IBM Netfinity NetBAY3E

Installation Instructions
Notice

Before using this information and the product it supports, please be sure to read the general information under “Product warranties and notices” on page 14.

First Edition (September 1999)

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Before installing this product, read the Safety Information.

Antes de instalar este producto, lea as Informações de Segurança.

在安装本产品之前，请仔细阅读 Safety Information

安全信息。

Prije instalacije ovog produkta obavezno pročitajte Sigurnosne Upute.

Antes de instalar este produto, leia as Informações de Segurança.

安全信息。

Les sikkerhedsforskrifterne, før du installerer dette produkt.

Avant d’installer ce produit, lisez les consignes de sécurité.

Vor der Installation dieses Produkts die Sicherheitshinweise lesen.

A termék telepítése előtt olvassa el a Biztonsági előírásokat!

Prima di installare questo prodotto, leggere le Informazioni sulla Sicurezza

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Introduction

The IBM® Netfinity® NetBAY3E enclosure provides 3U of storage capacity for installing computer devices. You can stack up to three NetBAY3E enclosures under certain IBM Netfinity servers. Always install a server on the top enclosure in a stack.

Notes:

1. Vertical measurements are given in rack units (U), with one U equal to 4.45cm (1.75in.).
2. The maximum server or device weight that you can install in a NetBAY3E is 77kg (170lbs).

The NetBAY3E enclosure comes with the following:
- One stackable enclosure
- One front bezel
- Eight M5 nuts (for attaching a server or stacking another NetBAY3E enclosure)
- Miscellaneous hardware kit (includes M6 screws and cage nuts for installing devices)
- One rack insertion tool
- This document

Note: The illustrations in this documentation might be slightly different from your hardware.

Tool requirements

You will need the following tools to install the NetBAY3E:
- A medium flat-blade screwdriver
- An 8mm open-end or box wrench
- A 10mm nut driver or a 10mm open-end or box wrench

Enclosure installation overview

To install the NetBAY3E enclosure, use the following general procedure:

1. Install and lock the casters on the enclosure that comes with the 8Ux28D Rack-to-Tower Kit, according to its documentation, before installing any devices or stacking other enclosures.

2. Install a device in the bottom enclosure (see “Installing devices in the enclosure” on page 4).

3. Attach additional NetBAY3E enclosures (see “Stacking enclosures” on page 12).
   
   Note: When stacking an enclosure on top of another, you must attach them together before you install any device in the upper enclosure.

   a. Attach a second NetBAY3E to the bottom enclosure and install a device if applicable.
   b. Attach a third NetBAY3E to the second enclosure and install a device if applicable.
4 Attach a server to the top enclosure.

5 Attach the caster stabilizer that comes with the 8Ux28D Rack-to-Tower Kit to the front (swivel) casters.

6 Attach and neatly route all device and server cables.

**Service and cooling clearances**

The NetBAY3E enclosure requires a minimum service clearance of 91.5cm (36in.) in the front and the rear. The type of server you install determines the service clearance on the sides. Refer to the server documentation for proper side service clearance.

A minimum cooling clearance of 15cm (6in.) on all sides is required. The server or device that you install in the enclosure might require a greater cooling clearance. Refer to the server or device documentation for the required cooling clearance.

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*Figure 1. Service and cooling clearances for the enclosure*
Installing and moving cage nuts

Install the cage nuts that come with the NetBAY3E on the mounting rails toward the inside of the enclosure. Make sure that you install all of the cage nuts at the appropriate levels (according to the device you are installing in the enclosure) on the mounting rails. You can install or move cage nuts with a flat-blade screwdriver or the rack insertion tool that comes with the enclosure.

Using the rack insertion tool

To install a cage nut using the rack insertion tool:

1. Determine the hole in which you want to install the cage nut.
2. Insert one edge of the cage nut into the hole.
3. Push the insertion tool through the hole and hook the other edge of the cage nut.
4. Pull the insertion tool and the cage nut back through the hole to finish.

Using a flat-blade screwdriver

To install a cage nut using a flat-blade screwdriver:

1. Hook one side of the cage nut into the rack-mounting-rail square hole.
2. Hold the cage nut in one hand and compress the cage nut clip with a flat-blade screwdriver.
3. With the clip compressed, push the cage nut fully into the square hole.
4. Release the screwdriver pressure on the clip to lock the cage nut in the square hole.
Installing devices in the enclosure

You can install the following three types of devices:

- Devices like the IBM EXP10 that install on side rails
- Cantilevered devices, such as a power distribution unit (PDU), that installs on the front or rear of the enclosure
- Devices that sit on the enclosure base plate

Attention:

1. Always lock the casters before installing any devices in enclosures.
2. Always install the heaviest device in the bottom, the next heaviest device in the second, and the lightest device in the top enclosure.
3. To allow the enclosure bezel to close, devices with handles must not extend more than 56cm (2.2in.).

4. All device cables must exit from the rear of the enclosure.

Removing the rear panel

When you install a device in the enclosure, remove the rear panel as follows:

1. Remove the four screws that hold the panel in place.
2. Lift the rear panel off of the enclosure and save for future use.

After you remove the rear panel, you can install one of the following:

- A device on rails (See “Installing a device on side rails”)
- A cantilevered device (See “Installing cantilevered devices” on page 6)
- A device on the base plate (See “Installing devices on the enclosure base plate” on page 7)

---

**Installing a device on side rails**

Installing a device with side rails in the NetBAY3E is similar to installing it in a rack cabinet. The basic steps for installing a device on side rails in the enclosure are as follows:

1. Refer to the device documentation for detailed installation information.
   
   **Note:** If you need to install or move cage nuts at the front or rear of the enclosure, see “Installing and moving cage nuts” on page 3.

2. Turn the device power off and remove all cables and connectors from the device.

3. Install the side rails into the NetBAY3E enclosure.

---

*Figure 6. Installing side rails in the enclosure*
4 CAUTION:
Use safe practices when lifting.

4. Install the device on the side rails.

Figure 7. Installing a device on a side rail in the enclosure

After installing the device, you can stack another NetBAY3E enclosure or attach a server.

Installing cantilevered devices

Installing cantilevered devices in an enclosure is similar to installing these devices in a rack cabinet. You can install cantilevered devices in the front or rear of the enclosure. You must secure the devices to the NetBAY3E enclosure vertical mounting rails.

The basic steps for installing a cantilevered device are as follows:

1. Refer to the device documentation for detailed installation information.

   Note: If you need to install or move cage nuts at the front or rear of the enclosure, see “Installing and moving cage nuts” on page 3.

2. Turn the device power off and remove all cables and connectors from the device.
3. Install the device in the enclosure.

The following figure shows a power distribution unit (PDU) installed in the rear of the enclosure:

![Figure 8. Installing a PDU in the rear of the enclosure](image)

After installing the device, you can stack another NetBAY3E enclosure or install a server on the top enclosure.

## Installing devices on the enclosure base plate

Some devices rest on the enclosure base plate. You must secure these devices to the NetBAY3E enclosure vertical mounting rails.

The basic steps for installing a device on the enclosure base plate are as follows:

1. Refer to the device documentation for detailed installation information.

   **Note:** If you need to install or move cage nuts at the front or rear of the enclosure, see “Installing and moving cage nuts” on page 3.

2. Turn the device power off and remove all cables and connectors from the device.
4 CAUTION:
   Use safe practices when lifting.

3. Install the device in the enclosure.

Figure 9. Installing a device on the enclosure base plate

After installing the device, you can stack another NetBAY3E enclosure or attach a server.
Installing a server

You must attach a server to the top of a single NetBAY3E enclosure or multiple attached enclosures. Before installing the server you must first:

1. Install and lock the casters on the bottom enclosure (the one that comes with the 8Ux28D Rack-to-Tower Kit).
2. When stacking enclosures, make sure they are securely fastened together. (See “Stacking enclosures” on page 12.)
3. Make sure that rear covers are securely attached to empty enclosures.

You can install compatible IBM Netfinity servers on the NetBAY3E enclosure; have the server documentation handy for reference. Use the following general procedure to attach servers:

1. Refer to the server documentation and the IBM Netfinity 8Ux28D Rack-to-Tower Kit Installation Instructions for detailed installation information.
2. Turn the server power off and remove all cables and connectors from the server.
3. If the server has skid pads or casters installed, remove them from the bottom of the server.
4. If the server has a front door installed, remove it.
5. If the server side covers are already installed, remove them so that you can access the mounting holes on the server.
4 **CAUTION:**

Use safe practices when lifting.

6. Carefully lift the server by its handles and align its mounting holes with the NetBAY3E enclosure mounting studs.

---

**Figure 10. Installing a server on the enclosure**

18kg (37lbs)  
32kg (70.5lbs)  
55kg (121.2lbs)
7. Lower the server onto the enclosure and use an 8mm wrench to tighten the eight M5 nuts (four per side) to secure the server to the enclosure.

8. Remove the server handles, or store them out of the way; then, install the server side covers and front door. Refer to the *IBM Netfinity 8Ux28D Rack-to-Tower Kit Installation Instructions* for detailed side cover and door installation information.

9. Install the NetBAY3E enclosure front bezel.

**Figure 11. Installing the enclosure front bezel**

10. Connect all server and device cables and connectors.
Stacking enclosures

You can stack and attach up to three NetBAY3E enclosures as follows:

1. Install and lock the casters on the enclosure that comes with the 8Ux28D Rack-to-Tower Kit.
2. Install a device in the bottom enclosure (see “Installing devices in the enclosure” on page 4).
3. Install a second NetBAY3E enclosure:
   a. Place the second enclosure on top of the bottom enclosure.
   b. Install and tighten the eight M5 nuts that come with the NetBAY3E enclosure.
4. Install a device in the second enclosure, if applicable.
5. Install a third NetBAY3E enclosure:
   a. Place the third enclosure on top of the second enclosure.
   b. Install and tighten the eight M5 nuts that come with the NetBAY3E enclosure.
6. Install a device in the third enclosure, if applicable.
7. Install a server on the top enclosure, if applicable.
8. Slide the caster stabilizer that comes with the 8Ux28D Rack-to-Tower Kit into place on the front (swivel) casters.
9. Connect all server and device cables and connectors as appropriate.
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If you need help, service, technical assistance, or just want more information about IBM products, you will find a wide variety of sources available from IBM to assist you.

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- **IBM Hardware Repair** - If the problem is determined to be caused by IBM hardware under warranty, trained service personnel are available to provide the applicable level of service.
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- Machine Type and Model
- Serial numbers of your IBM hardware products
- Description of the problem
- Exact wording of any error messages
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On the World Wide Web, the IBM Personal Computing Web site has up-to-date information about IBM Personal Computer products and support.

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This section contains important product warranty and notice information about your product.

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  (Part 1 - General Terms on page 14)
- **Worldwide except Canada, Puerto Rico, Turkey, and United States** (Z125-5697-01 11/97)
  (Part 1 - General Terms on page 16)
- **Worldwide Country-Unique Terms**
  (Part 2 - Country-Unique Terms on page 18)

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*Contact your place of purchase for warranty service information. Some IBM Machines are eligible for On-site warranty service depending on the country where service is performed.

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   b. secure all programs, data, and funds contained in a Machine,
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IBM or your reseller provides certain types of repair and exchange service, either at your location or at a service center, to keep Machines in, or restore them to, conformance with their Specifications. IBM or your reseller will inform you of the available types of service for a Machine based on its country of installation. IBM may repair the failing Machine or exchange it at its discretion.

When warranty service involves the exchange of a Machine or part, the item IBM or your reseller replaces becomes its property and the replacement becomes yours. You represent that all removed items are genuine and unaltered. The replacement may not be new, but will be in good working order and at least functionally equivalent to the item replaced. The replacement assumes the warranty service status of the replaced item.

Any feature, conversion, or upgrade IBM or your reseller services must be installed on a Machine which is 1) for certain Machines, the designated, serial-numbered Machine and 2) at an engineering-change level compatible with the feature, conversion, or upgrade. Many features, conversions, or upgrades involve the removal of parts and their return to IBM. A part that replaces a removed part will assume the warranty service status of the removed part.

Before IBM or your reseller exchanges a Machine or part, you agree to remove all features, parts, options, alterations, and attachments not under warranty service.

You also agree to

1. ensure that the Machine is free of any legal obligations or restrictions that prevent its exchange;
2. obtain authorization from the owner to have IBM or your reseller service a Machine that you do not own; and
3. where applicable, before service is provided
   a. follow the problem determination, problem analysis, and service request procedures that IBM or your reseller provides,
   b. secure all programs, data, and funds contained in a Machine,
   c. provide IBM or your reseller with sufficient, free, and safe access to your facilities to permit them to fulfil their obligations, and
   d. inform IBM or your reseller of changes in a Machine's location.

IBM is responsible for loss of, or damage to, your Machine while it is 1) in IBM's possession or 2) in transit in those cases where IBM is responsible for the transportation charges.

Neither IBM nor your reseller is responsible for any of your confidential, proprietary or personal information contained in a Machine which you return to IBM or your reseller for any reason. You should remove all such information from the Machine prior to its return.

**Production Status**

Each IBM Machine is manufactured from new parts, or new and used parts. In some cases, the Machine may not be new and may have been previously installed. Regardless of the Machine's production status, IBM's appropriate warranty terms apply.

**Limitation of Liability**

Circumstances may arise where, because of a default on IBM's part or other liability, you are entitled to recover damages from IBM. In each such instance, regardless of the basis on which you are entitled to claim damages from IBM (including fundamental breach, negligence, misrepresentation, or other contract or tort claim), IBM is liable for no more than

1. damages for bodily injury (including death) and damage to real property and tangible personal property; and
2. the amount of any other actual direct damages, up to the greater of U.S. $100,000 (or equivalent in local currency) or the charges (if recurring, 12 months' charges apply) for the Machine that is the subject of the claim.

This limit also applies to IBM's suppliers and your reseller. It is the maximum for which IBM, its suppliers, and your reseller are collectively responsible.

UNDER NO CIRCUMSTANCES IS IBM LIABLE FOR ANY OF THE FOLLOWING: 1) THIRD-PARTY CLAIMS AGAINST YOU FOR DAMAGES (OTHER THAN THOSE UNDER THE FIRST ITEM LISTED ABOVE); 2) LOSS OF, OR DAMAGE TO, YOUR RECORDS OR DATA; OR 3) SPECIAL, INCIDENTAL, OR INDIRECT DAMAGES OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS OR SAVINGS), EVEN IF IBM, ITS SUPPLIERS OR YOUR RESELLER IS INFORMED OF THEIR POSSIBILITY. SOME JURISDICTIONS DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
Part 2 - Worldwide Country-Unique Terms

ASIA PACIFIC

AUSTRALIA: The IBM Warranty for Machines: The following paragraph is added to this Section:
The warranties specified in this Section are in addition to any rights you may have under the Trade Practices Act 1974 or other legislation and are only limited to the extent permitted by the applicable legislation.

Extent of Warranty: The following replaces the first and second sentences of this Section:
The warranty does not cover the repair or exchange of a Machine resulting from misuse, accident, modification, unsuitable physical or operating environment, operation in other than the Specified Operating Environment, improper maintenance by you, or failure caused by a product for which IBM is not responsible.

Limitation of Liability: The following is added to this Section:
Where IBM is in breach of a condition or warranty implied by the Trade Practices Act 1974, IBM's liability is limited to the repair or replacement of the goods or the supply of equivalent goods. Where that condition or warranty relates to right to sell, quiet possession or clear title, or the goods are of a kind ordinarily acquired for personal, domestic or household use or consumption, then none of the limitations in this paragraph apply.

PEOPLE'S REPUBLIC OF CHINA: Governing Law: The following is added to this Statement:
The laws of the State of New York govern this Statement.

INDIA: Limitation of Liability: The following replaces items 1 and 2 of this Section:
1. liability for bodily injury (including death) or damage to real property and tangible personal property will be limited to that caused by IBM's negligence;
2. as to any other actual damage arising in any situation involving nonperformance by IBM pursuant to, or in any way related to the subject of this Statement of Warranty, IBM's liability will be limited to the charge paid by you for the individual Machine that is the subject of the claim.

NEW ZEALAND: The IBM Warranty for Machines: The following paragraph is added to this Section:
The warranties specified in this Section are in addition to any rights you may have under the Consumer Guarantees Act 1993 or other legislation which cannot be excluded or limited. The Consumer Guarantees Act 1993 will not apply in respect of any goods which IBM provides, if you require the goods for the purposes of a business as defined in that Act.

Limitation of Liability: The following is added to this Section:
Where Machines are not acquired for the purposes of a business as defined in the Consumer Guarantees Act 1993, the limitations in this Section are subject to the limitations in that Act.

EUROPE, MIDDLE EAST, AFRICA (EMEA)

The following terms apply to all EMEA countries.
The terms of this Statement of Warranty apply to Machines purchased from an IBM reseller. If you purchased this Machine from IBM, the terms and conditions of the applicable IBM agreement prevail over this warranty statement.

Warranty Service
If you purchased an IBM Machine in Austria, Belgium, Denmark, Estonia, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland or United Kingdom, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

If you purchased an IBM Personal Computer Machine in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Georgia, Hungary, Kazakhstan, Kirghizia, Federal Republic of Yugoslavia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

The applicable laws, Country-unique terms and competent court for this Statement are those of the country in which the warranty service is being provided. However, the laws of Austria govern this Statement If the warranty service is provided in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Federal Republic of Yugoslavia, Georgia, Hungary, Kazakhstan, Kirghizia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

The applicable laws, Country-unique terms and competent court for this Statement are those of the country in which the warranty service is being provided. However, the laws of Austria govern this Statement If the warranty service is provided in Albania, Armenia, Belarus, Bosnia and Herzegovina, Bulgaria, Croatia, Czech Republic, Federal Republic of Yugoslavia, Georgia, Hungary, Kazakhstan, Kirghizia, Former Yugoslav Republic of Macedonia (FYROM), Moldova, Poland, Romania, Russia, Slovak Republic, Slovenia, or Ukraine, you may obtain warranty service for that Machine in any of those countries from either (1) an IBM reseller approved to perform warranty service or (2) from IBM.

The following terms apply to the country specified:

EGYPT: Limitation of Liability: The following replaces item 2 in this Section:
2. as to any other actual direct damages, IBM's liability will be limited to the total amount you paid for the Machine that is the subject of the claim.

Applicability of suppliers and resellers (unchanged).

FRANCE: Limitation of Liability: The following replaces the second sentence of the first paragraph of this Section:
In such instances, regardless of the basis on which you are entitled to claim damages from IBM, IBM is liable for no more than: (items 1 and 2 unchanged).

GERMANY: The IBM Warranty for Machines: The following replaces the first sentence of the first paragraph of this Section:
The warranty for an IBM Machine covers the functionality of the Machine for its normal use and the Machine's conformity to its Specifications.

The following paragraphs are added to this Section:
The minimum warranty period for Machines is six months.

In case IBM or your reseller are unable to repair an IBM Machine, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepairable Machine or ask for a cancellation of the respective agreement for such Machine and get your money refunded.

Extent of Warranty: The second paragraph does not apply.

Warranty Service: The following is added to this Section:
During the warranty period, transportation for delivery of the failing Machine to IBM will be at IBM's expense.

Production Status: The following paragraph replaces this Section:
Each Machine is newly manufactured. It may incorporate in addition to new parts, re-used parts as well.

Limitation of Liability: The following is added to this Section:
The limitations and exclusions specified in the Statement of Warranty will not apply to damages caused by IBM with fraud or gross negligence and for express warranty.

In item 2, replace “U.S. $100,000” with “1.000.000 DEM.”

The following sentence is added to the end of the first paragraph of item 2:
IBM's liability under this item is limited to the violation of essential contractual terms in cases of ordinary negligence.

IRELAND: Extent of Warranty: The following is added to this Section:
Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

Limitation of Liability: The following replaces items one and two of the first paragraph of this Section:
1. death or personal injury or physical damage to your real property solely caused by IBM's negligence; and 2. the amount of any other actual direct damages, up to the greater of Irish Pounds 75,000 or 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim.

Applicability of suppliers and resellers (unchanged).

The following paragraph is added at the end of this Section:
IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default shall be limited to damages.

ITALY: Limitation of Liability: The following replaces the second sentence in the first paragraph:
In each such instance unless otherwise provided by mandatory law, IBM is liable for no more than: (item 1 unchanged) 2)as to any other actual damage arising in all situations involving non-performance by IBM pursuant to, or in any way related to the subject matter of this Statement of Warranty, IBM's liability, will be limited to the total amount you paid for the Machine that is the subject of the claim.

Applicability of suppliers and resellers (unchanged).

The following replaces the second paragraph of this Section:
Unless otherwise provided by mandatory law, IBM and your reseller are not liable for any of the following: (items 1 and 2 unchanged) 3) indirect damages, even if IBM or your reseller is informed of their possibility.

SOUTH AFRICA, NAMIBIA, BOTSWANA, LESOTHO AND SWAZILAND: Limitation of Liability: The following is added to this Section:
IBM's entire liability to you for actual damages arising in all situations involving nonperformance by IBM in respect of the subject matter of this Statement of Warranty will be limited to the charge paid by you for the individual Machine that is the subject of your claim from IBM.
TURKIYE: Production Status: The following replaces this Section:
IBM fulfills customer orders for IBM Machines as newly manufactured in accordance with IBM's production standards.

UNITED KINGDOM: Limitation of Liability: The following replaces items 1 and 2 of the first paragraph of this Section:
1. death or personal injury or physical damage to your real property solely caused by IBM's negligence;
2. the amount of any other actual direct damages or loss, up to the greater of Pounds Sterling 150,000 or 125 percent of the charges (if recurring, the 12 months' charges apply) for the Machine that is the subject of the claim or which otherwise gives rise to the claim.

The following item is added to this paragraph:

Applicability of suppliers and resellers (unchanged).

The following is added to the end of this Section:
IBM's entire liability and your sole remedy, whether in contract or in tort, in respect of any default will be limited to damages.

NORTH AMERICA

CANADA: Warranty Service: The following is added to this Section:
To obtain warranty service from IBM, call 1-800-565-3344.

UNITED STATES OF AMERICA: Warranty Service: The following is added to this Section:
To obtain warranty service from IBM, call 1-800-772-2227.
Notices

References in this publication to IBM products, programs, or services do not imply that IBM intends to make these available in all countries in which IBM operates. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Subject to IBM's valid intellectual property or other legally protectable rights, any functionally equivalent product, program, or service may be used instead of the IBM product, program, or service. The evaluation and verification of operation in conjunction with other products, except those expressly designated by IBM, are the responsibility of the user.

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