Solaris 8 (Intel Platform Edition) 10/00 Release Notes

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Contents

Preface

The *Solaris™ 8 (Intel Platform Edition) 10/00 Release Notes* contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 10/00 operating environment.

Note - In this document the term “IA” refers to the Intel 32–bit processor architecture, which includes the Pentium, Pentium Pro, Pentium II, Pentium II Xeon, Celeron, Pentium III, and Pentium III Xeon processors and compatible microprocessor chips made by AMD and Cyrix.

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 8 10/00 operating environment.

Related Books

You may need to refer to the following manuals when installing Solaris software:

- *Solaris 8 Start Here*
- *Solaris 8 (Intel Platform Edition) Installation Guide*
- *Solaris 8 Advanced Installation Guide*
- *Solaris 8 Installation Supplement*

- *Solaris 8 (Intel Platform Edition) 10/00 Hardware Compatibility List*
- *Solaris 8 (Intel Platform Edition) Device Configuration Guide*
- The Solaris 8 10/00 release notes are available:
  - In the Solaris 8 10/00 Release Documents Collection on the Solaris 8 10/00 Documentation CD
  - In print with the product (installation issues and bugs only)
  - On `http://docs.sun.com` (the most up-to-date information)
- *Solaris 8 System Administration Supplement*

Solaris documentation is available on the Solaris 8 10/00 Documentation CD included with this product.

For some hardware configurations, you may need supplemental hardware-specific instructions for installing the Solaris operating environment. 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 for hardware-specific installation instructions.

Ordering Sun Documents

Fatbrain.com, an Internet professional bookstore, stocks select product documentation from Sun Microsystems, Inc.

For a list of documents and how to order them, visit the Sun Documentation Center on Fatbrain.com at `http://www1.fatbrain.com/documentation/sun`.

Accessing Sun Documentation Online

The docs.sun.com[SM] Web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. The URL is `http://docs.sun.com`.

Solaris Certification Program

Information about the Solaris hardware certification program can be found on the Internet at `http://soldc.sun.com/support/certify`. Occasionally, an updated Hardware Compatibility List is produced between releases. If a newer version of this document exists, it will be available at the certification web site.

CHAPTER 1

Installation Issues

This chapter describes problems relating to the installation of the Solaris 8 10/00 operating environment. For late-breaking Solaris installation issues identified too late to be included in these release notes, refer to the *Solaris 8 (Intel Platform Edition) 10/00 Release Notes Update* in the Solaris 8 10/00 Update Collection on `http://docs.sun.com`.

Note - The name of this product is Solaris 8 10/00, but code and path or package path names may use Solaris 2.8 or SunOS™ 5.8. Always follow the code or path as it is written.

Note - The *Solaris 8 (Intel Platform Edition) Hardware Compatibility List* is updated continuously. The latest version of the Hardware Compatibility List is available at `http://soldc.sun.com/support/drivers/hcl`.

Solaris Web Start 3.0 Issues You Need to Know About Before Using the Solaris 8 Installation CD

Solaris Web Start 3.0 Installation Partition Issue

If Solaris Web Start 3.0 on the Solaris 8 Installation CD is unable to locate a Solaris `fdisk` partition on a system, you must create a Solaris `fdisk` partition on your `root` disk.

Caution - If you change the size of an existing `fdisk` partition, all data on that partition is automatically deleted. Back up your data before you create a Solaris `fdisk` partition.

Solaris Web Start 3.0 requires two `fdisk` partitions to perform an installation.

- Solaris `fdisk` partition

  This is the typical Solaris `fdisk` partition.

- x86 Boot `fdisk` partition

  This is a 10–Mbyte `fdisk` partition that enables Intel architecure to boot the miniroot that is placed on the newly created swap slice located on the Solaris `fdisk` partition.

Note - The Solaris Web Start 3.0 installation utility creates the x86 boot partition, removing 10–Mbytes from the Solaris `fdisk` partition. This prevents any existing `fdisk` partitions from being altered.

This partition should not be created manually.

This requirement also prevents you from using Web Start 3.0 to upgrade from the Solaris 2.6 or Solaris 7 releases to the Solaris 8 operating environment. For more information, refer to “Upgrade Issues” on page 23.

System Identification Bugs

System Identification Tools Fail to Verify Name Server (4265363)

If you are configuring the name service (NIS+, NIS or DNS) on a system and the name server(s) exist on another subnet and the router does not broadcast its route, then the system identification tools fail to verify the name server.

If you choose DNS as the name service, the installation program prompts you to accept the unverified data and continue. If you choose NIS+ or NIS as the name service, the system identification cannot continue without verification and the name service cannot be configured during installation.

Workaround: Choose one of the following workarounds.

1. If you are installing using a graphical interface, open a terminal window and type the following command to add a router:

```
# route add default <ip_address_of_router>
```

2. If you are installing using a command line interface, choose `nameservice = none`. After the installation is complete, create the `/etc/defaultrouter` file and run `sys-unconfig`.

Solaris Web Start 3.0 Bugs You Need to Know About Before Using the Solaris 8 Installation CD

Cannot Specify an Alternate Network Interface to Use During System Identification on Network Gateway Systems (4302896)

A network gateway is used to communicate with other networks. A gateway system contains multiple network interface adapters and each adapter connects with a different network.

If you use the Solaris 8 10/00 Installation CD to install the Solaris 8 10/00 operating environment on a gateway system, Solaris Web Start 3.0 uses the primary interface to gather system information. You cannot instruct Solaris Web Start 3.0 to use an alternate network interface to gather information for system identification.

Workaround: To specify another interface for gathering system information, choose one of the following workarounds.

- Create a `sysidcfg` file that specifies the network interface to use during system identification. See "Guidelines for Preconfiguring With the sysidcfg File" in *Solaris 8 Advanced Installation Guide* and the man page `sysidcfg`(4) for information on how to create and modify a `sysidcfg` file.
- Use the Solaris 8 10/00 Software 1 of 2 CD to launch an Interactive Installation of the Solaris 8 10/00 operating environment. Specify that the system is networked, and then select the alternate network interface to use for system identification from the list provided.

Issues You Need to Know About Before Installing Solaris 8 Software

Locale Installation Mechanism Change

The locale support installation mechanism has changed in the Solaris 8 operating environment. In the Solaris 2.5.1, 2.6, and 7 operating environments, the level of locale support installed depended on the software cluster chosen. The Solaris 8 operating environment includes a new installation interface that prompts you to select specific geographic regions for which you require locale support. Therefore, you have more freedom to customize the configuration of your system when you install the Solaris 8 operating environment more than was possible in the Solaris 2.5.1, 2.6, and 7 operating environments.

Notice especially the following behaviors:

- You must select the locales to be installed during the initial installation in the Geographic Selection screen. `C` (POSIX locale) and `en_US.UTF-8` (Unicode support) are the only locales that are automatically installed.
- When you upgrade from previous releases, some of the locales are automatically selected depending on the available locales on the system to be upgraded. Note that English, French, German, Italian, Spanish, and Swedish partial locales were always present on the system in the Solaris 2.5.1, 2.6, and 7 operating environments.
- Unicode locales (UTF-8) have a feature to enable multilingual text input. Because these locales use Asian input methods that are provided by each individual locale, install those Asian locales for which you need to type text.

Do Not Install a Large Partition on Systems That Already Have `symhisl`, `mega`, or `cpqncr` Disk Controller Drivers Installed

If you attempt to install a large partition (one that extends beyond the 8–Gbyte boundary) on a disk that uses any of the controllers listed next, the installed system does not behave properly.

The Solaris operating environment installation program cannot detect that the driver does not support large partitions. The installation continues without displaying an error. However, when you reboot your system, the reboot may fail.

Even if you successfully reboot your system, it will fail later because of other changes related to boot devices or added packages. The disk controllers associated with these drivers are:

- Symbios 53C896–based controllers (`symhisl`)
- AMI MegaRAID controllers (`mega`)
- Compaq 53C8xx-based SCSI controllers (`cpqncr`)

Workaround: Do not install a large partition that extends beyond the first 8 Gbytes of a disk on systems that have disk controllers driven by the `symhisl`, `mega`, or `cpqncr` drivers.

Update the DPT PM2144UW Controller BIOS to the Latest Revision Before Upgrading to the Solaris 8 Operating Environment

The Solaris 8 operating environment includes a new feature that enables you to install large partitions. The DPT PM2144UW controller's BIOS must support Logical Block Addressing (LBA). The latest revision of the BIOS fully supports LBA access. The problem can also affect other DPT controller models.

Workaround: Prior to upgrading your system to the Solaris 8 operating environment, ensure that the DPT PM2144UW controller's BIOS is the latest available version from DPT.

To determine if your system has a DPT controller, perform the following steps:

1. Run the `prtconf -D`.
2. If the name `dpt` is displayed, run the card's configuration utility to obtain information about the model and BIOS revision.
3. Upgrade DPT PM2144UW controllers by flashing the BIOS or by installing the latest BIOS EPROM obtained from DPT. See `http://www.dpt.com` for the latest BIOS images for all DPT controllers.

You can now upgrade the system to the Solaris 8 operating environment.

Do Not Upgrade Hewlett-Packard (HP) Vectra XU Series Systems With BIOS Version GG.06.13

The Solaris 8 operating environment includes a new feature that enables you to install large partitions. The system BIOS must support Logical Block Addressing (LBA).

BIOS Version GG.06.13 does not support LBA access. The Solaris boot programs cannot manage this conflict. The problem can also affect other HP Vectra systems.

If you perform this upgrade, your HP system will no longer boot. Only a blank black screen with a flashing underbar cursor is displayed.

Workaround: Do not upgrade HP Vectra XU Series systems with the latest BIOS Version GG.06.13 to the Solaris 8 operating environment because it no longer supports these systems.

You can still boot your system using the boot diskette or boot CD because the boot paths do not use the hard disk code. Then select the hard disk as your bootable device instead of the network or CD-ROM drive.

Direct Memory Access (DMA) Is Disabled on PCI-IDE Systems

By default, the Solaris `ata` device driver has the DMA feature disabled for ATA/ATAPI devices. Installing the Solaris 8 operating environment works properly with DMA disabled.

To enable the DMA feature for improved performance, see “Direct Memory Access (DMA) Is Disabled On PCI-IDE Systems” on page 38.

Installation Bugs That Occur During a Solaris Web Start 3.0 Installation

`cpio` Error Messages Occur When Booting From IA Boot Partition (4327051)

If you use the Solaris 8 10/00 Installation CD, the following error messages are recorded in the `/var/sadm/system/logs/cd0_install.log` file.

```
cpio: Cannot chown() "/tmp/x86_boot/solaris", errno 22, Invalid argument
cpio: Error during chown() of "/tmp/x86_boot/solaris/
boot.bin", errno 22, Invalid argument
cpio: Cannot chown() "/tmp/x86_boot/solaris/
boot.bin", errno 22, Invalid argument
```

These messages indicate that Web Start 3.0 on the Solaris 8 10/00 Installation CD cannot change the ownership of the files needed to boot from the IA boot partition. Because the IA boot partition is a PCFS file system and does not support the `chown` command, the `cpio` errors occur.

Workaround: Ignore the error messages.

Installation Bugs That Occur During an Interactive Installation From Solaris 8 1 of 2 CD

`ddi: net:` x86 Network Boot Only Works on First Network Interface of a Given Type (1146863)

Booting over the network must be done on the primary network interface of IA-based systems.

Identifying the primary network interface is a matter of trial and error, but the first or last network device listed on the Boot Solaris menu is likely to be the primary interface.

As soon as you have determined the primary interface, it remains the primary interface every time you boot unless you make a change to the hardware configuration. If you change the hardware configuration, the primary interface may or may not change, depending on the type of changes made.

If you boot from a non-primary network interface, the booting system hangs and a boot server is not contacted. (This problem can also occur if the system is not registered as a client of the boot server.)

Installation Progress Bar May Be Inaccurate (1266156)

The Installing Solaris Software - Progress bar sometimes indicates that an installation is complete when it is still in progress. The installation program may add packages for several minutes after the progress bar has indicated that the installation is complete.

Do not rely on the progress bar to indicate that the installation is complete. The installation displays the following message when the program has completed all installation operations.

```
Installation complete
```

Warnings May Occur When a File System Is Created (4189127)

One of the following warning messages may be displayed when a file system is created during installation.

```
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 being created does not map exactly to the space on the disk 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.

Custom JumpStart Does Not Prompt for the Solaris 8 Software 2 of 2 CD (4304912)

After installing the Solaris 8 Software 1 of 2 CD, a custom JumpStart™ installation does not prompt you to install the Solaris 8 Software 2 of 2 CD.

Workaround: Choose one of the following workarounds:

- If you are installing only the End User software group, you do not need to install the Solaris 8 Software 2 of 2 CD because the End User software and its basic locale support are on the Solaris 8 Software 1 of 2 CD.
- If you are installing the Entire Distribution plus OEM, Entire Distribution, or Developer software, and are using a custom JumpStart installation from a server, use a network install server that contains the Solaris 8 1 of 2, 2 of 2, and Languages CDs. See "Creating a Profile Server" in *Solaris 8 Advanced Installation Guide*.
- If you are installing the Entire Distribution plus OEM, Entire Distribution, or Developer software and are using a custom JumpStart installation from a diskette, follow these steps to install the Solaris 8 Software 2 of 2 and Languages CDs:

  1. After the custom JumpStart completes the installation of the Solaris 8 Software 1 of 2 CD, reboot the system.

2. Log in to the system.
3. Insert the Solaris 8 Software 2 of 2 CD.
4. Execute the `installer` command and follow the instructions on the screen to install the remaining software.
5. Insert the Solaris 8 Languages CD.
6. Execute the `installer` command and follow the instructions on the screen to install any languages.

Upgrade Issues

Cannot Use Solaris Installation CD to Upgrade Intel Systems to the Solaris 8 Operating Environment

You cannot use Solaris Web Start 3.0 on the Solaris 8 Installation CD to upgrade IA-based systems from the Solaris 2.6 or 7 operating environments to the Solaris 8 operating environment because of the x86 boot partition requirement. Use the Solaris Software 1 of 2 CD to upgrade to the Solaris 8 operating environment on IA-based systems.

Priority Paging Is Not Needed With the New Solaris 8 Caching Architecture

The Solaris 8 operating environment introduces a new file system caching architecture, which subsumes the Solaris 7 Priority Paging functionality. You should not set the system variable *priority_paging* in the Solaris 8 operating environment, and you should remove the variable from the `/etc/system` file when systems are upgraded to the Solaris 8 operating environment.

The new caching architecture removes most of the pressure on the virtual memory system that resulted from file system activity. As a result, the new caching architecture changes the dynamics of the memory paging statistics, which makes observing system memory characteristics simpler. However, several of the statistics report significantly different values. You should consider these differences when analyzing memory behavior or setting performance monitoring thresholds. The most notable differences are:

- The number of page reclaims is higher, which you should consider normal operation during heavy file system activity.
- The amount of free memory is higher because the free memory count now includes a large component of the file system cache.
- Scan rates are almost zero unless there is a shortage of system-wide available memory. Scanning is no longer used to replace the free list during normal file system I/O.

Installation Bugs That Occur During an Upgrade

Caution - Be sure to read bug description ID 4121281 before you start upgrading your IA (Intel architecture) based system to the Solaris 8 operating environment.

DiskSuite May Cause Data Loss (4121281)

The DiskSuite™ `metadb` replicas contain driver names as part of the DiskSuite configuration data. In IA-based systems that run versions 2.4, 2.5, 2.5.1, and 2.6 of the Solaris operating environment, the SCSI driver name is `cmdk`. The `cmdk` driver has been replaced by the `sd` driver in the Solaris 7 and 8 operating environments for IA-based systems.

Workaround: To avoid potential data loss during upgrades to the Solaris 7 and 8 operating environments, you must save the system's meta device configurations in text files and remove their `metadb` replicas before upgrading any IA-based system that is running DiskSuite software. After you finish upgrading your IA-based system, you must restore the meta device configurations by using the DiskSuite command line interface.

The *DiskSuite Version 4.2 Release Notes* describe a procedure for saving `metadb` configurations, removing `metadb` replicas, upgrading IA-based systems to the Solaris 7 and 8 operating environments, upgrading DiskSuite to version 4.2, and restoring meta device configurations. Bourne shell scripts that automate the procedure are available for the Solaris 7 and 8 operating environments.

Obsolete Files in SUNWpmi and SUNWxwpls Are Not Removed When Upgrading From the Solaris 7 11/99 Operating Environment to the Solaris 8 Operating Environment (4313654)

When upgrading to the Solaris 8 operating environment, obsolete files in SUNWpmi or SUNWxwpls may not be removed. In addition, the permissions for the /usr/openwin/server/etc/OWconfig file are different in the Solaris 8 operating environment than in past Solaris releases.

The presence of these obsolete files and the difference in file permissions for OWconfig do not cause problems on your upgraded system.

Workaround: Ignore the error messages that list obsolete SUNWpmi or SUNWxpls files that were not removed during the upgrade. Ignore the error messages indicating that the file permissions of /usr/openwin/server/etc/OWconfig are different from what was expected.

Upgrading the Solaris 7 Operating Environment With Web-Based Enterprise Management (WBEM) 1.0 to the Solaris 8 Operating Environment Causes WBEM 2.0 Not to Work (4274920)

If you installed WBEM 1.0 from the Solaris Easy Access Server (SEAS) 3.0 CD on a system running the Solaris 7 operating environment, you must remove the WBEM 1.0 packages before upgrading to the Solaris 8 operating environment. The Solaris WBEM Services 2.0 do not start after upgrading the Solaris 7 operating environment with WBEM 1.0 to the Solaris 8 operating environment. The Common Information Model (CIM) Object Manager fails to start. The following error message is displayed.

```
File not found: /opt/sadm/lib/wbem/cimom.jar
```

Workaround: Use the pkgrm command to remove the WBEM 1.0 packages before upgrading to the Solaris 8 operating environment.

1. Use the pkginfo command to check if the WBEM 1.0 packages are installed by typing:

   ```
   % pkginfo | grep WBEM
   ```

2. Become superuser.
3. Use the pkgrm command to remove all WBEM 1.0 packages by typing:

```
# pkgrm SUNWwbapi
# pkgrm SUNWwbcor
# pkgrm SUNWwbdev
# pkgrm SUNWwbdoc
# pkgrm SUNWwbm
```

SUNWeeudt Partially Fails to Install During an Upgrade (4304305)

The upgrade log may state that the SUNWeeudt package was only partially installed.

```
Doing pkgadd of SUNWeeudt to /.
ERROR: attribute verification of
</a/usr/dt/appconfig/types/ru_RU.KOI8-R/datatypes.dt>
failed pathname does not exist ...

Installation of <SUNWeeudt> partially failed.
pkgadd return code = 2
```

Workaround: Perform the following steps after the upgrade has been completed.

1. Remove the SUNWeeudt package by typing:

```
# pkgrm SUNWeeudt
```

2. Add the SUNWeeudt package by typing:

```
# pkgadd SUNWeeudt
```

Localization Bugs

Invalid Language Option K018-R (4342970)

K018-R is an invalid language. It appears in the Language Selection Screen when installing from the Solaris 8 1 of 2 CD. If chosen, installation is not affected and will run in English.

Turkish Locale Does Not Install From Solaris 8 1 of 2 CD (4359095)

The Turkish locale does not install when using Solaris 8 1 of 2 CD. The following error message appears:

```
couldn’t set locale correctly
```

Workaround: Install through the C language and add Turkish Support.

Error Messages May Occur During European Upgrade (4230247, 4225787)

After upgrading from the Solaris 7 3/99, 5/99, 8/99 or 11/99 operating environments to the Solaris 8 10/00 operating environment, the following errors may appear in the upgrade logs.

```
Doing pkgadd of SUNWplow to /.
pkgadd: ERROR: unable to create package object
</a/usr/openwin/share/locale/de.ISO8859-15>.
    file type <s> expected <d> actual
    unable to remove existing directory at
</a/usr/openwin/share/locale/de.ISO8859-15>
....
Installation of <SUNWplow> partially failed.
pkgadd return code = 2


Doing pkgadd of SUNWpldte to /.
WARNING: /a/usr/dt/appconfig/types/de.ISO8859-15
may not overwrite a populated directory.
......
```

(continued)

(Continuation)

```
pkgadd: ERROR: /a/usr/dt/appconfig/types/de.ISO8859-15
could not be installed.
.......
Installation of <SUNWpldte> partially failed.
pkgadd return code = 2
```

This warning occurs because the patch switches the affected directories listed in the upgrade logs from symbolic links to directories. The upgrade process then attempts to install an updated version of the package that does not include the change. These errors do not affect the operating environment on your system.

Workaround: Ignore these error messages.

Swedish Locale: Dialog Boxes Displayed During Installation Are Not Localized (4300655)

The Solaris interactive installation dialog box has not been localized except for the title. The section that has not been localized begins with the following text.

```
You'll be using the initial option .....
```

French and Italian Installation Wizards May Display {0} Instead of the CD Title (4302549)

{0} is occasionally displayed in French and Italian where a CD title normally appears.

Motif `suninstall` Fails in `de_AT.ISO8859-15` and `fr_BE.ISO8859-15` Locales (4305420)

Installing the operating environment by using the two languages specified causes parts of the installation process to be displayed in English. In addition, not all localization packages are installed. The following message is displayed.

```
XView warning: "de" kann nicht als Sprachumgebungs-Kategorie
Ausgabesprache (gesetzt über Umgebungsvariable(n)) verwendet
werden, wenn Standardspracheauf"de_AT.ISO8859-15" gesetzt ist
(Server Package)
XView warning: Requested input method style not supported.
(Server package)
```

Workaround: Install the Solaris operating environment using the German or French ISO8859-1 locales.

German Locale: Add and Cancel Buttons in the Proxy Kiosk Screen Are Labeled as Undefined (4306260)

The German Web Start Kiosk proxy information dialog box has the OK and Cancel buttons labeled as *Undefined*. The button on the left should be OK and the button on the right should be Cancel.

CHAPTER 2

Solaris Runtime Issues

This chapter describes known runtime problems. For late-breaking Solaris runtime issues identified too late to be included in these release notes, refer to the *Solaris 8 (Intel Platform Edition) 10/00 Release Notes Update* in the Solaris 8 10/00 Update Collection on `http://docs.sun.com`.

Note - The name of this product is Solaris 8 10/00, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Common Desktop Environment (CDE) Issues

Compiling Motif Programs on the Solaris 8 Operating Environment

A problem occurs when compiling a Motif program in the Solaris 8 operating environment when you link to a shared library that has been compiled in the Solaris 2.4, 2.5, 2.5.1 or 2.6 operating environments and the older library also uses the Motif Application Programming Interface (API).

The Motif program uses Motif version 2.1 and the old shared library uses Motif version 1.2. A core dump occurs. This is not a binary compatibility problem for applications compiled in the Solaris 2.4, 2.5, 2.5.1, 2.6 operating environments, which should run correctly in the Solaris 8 operating environment.

Workaround: If you have an older shared library that links directly to the Motif library, and if you want to compile a program in the Solaris 8 operating environment that links to both Motif and that older shared library, use a line like this to compile:

```
cc foo.c -o program -DMOTIF12_HEADERS -I/usr/openwin/include -I/usr/dt/
include
-lXm12 -lXt -lX11
```

where *program* is the name of the program you are compiling.

Common Desktop Environment Bugs

OpenWindows File Manager Fails to Mount Diskette (4329368)

If you insert a diskette into its drive on a system with SCSI removable media devices and then select Check for Floppy from the File menu in OpenWindows™ File Manager, File Manager mounts the diskette in the `/floppy` directory, but fails to display a File Manager view listing the disk contents. The Format Floppy and Eject Floppy options do not appear in the File menu of File Manager.

Workaround: Choose one of the following workarounds.

- To view the contents of a diskette, follow these steps:
  1. Click on the `/` folder in the File Manager Iconic Path.
  2. Double-click on the `floppy` folder in the / display window.
  3. Double-click on the `floppy0` folder in the `/floppy` display window.
- To format a diskette, follow these steps:
  1. Unmount the diskette.

     ```
     % volrmmount -e floppy0
     ```

     where *floppy0* is the floppy disk's folder in the `/floppy` directory.
  2. Format the diskette.

     ```
     % fdformat floppy0
     ```

- To create a new file system on a diskette, follow these steps:

Note - If you have already unmounted the diskette, go to step 2 of this workaround.

1. Unmount the diskette.

```
% volrmmount -e floppy0
```

where *floppy0* is the diskette's folder in the `/floppy` directory.

2. Create the appropriate file system on the diskette.

   - To create a new UFS file system on the diskette, use the `newfs` command:

```
% newfs /vol/dev/aliases/floppy0
```

   - To create a PCFS file system on the diskette, use the `mkfs` command:

```
% mkfs -F pcfs /vol/dev/aliases/floppy0
```

3. Mount the diskette.

```
% volrmmount -i floppy0
```

- To eject the diskette, use the `eject` command.

```
% eject floppy0
```

To prevent this problem, apply patch 109464-01.

PDASync Cannot Delete Last Entry From the Desktop (4260435)

After deleting the last item from the desktop (for example, the last appointment in your Calendar or the last address in the Address Manager), it is restored from the handheld device to the desktop when you synchronize your handheld device.

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

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 may be corrupted in both environments.

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

System Administration Bugs

`sd` Driver May Not Detect New `fdisk` Partition Table Information (4304790)

If you attempt to reformat a Zip or Jaz disk and change the disk file system from a PC file system (like PCFS) to a UNIX file system (like UFS or UDFS), you may receive the following error message:

```
No Solaris Partition, eject and retry: I/O Error
```

In this instance, the IA `sd` driver does not detect that you changed the `fdisk` partition table. The driver refers to the old `fdisk` partition table, rather than the new `fdisk` partition table.

Workaround: If you receive the error message listed above, follow these steps to resynchronize the `sd` driver with the disk contents:

1. **Manually eject the Zip or Jaz disk from the drive.**
2. **Reinsert the Zip or Jaz disk into the drive.**
3. **Format the Zip or Jaz disk, using the same format command you used previously to format the disk.**

Obsolete Files Still Present in Help System (4339515)

After selecting Help -> Information from the Front Panel, a list of obsolete files is returned. The correct file is `S8FCSreleasenotes`.

CIM_ERR_LOW_ON_MEMORY Error Occurs When Trying to Add Data With WBEM (4312409)

The following error message is displayed when memory is low:

```
CIM_ERR_LOW_ON_MEMORY
```

You cannot add more entries when the Common Information Model (CIM) Object Manager has run low on memory. You must reset the CIM Object Manager Repository.

Workaround: To reset the CIM Object Manager Repository:

1. Become superuser.
2. Stop the CIM Object Manager.

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

3. Remove the JavaSpaces log directory.

```
# /bin/rm -rf /var/sadm/wbem/log
```

4. Restart the CIM Object Manager.

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

Note - You will lose any proprietary definitions in your datastore. You must recompile the MOF files that contain those definitions using the `mofcomp` command. For example:

```
# /usr/sadm/bin/mofcomp -u root -p root_password your_mof_file
```

`mofcomp` Fails Due to a WBEM JavaSpaces Problem (4336719)

When running either `/usr/sadm/bin/mofcomp` or `/usr/sadm/bin/wbemadmin` the following error message may appear:

```
NO_SUCH_QUALIFIER1: Qualifier association not found.
```

You must reset the CIM Object Manager Repository.

Workaround: To reset the CIM Object Manager Repository:

1. Become superuser.

2. Stop the CIM Object Manager.

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

3. Rename the JavaSpaces log directory.

```
# mv /var/sadm/wbem/log /var/sadm/wbem/logprepatch
```

4. Restart the CIM Object Manager.

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

Note - You will lose any proprietary definitions in your datastore. You must recompile the MOF files that contain those definitions using the `mofcomp` command. For example:

```
# /usr/sadm/bin/mofcomp -u root -p root_password your_mof_file
```

WBEM Common Information Model Object Manager Crashes When `Solaris_FileSystem` Instances Are Requested (4301275)

If you enumerate instances of the `Solaris_FileSystem` class by using CIM WorkShop or the WBEM APIs, then the CIMOM no longer runs and the following error message is displayed:

```
Attempted to complete RMI action
enumInstances and received exception
java.rmi.UnmarshalException: Error
unmarshaling return header; nested
exception is:
java.io.EOFException
```

Workaround: In superuser mode, restart the CIMOM by typing the following command:

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

Hardware Configuration Bugs

Systems With Small Memory Configurations Panic During Boot Time If They Have Several USB Devices (4359440)

USB capable systems with small memory configurations might panic when booting from either disk, CD or a network when several USB devices are connected. One of the following panic messages will appear in this event:

```
panic[cpu0]/thread=1040800: main: unable to fork init
```

or

```
panic[cpu0]/
thread=2a1000fdd40: BAD TRAP: type=31 rp=2a1000fd0a0 addr=c0 mmu_fsr=0
occurred in module "genunix" due to a NULL pointer dereference
```

Workaround: If you have more than 4 USB devices, boot the system with only the USB keyboard and mouse connected. After you see the Solaris login prompt, connect the remaining USB devices.

Java Runtime Issues

Java Plug-in Support

Java Plug-in 1.2 is the default plug-in that runs Java 2 applets but not all Java 1.1 applets. If you require the Java Plug-in 1.1, you can download it from `http://www.sun.com/solaris/netscape`.

If you choose to have both Java Plug-in 1.1 and Java Plug-in 1.2 on the same system, you must follow the instructions for how to install Java Plug-in 1.1 and then configure your environment accordingly.

This procedure is outlined in the “Installing Java Plug-in” section of the *Java Plug-in for Solaris Users Guide* that is available from `http://www.sun.com/solaris/netscape/jpis/usersguide_java_plugin.html`.

Performance Issue

Direct Memory Access (DMA) Is Disabled On PCI-IDE Systems

By default, the Solaris `ata` device driver has the DMA feature disabled for ATA / ATAPI devices.

This feature has been disabled to avoid problems on some systems that do not properly support DMA on ATA / ATAPI drives. Most of the problems are related to an outdated system BIOS.

To enable (or disable) DMA for the `ata` driver after an installation of the Solaris 8 operating environment:

1. Run the Solaris (Intel Platform Edition) Device Configuration Assistant from the boot diskette or the installation CD (if your system supports CD-ROM booting).

Note - When booting with the boot diskette, the new `ata-dma-enabled` property value will be preserved on the diskette. Therefore, the changed value is in effect when reusing the boot diskette.

---

2. Press F2_Continue to scan for devices.
3. Press F2_Continue to display a list of boot devices.
4. Press F4_Boot Tasks, select View / Edit Property Settings, and press F2_Continue.
5. Change the value of the `ata-dma`-enabled property to 1 to enable DMA (a value of 0 disables DMA):
   a. Select the `ata-dma`-enabled property from the list and press F3_Change.
   b. Type **`1`** and press F2_Continue to enable (type **`0`** and press F2_Continue to disable).
   c. Press F2_Back, then F3_Back to return to the Boot Solaris menu.
   d. Select the device from which you want to install (network adapter or CD-ROM drive) and press F2_Continue.

Note - If any problems occur after enabling DMA, disable DMA (set the `ata-dma`-enabled property to **`0`** using the above procedure), update your system with the latest BIOS from your hardware manufacturer, and then re-enable DMA.

AnswerBook2 Bugs

The ab2admin Command Intermittently Indicates command failed Even Though the Command Succeeded (4242577)

If the ab2admin command fails, the error message contains additional information besides command failed. For example, it may also include path not found or invalid ID.

Workaround: If the message command failed is displayed, make sure that the operation failed. For example, if the command you submitted should have deleted a collection from the AnswerBook2 database, type the following command to verify that the collection is displayed in the database.

```
# ab2admin -o list
```

You can frequently ignore the message command failed when no additional information is provided.

ab2cd Script Displays an Erroneous Error Message (4256516)

During the startup of an AnswerBook2™ server, the ab2cd script may display the following erroneous error message.

```
sort: can't read /tmp/ab1_sort.XXX: No such file or directory
```

This error message states that the ab2cd script has not located any of the AnswerBook (Display PostScript™) collections on the CD.

Workaround: Ignore the error message.

Localization Issues

Use Font Downloader to Print From Any Non-ISO8859-1 Locale

Perform the following steps to print from any non-ISO8859-1 locale using the Font Downloader.

1. Log in to CDE.
2. Type `fdl` at the command line to start the Font Downloader.
3. Specify the printer by selecting Add from the Printer menu.
4. Select Font Bundle from the Download menu.

   The font bundles are then downloaded to the specified printer, depending on what codeset is needed for printing.

Localization Bugs

UTF-8 Version of `sdtwinlst` and `sdtgwm` Are Not Localized For European Languages (4352800, 4352861)

`sdtwinlst` (Windows List) and `sdtgwm` (Graphical Workspace Manager) are unlocalized in UTF-8 selected encodings for European languages.

Workaround: Login to an ISO8859-1 encoding, then run `sdtwinlst` and `sdtgwm`.

Some Greek Characters Are Not Available in CDE (4179411)

Some dead-key combinations do not work correctly in CDE. Also, names for months do not function correctly in the Calendar Manager in the Greek locale.

Cannot Print Extended Characters in Calendar Manager in All Partial Locales (4285729)

If you attempt to print extended characters when using Calendar Manager in a partial locale, the extended characters do not print correctly.

Cutting and Pasting Text Between Arabic and UTF-8 English Does Not Work (4287746)

You cannot cut or paste Arabic text between an application or window running under `en_US.UTF-8` in Arabic input mode and one running under `ar_EY.ISO8859-6` in Arabic input mode.

The CDE Extras Drop-Down Menu Is Not Available for European Locales (4298547)

When you right-click in any CDE application for a European locale, the CDE Extras drop-down menu does not display any options.

CTL Is Not Supported in Japanese and Asian UTF-8 Locales (4300239)

Complex Text Language (CTL) support for entering Hebrew, Arabic, or Thai has been implemented in `en_US.UTF-8` and European UTF-8 locales, but is not supported in `ja_JP.UTF-8`, `ko.UTF-8`, also known as `ko_KR.UTF-8`, `zh.UTF-8`, which is also known as `zh_CH.UTF-8`, and `zh_TW.UTF-8` locales.

Workaround: Use the `en_US.UTF-8` locale if you need to enter Thai, Arabic, or Hebrew using CTL. If you want to enter those languages in Asian and Japanese UTF-8 locales:

1. Create a symbolic link to common CTL modules. In the case of `ja_JP.UTF-8`:

```
# cd /usr/lib/locale/ja_JP.UTF-8
# mkdir LO_LTYPE ; cd LO_LTYPE
# ln -s ../../common/LO_LTYPE/umle.layout.so.1
 ja_JP.UTF-8.layout.so.1
# mkdir sparcv9 ; cd sparcv9
# ln -s ../../../common/LO_LTYPE/sparcv9/umle.layout.so.1
```

(continued)

(Continuation)

```
ja_JP.UTF-8.layout.so.1
```

2. Edit the `/usr/openwin/lib/locale/ja_JP.UTF-8/XLC_LOCALE` file by commenting out the `load_option delay_nocheck` line from Thai, Arabic, or Hebrew entries. For example, in the case of Thai:

```
# fs14 class (Thai)
  fs14    {
        charset         TIS620.2533-0:GR
        font {
            # load_option delay_nocheck  <--- comment out
            primary     TIS620.2533-0:GR
        }
}
```

Screens in Several Applications Have Not Been Localized (4301212,)

The applications SmartCard, AnswerBook2, Solaris PDASync, Printer Administrator, Removable Media Manager, Graphical Workspace Manager, and Hotkey Editor are not fully localized.

Cannot Add, Remove, or Modify Users in Solstice AdminTool in the Greek Locale (4302983)

The Add, Modify, and Remove User screens are blank in the Greek locale of the Solstice AdminTool software.

Workaround: In superuser mode, copy the following file :

```
# cp /usr/openwin/lib/locale/C/app-defaults/Admin
  /usr/openwin/lib/locale/el_GR.ISO8859-7/app-defaults/Admin
```

You can now add, remove, and modify user information in the Greek locale.

Font Downloader Add and Cancel Buttons Are Incorrectly Labeled in the Italian Locale (4303549)

When you are in the Italian locale using the Font Downloader, both the Add and Cancel buttons in the Add Printer dialog box are incorrectly labeled; they are both labeled A ....

- The left button should be labeled Aggiungi (Add).
- The right button should be labeled Annulla (Cancel).

Missing Arabic Characters and Incompatibility Between the Sun Arabic Keyboard and the Microsoft Arabic Keyboard (4303879)

The following table describes the differences between the Sun Solaris Arabic keyboard and the Microsoft Arabic keyboard.

TABLE 2–1 Differences Between Sun and Microsoft Arabic Keyboards

Key	Sun Keyboard Layout	Microsoft Keyboard Layout
T	T	Arabic Lam_alef with Hamza below
U	U	Right single quotation mark
I	I	Arabic multiplication sign
O	O	Arabic division sign
A	;	Arabic Kasra
S	S	Arabic Kasratan
Z	Z	Tilde
X	X	Arabic Sukun
C	Arabic Kasratan	Left curly bracket
V	Arabic Kasra	Right curly bracket

TABLE 2–1 Differences Between Sun and Microsoft Arabic Keyboards *(continued)*

Key	Sun Keyboard Layout	Microsoft Keyboard Layout
M	Sukun	Single low quotation mark
<	<	Arabic comma

SEAM Application Displays Messages That Are Not Localized (4306619)

SEAM uses some of the resource files in the Solaris 8 operating environment, but only when the Kerberos settings are selected during an installation.

The Euro Currency Symbol Is Not Adequately Supported in the UTF-8 and Greek Locales (4306958, 4305075)

The Euro currency symbol is not generated when pressing AltGr+E in the UTF-8 locale.

Workaround: Perform the following steps to enter the Euro currency symbol in the UTF-8 locale:

1. Select Lookup in the UTF-8 Input Mode Selection window.
2. Select Currency Symbols.
3. Select the Euro symbol.

Note - In the Greek locale type **dumpcs** at the console prompt. Then copy and paste the Euro currency symbol.

Sorting in the European UTF-8 Locales Does Not Function Correctly (4307314)

Sorting 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 ISO1 equivalent.

```
# echo $LC_COLLATE
>  es_ES.UTF-8
# setenv LC_COLLATE es_ES.IS08859-1
```

Then start sorting.

CHAPTER 3

Late-Breaking News

This chapter includes information on new features that arrived too late to be included in the Solaris 8 documentation set. For information on new features in the Solaris 8 10/00 operating environment, refer to the Solaris 8 10/00 Update AnswerBook Collection on `http://docs.sun.com`.

PIM Kernel Support

The Solaris 8 operating environment includes kernel support for the PIM protocol as described in RFC 2362. The Solaris 8 operating environment does not include the routing daemons, but for those users who want to use the Solaris 8 operating environment to route their multicast network traffic, implementations of the PIM protocol (both Sparse and Dense mode) may be found at `http://netweb.usc.edu/pim`.

Configuring Runtime Search Paths

You can now modify the runtime linkers search paths with the `–z nodefaultlib` option to the `ld` command and with runtime configuration files created by the new utility `crle`(1).

CHAPTER 4

End-of-Software Support Statements

This chapter lists end-of-support statements. For late-breaking end-of-support statements identified too late to be included in these release notes, refer to the *Solaris 8 (Intel Platform Edition) 10/00 Release Notes Update* in the Solaris 8 10/00 Update Collection on `http://docs.sun.com`.

Current Release

HotJava Browser

The HotJava™ browser is no longer supported.

Solaris Java Development Kit: JNI 1.0 Interface

The 1.0 version of the Java Native Interface (JNI 1.0) is no longer supported by the Solaris Java Development Kit version 1.2 (JDK™ 1.2).

Support in the Solaris Java Development Kit (JDK) for the 1.0 version of the Java Native Interface (JNI 1.0) has been removed. JNI 1.0 is also known as the Native Method Interface (NMI).

Solstice AdminSuite 2.3/AutoClient 2.1

Solstice AdminSuite™ 2.3 software is no longer supported with the Solaris 8 operating environment. Any attempt to run Solstice AdminSuite 2.3 to configure a Solstice AutoClient or diskless client will result in a failure for which no patch is

available or planned. While it may be possible to manually edit configuration files to enable diskless clients, such an operation is not recommended or supported.

F3 Font Technology

F3 fonts and the TypeScaler rasterizer, Sun's proprietary scalable font technology, is no longer supported. Sun will continue to support the industry standard font formats, Type1 and TrueType.

XGL

XGL is no longer supported.

Derived Type `paddr_t`

The `paddr_t` data type found in `sys/types.h` is not supported in the 64-bit compilation environment. It is currently only available in the 32-bit compilation environment.

Changes to Application Programming Interfaces (APIs) for User Accounting Data

Two sets of APIs allow user accounting data to be accessed by applications. The preferred set of programming interfaces for accessing and manipulating user accounting information is described on the `getutxent`(3C) man page. These interfaces are both more capable and more portable than the older `getutent`(3C) routines.

Older applications may access the underlying accounting files directly. The files `/var/adm/utmp` and `/var/adm/wtmp` and the corresponding symbolic links `/etc/utmp` and `/etc/wtmp` are no longer supported. The format of the data contained in these files constrains the future evolution of the Solaris operating environment. Applications using these files should be updated to use the documented and supported APIs.

Applications that are already using the `getutent`(3C) family of routines may be unaffected on small system configurations. However, in future releases these interfaces may return errors when used on very large system configurations. For this reason, use the `getutxent`(3C) routines for both old and new code in place of the `getutent`(3C) APIs.

The `sysidnis`(1M) System Identification Program

`sysidnis`(1M) is no longer supported. `sysidnis`(1M) is the System Identification program responsible for configuring name services during installation, upgrade, and after unconfiguration using `sys-unconfig`(1M).

`sysidnis`(1M) has been replaced by `sysidns`(1M).

Console Subsystem

The console subsystem for the Solaris operating environment running on an IA-based system has been replaced. The replacement is more compatible with the console subsystem for the Solaris operating environment running on a SPARC-based system and provides for future extensibility. This replacement has invalidated a large number of undocumented and unsupported interfaces, as well as some documented interfaces.

Documented interfaces:

- *pcmapkeys(1)*
- *loadfont(1)*
- *loadfont(4)*

Undocumented and unsupported interfaces:

- `ioctls` listed in `/usr/include/sys/kd.h`
- `ioctls` listed in `/usr/include/sys/vt.h`
- VT support
- `/dev/vt*`
- The terminal type for the console is no longer AT386; it is now sun-color.

Video Cards

The Solaris operating environment may no longer support drivers for the following video cards:

- Boca Voyager 64
- Compaq QVision 1024
- Compaq QVision 2000
- FIC 864P

- Everex ViewPoint 64P
- Everex VBA Trio 64P
- Matrox Impression Plus
- Western Digital Paradise Bahamas

Future Releases

GMT Zoneinfo Timezones

The zoneinfo timezones in the following left column may no longer be supported in a future release. These files may be removed from `/usr/share/lib/zoneinfo`. Replace usage of the zoneinfo timezones in the left column with the equivalent timezones in the right column.

Note - When setting the *TZ* environment variable to a zoneinfo GMT[+-]* timezone, the timezone must be preceded with a colon (':') character. For example, replace the zoneinfo timezone setting `TZ=:GMT+1`, which is 1 hour east of the Prime Meridian, with the equivalent zoneinfo timezone setting `TZ=:Etc/GMT-1`.

The planned removal of the zoneinfo GMT[+-]* timezones does not affect `POSIX`-style GMT[+-]* timezone settings, for example `TZ=GMT+1` (without the colon character). An equivalent zoneinfo timezone, located under `/usr/share/lib/zoneinfo/Etc` and with the same name, may be used instead. The `POSIX`-style timezone only displays the string "GMT" in the abbreviated timezone name, while the zoneinfo timezone displays the offset from GMT. For example, replace the `POSIX`-style timezone setting, `TZ=GMT+1`, with the equivalent zoneinfo timezone setting `TZ=:Etc/GMT+1`.

See `environ.5` and `zoneinfo.4` for more information.

TABLE 4–1 GMT zoneinfo Timezones

zoneinfo Timezone Which May Be Removed in a Future Release	Replace Usage With Equivalent zoneinfo Timezone
GMT-12	Etc/GMT+12
GMT-11	Etc/GMT+11
GMT-10	Etc/GMT+10
GMT-9	Etc/GMT+9

TABLE 4–1 GMT zoneinfo Timezones *(continued)*

zoneinfo Timezone Which May Be Removed in a Future Release	Replace Usage With Equivalent zoneinfo Timezone
GMT-8	Etc/GMT+8
GMT-7	Etc/GMT+7
GMT-6	Etc/GMT+6
GMT-5	Etc/GMT+5
GMT-4	Etc/GMT+4
GMT-3	Etc/GMT+3
GMT-2	Etc/GMT+2
GMT-1	Etc/GMT+1
GMT+1	Etc/GMT-1
GMT+2	Etc/GMT-2
GMT+3	Etc/GMT-3
GMT+4	Etc/GMT-4
GMT+5	Etc/GMT-5
GMT+6	Etc/GMT-6
GMT+7	Etc/GMT-7
GMT+8	Etc/GMT-8
GMT+9	Etc/GMT-9
GMT+10	Etc/GMT-10
GMT+11	Etc/GMT-11
GMT+12	Etc/GMT-12
GMT+13	Etc/GMT-13

Solstice AdminTool

Solstice AdminTool (`admintool`) may no longer be supported in a future release. This tool performs user management, printer management, software package management, serial port management, group management, and host management.

The print management function is currently available in the Solaris 8 operating environment (see `/usr/sadm/admin/bin/printmgr`).

Solstice Enterprise Agents

Solstice Enterprise Agents may no longer be supported in a future release. This functionality has been replaced by the Solaris Web-Based Enterprise Management (WBEM) Services feature that is released as part of the Solaris 8 operating environment.

XIL

XIL may no longer be supported in a future release. An application using 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 8.
Please notify your application supplier.
The message can be suppressed by setting the environment variable
"_XIL_SUPPRESS_OBSOLETE_MSG.
```

Lightweight Directory Access Protocol (LDAP) Client Library

LDAP client library, `libldap.so.3`, may no longer be supported in a future release. The new version of this library, `libldap.so.4`, is compliant with the `draft-ietf-ldapext-ldap-c-api-04.txt` revision of the `ldap-c-api` draft from the Internet Engineering Task Force (IETF).

JDK 1.1.x and JRE 1.1.x

Version 1.1.x of the JDK and JRE may no longer be supported in a future release. Near-equivalent functionality is supported by Java 2 Standard Edition, versions 1.2 onwards.

SUNWrdm

The SUNWrdm package, formerly containing release notes and installed in /usr/share/release_info, may not be included on the Solaris Software CD in a future release.

For release notes, refer to the Release Notes on the Solaris Documentation CD, the printed Installation Release Notes, or the Release Notes Update available on http://docs.sun.com.

crash(1M) Utility

The crash(1M) utility may no longer be supported in a future release. The crash command is a utility that examines system crash dump files, whose functionality is superseded by the new mdb(1) utility. The crash command's interface has been structured around implementation details, such as slots, that have no relation to the Solaris operating system implementation.

"Transition From crash" in *Solaris Modular Debugger Guide* provides information for users who wish to transition from using crash to using mdb.

Kerberos Version 4 Client

The Kerberos version 4 client may be removed in a future release. This includes the Kerberos version 4 support in the kinit(1), kdestroy(1), klist(1), ksrvtgt(1), mount_nfs(1M), share(1M), and kerbd(1M) commands, in the kerberos(3KRB) library, and in the ONC RPC programming API kerberos_rpc(3KRB).

adb(1) Map Modifiers and Watchpoint Syntax

The adb(1) utility may be implemented as a link to the new mdb(1) utility in a future version of the Solaris 8 operating environment.

The mdb(1) man page describes the features of the new debugger, including its adb(1) compatibility mode. Even in this compatibility mode, differences between adb(1) and mdb(1) exist. They are:

- The text output format of some subcommands is different in `mdb`(1). Macro files are formatted using the same rules, but scripts that depend on the output of other subcommands may need to be modified.
- The watchpoint length specifier syntax in `mdb`(1) is different from the syntax described in `adb`(1). The `adb`(1) watchpoint commands `:w`, `:a`, and `:p` allow an integer length (in bytes) to be inserted between the colon and the command character. In `mdb`(1), the count should be specified following the initial address as a repeat count.

  The `adb`(1) command `123:456w` is specified in `mdb`(1) as `123,456:w`.
- The `/m`, `/*m`, `?m`, and `?*m` format specifiers are not recognized or supported by `mdb`(1).

OpenWindows Toolkits for Developers

OpenWindows™ XView™ and OLIT toolkits may no longer be supported in a future release. You may want to migrate to the Motif toolkit. To disable the warning message, use `#define OWTOOLKIT_WARNING_DISABLED` or `-D`.

OpenWindows Environment For Users

The OpenWindows environment may no longer be supported in a future release. You may want to migrate to CDE, the Common Desktop Environment.

Federated Naming Service (FNS)/XFN Libraries and Commands

The Federated Naming Service based on the X/Open XFN standard may no longer be supported in a future release.

Solaris `ipcs`(1) Command

The ability to apply the `ipcs`(1) command to system crash dumps using the `–C` and `–N` command line options may no longer be supported in a future release. Equivalent functionality is now provided by the `mdb`(1) `::ipcs` debugger command.

Deprecate `sendmail –AutoRebuildAliases` Option

The `–AutoRebuildAliases` option for the `sendmail`(1m) man page is deprecated and may no longer be supported in a future release.

`devconfig`

`devconfig` may no longer be supported in a future release.

Device Support and Driver Software

The following table lists devices and driver software that may no longer be supported in a future release.

TABLE 4–2 Device Support and Driver Software

Name of Physical Device	Name of Driver	Type of Card
Mylex/Buslogic FlashPoint Ultra PCI SCSI	`flashpt`	SCSI HBA
Qlogic	`hxhn`	SCSI HBA
AMI MegaRAID host bus adapter, first generation	`mega`	SCSI RAID
Madge Token Ring Smart 16/4, Madge Token Ring Smart 16/4 PCI BM Mk2, Madge Token Ring Smart 16/4 PCI BM Mk1, and Madge Token Ring PCI Presto	`mtok`	Network
Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI	`cpqncr`	SCSI HBA
Compaq Integrated NetFlex-3 10/100 T PCI, Compaq NetFlex-3/P, Compaq NetFlex-3 DualPort 10/100 TX PCI, Compaq Netelligent 10 T PCI, and Compaq Netelligent 10/100 TX PCI	`cnft`	Network
Compaq SMART-2/P Array Controller and Compaq SMART-2SL Array Controller	`smartii`	SCSI RAID controller

Intel 486–Based Systems

The Solaris operating environment may no longer be supported on Intel 486–based systems in a future release.

CHAPTER 5

Documentation Issues

This chapter describes known documentation problems. For documentation issues identified too late to be included in these release notes, refer to the *Solaris 8 (Intel Platform Edition) 10/00 Release Notes Update* in the Solaris 8 10/00 Update Collection on `http://docs.sun.com`.

Note - The name of this product is Solaris 8 10/00, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Documentation Errata

Document Affected: `usbprn(7D)` man page (4347481)

USB printing using the `usbprn(7D)` device driver is not supported in the *Solaris 8 (Intel Platform Edition) 10/00* release.

In the `usbprn(7D)` man page, the value of the Architecture attribute incorrectly states that support is limited to PCI-based systems. The value of the Architecture attribute in the ATTRIBUTES section should read:

Limited to PCI-based SPARC systems.

Documents Affected: “Adaptec AHA-2940AU, 2940U, 2940U Dual, 2940UW, 2940UW Dual, 2940U2, 2940U2B, 2940U2W, 2944UW, 2950U2B, 3940AU, 3940AUW, 3940AUWD, 3940U, 3940UW, 3944AUWD, 3950U2B HBAs” in the *Solaris 8 (Intel Platform Edition) Device Configuration Guide*, adp(7D) and cadp(7D) in the *Solaris 8 Reference Manual Collection* , and *What’s New in the Solaris 8 Operating Environment*

Current statement:

The Adaptec Ultra devices are supported by the cadp driver and they support PCI hot-plugging.

Should read as follows:

The Adaptec Ultra SCSI devices:

- AHA-2940AU
- AHA-2940U
- AHA-2940U Dual
- AHA-2940UW
- AHA-2940UW Dual
- AHA-2944UW
- AHA-3940AU
- AHA-3940AUW
- AHA-3940AUWD
- AHA-3940U
- AHA-3940UW

are now supported by the adp driver instead of the cadp driver as stated in the following documents:

- *Solaris 8 Reference Manual Collection* adp(7D) and cadp(7D)
- *What’s New in the Solaris 8 Operating Environment*
- *Solaris 8 (Intel Platform Edition) Device Configuration Guide*

PCI hot-plugging is not supported for these Ultra SCSI devices. However, the Ultra 2 SCSI devices supported by the cadp driver support PCI hot-plugging.

Document Affected: *Solaris 8 (Intel Platform Edition) Device Configuration Guide*

The ninth and tenth bulleted items in the “Known Problems and Limitations” section of the “Adaptec AHA-2940AU, 2940U, 2940U Dual, 2940UW, 2940UW Dual, 2940U2, 2940U2B, 2940U2W, 2944UW, 2950U2B, 3940AU, 3940AUW, 3940AUWD, 3940U, 3940UW, 3944AUWD, 3950U2B HBAs” in the *Solaris 8 (Intel Platform Edition) Device Configuration Guide* should read as follows:

- When setting up a SCSI bus configuration, avoid connecting wide devices to a narrow bus. However, if you have such a configuration, add the following entry to the `cadp.conf` file:

```
target<n>-scsi-options=0x1df8
```

  where *<n>* is the target ID of the wide device on the narrow bus. This entry disables wide negotiation for the specified target. Also ensure that the upper 8 bits of the bus are properly terminated at both ends of the SCSI chain.

- If you experience installation problems on systems with Intel 440BX/440GX motherboards, upgrade the motherboard BIOS with the latest revision.

Document Affected: “IPv6 Header Format” in *System Administration Guide, Volume 3*

The 4-bit Priority field description reflects RFC 1883, which has been obsoleted by RFC 2460 (Solaris 8 implements RFC 2460). Consequently, the Priority field has been replaced by an 8-bit Traffic Class field. The IPv6 Header Format figure should identify the Traffic Class field in place of the Priority field. The Priority bullet on this page should also be replaced by the following Traffic Class description:

Traffic Class - 8 bit traffic class field.

This new value also reduces the number of bits allocated to the "Flow Label" field to 20 bits.

Document Affected: “Priority Values” in *System Administration Guide, Volume 3*

The 4-bit Priority field description reflects RFC 1883, which has been obsoleted by RFC 2460 (Solaris 8 implements RFC 2460). Consequently, the Priority field has been

replaced by the 8-bit Traffic Class field. The Priority section should be replaced by the following Traffic Classes section.

Traffic Classes

Originating nodes and forwarding routers can use the 8-bit Traffic Class field in the IPv6 header to identify and distinguish between different classes or priorities of IPv6 packets.

The following general requirements apply to the Traffic Class field.

- The service interface to the IPv6 service within a node must provide a means for an upper-layer protocol to supply the value of the Traffic Class bits in packets originated by that upper-layer protocol. The default value must be zero for all 8 bits.
- Nodes that support a specific use of some or all of the Traffic Class bits can change the value of those bits in packets that they originate, forward, or receive, as required for that specific use. Nodes should ignore and leave unchanged any bits of the Traffic Class field for which they do not support a specific use.

Document Affected: “Implementing IPsec” in *System Administration Guide, Volume 3*

Step 10c in this procedure incorrectly omits the addition of the *up* parameter required in the line added to the `/etc/hostname.ip.tun0` file. Consequently, the *up* parameter must be added at the end of the line entry in this step.

Document Affected: “NFS Parameters for the nfs Module” in *System Administration Guide, Volume 3* (4299091)

Several corrections apply to this section:

- For the `nfs_32_time_ok` symbol:
  - Change the symbol name to: `nfs_allow_preepoch_time`.
  - Change the description to: This symbol controls whether the NFS client or server allows file time stamps that precede 1970.
  - No change to the default description.
  - Delete the `nfs_acl_cache` symbol entry.

- Add an `nfs_disable_rddir_cache` symbol entry.
  - Description: Some servers do not properly update the attributes of the directory when changes are made. To allow interoperability with these broken servers, set this variable to disable the `readdir` cache.
  - Default: Set to `off(0)`.
- For the `nfs_lookup_neg_cache` and `nfs3_lookup_neg_cache` symbols:
  - Change the default to 1. Ignore the comment about the directory name caching.
- For the `nrnode` symbol:
  - Change the default description to: *set to ncsize*. By setting the variable to 1 you are effectively disabling the cache, not because there is an explicit check to see whether or not it is 1 but because you are creating a very small cache.
- For the `nfs_write_error_interval` symbol:
  - Change the description: This symbol controls how often NFS ENOSPC and EDQUOT write error messages are logged. Its units are in seconds.
  - No change to the default description.

Document Affected: "NFS Parameters for the nfs Module" in *System Administration Guide, Volume 3* (4299091)

- Delete the `nfsreadmap` symbol entry.

Document Affected: "NFS Parameters for rpcsec Parameters" in *System Administration Guide, Volume 3* (4299091)

For the `authdes_cachesz` symbol:

- Change the default description: Defaults to 1024.
- Delete the `authkerb_cachesz` symbol entry.

- Delete the `authkerb_win` symbol entry.

Document Affected: “Mobile IP Mobility Agent Status” and “Displaying Mobility Agent Status” in *Mobile IP Administration Guide*

Current statement:

Use the `mipagentstat`(1M) command’s `–b` option to display the home agent’s binding table.

Should read as follows:

Use the `mipagentstat`(1M) command’s `–h` option to display the home agent’s binding table.

Document Affected: “Managing Mobile IP” and “Deploying Mobile IP” in *Mobile IP Administration Guide*

The Address Section in the Mobile IP configuration file has a parameter named Default-Node. This parameter name is incorrect. Node-Default is the correct parameter name.

Document Affected: `sdtgwm(1)` man page (4330198)

The `–w` option described in the man page `sdtgwm(1)` is not supported in the Solaris 8 10/00 operating environment.

Document Affected: “To Create a Boot Server on a Subnet" in “Creating an Install Server and a Boot Server” in *Solaris 8 Advanced Installation Guide* (4327931)

The instructions to create a boot server over a subnet incorrectly direct you to use the Solaris 8 Software 2 of 2 CD and the Solaris 8 Languages CD. If you follow these instructions, the following error message is displayed.

```
An existing install server cannot be found at /image_name.
  This tool can only add packages to an install server that already exists.
```

When following the instructions "To Create a Boot Server on a Subnet" in the“Creating an Install Server and a Boot Server” in *Solaris 8 Advanced Installation Guide*, skip Steps 6 through 15.

CHAPTER 6

CERT Advisories

This chapter lists all CERT Advisories as of 1/6/2000.

TABLE 6–1 CERT Advisories

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-96.01	UDP Port Denial-of-Service Attack	Solaris 2.5.1	See CERT Advisory for more details
CA-96.03	Kerberos 4 Key Server	N/A	See CERT Advisory for more details
CA-96.04	Corrupt Information from Network Servers	Solaris 2.5.1	Solaris 8 operating environment not affected
CA-96.05	Java	N/A	Solaris 8 operating environment not affected
CA-96.06	NCSA/Apache CGI	N/A	Solaris 8 operating environment not affected
CA-96.07	Java Bytecode Verifier	N/A	See CERT Advisory for more details
CA-96.08	PCNFSD	N/A	
CA-96.09	`rps.statd`	Solaris 2.5.1	

TABLE 6–1 CERT Advisories *(continued)*

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-96.10	NIS+ Configuration	Solaris 2.5.1	
CA-96.11	Interpreters in CGI bin	N/A	
CA-96.12	suidperl	N/A	
CA-96.13	dip	N/A	
CA-96.14	rdist	Solaris 2.6	
CA-96.15	KCMS	Solaris 2.6	
CA-96.16	AdminTools	Solaris 2.6	
CA-96.17	vold	Solaris 2.6	
CA-96.18	fm_fls	N/A	
CA-96.19	expreserve	Solaris 2.5	
CA-96.20	sendmail resource starvation	Solaris 2.6	
CA-96.21	TCP SYN Flood	Solaris 2.6	
CA-96.22	bash	N/A	
CA-96.23	workman	N/A	
CA-96.24	sendmail daemon mode vulnerability	N/A	Solaris 8 operating environment not affected
CA-96.25	sendmail group permissions	Solaris 2.6	
CA-96.26	ping	Solaris 2.6	
CA-96.27	HP Software Installtion Programs	N/A	
CA-97.01	FLEXlm	N/A	
CA-97.02	HP-UX newgrp	N/A	

TABLE 6–1 CERT Advisories *(continued)*

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-97.03	csetup	N / A	
CA-97.04	talkd	Solaris 2.6	
CA-97.05	MIME Conversion Buffer Overflow	N / A	Solaris 8 operating environment not affected
CA-97.06	rlogin-term	Solaris 2.6	
CA-97.07	nph-test	N / A	
CA-97.08	innd	N / A	
CA-97.09	imap and pop	N / A	Solaris 8 operating environment not affected
CA-97.10	Natural Language	N / A	Solaris 8 operating environment not affected
CA-97.11	libXt	Solaris 2.6	
CA-97.12	webdist.cgi	N / A	
CA-97.13	xlock	Solaris 2.6	
CA-97.14	metamail	N / A	
CA-97.15	SGI Login	N / A	
CA-97.16	ftpd	N / A	Solaris 8 operating environment not affected
CA-97.17	sperl	N / A	
CA-97.18	at	Solaris 2.6	
CA-97.19	bsdlp	N / A	Solaris 8 operating environment not affected
CA-97.20	JavaScript	N / A	

TABLE 6–1 CERT Advisories *(continued)*

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-97.21	SGI Buffer	N/A	
CA-97.22	bind	Solaris 7	
CA-97.23	rdist	Solaris 7	
CA-97.24	Count_cgi	N/A	
CA-97.25	CGI_metachar	N/A	
CA-97.26	statd	Solaris 2.6	
CA-97.27	FTP bound	Solaris 2.6	
CA-97.28	Teardrop and Land	N/A	Solaris 8 operating environment not affected
CA-98.01	smurf	N/A	See CERT Advisory for more details
CA-98.02	CDE	Solaris 7 and 8	
CA-98.03	ssh-agent	N/A	
CA-98.04	Microsoft Windows	N/A	
CA-98.05	bind_problems	Solaris 7	
CA-98.06	nisd	Solaris 7	
CA-98.07	PKCS	N/A	Solaris 8 operating environment not affected
CA-98.08	qpopper_vul	N/A	
CA-98.09	imapd	N/A	Solaris 8 operating environment not affected
CA-98.10	Mime buffer overflow	Solaris 7	
CA-98.11	tooltalk	Solaris 7	

TABLE 6–1 CERT Advisories *(continued)*

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-98.12	mountd	N / A	Solaris 8 operating environment not affected
CA-99-01	Trojan-TC	N / A	
CA-99-02	Trojan-Horse	N / A	
CA-99-03	FTP buffer overflows	N / A	Solaris 8 operating environment not affected
CA-99-04	Melissa	N / A	Solaris 8 operating environment not affected
CA-99-05	statd-automountd	Solaris 7 (statd) Solaris 2.6 (automount)	
CA-99-06	exploresip	N / A	Solaris 8 operating environment not affected
CA-99-07	IIS buffer overflow	N / A	
CA-99-08	rpc.cmsd	Solaris 8	
CA-99-09	arrayd	N / A	
CA-99-10	cobalt.rag2	N / A	
CA-99-11	CDE		Solaris 8 operating environment not affected
CA-99-12	amd		Solaris 8 operating environment not affected
CA-99-13	wuftpd		Solaris 8 operating environment not affected

TABLE 6–1 CERT Advisories *(continued)*

CERT Advisory	Topic	Fix Integrated in OS Version	Comments
CA-99-14	bind		Solaris 8 operating environment not affected
CA-99-15	RSAREF2		Solaris 8 operating environment not affected
CA-99-16	sadmind		Solaris 8 operating environment not affected
CA-99-17	Denial of service tools		Not part of the Solaris 8 operating environment. See Sun Security Bulletin #00193