



Solaris 8 (Intel Platform Edition) 1/ 01 Release Notes Update

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Part Number 806-6618-10
January 2001

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Patch List 77

Preface

The *Solaris™ 8 (Intel Platform Edition) 1/01 Release Notes Update* contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 1/01 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 1/01 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) 1/01 Hardware Compatibility List*
- *Solaris 8 (Intel Platform Edition) Device Configuration Guide*
- The Solaris 8 1/01 release notes are available:
 - In the Solaris 8 1/01 Release Documents Collection on the Solaris 8 1/01 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 1/01 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.

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Installation Issues

This chapter describes problems that relate to the installation of the Solaris 8 1/01 operating environment.

The following installation bug descriptions have been added to this chapter since this document was published on the Solaris 8 1/01 Documentation CD and in the Installation Kiosk on the Solaris 8 1/01 Installation CD.

- Bug ID 4394591
- Bug ID 4368056

Note - The name of this product is Solaris 8 1/01, 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>.

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.

- 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
```

- 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 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 architecture 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 22.

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 1/01 Installation CD to install the Solaris 8 1/01 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 1/01 Software 1 of 2 CD to launch an Interactive Installation of the Solaris 8 1/01 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 .

Installation Bugs You Need to Know About Before Installing Solaris 8 Software

64 MB System Hangs When Connecting to Network (4394591)

After installation using the Solaris 8 Installation CD in text mode on a 64 MB IA system, you might receive the following error message:

```
WARNING: Timed out waiting for NIS
```

Installation has succeeded, but two system files are not initialized correctly. The affected files are: `/etc/inet/hosts` and `/etc/inet/netmasks`. The system has run out of swap space during system configuration.

IA systems with greater amounts of memory, or IA systems installed using the Installation CD in graphics mode will not experience this problem.

Workaround: This problem can be avoided prior to installation by choosing one of the following:

- Use the Installation CD in graphics mode for installation.
- Use the Interactive Installation program on the Solaris 8 1 of 2 CD for installation.
- Add additional memory to the IA system.

If the problem has already occurred, you must correct the system after installation:

1. From the system console, boot the system in single user mode:

```
b -s
```

2. Edit the file `/etc/inet/hosts` by adding the missing line `system's_ip_address host_name`.
3. Edit the file `/etc/inet/netmasks` by adding the missing line `system's_network_number netmask`.

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 1/01 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 1/01 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.

Upgrading Diskless Client Servers and Clients (4363078)

If your system currently supports diskless clients installed with the AdminSuite 2.3 Diskless Client tool, you must first delete all existing diskless clients prior to installing the Solaris 8 1/01 operating environment. For specific instructions, see “How to Set Up Your Diskless Client Environment” in *Solaris 8 System Administration Supplement*.

If you attempt to install the Solaris 8 1/01 operating environment over existing diskless clients, the following error message appears:

```
The Solaris Version (Solaris 7) on slice <XXXXXXXX> cannot be upgraded.  
There is an unknown problem with the software configuration installed  
on this disk.
```

Upgrading the JavaSpaces Datastore to Prevent WBEM Data Loss (4365035)

If you are upgrading from the Solaris 8 (Solaris WBEM Services 2.0), Solaris 8 6/00 (WBEM Services 2.1), or Solaris 8 10/00 (WBEM Services 2.2) operating environments to the Solaris 8 1/01 operating environment (Solaris WBEM Services 2.3), you must convert any proprietary custom Managed Object Format (MOF) data to the new Reliable Log repository format used with Solaris WBEM Services 2.3. Failure to convert the data will result in data loss.

Workaround: To convert WBEM data, before upgrading you must save the JavaSpaces™ software. After upgrading, you must run the `wbemconfig convert` command.

Before upgrading to the Solaris 8 1/01 operating environment, follow these steps to save the JavaSpaces software.

1. **Become superuser.**
2. **Save the JavaSpaces software.**

```
cp /usr/sadm/lib/wbem/outrigger.jar /usr/sadm/lib/wbem/outrigger.jar.tmp
```

3. **Check and record the version of the JDK™ software installed on your machine. For example:**

```
# /usr/bin/java -version
java version "1.2.1"
Solaris VM (build Solaris_JDK_1.2.1_04c, native threads, sunwjit)
```

You must be running the same version of the JDK software that was running when the original JavaSpaces datastore was created.

Note - After upgrading to the Solaris 8 1/01 operating environment, you must convert the WBEM data. For specific instructions, see *Solaris 8 Installation Supplement*.

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.

Relocated CDE From the Solaris 2.5.1 Operating Environment Orphaned by an Upgrade to the Solaris 8 Operating Environment (4260819)

This problem affects systems running the Solaris 2.5.1 and the Solaris 2.5.1 unbundled CDE operating environments. However, these systems are only affected if the unbundled CDE has been relocated to a directory other than `/usr/dt`. The CDE relocation on these systems has been accomplished by creating a symbolic link in `/usr/dt` that points to the relocated CDE.

When you upgrade to the Solaris 8 operating environment, CDE is reinstalled in `/usr/dt`, and the link to the relocated version is removed. The relocated CDE is not removed and is therefore orphaned.

If the upgrade involves the reallocation of file systems, the upgrade may fail because the reallocation mechanism does not account for the extra space needed in `/usr/dt` for the new version of CDE. This failure is not visible until the upgrade has been completed. If this failure occurs, the upgrade log includes a number of messages indicating that more space is needed for an upgrade.

Workaround: Uninstall the relocated CDE before you start upgrading to the Solaris 8 operating environment. You can uninstall by using the `install-cde` script from the Solaris 2.5.1 CDE CD. You should run this script with the `-uninstall` flag to remove CDE.

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 SUNWwbnm
```

SUNWweudt Partially Fails to Install During an Upgrade (4304305)

The upgrade log may state that the `SUNWweudt` 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

Custom Screen in French and German Is Not Localized (4368056)

The package customization screen for the Solaris 8 1 of 2 CD is not translated for French and German.

Workaround: Accept the default selections.

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 1/01 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.
    .....
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.

Solaris Runtime Issues

This chapter describes known runtime problems.

The following runtime bug descriptions have been added to this chapter since this document was published on the Solaris 8 1/01 Documentation CD and in the Installation Kiosk on the Solaris 8 1/01 Installation CD.

- Bug ID 4384080
- Bug ID 4390236
- Bug ID 4386436
- Bug ID 4338963
- Bug ID 4391812
- Bug ID 4391781, 4389039

Note - The name of this product is Solaris 8 1/01, 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.

Security Bugs

csh Creates Predictable `tmpfiles` For "here documents" (4384080)

If privileged users use "here documents" ("`<<`" redirection) in `csh`, it exposes a potential security exploit by non-privileged users.

Workaround: Privileged users should not use "here documents" in `csh`.

Diskless Client Bugs

Cannot Create a Diskless Client on a Multi-Homed Server Using `smdiskless` (4390236)

When mounting a diskless client on a multi-homed server, mount the client on a network interface that is on the same subnet as the diskless client. By default, a diskless client mounts its file systems using the OS server's local host interface.

On a multi-homed server, each network interface has a host name and an Internet Protocol (IP) address. To determine the host name of the local host interface, type `uname -n` on the server.

Use the `-D type/host_name/domain_name` option to specify the management domain, where:

- *type* is NIS, NIS+, or file
- *host_name* is the name of the host machine or network interface
- *domain_name* is the name of the management domain

If you do not specify the `-D` option, SMC assumes the file domain on the local server.

Use the `-o host_name` option to specify the name of the OS server, when the name service server and the OS server are not the same machine. If you do not specify this option, `smdiskless` assumes that the OS server is the same as that specified with the `-D` option.

For more information, see *smdiskless(1M)*.

Name Server Scope

If the name service server is the same as the multi-homed OS server, the *host_name* must be equal to the host name returned by typing `uname -n` on that server. Specify the `-o` option using the host name of the network interface that is on the the same subnet as the diskless client.

If the name service server is different from the multi-homed OS server, the *host_name* must be equal to the host name returned by typing `uname -n` on the name service server. Specify the `-o` option using the host name of the OS server's network interface that is on the same subnet as the diskless client.

File Scope

If a multi-homed OS server's "local host" interface is on the diskless client's subnet and you do not specify the `-D` option (file scope is assumed), then `smdiskless` works correctly.

If a multi-homed OS server is not on the same subnet as the diskless client, you must edit the OS server's and diskless client's database files, as follows:

Note - All entries must appear on a single line.

1. Change the following server files:

```
/etc/bootparams

diskless_client root=server:/export/root/diskless_client \
                swap=server:/export/swap/diskless_client swappsize=:32 \
                dump=server:/export/dump/diskless_client dumpsize=:32 \
                boottype=:di
```

where *server* = Host name of OS server, *net_interface* = Host name of network interface on diskless client's subnet, and *diskless_client* = Host name of diskless client

Note - "dump" and "dumpsize" appear only if you specify the "-x dump" or "-x dumpsize" options.

To the following:

```
diskless_client root=net_interface:/export/root/diskless_client \
                swap=net_interface:/export/swap/diskless_client swappsize=:32 \
                dump=net_interface:/export/dump/diskless_client dumpsize=:32 \
                boottype=:di
```

Note - The *net_interface* host name and its IP address must appear in `/etc/hosts`.

2. Restart `in.rarpd` and `rpc.bootparamd` on the server. Use `in.rarpd -a` or start the `rarpd` daemon on the network interface used by the diskless client.
3. Change the following client files:

```
/export/root/diskless_client/etc/vfstab

server :/export/root/diskless_client - / nfs - - rw
server :/export/swap/diskless_client - /dev/swap nfs - - -
server :/export/exec/Solaris_8_sparc.all/usr - /usr nfs - -ro
```

To the following:

```
net_interface: /export/root/diskless_client - / nfs - - rw
net_interface: /export/swap/diskless_client - /dev/swap nfs - - -
net_interface: /export/exec/Solaris_8_sparc.all/usr - /usr nfs - -ro
```

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

Volume Manager Might Fail to Mount CD-ROM (4355643)

A CD-ROM with an unusual data layout might fail to mount automatically. The File Manager window might not display the CD-ROM's contents after it is inserted into the drive.

Workaround: Mount the CD-ROM manually:

1. Become root.
2. Stop the volume manager:

```
/etc/init.d/volmgt stop
```

3. Mount the CD-ROM:

```
mount -F hsfs -r device_pathname /mnt
```

Where *device_pathname* is the pathname to where in the system the CD-ROM drive is connected to. For example, `/dev/dsk/c0t6d0s0`.

Note - CD-ROM drives are typically connected to `c0t6d0s0` or to `c0t2d0s0` at the factory, but you must use the correct pathname for this command to work.

4. Restart the volume manager:

```
/etc/init.d/volmgt start
```

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

rcm_daemon Error Message (4386436)

When the system boots the following error message may be logged to the system log file located in `/var/adm/messages`:

```
open(/var/run/rcm_daemon_lock) - No such file or directory
rcm_daemon exit: errno = 2
```

This occurs only if /var is a separate partition.

Workaround: Ignore the message. It does not harm the system.

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
```

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.

Hardware Support Bugs

sd: Invalid Warning When No Media Is Present (4338963)

If a read is made to a removable media drive when no media is present, the read fails. A warning is written to the console and the log file. The warning will look similar to:

```
scsi: [ID 107833 kern.warning] WARNING: /pci@1f,0/pci@1,1/ide@3/  
sd@2,0 (sd30):  
i/o to invalid geometry
```

Note - The path that appears in the warning message is the device path for the removable media.

The warning is invalid. When media is missing from a removable drive, the read should fail silently.

Workaround: Ignore these warning messages in the case of removable media.

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/abl_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

European Solaris Management Console (SMC) Is Missing Tools (4391812)

The European SMC toolbox does not display all of the tools when loaded. You may receive the following error message:

```
** Parsing error, line 1,  
uri http://fubar:898/toolboxes/smc/smc.tbx  
com.sun.xml.parser/P-076 Malformed UTF-8 char  
-- is an XML encoding declaration missing?
```

Workaround: Run `smc edit` and either modify the default localized toolbox or create a new toolbox.

Context Sensitive Help Is Not Localized (4391781, 4389039)

The context sensitive help in the applications Solaris Management Console and Web-Based Enterprise Management are not fully localized.

Euro Not Accessible In UTF-8 Locales (4363812)

The Euro is not accessible in any UTF-8 locale using the standard key sequence ALTGr+E.

Workaround: Login to any ISO8859-15 locale and use Alt+E to access the Euro.

Warning Messages Might Appear When Launching Java Applications From Any UTF-8 Locale (4342801)

LucidaSansLat4 font aliases are not available so related error messages might appear when launching a Java application from any UTF-8 locale.

Workaround: Log into the ISO-1 equivalent of the locale and launch the Java application from there.

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_CN.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
  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
    }
  }
```

Several Screens in The Smart Card Application Have Not Been Localized (4304495)

Several screens in the Smart Card application 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

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

Key	Sun Keyboard Layout	Microsoft Keyboard Layout
Z	Z	Tilde
X	X	Arabic Sukun
C	Arabic Kasratan	Left curly bracket
V	Arabic Kasra	Right curly bracket
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.

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 1/01 operating environment, refer to the Solaris 8 1/01 Update AnswerBook Collection on <http://docs.sun.com>.

Diskless Client Support

The Solaris 8 1/01 operating environment adds diskless client support. Support in this release is limited to SPARC architecture diskless clients from either SPARC or Intel architecture [IA] servers.

Sun currently plans to support IA diskless clients in a future release of the Solaris operating environment.

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 linker's search paths with the `-z nodefaultlib` option to the `ld` command and with runtime configuration files created by the new utility `crle(1)`.

End-of-Software Support Statements

This chapter lists end-of-support statements.

The following end-of-software support statements have been added since this document was published on the Solaris 8 1/01 Documentation CD and in the Installation Kiosk on the Solaris 8 1/01 Installation CD.

- sendmail Utility
- AnswerBook2 Server

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:

- `ioctl`s listed in `/usr/include/sys/kd.h`
- `ioctl`s 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

sendmail Utility

Some features of the sendmail utility may no longer be supported in a future release. The affected features are Sun-specific modifications which are non-standard. These features include special syntax and semantics for V1/Sun configuration files, the remote mode feature, and the three sun-reverse-alias features.

More information regarding these features and migration issues is located at <http://www.sendmail.org/vendor/sun/solaris9.html>.

AnswerBook2 Server

The AnswerBook2™ server may no longer be supported in a future release. Solaris documentation will continue to be available on the Solaris Documentation CD in online formats. All Solaris documentation is also always available at <http://docs.sun.com>.

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
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

TABLE 4-1 GMT zoneinfo Timezones (continued)

zoneinfo Timezone Which May Be Removed in a Future Release	Replace Usage With Equivalent zoneinfo Timezone
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.

Documentation Issues

This chapter describes known documentation problems.

The following documentation issues have been added to this chapter since this document was published on the Solaris 8 1/01 Documentation CD and in the Installation Kiosk on the Solaris 8 1/01 Installation CD.

- Document Affected: "Drivers For Network Devices" in Solaris 8 Software Developer Supplement (4398700)
- Document Affected: Localized New Features List (4389948)

Note - The name of this product is Solaris 8 1/01, 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: "Drivers for Network Devices" in *Solaris 8 Software Developer Supplement* (4398700)

On page 29 of the Drivers for Network Devices chapter, the following symbol names are incorrectly used: GLD_PROMISC_MULTI, GLD_PROMISC_NONE, and GLD_PROMISC_PHYS. If you write a GLD-based network driver and use the incorrect symbols, the driver will not compile.

When you see:

GLD_PROMISC_MULTI read GLD_MAC_PROMISC_MULTI
GLD_PROMISC_NONE read GLD_MAC_PROMISC_NONE
GLD_PROMISC_PHYS read GLD_MAC_PROMISC_PHYS

Document Affected : Localized New Features List (4389948)

The localized New Features List are not contained in the Installation Kiosk.

Workaround: For a localized list, see “What’s New at a Glance” in *Solaris 8 Desktop User Supplement*, *Solaris 8 System Administration Supplement*, *Solaris 8 Software Developer Supplement*, *Solaris 8 Installation Supplement*.

Document Affected: *CDE User’s Guide* in AnswerBook2 (4356456)

Some graphics in the *CDE User’s Guide* in AnswerBook2 are unreadable in the Spanish, Italian and German locales.

Workaround: Refer to the *CDE User’s Guide* on <http://docs.sun.com> for readable graphics.

Documents Affected: AnswerBook2 Help Collection

The AnswerBook2 software has been upgraded to Version 1.4.3, but the documentation still refers to Version 1.4.2. Aside from the number issue, the documentation is correct.

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) 1/01* 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_rmdir_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 ncsiz*e. 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: “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.

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_fs	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	bsdip	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	wuftp		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

Patch List

The patches listed in this appendix have been applied to the Solaris 8 1/01 operating environment in one of the following ways:

- SolStart

The patches are located in the `/var/sadm/patch` directory on an installed system.

- Freshbits technology

These patches were applied when the Solaris 8 Software CD was created. Therefore, these patches are not located in the `/var/sadm/patch` directory.

The `showrev -p` command provides a list of all patches applied to the installed system regardless of how they were applied. The Solaris 8 Software CD includes a known and tested level of patches; however, patches cannot be backed out of the Solaris 8 1/01 release.

Patch List

```
108529-05 : SunOS 5.8_x86: kernel update patch
1256102 4044653 4226443 4233718 4234426 4259051 4261064 4262842 4262930 4265649
4269556 4269582 4269845 4271733 4271738 4282158 4282212 4290073 4293528 4295776 4296081
4296124 4298256 4298789 4298790 4298792 4298794 4299504 4299838 4300179 4301683 4302637
4303474 4303649 4304033 4304696 4305365 4305709 4306004 4307475 4307771 4308242 4308245
4308370 4309719 4309750 4311755 4312278 4312461 4312641 4313746 4313747 4314201 4314488
4316672 4317007 4317174 4317476 4319122 4319440 4320338 4320394 4320653 4321803 4321810
4323534 4323981 4324244 4324250 4324992 4325075 4325336 4325730 4325934 4327330 4328843
```

(continued)

4330206 4330301 4331306 4332219 4334198 4334346 4334348 4334505 4335837 4336182 4338028
4338033 4339049 4341664 4341714 4343039 4343237 4343425 4343443 4345667 4347359 4349102
4349393 4159348 4184090 4233832 4266124 4288248 4293692 4296770 4309330 4325641 4326110
4333639 4336443 4336779 4337039 4337295 4337300 4339732 4340614 4341185 4349603 4354802
4357245 4357919 4367625 4368026 4369543 4350574 4351877 4352611 4362141 4365336 4341378
4382693 4380916 4377012 4389685 4346976

108653-21 : X11 6.4.1_x86: Xsun patch
4281374 4292395 4286682 4300866 1221324 4308554 4306350 4312517 4287741 4297581
4297830 4299495 4306774 4308640 4308661 4308670 4311088 4312780 4312893 4305597 4310813
4293861 4311804 4318777 4311685 4317727 4314304 4310120 4299667 4292075 4310536 4330738
4332966 4107762 4323892 4333070 4185418 4336308 4336246 4346749 4332982 4323164 4338851
4355797 4356265 4345609 4379301

108715-03 : CDE 1.4_x86: libDtWidget patch
4289349 4321189 4360030

108724-01 : SunOS 5.8_x86: /kernel/fs/lofs patch
4126922

108726-02 : SunOS 5.8_x86: st driver patch
4180382 4258222 4270641 4319238

108728-04 : SunOS 5.8_x86: /kernel/fs/nfs patch
4193748 4249187 4276984 4293528 4331346

108774-06 : SunOS 5.8_x86: IIIM and X Input & Output Method patch
4379997 4366559 4363883 4306958 4305501 4304989 4301739 4307230 4307224 4295996
4325454 4313845 4342196 4332958 4339874

108782-01 : Solaris 8_x86: Get UDCTool to work for zh_TW
4307173

108809-18 : SunOS 5.8_x86: Manual Page updates for Solaris 8
4356768 4356771 4360161 4361275 4377110 4382653 4383347 4384062 4311373 4372215
4372924 4377107 4377110 4379596 4381797 4356775 4367587 4347481 4351085 4365567 4365858
4369053 4370464 4358328 4360561 4359608 4360350 4317975 4352046 4353279 4338576 4314390
4345863 4325356 4311374 4312130 4323321 4323394 4314114 4310895

108821-01 : SunOS 5.8_x86: /usr/lib/nss_compat.so.1 patch
4302441

108822-01 : SunOS 5.8_x86: /boot/solaris/boot.bin patch
4300016

108824-01 : SunOS 5.8_x86: compress/uncompress/zcat patch
4295877

108826-01 : SunOS 5.8_x86: /usr/lib/fs/cachefs/cfsadmin patch
4207874

108828-05 : SunOS 5.8_x86: libthread patch
4091466 4288299 4307551 4311948 4336933

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108836-02 : CDE 1.4_x86: dtcm patch
4285729 4320553

108870-02 : SunOS 5.8_x86: snmpdx/mibiisa/libssasmp/snmplib patch
4299328 4301970 4309416 4333417

108876-07 : SunOS 5.8_x86: c2audit patch
4224166 4290575 4307306 4308525 4322741 4325997 4336689 4336959 4339611 4344275

108883-02 : SunOS 5.8_x86: mmu32/mmu36 patch
4305696 4307800 4357919

108898-01 : X11 6.4.1_x86: Xprint patch
4305734

108900-01 : SunOS 5.8_x86: /usr/bin/ftp patch
4294697

108902-03 : SunOS 5.8_x86: /kernel/sys/rpcmod and /kernel/strmod/rpcmod
patch
4107735 4321293 4330007

108915-01 : SunOS 5.8_x86: localisation updates for different components

108920-04 : CDE 1.4_x86: dtlogin patch
4072784 4293300 4302209 4299160 4346072 4328385

108922-07 : CDE 1.4_x86: dtwm patch
4306589 4311842 4301522 4299651 4300013 4261430 4311753 4330496 4335592 4335971
4332153

108924-01 : CDE 1.4_x86: dtwm patch
4261430 4310640 4311753

108934-01 : SunOS 5.8_x86: bugfix for European locales, dtmail, dtcalc,
SmartCard
4308864 4304021 4301544

108941-12 : Motif 2.1.1_x86: Runtime library patch for Solaris 8_x86
4299216 4294643 4320106 4318757 4322319 4299139 4312519 4322466 4327272 4327592
4336559 4327637 4322728 4342603 4343099 4350517 4334155 4367450 4362266

108950-04 : CDE 1.4_x86: litDtHelp/libDtSvc patch
4298416 4307660 4345282 1191725

108955-01 : SunOS 5.8_x86: localisation updates for different components

108957-01 : SunOS 5.8_x86: htt_server dumps core on SCH's cm.so in utf-8
locales
4314242

(continued)

108963-01 : SunOS 5.8_x86: XmlReader fails on an HTTP stream
4314140

108965-04 : SunOS 5.8_x86: /usr/sbin/snoop patch
1110881 4297326 4297676 4304083 4313760 4315280 4317713 4321696 4321713 4321720
4321721 4321723 4321725 4321726 4322042 4322055 4322058 4322060 4322064 4322200 4322670

108969-02 : SunOS 5.8_x86: vol/vold/rmmount patch
1206000 4108297 4145529 4205437 4211612 4254816 4255049 4285374 4286446 4292408
4292563 4296452 4298451 4298465 4298563 4298567 4303430 4304283 4304289 4305067 4306425
4307495 4307500 4307620 4307634 4312778 4313091

108971-01 : SunOS 5.8_x86: /usr/lib/fs/pcfs/fsck and /usr/lib/fs/pcfs/mkfs
patch
4145536 4210625 4250242 4256652

108973-04 : SunOS 5.8_x86: /sbin/fdisk patch
4221693 4304790 4347145

108976-03 : SunOS 5.8_x86: /usr/bin/rmformat and /usr/sbin/format patch
4242879 4292212 4304790 4308431 4311553 4322206

108978-01 : SunOS 5.8_x86: libsmedia patch
4292214 4308431 4311553

108980-09 : SunOS 5.8_x86: PCI HotPlug framework and devfsadm patch
4272737 4276021 4303126 4306367 4307062 4307080 4307747 4307827 4309011 4309750
4309802 4309818 4310864 4311126 4311134 4312937 4314121 4314936 4315098 4315100 4315101
4318351 4318747 4319122 4320440 4320471 4321326 4322424 4328067 4329695 4330383 4330429
4330774 4332425 4334198 4335003 4335935 4336443 4337039 4338633 4339732 4341185 4349603
4357092 4357552 4359294 4364048 4365270 4367993 4372712 4386544

108986-02 : SunOS 5.8_x86: /usr/sbin/in.rshd patch
4158689 4305888 4335632

108988-02 : SunOS 5.8_x86: Patch for patchadd and patchrm
4115232 4278860 4292990 4299710 4303509 4304640 4311375 4319950 4330590

108990-02 : SunOS 5.8_x86: acctctl & exacctsys patch
4305365 4312278 4313746 4313747 4314201

108992-06 : SunOS 5.8_x86: libc and watchmalloc patch
4193683 4225913 4291844 4292683 4303962 4310353 4312278 4314913 4366956 4375449

108994-01 : SunOS 5.8_x86: nss and ldap patch
4312278

108996-01 : SunOS 5.8_x86: /usr/lib/libproc.so.1 patch
4312278

108998-03 : SunOS 5.8_x86: libexacct and libproject patch
4305365 4312278 4313746 4313747 4314201

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109000-01 : SunOS 5.8_x86: PAM patch
4312278

109004-01 : SunOS 5.8_x86: /etc/init.d/acctadm and /usr/sbin/acctadm patch
4312278

109006-01 : SunOS 5.8_x86: /sbin/su.static and /usr/bin/su patch
4312278

109008-04 : SunOS 5.8_x86: at/atrm/batch/cron patch
4261967 4304184 4312278 4379735

109010-01 : SunOS 5.8_x86: /etc/magic and /usr/bin/file patch
4312278

109012-01 : SunOS 5.8_x86: /usr/bin/id and /usr/xpg4/bin/id patch
4312278

109014-02 : SunOS 5.8_x86: /usr/bin/lastcomm patch
4305365 4312278 4313746 4313747 4314201

109016-01 : SunOS 5.8_x86: /usr/bin/newtask patch
4312278

109018-01 : SunOS 5.8_x86: /usr/bin/pgrep and /usr/bin/pkill patch
4312278

109020-01 : SunOS 5.8_x86: /usr/bin/priocntl patch
4312278

109022-01 : SunOS 5.8_x86: /usr/bin/projects patch
4312278

109024-01 : SunOS 5.8_x86: /usr/bin/i86/ps patch
4312278

109026-01 : SunOS 5.8_x86: /usr/bin/i86/truss patch
4312278

109028-01 : SunOS 5.8_x86: /usr/bin/wracct patch
4312278

109030-01 : SunOS 5.8_x86: perl patch
4312278

109032-01 : SunOS 5.8_x86: projadd/projdel/projmod patch
4312278

109034-01 : SunOS 5.8_x86: /usr/bin/i86/prstat patch
4312278

109036-01 : SunOS 5.8_x86: useradd/userdel/usermod patch

(continued)

4312278

109038-01 : SunOS 5.8_x86: /var/yp/Makefile and /var/yp/nicknames patch
4312278

109042-02 : SunOS 5.8_x86: sockfs patch
4224166 4290575 4322741

109044-02 : SunOS 5.8_x86: sonode adb macro patch
4224166 4290575 4322741

109046-02 : SunOS 5.8_x86: /usr/sbin/i86/crash patch
4224166 4290575 4322741

109067-03 : SunOS 5.8_x86: NCA Support for Apache Web Server patch
4285881 4294231 4296334 4297125 4297126 4297294 4299951 4300202 4300429 4300836
4301047 4303787 4306793 4307672 4307679 4307683 4308402 4311970 4312075 4312396 4313734
4316564 4317634 4318360 4318365 4324351 4326195 4326198

109069-01 : Japanese CDE 1.4: update CDE help files for _x86
4302904

109071-02 : SunOS 5.8_x86: WBEM 2.0
4302909 4380748

109073-04 : CDE 1.4_x86: (Japanese) New Feature patch
4302027 4305195 4322170 4346025 4365384 4373355

109078-01 : SunOS 5.8_x86: /usr/lib/inet/in.dhcpd patch
4313817

109088-01 : SunOS 5.8_x86: atok8 terminates "Shell widget modeShell has
zero..."
4297016 4301750

109092-03 : SunOS 5.8_x86: /usr/lib/fs/ufs/ufsrestore patch
4297558 4302943 4366956 4375449

109095-01 : SunOS 5.8_x86: localisation updates for different components

109119-04 : SunOS 5.8_x86: JFP message files patch
4318917 4345727 4357764 4358930 4380324

109129-01 : SunOS 5.8_x86: Provide conversion between codepages 1256 and
ISO8859-6
4301870

109132-05 : SunOS 5.8_x86: JFP manpages patch
4320935 4345069 4302905 4351981 4379437

109135-10 : SunOS 5.8_x86: WBEM patch
4297248 4309319 4314792 4318408 4329995 4332540 4333798 4333799 4336708 4336719

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4336764 4346486 4346810 4346974 4352831 4355958 4355986 4356000 4357738 4358748 4358807
4358814 4358855 4359098 4359109 4359136 4359580 4359722 4360208 4362256 4362879 4363471
4363474 4364065 4364250 4364642 4364742 4364795 4364806 4365026 4365215 4365386 4365462
4365763 4365811 4365940 4366652 4366809 4367110 4367132 4368018 4368410 4368421 4368575
4368608 4368626 4368682 4368756 4368777 4369122 4369554 4370171 4370176 4370212 4370711
4371192 4371214 4371217 4371519 4372191 4372647 4372914 4374771 4376028 4378375 4379554
4380882 4385381 4385396 4387991

109138-01 : SunOS 5.8_x86: /usr/sadm/install/bin/pkginstall patch
4318844

109143-03 : CDE 1.4_x86: dtterm libDtTerm patch
4308751 4340259 4355107

109146-01 : SunOS 5.8_x86: /usr/sbin/in.routed patch
4319852

109148-07 : SunOS 5.8_x86: linker patch
4040628 4103449 4187211 4210412 4219652 4235315 4239213 4243097 4248250 4250694
4255943 4287274 4297563 4300018 4303609 4306415 4309212 4310324 4310901 4311226 4312449
4313765 4316531 4318162 4321634 4322528 4322581 4324134 4324324 4324775 4327653 4329785
4334617 4335801 4336102 4336980 4338812 4340878 4341496 4343417 4343801 4344528 4346001
4346144 4346615 4349137 4349563 4351197 4351715 4352233 4352330 4354500 4355795 4356879
4357805 4358751 4358862 4366905 4367118 4367405 4369068

109150-01 : SunOS 5.8_x86: /usr/sbin/mkdevmaps patch
4316613

109155-01 : SunOS 5.8_x86: vgatext and terminal-emulator patch
4307285

109158-11 : SunOS 5.8_x86: WOS Message Update and more bug fix for UR3
4350770 4351383 4332965 4343790 4334002 4337487 4337974 4338505 4341638 4323845
4362981

109160-01 : SunOS 5.8_x86: the mapping of zh_CN.euc%UTF-8 is consistent
4334099 4337362

109166-08 : CDE 1.4_x86: dtfile patch
4257760 4256612 4256615 4256616 4256617 4297751 4259270 4287012 4292249 4303367
4297401 4302856 4305084 4305248 4303443 4291565 4308823 4306243 4291444 4286997 4310115
4302740 4301375 4312545 4314867 4312316 4310827 4292266 4316515 4314491 4317156 4317797
4314870 4322296 4318940 4325417 4335592 4331909 4331578 4339457 4343798 4353856 4346376

109168-01 : CDE 1.4_x86: Desktop Help Updates Patch
4307183 4319636

109170-10 : CDE 1.4_x86 GWM sdtgwm dumps core after selecting Window->Close Window:
Window Manager Enhancements Patch
4301525 4301229 4303415 4304468 4308078 4310419 4311506 4312315 4311916 4312250
4311992 4312375 4305293 4316508 4299329 4321374 4327961 4321817 4328036 4328268 4327801
4330458 4327967 4332309 4330198 4331955 4328255 4330445 4336342 4360521 4376807

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109180-03 : SunOS 5.8_x86: localisation updates for Removable Media
4313061 4329376 4333754 4329372

109182-02 : SunOS 5.8_x86: /kernel/fs/cacheofs patch
4103817 4166371 4292697 4299056 4299427 4308026 4308068

109190-04 : SunOS 5.8_x86 : Extra Catalan Support required
4305956 4328876 4337258

109191-03 : SunOS 5.8_x86 : ru.RU.KOI8-R Cannot cut/paste cyrrilic between
dtapps
4325497 4328876 4359095

109192-02 : SunOS 5.8_x86 : Cut/Paste not functioning in ru_RU.KOI8-R
4307614 4328876

109193-02 : SunOS 5.8_x86 : Polish UTF-8 Support Solaris 8
4325497 4328876

109201-03 : SunOS 5.8_x86: l10n updates
4336934 4313061 4327905 4333002

109222-05 : SunOS 5.8_x86: Patch for sysidnet
4186765 4245794 4310379 4310705 4322703 4338255 4350971

109224-01 : SunOS 5.8_x86: libgss.so.1 and libkadm5clnt.so.1 patch
4308978

109235-01 : SunOS 5.8_x86: Apache/mod_jserv patch
4312109

109239-01 : SunOS 5.8_x86: /usr/bin/i86/ipcs patch
4310353

109248-01 : SunOS 5.8_x86: Bad translation causes core dump in German
install
4324017

109250-01 : SunOS 5.8_x86: Help not localised for the dhcpmgr
4324311

109278-01 : SunOS 5.8_x86: /usr/bin/iostat patch
4313169

109280-08 : SunOS 5.8_x86: /kernel/drv/ip patch
4291034 4299644 4299951 4302749 4303422 4305039 4306362 4308728 4310956 4311938
4317221 4320818 4323647 4323830 4324430 4333995 4335568 4336478 4337275 4338724 4339375
4347223 4387783

109319-07 : SunOS 5.8_x86: Admin/Install patch
4299103 4302899 4313039 4324404 4325840 4334036 4337779 4351009 4351486 4355192
4358804 4372310

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109321-01 : SunOS 5.8_x86: LP jumbo patch
4188167 4235953 4260829 4263321 4265529 4281487 4302705 4310991

109323-02 : SunOS 5.8_x86: libnsl patch
4305859 4320661

109325-01 : SunOS 5.8_x86: sh/jsh/rsh/pfsh patch
4313399

109327-01 : SunOS 5.8_x86: libresolv.so.2 patch
4284409

109329-01 : SunOS 5.8_x86: ypserv and ypxftr patch
4203989

109355-04 : CDE 1.4_x86: dtsession patch
4239375 4344648 4316439 4335987

109385-01 : SunOS 5.8_x86: libaio patch
4253437

109401-01 : OpenWindows 3.6_x86: Updated X Server video support.
4302368 4302364 4330223 4309613 4326353 4322314 4319297 4286989 4308451 4330423

109412-02 : SunOS 5.8_x86: dtmail prints garbage strings
4326649 4350277

109442-02 : SunOS 5.8_x86: sdtudctool patch
4312994 4342214

109453-01 : SunOS 5.8_x86: Window List, buttons unlocalised in Options
dialog
4329351

109455-01 : SunOS 5.8_x86: /kernel/fs/fifofs patch
4302216

109459-01 : SunOS 5.8_x86: ldterm patch
4250344

109462-02 : SunOS 5.8_x86: /usr/lib/lwp/libthread.so.1 patch
4305389 4336933

109471-02 : CDE 1.4_x86: Actions Patch
4326649 4353583

109473-03 : SunOS 5.8_x86: /kernel/drv/tcp patch
4291034 4299644 4308728 4310189 4311938 4319441 4330074 4332542

109538-01 : SunOS 5.8_x86: Unlocalised buttons on user-interface of dhcpgmr
4324315

109553-01 : SunOS 5.8_x86: FIGSS-UTF.8, Removable media manager unlocalised

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4327983

109565-01 : SunOS 5.8_x86: Removable Media Mgr, Missing floppy error
unlocalised
4329409

109574-01 : SunOS 5.8_x86: dhcpgmr help graphics not displayed correctly
4330902

109577-01 : SunOS 5.8_x86: mountall and fsckall patch
4260430

109583-01 : CDE 1.4_x86: sdtaudio patch
4305400

109588-02 : SunOS 5.8_x86: Patch for spurious boot device change messages
4256556 4345757

109608-01 : SunOS 5.8_x86: /usr/include/iso/stdlib_iso.h patch
4300780

109610-01 : SunOS 5.8_x86: UTF-8 Korean attached text becomes garbled
4309015

109614-02 : CDE 1.4_x86: dtmail patch
4133950 4362276 4372376 4336922

109619-01 : SunOS 5.8_x86: en_US.UTF-8 locale patch
4311444 4336840

109623-01 : SunOS 5.8_x86: env LANG=zh_TW dtterm doesn't work in zh_TW.UTF-8
4330770

109640-01 : SunOS 5.8_x86: th locale error in / lacks some LC_CTYPE
definitions
4314263

109643-01 : SunOS 5.8_x86: /usr/include/sys/dkio.h patch
4304790

109644-02 : SunOS 5.8_x86: /kernel/drv/sd patch
4304790 4348075

109668-02 : SunOS 5.8_x86: /usr/lib/inet/xntpd and /usr/sbin/ntpdate patch
4279094 4330427

109681-01 : SunOS 5.8_x86: /usr/lib/nss_nisplus.so.1 patch
4244731

109693-02 : SunOS 5.8_x86: Information
4339515 4345433 4350242

109705-02 : SunOS 5.8_x86: Japanese iconv patch

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4350293 4344163 4344139 4340250 4340245 4227824

109728-01 : SunOS 5.8_x86: /usr/sadm/admin/printmgr/classes/pmclient.jar
patch
4326665

109730-01 : SunOS 5.8_x86: /usr/bin/cat patch
4163406

109741-03 : SunOS 5.8_x86: /kernel/drv/udp patch
4291034 4299644 4302749 4303422 4306362 4308728 4310956 4311938 4317221 4320818
4335568

109743-02 : SunOS 5.8_x86: /kernel/drv/icmp patch
4291034 4299644 4303422 4306362 4308728 4311938

109749-01 : CDE 1.4_x86: sdtaudiocontrol patch
4324012 4324019 4295904

109751-03 : SunOS 5.8_x86: translation update and sync with base's PDA
images
4339505

109753-01 : SunOS 5.8_x86: UI of admintool is lost in partail installation
4347036

109756-01 : OpenWindows 3.6.1 (japanese)_x86: update for power mgt util for
s28u2
4345748

109765-02 : SunOS 5.8_x86: /kernel/fs/hsfs patch
4305026 4328133

109767-01 : SunOS 5.8_x86: SUNWjxmft and SUNWjxcft patch for 8/10 dot font.
4345078

109784-01 : SunOS 5.8_x86: /usr/lib/nfs/nfsd patch
4305333 4325431

109786-01 : SunOS 5.8_x86: /etc/inittab patch
4273366

109798-01 : SunOS 5.8_x86: /platform/i86pc/kernel/drv/ata patch
4353406

109804-01 : SunOS 5.8_x86: /usr/bin/du and /usr/xpg4/bin/du patch
4306228

109806-01 : SunOS 5.8_x86: pam_krb5.so.1 patch
4330143

109808-01 : SunOS 5.8_x86: /usr/sbin/dumpadm patch
4340246

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109810-01 : SunOS 5.8_x86: timezone data patch for Australasia
4313766

109814-01 : SunOS 5.8_x86: /usr/include/memory.h patch
4313659

109863-01 : X11 6.4.1_x86: Font Server patch
4314299 4323233 4335325 4335328 4336593 4345905

109866-03 : SunOS 5.8_x86: elxl patch
4351739 4355560 4256331 4202169 4292440 4273911

109869-03 : SunOS 5.8_x86: WOS Help File Update
4350353

109875-01 : SunOS 5.8_x86: /usr/include/sys/ac97.h patch
4271687 4304911 4307415 4329687

109878-01 : SunOS 5.8_x86: /usr/include/sys/dma_i8237A.h patch
4333588

109884-01 : SunOS 5.8_x86: /usr/include/sys/ecppsys.h patch
1167460 4241460 4250652 4257428 4270674 4271686 4275074 4275092 4275119 4275200
4275205 4276209 4295173 4297052 4299441 4299456 4299460 4299467 4299470 4299621 4299631
4301029 4301079 4301556 4309750 4314412 4314419

109886-02 : SunOS 5.8_x86: pci driver patch
4261567 4262685 4271733 4271738 4278935 4284196 4290532 4302637 4307697 4322734
4324244 4324250 4327135 4334348 4334505 4338033 4357092

109891-01 : SunOS 5.8_x86: pmsserver.jar patch
4308951

109895-01 : SunOS 5.8_x86: lp driver patch
4309750

109897-03 : SunOS 5.8_x86: USB patch
4179082 4207634 4257491 4278766 4282084 4284408 4284481 4288456 4290035 4290038
4290048 4297451 4297991 4298047 4299321 4299711 4301110 4302435 4303153 4303369 4303371
4304019 4304060 4304250 4304253 4304383 4304968 4305437 4305467 4305645 4305649 4305819
4306676 4307085 4308510 4308511 4309328 4309368 4309566 4309916 4311023 4312163 4312381
4314164 4314166 4317503 4317522 4317527 4317528 4320410 4323024 4328542 4329325 4329560
4330021 4331700 4332033 4332613 4332707 4336235 4336592 4337149 4337561 4337816 4338525
4339292 4341714 4341839 4342024 4342426 4342488 4343230 4343443 4344107 4344121 4344122
4346963 4347288 4349013 4349282 4350113 4350901 4351268 4351426 4351707 4352101 4369166

109899-02 : SunOS 5.8_x86: /kernel/drv/arp patch
4291034 4299644 4302198 4308728 4311938

109901-01 : SunOS 5.8_x86: /etc/init.d/network and /etc/rcS.d/S30network.sh
patch
4291034 4299644 4308728 4311938

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109903-03 : SunOS 5.8_x86: /usr/lib/inet/in.ndpd patch
4291034 4299644 4308728 4311938 4347223 4386544

109905-04 : SunOS 5.8_x86: /etc/default/mpathd and /sbin/in.mpathd patch
4291034 4299644 4308728 4311938 4314132 4328423 4338258 4338530 4347223 4369240
4386544

109907-04 : SunOS 5.8_x86: /sbin/ifconfig and /usr/sbin/ifconfig patch
4218277 4291034 4299644 4308728 4311938 4347223 4386544

109909-01 : SunOS 5.8_x86: /kernel/misc/scsi patch
4325730 4328843

109911-01 : SunOS 5.8_x86: CDE help for Winst, Rem. Media Mgr. & Workspace
Mgr.
4329353 4329355 4339080

109921-04 : SunOS 5.8_x86: pcic driver patch
4243709 4286161 4337039 4347834 4352356 4352663 4367607

109923-02 : SunOS 5.8_x86: pcelx, pcser and cs driver patch
4090692 4243709 4308863 4308870 4320108 4352663

109925-02 : SunOS 5.8_x86: pcata driver patch
4287520 4303758 4352663

109927-02 : SunOS 5.8_x86: /kernel/drv/pem patch
4243709 4303863 4332477 4352663

109929-02 : SunOS 5.8_x86: pcmem and pcmcia patch
4243709 4265532 4280422 4303875 4337357 4352663

109932-01 : CDE 1.4_x86: sdtimage Patch
4345373

109934-01 : SunOS 5.8_x86: mv, cp, ln patch
4264701

109937-01 : SunOS 5.8_x86: /usr/bin/diff patch
4338744

109952-01 : SunOS 5.8_x86: jserver buffer overflow
4352777

109955-01 : SunOS 5.8_x86: /kernel/sys/pset patch
4352049

109961-01 : CDE 1.4_x86: sdtperfmeter patch
4341412 4290470 4280252

109991-01 : SunOS 5.8_x86: /usr/ccs/bin/dis patch
4015840 4350263

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110020-02 : SunOS 5.8_x86: JFP install/sysadm messages patch
4354350 4375794

110045-01 : SunOS 5.8_x86: iswalpha() can't work well in zh.GBK locale
4355229

110064-01 : SunOS 5.8_x86: New features added to install
4357775

110069-01 : CDE 1.4_x86: PDASync patch
4341358

110076-01 : SunOS 5.8_x86: /kernel/drv/devinfo patch
4341354

110078-02 : SunOS 5.8_x86: sysevent framework patch
4336779 4365737 4367650

110089-01 : CDE 1.4_x86: DtPower patch
4354583

110145-06 : SunOS 5.8_x86 SPECIAL PATCH
4299534 4313955 4296770 4363888 4351739 4355560 4256331 4202169 4292440 4273911

110147-02 : SunOS 5.8_x86 SPECIAL PATCH
4299534 4296770 4351739 4355560 4256331 4202169 4292440 4273911

110166-01 : SunOS 5.8_x86: /usr/bin/sed patch
4287555

110207-01 : UTF-8 Windows List Application and Windows mgr (sdtgwm)
unlocalised:
4352800 4352861 4342970

110270-01 : SunOS 5.8_x86: /usr/lib/libnisdb.so.2 patch
4318294

110273-03 : SunOS 5.8_x86: Figgs Custom install new features and install help
4367029

110284-03 : SunOS 5.8_x86: mkfs and newfs patch
4297460 4333516 4339330 4344221 4380132 4374181

110287-01 : OpenWindows 3.6.2_x86: Tooltalk patch
4334998

110315-02 : SunOS 5.8_x86 SPECIAL PATCH
4368385

110323-01 : SunOS 5.8_x86: /usr/lib/netsvc/yp/ypbind patch
4362647

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110325-01 : SunOS 5.8_x86: /kernel/drv/asy patch
4247612

110327-01 : CDE 1.4_x86: dtstyle patch
4321874

110365-02 : SunOS 5.8_x86: Add L10N dttypesbinder files
4366984 4383627

110396-03 : SunOS 5.8_x86: udp ip mipagent
4302749 4310956 4317221 4320818 4335568 4375915 4377368 4377693 4377694 4378163
4386544

110397-01 : SunOS 5.8_x86:
4233832 4326110 4336779 4357245

110398-03 : SunOS 5.8_x86: RCM libnvpair serengeti sysevent
4233832 4326110 4336779 4357245 4363985 4364006 4364129 4375059 4375416 4386544

110399-03 : SunOS 5.8_x86: RCM libnvpair serengeti sysevent
4233832 4326110 4336779 4357245 4375059 4375416 4386544

110400-01 : SunOS 5.8_x86:
4311781 4313955

110401-01 : SunOS 5.8_x86:
4311781 4313955

110402-01 : SunOS 5.8_x86:
4296770

110403-01 : SunOS 5.8_x86:
4296770

110404-01 : SunOS 5.8_x86: file systems should support snapshots for online
bkups
4296770

110405-01 : SunOS 5.8_x86: file systems should support snapshots for online
bkups
4296770

110406-01 : SunOS 5.8_x86:
4310379

110408-02 : CDE 1.4_x86: Sdttypes patch
4313855 4329990 4357804 4365790 4374350

110417-02 : SunOS 5.8_x86: ATOK12 patch
4361738 4372858 4384092

110454-01 : SunOS 5.8_x86: admintool patch
4354306

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110459-01 : SunOS 5.8_x86:
4313067

110669-01 : SunOS 5.8_x86: /usr/sbin/in.telnetd patch
4366956 4375449

110671-01 : SunOS 5.8_x86: usr/sbin/static/rcp patch
4366956 4375449