- 124999-01 – SunOS 5.10: mc-us3 driver patch

6298631

- 125022-01 – SunOS 5.10: /usr/sbin/sarpatch

6261221

- 125045-01 – X11 6.6.2: Xft patch

6377400

- 125075-01 – SunOS 5.10: svc-volfs patch

6222334 6317677 6368089 6400982 6408660 6418521 6430773 6435512 6457857 6459470

- 125095-13 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch

6221114 647688 6477713 6495303 6502249 6527781 6532593

- 125097-12 – SunOS 5.10: SPECIAL PATCH: For EDITABLE files

- 125166-04 – SunOS 5.10: Qlogic ISP Fibre Channel Device Driver

6380982

- 125171-02 – SunOS 5.10: dad driver patch

6433791 6466066

- 125172-01 – SunOS 5.10: llc2 driver patch

6452679 6460268

- 125174-02 – SunOS 5.10: tl driver patch
SPARC Patch List

- **125176-02** – SunOS 5.10: rmc_comm Patch
  6428213 6476814
- **125184-04** – SunOS 5.10: Sun Fibre Channel Device Drivers
  6335574 6309200 6401604 6460562 6461752 6463248 6478332 6485282 6500633 6517026 6518348 6526457 6532746
- **125196-05** – SunOS 5.10: SUNWcry patch
  4691624 4721729 4925453 4926742 5039273 5062050 5067964 5188861 6195428 6199119 6211857 6215509 6215816 6220814 6222467 6226862 6230146 6242993 6245378 6249979 6252894 6253744 6256312 6262344 6264344 6271754 6276483 6278572 6278578 6286167 6286372 6292874 6331488 6345493 6358078 6368332 6372133 6372169 6372587 6373525 6379529 6427002 6427559 6449294 6458639 646106 6466370 6467218 6476729 6483054
- **125202-01** – SunOS 5.10: n2piupc driver feature patch
  6466249 6507462
- **125211-01** – SunOS 5.10: SunFreeware zlib patch
  6464983
- **125213-02** – SunOS 5.10: SunFreeware zlib man pages patch
  6464983 6522852
- **125215-02** – SunOS 5.10: SunFreeware wget patch
  6215177 6542839
- **125217-01** – SunOS 5.10: SunFreeware wget man pages patch
  6215177
- **125275-01** – SunOS 5.10 5.10_x86: JDMK 5.1 patch
  6454450
- **125279-03** – CDE1.6: dtsession patch
  6494012 6547678 6556383
- **125281-02** – CDE1.6: sdtimage patch
  6483532
- **125285-02** – SunOS 5.10: Japanese font patch
  6463232 6526947
- **125287-01** – SunOS 5.10: Japanese X locale update

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- 125293-02 – SunOS 5.10: Japanese iconv patch

- 125312-01 – SunOS 5.10: SPECIAL PATCH: For 120719-02 patch

- 125314-01 – SunOS 5.10: SPECIAL PATCH: For 123590-02 patch

- 125317-01 – SunOS 5.10: SPECIAL PATCH: For 125215-01 patch

- 125332-01 – JDS3: Macromedia Flash Player Plugin Patch

- 125367-02 – SunOS 5.10: /etc/passwd, /etc/group, /etc/shadow feature patch

- 125369-07 – SunOS 5.10: Fault Manager patch

- 125378-01 – SunOS 5.10: timezones feature patch

- 125380-01 – SunOS 5.10: /sbin/init and /usr/sbin/audit feature patch

- 125382-01 – SunOS 5.10: qcn driver feature patch

- 125388-01 – SunOS 5.10: SNIA Multipath Management API and Multipathing Utilities
6468489

- 125398-03 – SunOS 5.10: SPECIAL PATCH: Japanese CAS scripts update for ZONE
  6487934  6533196  6556095

- 125414-01 – SunOS 5.10: SIP feature patch
  6461142  6480199  6481951  6484530

- 125416-01 – SunOS 5.10: UFS utilities feature patch

1260290  4063945  4215923  4471706  4775289  4836779  4857410  4872089  4890510
5004701  5086715  5096886  6175186  6184783  6198523  6208131  6217870  6223375  6240363  6245090
6250211  6256157  6262573  6264883  6265542  6277961  6284968  6303398  6312941  6312946
6312949  6312954  6322005  6322205  6332352  6335370  6337437  6338081  6338386  6338653  6341249
6345690  6346183  6351165  6354381  6354997  6355634  6360864  6362641  6365138  6367777  6367948
6379909  6381344  6389326  6389488  6421216  6427134  6433679  6438911  6498206  6507293

- 125418-01 – SunOS 5.10: in.telnetd feature patch
  6246102  6523815  6524404

- 125420-01 – SunOS 5.10: scp feature patch
  6460274  6466048

- 125474-01 – X11 6.8.0: Xorg client libraries patch
  6424870

- 125480-01 – SunOS 5.10: libaio patch
  6497333

- 125482-02 – SunOS 5.10: cryptmod and r-commands patch
  6378797  6458110  6476400

- 125484-02 – SunOS 5.10: nfssrv patch
  6421340  6462751  6356282  6359546  6365221  6449532

- 125490-02 – SunOS 5.10: nfsmapid patch
  6231897  6243099  6268829  6276074  6442422  6477808  6534968

- 125531-01 – Gnome 2.6.0: File System Examiner Patch
  6444322

- 125533-01 – Gnome 2.6.0: Trusted Extension Runtime Patch
125535-02 – Openwindows 3.7.3: SPECIAL PATCH: CAS scripts patch for ZONE

125721-03 – X11 6.6.2: SPECIAL PATCH: CAS scripts patch for ZONE

125725-02 – X11 6.6.2: xinerama patch

125731-01 – SunOS 5.10: XML and XSLT libraries patch

125733-01 – SunOS 5.10: SPECIAL PATCH: For 125731-01. SCRIPT patch

125735-01 – SunOS 5.10: SPECIAL PATCH: For 123590-03 patch

125892-01 – SunOS 5.10: cdrw patch

125894-01 – SunOS 5.10: cut patch

125896-01 – SunOS 5.10: mail.local patch

125898-01 – SunOS 5.10: locator patch

125899-01 – SunOS 5.10: stmsboot patch

125902-01 – SunOS 5.10: uucico patch

125905-01 – SunOS 5.10: keytables patch

125952-04 – Sun Java Web Console 3.0.2: Support for Application Server 8.2 EE
SPARC Patch List

6516483 6486816 6491335 6496980 6498276 6498951 6514835 6515895 6515930 6519616
6521511 6529094 6519423 6527115 6531703 6526812 6534701 6540441 6515994 6534421 6534399
6563091 6563667

- 125978-06 – SunOS 5.10: SPECIAL PATCH: For package level scripts only

6264796 6480573 6386531 6474558 4745537 6555501

- 126117-01 – CDE 1.6: DtPower patch

6341099

- 126119-01 – CDE 1.6: sys-suspend patch

6395883

- 126121-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch

- 126123-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch

- 126206-03 – SunOS 5.10: zebra ripd patch quagga

6268590 6268595 6524504 6553389

- 126212-01 – SunOS 5.10: SPECIAL PATCH: depend files patch

6480370 6517773

- 126258-02 – SunOS 5.10: in.ftpd patch

5073203 6239487 6501388

- 126260-01 – SunOS 5.10: logadm patch

4824041 5107935 6369440 6448850 6497726

- 126262-01 – SunOS 5.10: prctl patch

6201729

- 126363-01 – SunOS 5.10: X Window System changes - Solaris Trusted Extensions

6480370 6499786 6505706 6486416

- 126365-02 – SunOS 5.10: CDE Desktop changes - Solaris Trusted Extensions

6363278 6395845 6433584 6451691 6465966 6467055 6472270 6487195 6504080 6535584 6535882
6550677 6552669

- 126421-01 – SunOS 5.10: format patch

6375238 6382698

- 126423-01 – SunOS 5.10: bootadm patch
- 126425-01 – SunOS 5.10: fsckall patch
  6431414
- 126427-01 – SunOS 5.10: se driver patch
  6470598 6535714
- 126428-01 – SunOS 5.10: e1000g patch
  6428335 6454256 6458975 6458990 6459125 6459175 6460844 6461277 6464716 6479343
- 126430-01 – SunOS 5.10: libcurses patch
  6494168
- 126432-01 – SunOS 5.10: ntwd driver patch
  6500505
- 126434-02 – SunOS 5.10: raidctl patch
  6508590 6519009 6539602
- 126440-01 – SunOS 5.10: rm patch
  6296436 6399959 6479906
- 126442-01 – SunOS 5.10: ac97.h patch
  6301905 6444365 6469613
- 126448-03 – SunOS 5.10: Trusted Extensions labeld, chk_encodings, txzonemgr, zoneunshare, zoneshare patch
  6478436 6479819 6483528 6490114 6504776 6519494 6525116 6544174 6552207 6555057
- 126450-01 – SunOS 5.10 Trusted Extensions add_allocatable patch
  6530616
- 126530-01 – SunOS 5.10: SNIA Multipath Management API Libraries and scsi_vhci driver
  6514145
- 126538-01 – SunOS 5.10: i.manifest and r.manifest patch
  6209178 6494213
- 126540-01 – SunOS 5.10: libumem patch
SPARC Patch List

- 126542-01 – SunOS 5.10: snmpdx and mibiisa patch
  6227115 6228341 6275006 6277029 6411493

- 126544-01 – SunOS 5.10: snmpdx manifest patch
  6461434

- 126546-01 – SunOS 5.10: Bash patch
  6231865

- 126585-02 – SunOS 5.10: auto_ef patch
  6531900 6533747 6533757 6547913

- 126630-01 – SunOS 5.10: tcsh patch
  6513408

- 126639-06 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch
- 126647-01 – SunOS 5.10: InfiniBand header files patch
  6552251

- 126649-01 – SunOS 5.10: sulogin patch
  6189407

- 126651-01 – SunOS 5.10: tar patch
  6205524

- 126653-01 – SunOS 5.10: md patch
  6322048

- 126655-01 – SunOS 5.10: poll driver patch
  6422458

- 126657-01 – SunOS 5.10: timex patch
  6451790 6524847

- 126659-01 – SunOS 5.10: flowacct patch
  6509271

- 126661-01 – SunOS 5.10: rpcsec patch
  6273779 6554841
- 126663-01 – SunOS 5.10: acebus and ebus driver patch
  6512401
- 126665-01 – SunOS 5.10: su driver patch
  5104883  6222697  6300839  6334314  6362844  6365805  6387359  6403830  6470835  6522110
- 126666-01 – SunOS 5.10: prtdiag patch
  6523309
- 126681-03 – SunOS 5.10: Install and Patch Utilities Patch
  6218542  6293738  6315512  6322837  6406489  6412093  6412140  6412749  6412765  6413788  6433028
  6489022  6497684  6527309  6532654  6534160  6556250
- 126738-02 – SunOS 5.10: Patch for European Region TJDS messages
  6482943  6492997  6507541  6570643
- 126740-02 – SunOS 5.10: Patch for Asian Region TJDS messages
  6482943  6492997  6507541  6570643
- 126742-01 – SunOS 5.10: Patch for Japanese TJDS messages
  6482943  6492997  6507541
- 126897-01 – SunOS 5.10: Fault Manager Patch
  6349862  6365629  6365633  6365645  6369762  6371683  6379529  6381172  6393267  6408988  6410884
  6411941  6414703  6414871  6414938  6417265  6417268  6418474  6419724  6421336  6421451  6427002
  6427423  6427559  6432953  6434264  6439235  6440121  6445128  6445887  6448956  6449001  6449076
  6449954  6450734  6451146  6460405  6461124  6461148  6465541  6471117  6482512  6498305
- 126916-01 – SunOS 5.10: Trusted Extensions pam.conf modified patch
  6563180
- 126918-01 – SunOS 5.10: TRUSTED EXTENSIONS SCRIPT PATCH
  6563180
- 126969-01 – Test IDR for OPL PSR
  6477720  6472377  6473508  6533110
- 127032-01 – IDR to restrict PSR release.