Solaris 8 (Intel Platform Edition)  
10/01 Release Notes
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Preface

The Solaris™ 8 (Intel Platform Edition) 10/01 Release Notes contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 10/01 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 10/01 operating environment.

Related Books

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

- Solaris 8 Start Here
- Solaris 8 Advanced Installation Guide
- Solaris 8 Installation Supplement
- Solaris 8 (Intel Platform Edition) 10/01 Hardware Compatibility List
The Solaris 8 10/01 release notes are available:

- In the Solaris 8 10/01 Release Documents Collection on the Solaris 8 10/01 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 10/01 Documentation CD that is included with this product.

For some hardware configurations, you might 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, the Internet’s most comprehensive professional bookstore, stocks select product documentation from Sun Microsystems, Inc.

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

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CHAPTER 1

Installation Issues

This chapter describes problems that relate to the installation of the Solaris 8 10/01 operating environment.

The following installation bug descriptions have been added to this chapter since this document was published on the Solaris 8 10/01 Documentation CD and in the Installation Kiosk on the Solaris 8 10/01 Installation CD.

- “Insufficient Space for Extra Languages During Upgrade (4414329)” on page 14

Note – The name of this product is Solaris 8 10/01, but code and path or package path names might use Solaris 2.8 or SunOS™ 5.8. Always follow the code or path as it is written.
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 that is 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 utility prevents any existing fdisk partitions from being altered.

Do not create this partition 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 “Cannot Use Solaris Installation CD to Upgrade Intel Systems to the Solaris 8 Operating Environment” on page 22.
Cannot Specify an Alternate Network Interface to Use During System Identification on Network Gateway Systems (4302896)

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

If you use the Solaris 8 10/01 Installation CD to install the Solaris 8 10/01 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 10/01 Software 1 of 2 CD to launch an Interactive Installation of the Solaris 8 10/01 operating environment. Specify that the system is networked, and then select the alternate network interface to use for system identification from the list that is provided.
Issues You Need to Know About Before Installing Solaris 8 Software

Insufficient Space for Extra Languages During Upgrade (4414329)

When you upgrade from the Solaris 2.6 and Solaris 7 operating environments using a CD or CD images, extra European languages might be installed for locales that are not present on the system. If there is insufficient space in the file system, the upgrade will not complete. Languages for locales that are present on the system may not be installed.

Workaround: Choose one of the following workarounds.

- Manually select the languages you want installed during the upgrade process. Follow these steps.
  1. When the Language CD install panel is displayed, click the Back button.
  2. Deselect the extra languages and continue with the upgrade.
- Use a combined net install image to upgrade from the Solaris 2.6 and Solaris 7 operating environments. Do not use CDs or CD images to upgrade.
- After upgrading, follow these steps.
  1. Login to the system.
  2. Run prodreg.
  3. Uninstall any extra languages.
  4. Insert the Language CD into your CD-ROM drive and run the top level installer.
  5. Choose Custom Install.
  6. Select the languages you want installed.
  7. Complete the Language CD installation by clicking the Next and Install Now buttons.
Previous Versions of Solaris Management Console Software Are Not Compatible With Solaris Management Console 2.0 Software

If you upgrade to the Solaris 8 10/01, or compatible, operating environment and you have Solaris Management Console™ 1.0, 1.0.1, or 1.0.2 software installed, you must uninstall the Solaris Management Console software before you upgrade. Solaris Management Console 2.0 software is not compatible with any previous version of the console. Solaris Management Console software might exist on your system if you installed the SEAS 2.0 overbox, the SEAS 3.0 overbox, or the Solaris 8 Admin Pack.

Workaround: Choose one of the following workarounds.

- Before you upgrade, run /usr/bin/prodreg and perform a full uninstall of the Solaris Management Console software.
- If you did not uninstall Solaris Management Console 1.0, 1.0.1, or 1.0.2 software before you upgraded, you must remove all Solaris Management Console 1.0, 1.0.1., or 1.0.2 software packages. You must use pkgrm for package removal instead of prodreg and you must carefully follow the order of package removal. Follow these steps.

1. Become superuser.
2. In a terminal window, type the following commands.

   ```bash
   # pkginfo | grep "Solaris Management Console"
   # pkginfo | grep "Solaris Management Applications"
   # pkginfo | grep "Solaris Diskless Client Management Application"
   ```

   The package names in the output identify a Solaris Management Console 1.0 software package if the description does not start with "Solaris Management Console 2.0."

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

Note – Do not remove any package that has "Solaris Management Console 2.0" in the description. For example, SUNWmc.2 might indicate the Solaris Management Console 2.0 software.
Note – If the pkginfo output displays multiple versions of Solaris Management Console 1.0 software packages, use pkgrm to remove both packages. Remove the original package first and then the package that has been appended with a number. For example, if the SUNWmcman and SUNWmcman.2 packages appear in the pkginfo output, first remove SUNWmcman and then SUNWmcman.2. Do not use prodreg.

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

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

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

The Solaris Management Console 2.0 software should now function. For future maintenance, or if the console does not function properly, remove the Solaris Management Console 2.0 software and reinstall it by following the next steps.

1. In a terminal window type the following commands.

```
# pkginfo |grep "Solaris Management Console"
# pkginfo |grep "Solaris Management Applications"
# pkginfo |grep "Solaris Diskless Client Management Application"
```

The package names in the output identify the remaining Solaris Management Console software packages that are installed on your system.

2. Use pkgrm to remove all Solaris Management Console 2.0 software packages in the following order.

```
# pkgrm SUNWdclnt
# pkgrm SUNWmga
# pkgrm SUNWmgapp
# pkgrm SUNWmcdev
# pkgrm SUNWmcex
# pkgrm SUNWwbmc
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmccom
```

Note – If your system has multiple instances of Solaris Management Console 2.0 software packages, such as SUNWmc and SUNWmc.2, first remove SUNWmc, and then SUNWmc.2. Do not use prodreg.
3. Insert the Solaris 8 Software (Intel Platform Edition) 1 of 2 CD into your CD-ROM drive and type the following in a terminal window.

```
# cd /cdrom/sol_8_1001_ia/s0/Solaris_8/Product
# pkgadd -d SUNWmccom SUNWmcc SUNWwbmc SUNWmcex SUNWmcdev \ SUNWmsgapp SUNWmga SUNWdclnt
```

All previous versions of the Solaris Management Console software are now removed and the Solaris Management Console 2.0 software is functional.

### 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 that was installed depended on the software cluster that was 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 can customize the configuration of your system at installation of the Solaris 8 operating environment with more freedom than 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 Installed symhisl, mega, or cpqncr Disk Controller Drivers

Do not attempt to install a large partition that extends beyond the 8–Gbyte boundary on a disk that uses any of the controllers that are listed next. If you do attempt to install such a partition, 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 might fail.

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

- 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 that are 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 that you have obtained from DPT. See [http://www.dpt.com](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 can no longer boot. Only a blank black screen with a flashing underscore 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 by using the boot diskette or boot CD because the boot paths do not use the hard disk code. Then select the hard disk as your bootable device instead of the network or CD-ROM drive.

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

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

To enable the DMA feature for improved performance, see “Direct Memory Access (DMA) Is Disabled On PCI-IDE Systems” on page 39.
Installation Bugs That Occur During a Solaris Web Start 3.0 Installation

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

If you use the Solaris 8 10/01 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
```

These messages indicate that Web Start 3.0 on the Solaris 8 10/01 Installation CD cannot change the ownership of the files that are 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 requires some experimentation, however the first or last network device that is 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 might or might not change, depending on the type of changes you have 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 might 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 might 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 that is being created does not map exactly to the space on the disk that is being used. This discrepancy can result in unused space on the disk that is not incorporated into the indicated file system. This unused space is not available for use by other file systems.

**Workaround:** Ignore the warning message.
Custom JumpStart Does Not Prompt for the Solaris 8 Software 2 of 2 CD (4304912)

After you install 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 script and follow the instructions on the screen to install the remaining software.
  5. Insert the Solaris 8 Languages CD.
  6. Execute the installer script 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 architecture for file system caching, which subsumes the Solaris 7 Priority Paging functionality. Do not set the system variable priority paging in the Solaris 8 operating environment. 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 simplifies the observation of system memory characteristics. However, several of the statistics report significantly different values. Consider these differences when you analyze memory behavior or set performance monitoring thresholds. The most notable differences are the following.

- The number of page reclaims is higher, which you should consider normal operation during file system activity that is heavy.
- 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** – Ensure that you read bug description ID 4121281 before you start upgrading your IA (Intel architecture) based system to the Solaris 8 operating environment.

Upgrade Fails if `/export` Is Near Capacity (4409601)

If the `/export` directory is near full capacity and you upgrade to the Solaris 8 10/01 operating environment, the space requirements for `/export` are miscalculated and the upgrade fails. The problem commonly occurs if a diskless client is installed, or if third-party software is installed in `/export`. The following message is displayed.

```
WARNING: Insufficient space for the upgrade.
```

**Workaround:** Before you upgrade, choose one of the following workarounds.

- Temporarily rename the `/export` directory until the upgrade completes.
- Temporarily comment out the `/export` line in the `/etc/vfstab` file until the upgrade completes.
- If `/export` is a separate file system, then unmount `/export` before you perform the upgrade.

Unable to Remove `.save.SUNWcsr` After Upgrading (4400054)

After upgrading from the Solaris 2.5.1 8/97 or 11/97 operating environment to the Solaris 8 operating environment, you might see the following error in `/a/var/sadm/system/logs/upgrade_log`.

```
rm: Unable to remove directory /a/var/sadm/pkg/.save.SUNWcsr: File exists
```

**Workaround:** To prevent the error, before you upgrade to the Solaris 8 operating environment, perform `fsck` on the root file system.

To resolve the error after you upgrade, perform `fsck` on the root file system.
Upgrading Diskless Client Servers and Clients (4363078)

If your system currently supports diskless clients that were installed with the AdminSuite 2.3 Diskless Client tool, you must first delete all existing diskless clients prior to installing the Solaris 8 10/01 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 10/01 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 Web-Based Enterprise Management (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), Solaris 8 10/00 (WBEM Services 2.2), or Solaris 8 1/01 (WBEM Services 2.3) operating environments to the Solaris 8 10/01 operating environment (Solaris WBEM Services 2.4), you must convert any proprietary custom Managed Object Format (MOF) data to the new Reliable Log repository format that is used with Solaris WBEM Services 2.4. Failure to convert the data results 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 10/01 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 that is 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 10/01 operating environment, you must convert the WBEM data. For specific instructions, see “Upgrading the WBEM Repository to Prevent WBEM Data Loss” in Solaris 8 Installation Supplement.

DiskSuite May Cause Data Loss (4121281)

The DiskSuite™ metaarb 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 metaarb 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 metaarb configurations, removing metaarb replicas, upgrading IA-based systems to the Solaris 7 and 8 operating environments, upgrading DiskSuite to version 4.2, and restoring metadevice 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 that run 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 might fail because the reallocation mechanism does not allow for the extra space that is 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 several messages that indicate 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 WBEM 1.0 to the Solaris 8 Operating Environment Causes WBEM 2.0 to Fail (4274920)**

If you installed WBEM 1.0 from the Solaris Easy Access Server (SEAS) 3.0 CD on a system that runs 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 you upgrade 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 the following:

   ```
   % pkginfo | grep WBEM
   ```

2. Become superuser.

3. Use the `pkgrm` command to remove all WBEM 1.0 packages by typing the following.

   ```
   # pkgrm SUNWwbapi
   # pkgrm SUNWwbcor
   # pkgrm SUNWwbdev
   # pkgrm SUNWwbdoc
   # pkgrm SUNWwbm
   ```
SUNWeeudt Partially Fails to Install During an Upgrade (4304305)

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

```plaintext
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. To remove the SUNWeeudt package, type the following.
   ```
   # pkgrm SUNWeeudt
   ```

2. To add the SUNWeeudt package, type the following.
   ```
   # pkgadd SUNWeeudt
   ```

Localization Bugs That Occur During Installation

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.

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 environment to the Solaris 8 10/01 operating environment, the following errors might appear in the upgrade logs.
Doing pkgadd of SUNWplow to /.
pkgadd: ERROR: unable to create package object 
    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 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 that are specified causes parts of the installation process to be displayed in English. In addition, all the localization packages are not installed. The following message is displayed.

XView warning: "de" kann nicht als Sprachumgebungs-Kategorie Ausgabesprache (gesetzt über Umgebungsvariable(n)) verwendet werden, wenn Standardsprache auf "de_AT.ISO8859-15" gesetzt ist
(Server Package)

XView warning: Requested input method style not supported.
(Server package)

Workaround: Install the Solaris operating environment by 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 10/01 Documentation CD and in the Installation Kiosk on the Solaris 8 10/01 Installation CD.

- “USB Device Might Not Be Recognized When Hot-Plugged (4500963)” on page 31
- “Audio Applications Might Stop Working After a USB Audio Device Is Hot-Unplugged (4424286)” on page 32
- “USB Speakers Might Not Produce Sound” on page 32
- “Remote Display of Solaris Management Console Hangs (4488117)” on page 36

**Note** – The name of this product is Solaris 8 10/01, but code and path or package path names might use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

USB Audio Issues

USB Device Might Not Be Recognized When Hot-Plugged (4500963)

If a system is booted without the reconfiguration option and no USB keyboard or mouse is connected, USB drivers are not automatically attached. The system will not recognize hot-plugged USB devices.
**Workaround:** To make the system recognize hot-plugged USB devices, choose one of the following workarounds:

- Add the following line to `/etc/system` and reboot the system.
  ```
  forceload:drv/uhci
  ```
- Type the following on a command line.
  ```bash
  # devfsadm -i uhci
  ```

For more information see `devfsadm(1M)`.

---

**Audio Applications Might Stop Working After a USB Audio Device Is Hot-Unplugged (4424286)**

If you hot-unplug a USB audio device the links to `/dev/audio` are broken. As a result, some audio applications might not recognize audio devices, including on-board audio. Rebooting the system or hot-plugging the USB audio device has no effect.

**Workaround:** Perform the following steps after a USB audio device is hot-unplugged.

1. Become superuser.
2. Correct the broken links by typing the following on a command line.
   ```bash
   # rm /dev/audio*
   # /usr/sbin/devfsadm -c audio
   ```

For more information see `devfsadm(1M)`.

---

**USB Speakers Might Not Produce Sound**

Third-party USB speakers might not produce sound after the USB driver is attached. Increasing the speaker volume or hot-plugging the device might not have any effect.

**Workaround:** Powercycle the USB speakers.
Smart Card Bugs

Smart Card User Cannot Login (4449515)
If you change the authentication defaults for a smart card and the PIN authentication mechanism is not included, access to the smart card is denied. Subsequent authentication mechanisms are inaccessible and the smart card user cannot log in.

Workaround: Choose one of the following workarounds.
- Do not modify the default authentication settings.
- If you modify default authentication settings, you must include and configure the PIN authentication mechanism.

System Does Not Respond to Smart Card (4415094)
If ocfserv terminates and the display is locked, the system remains locked even when a smart card is inserted or removed.

Workaround: Perform the following steps to unlock your system.
1. Use rlogin to connect to the system on which the ocfserv process terminated.
2. Kill the dtsession process by typing the following in a terminal window.
   ```%
   pkill dtsession
   ```

   The ocfserv process restarts and smart card login and functionality will be restored.

Edit Config File Menu Item in Smart Cards Management Console Does Not Work (4447632)
The Edit Config File menu item in the Smart Cards Management Console does not edit smart card configuration files that are located in /etc/smartcard/opencard.properties. If the menu item is selected, a warning is displayed that indicates not to continue unless requested by technical support.

Workaround: Do not use the Edit Config File menu item in the Smart Cards Management Console. For information on smart card configuration, see Solaris Smart Cards Administration Guide.
Common Desktop Environment (CDE) Issues

Compiling Motif Programs on the Solaris 8 Operating Environment

A problem occurs when you compile a Motif program in the Solaris 8 operating environment under the following circumstances. 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, 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 that were compiled in the Solaris 2.4, 2.5, 2.6 operating environments, which should run correctly in the Solaris 8 operating environment.

Workaround: If an older shared library links directly to the Motif library, and if you are compiling a program in the Solaris 8 operating environment that links to both Motif and that older shared library, use a line such as the following to compile:

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

In this line, `program` is the name of the program you are compiling.

Common Desktop Environment Bugs

OpenWindows File Manager Fails to Mount Diskette (4329368)

The OpenWindows™ File Manager fails to display a File Manager view that lists the contents of a floppy disk in certain circumstances. The problem occurs when you insert a floppy disk into the drive on a system that also has a SCSI removable media device. When you select Check for Floppy from the File menu in File Manager, File
Manager mounts the floppy disk in the /floppy directory, but fails to display a File Manager view that lists the floppy disk contents.

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

- To view the contents of a floppy disk, 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 floppy disk, follow these steps:
  1. Unmount the floppy disk.
     ```
     % volrmmount -e floppy0
     ```
     In this command, floppy0 is the floppy disk’s folder in the /floppy directory.
  2. Format the floppy disk.
     ```
     % fdformat floppy0
     ```

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

  **Note** – If you have already unmounted the floppy disk, go to step 2 of this workaround.

  1. Unmount the floppy disk.
     ```
     % volrmmount -e floppy0
     ```
     In this command, floppy0 is the floppy disk’s folder in the /floppy directory.
  2. Create the appropriate file system on the floppy disk.
     - To create a new UFS file system on the floppy disk, use the newfs command:
       ```
       % newfs /vol/dev/aliases/floppy0
       ```
     - To create a PCFS file system on the floppy disk, use the mkfs command:
       ```
       % mkfs -F pcfs /vol/dev/aliases/floppy0
       ```
  3. Mount the floppy disk.
     ```
     % volrmmount -i floppy0
     ```

- To eject the floppy disk, use the eject command.
  ```
  % eject floppy0
  ```

To prevent this problem, apply patch 109464-01.
PDASync Cannot Delete Last Entry From the Desktop (4260435)

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

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

PDASync Does Not Support Data Exchange With the Multibyte Internationalized PDA Device (4263814)

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

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

System Administration Bugs

Remote Display of Solaris Management Console Hangs (4488117)

When you remotely display the Solaris Management Console on the Solaris 8 7/01, or 10/01 operating environment, opening a dialog box in the console causes the console, including the open dialog box, to hang.

**Workaround:** Use the Solaris Management Console on your local system to connect to, and manage, a system running the Solaris 8 7/01, or 10/01, operating environment. Follow these steps.

1. Close the hung console window.
2. Start the Solaris Management Console on your local system.
3. Select Open Toolbox from the console menu.
4. Click the Server Toolbox tab and select, or enter, the name of the remote system you want to manage.
5. Click the Open button.

You can now use the console to manage the remote system.

Web-Based Enterprise Management (WBEM) HTTP Service Does Not Automatically Start (4486999)

The WBEM HTTP service in the Solaris 8 operating environment does not automatically start. If you want to use HTTP to connect to WBEM, you must manually start the WBEM HTTP service.

Workaround: To manually start the WBEM HTTP service, follow these steps.
1. Become superuser.
2. Stop the WBEM server if it is running.
   # /etc/init.d/init.wbem stop
3. Set your classpath to include the following .jar files.
   # CLASSPATH=/usr/sadm/lib/wbem/cimapi.jar:/usr/sadm/lib/xml.jar: \
   /usr/sadm/lib/wbem/cimom.jar
   # export CLASSPATH
4. Start the HTTP service.
   # java com.sun.wbem.client.HttpService &
5. Start the Common Information Model (CIM) Object Manager service.
   # /usr/sadm/lib/wbem/wbemconfig &

WBEM Event Delivery Fails When Lowercase Is Used (4441369)

If a Solaris provider generates indications and the class name is set to uppercase, the event delivery fails.

Workaround: Use uppercase characters to define indication class names.
Incorrect Error Message When Using `flarcreate -e` and `-E` (4404811)

If you run the `flarcreate` command with both the `-e` and `-E` options an error is encountered. The following message is displayed.

```
ERROR: Options -D and -f are mutually exclusive
```

The message should read as follows.

```
ERROR: Options -E and -e are mutually exclusive
```

**Workaround:** Ignore the error message. Do not use the `-e` and `-E` options together.

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 CIM Object Manager has run low on memory.
You must reset the CIM Object Manager Repository.
```

**Workaround:** To reset the CIM Object Manager Repository, follow these steps.

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/logr
   ```
4. Restart the CIM Object Manager.
   ```
   # /etc/init.d/init.wbem start
   ```
Note – You lose any proprietary definitions in your datastore. You must recompile the MOF files that contain those definitions by using the `mofcomp` command. For example:

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

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](http://www.sun.com/solaris/netscape).

If you choose to install 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.


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, do the following.

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 you boot from the boot diskette, the new ata-dma-enabled property value is preserved on the diskette. Therefore, the changed value is in effect when you reuse 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 and select View/Edit Property Settings.
5. Press F2_Continue.
6. 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 by setting the `ata-dma-enabled` property to 0 and using the previous 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 might also include `path not found` or `invalid ID`.

**Workaround:** If the message `command failed` is displayed, ensure 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.

```bash
# 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 might display the following erroneous error message.

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

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

**Workaround:** Ignore the error message.

---

**Solaris Runtime Issues**
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 by 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.

Runtime Localization Bugs

Euro Not Accessible in UTF-8 Locales (4363812)

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

**Workaround:** Log in 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 you launch a Java application from any UTF-8 locale.
Workaround: Log in to 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 of 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 you use 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 that is running under en_US.UTF-8 in Arabic input mode and an application or window 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, zh=UTF-8, which is also known as zh_CH.UTF-8, and zh_TW.UTF-8 locales.
Workaround: Use the `en_US.UTF-8` locale if you need to enter Thai, Arabic, or Hebrew by using CTL. If you want to enter those languages in Asian and Japanese UTF-8 locales, do the following.

1. Create a symbolic link to common CTL modules. In the instance of `ja_JP.UTF-8`, use the following commands:

   ```bash
   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 Thai language, use the following.

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

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.

```bash
# 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 and you are using the Font Downloader, both the Add and Cancel buttons in the Add Printer dialog box are incorrectly labeled. Both buttons are 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>
<thead>
<tr>
<th>Key</th>
<th>Sun Keyboard Layout</th>
<th>Microsoft Keyboard Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>T</td>
<td>Arabic Lam_alef with Hamza below</td>
</tr>
<tr>
<td>U</td>
<td>U</td>
<td>Right single quotation mark</td>
</tr>
<tr>
<td>I</td>
<td>I</td>
<td>Arabic multiplication sign</td>
</tr>
<tr>
<td>O</td>
<td>O</td>
<td>Arabic division sign</td>
</tr>
<tr>
<td>A</td>
<td>;</td>
<td>Arabic Kasra</td>
</tr>
<tr>
<td>S</td>
<td>S</td>
<td>Arabic Kasratan</td>
</tr>
<tr>
<td>Z</td>
<td>Z</td>
<td>Tilde</td>
</tr>
<tr>
<td>X</td>
<td>X</td>
<td>Arabic Sukun</td>
</tr>
<tr>
<td>C</td>
<td>Arabic Kasratan</td>
<td>Left curly brace</td>
</tr>
<tr>
<td>V</td>
<td>Arabic Kasra</td>
<td>Right curly brace</td>
</tr>
<tr>
<td>M</td>
<td>Sukun</td>
<td>Single low quotation mark</td>
</tr>
<tr>
<td>&lt;</td>
<td>&lt;</td>
<td>Arabic comma</td>
</tr>
</tbody>
</table>

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 you press 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 produces unexpected results.

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

```bash
# echo $LC_COLLATE
> es_ES.UTF-8
# setenv LC_COLLATE es_ES.ISO8859-1
Then start sorting.
```

### Applications Not Fully Localized (4304495, 4306619)

The following applications are not fully localized. Some parts are not fully translated.

- Smart Card application (4304495)
- SEAM application messages (4306619)
Late-Breaking News

This chapter includes information on new features that arrived too late to be included in the Solaris 8 documentation set. For information on new features in the Solaris 8 10/01 operating environment, refer to the Solaris 8 10/01 Update AnswerBook Collection on http://docs.sun.com.

Update Feature Documentation

Some features in this Update release may not have documentation other than man pages. For additional reference, follow the links for documentation on the Solaris 9 operating environment Early Access page at:

http://www.sun.com/solaris/programs/solaris9ea

When accessing Solaris 9 documentation during the beta period, you may be asked to accept a restricted usage license.

Diskless Client Support

The Solaris 8 10/01 operating environment includes 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 that is described in RFC 2362. The Solaris 8 operating environment does not include the routing daemons. For users who are using the Solaris 8 operating environment to route their multicast network traffic, implementations of the PIM protocol Sparse mode and Dense mode are at http://netweb.usc.edu/pim.

Configuring Runtime Search Paths

You can now modify the runtime linker’s search paths with the -z nodelfaultlib option to the ld command and with runtime configuration files that are created by the new utility crle(1).
End-of-Software Support Statements

This chapter lists end-of-support statements.

Current Release

This section describes end-of-support statements that apply to the Solaris 8 10/01 operating environment.

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. Any attempt to run Solstice AdminSuite 2.3 to configure a Solstice AutoClient or diskless client results in a failure for which no patch is available or planned. Solaris 8 10/01 includes new commands for diskless client management. See smossservice(1M) and smdiskless(1M) for more information.

F3 Font Technology

F3 fonts and the TypeScaler rasterizer, the Sun proprietary scalable font technology, is no longer supported. Sun continues 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 in sys/types.h is not supported in the 64-bit compilation environment. This data type is currently only available in the 32-bit compilation environment.

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

Two sets of application programming interfaces (API) enable 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 more capable and more portable than the older getutent(3C) routines.

Older applications can 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 that is contained in these files constrains the future evolution of the Solaris operating environment. Applications that use these files should be updated to use the documented and supported APIs.
Applications that are already using the `getutent(3C)` family of routines might be unaffected on small system configurations. However, in future releases these interfaces might return errors when you use them on very large system configurations. For this reason, use the `getutxent(3C)` routines for old code and new code instead of the `getutent(3C)` APIs.

**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 and upgrade, and after unconfiguration that uses `sys-unconfig(1M)`.

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

**Console Subsystem**

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

Documented interfaces include the following.

- `pcmapkeys(1)`
- `loadfont(1)`
- `loadfont(4)`

Undocumented and unsupported interfaces include the following.

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

**Video Cards**

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

- Boca Voyager 64
- Compaq QVision 1024
Future Releases

This section describes end-of-support statements that apply to future releases of the Solaris operating environment.

Perl Version 5.005_03

The default version of Perl might be changed to a version that is not binary compatible with the current default (5.005_03) in a future release of the Solaris operating environment. Customer-installed modules need to be rebuilt and reinstalled against the new version. Modify any scripts that require the use of version 5.005_03 to explicitly use the 5.005_03 version of the interpreter (/usr/perl5/5.005_03/bin/perl) instead of the default version (/bin/perl or /usr/perl5/bin/perl).

Early Access (EA) Directory

The name of the EA directory might be changed in a future minor release of the Solaris operating environment media.

SUNWebnfs

The SUNWebnfs package might no longer be included on future releases of Solaris operating environment media.

The library and documentation are available for download from http://www.sun.com/webnfs.
aspppd(1M) Utility
The aspppd(1M) utility might no longer be supported in a future release. Use the pppd(1M) utility with Solaris PPP 4.0 that is included in the Solaris 8 operating environment.

JDK 1.2.2 and JRE 1.2.2
Version 1.2.2 of the JDK and version 1.2.2 of the JRE might no longer be supported in a future release. Near-equivalent functionality is supported by Java 2 Standard Edition, version 1.3 and compatible versions. All current and previous versions of the JDK and JRE are available for download from http://java.sun.com.

JDK 1.1.8 and JRE 1.1.8
Version 1.1.8 of the JDK and version 1.1.8 of the JRE may no longer be supported in a future release. Near-equivalent functionality is supported by Java 2 Standard Edition, version 1.3 and compatible versions. All current and previous versions of the JDK and JRE are available for download from http://java.sun.com.

GMT Zoneinfo Timezones
The /usr/share/lib/zoneinfo/GMT[+-]* time zones might no longer be supported in a future release. These files might be removed from /usr/share/lib/zoneinfo. Replace usage of the zoneinfo timezones with the equivalent Etc/GMT[+-]* file. See zoneinfo(4) and environ(5) for more information.

s5fs File System
The s5fs file system might no longer be supported in a future release. The s5fs file system supports the installation of Interactive UNIX applications. Support for the installation of Interactive UNIX applications is no longer required in the Solaris operating environment.
sendmail Utility Features

Some features of the sendmail utility might no longer be supported in a future release. The affected features are modifications that are specific to Sun and are nonstandard. 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 about 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 available at http://docs.sun.com.

AdminTool

AdminTool (admintool), including swmtool, might no longer be supported in a future release. These tools 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 might no longer be supported in a future release.

XIL

XIL might no longer be supported in a future release. An application that uses XIL causes the following warning message to be displayed.

WARNING: XIL OBsolescence
This application uses the Solaris XIL interface which has been declared obsolete and may not be present in versions 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, might no longer be included 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).

SUNWrdm

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


crash(1M) Utility

The crash(1M) utility might no longer be supported in a future release. The crash command is a utility that examines system crash dump files, which is a capability that 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 are making the transition from using crash to using mdb.

Kerberos Version 4 Client

The Kerberos version 4 client might be removed from a future release. This client 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. Support is also in the kerberos(3KRB) library, and in the ONC RPC programming API 
kernos_rpc(3KRB).
adb(1) Map Modifiers and Watchpoint Syntax

The adb(1) utility might 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. These differences include the following.

- The text output format of some subcommands is different in mdb(1). Macro files are formatted by using the same rules, but scripts that depend on the output of other subcommands might need to be modified.
- The watchpoint length specifier syntax in mdb(1) is different from the syntax that is described in adb(1). The adb(1) watchpoint commands :w, :a, and :p enable 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 might no longer be supported in a future release. Therefore, consider migration to the Motif toolkit. To disable the warning message, use #define OWTOOLKIT_WARNING_DISABLED or -D.

OpenWindows Environment For Users

The OpenWindows environment might no longer be supported in a future release. Therefore, consider migration to the Common Desktop Environment (CDE).

Federated Naming Service (FNS)/XFN Libraries and Commands

The Federated Naming Service that is based on the X/Open XFN standard might no longer be supported in a future release.
Crash Dump Options for Solaris `ipcs(1)` Command

The capability of applying `ipcs(1)` command to system crash dumps by using the `-C` and `-N` command-line options might no longer be supported in a future release. Equivalent capability is now provided by the `mdb(1):ipcs` debugger command.

Deprecate `sendmail -AutoRebuildAliases` Option

The `-AutoRebuildAliases` option for the `sendmail(IM)` man page is deprecated and might no longer be supported in a future release.

devconfig

devconfig might 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>
<thead>
<tr>
<th>Name of Physical Device</th>
<th>Name of Driver</th>
<th>Type of Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mylex/Buslogic FlashPoint Ultra PCI SCSI</td>
<td>flashpt</td>
<td>SCSI HBA</td>
</tr>
<tr>
<td>Qlogic</td>
<td>hxhn</td>
<td>SCSI HBA</td>
</tr>
<tr>
<td>AMI MegaRAID host bus adapter, first generation</td>
<td>mega</td>
<td>SCSI RAID</td>
</tr>
<tr>
<td>Madge Token Ring Smart 16/4, Madge Token Ring Smart 16/4 PCI BM Mk2, Madge Token Ring</td>
<td>mtok</td>
<td>Network</td>
</tr>
<tr>
<td>Smart 16/4 PCI BM Mk1, and Madge Token Ring PCI Presto</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI</td>
<td>cpqncr</td>
<td>SCSI HBA</td>
</tr>
</tbody>
</table>
## TABLE 4–1 Device Support and Driver Software (Continued)

<table>
<thead>
<tr>
<th>Name of Physical Device</th>
<th>Name of Driver</th>
<th>Type of Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>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</td>
<td>cnft</td>
<td>Network</td>
</tr>
<tr>
<td>Compaq SMART-2/P Array Controller and Compaq SMART-2SL Array Controller</td>
<td>smartii</td>
<td>SCSI RAID controller</td>
</tr>
</tbody>
</table>

**Intel 486–Based Systems**

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

This chapter describes known documentation problems.

**Note** – The name of this product is Solaris 8 10/01, but code and path or package path names might use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Documentation Errata

“OCF Client Properties Overview” in *Solaris Smart Cards Administration Guide*

The following text from the “Valid and Default Card Types for Client Applications” section is incorrect and should be ignored:

For example, suppose you specify iButton, Cyberflex, and CardA as the validcards properties for Application B. Then you specify Cyberflex as the defaultcard property. If Application B accepts only its default card and the user tries to log in to Application B with CardA, then the system displays the message:

Waiting for Default Card
Login to Application B is blocked until the user inserts a Cyberflex card into the reader.
“Setting Up a Smart Card (Tasks)” in *Solaris Smart Cards Administration Guide*

The “Example—Creating User Information on a Smart Card (Command Line)” section has a property that is named `username`. The property name is incorrect. The property should read `user`.

“OCF Client Properties Overview” in *Solaris Smart Cards Administration Guide* and “Additional Client Configuration Tasks” in *Solaris Smart Cards Administration Guide*

The following note is missing from the “OCF Client Properties Overview” and “Additional Client Configuration Tasks” section.

---

**Note** – Do not set the Re-authentication timeout to zero.

---

“Setting Up a Smart Card (Overview)” in *Solaris Smart Cards Administration Guide*

The following note is missing from the “Setting Up a Smart Card (Overview)” chapter.

---

**Note** – Payflex cards do not support multiple profiles. Do not use Payflex cards in cases where a user needs to log in to the desktop and one or more secure applications.

---

Document Affected: Localized New Features List (4389948)

The localized New Features List is 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*, or *Solaris 8 Installation Supplement.*

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


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. Except for the number issue, the documentation is correct.


The current statement is incorrect.

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

This statement should read as follows.

The following Adaptec Ultra SCSI devices are now supported by the adp driver and not the cadp driver.

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

The current statement that indicates support of the cadp driver appears in the following documents.

- Solaris 8 Reference Manual Collection cadp(7D) and cadp(7D)
- What’s New in the Solaris 8 Operating Environment

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


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 instead of the Priority field. The Priority bulleted item 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 that are allocated to the “Flow Label” field to 20 bits.


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 that were 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.


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


Several corrections apply to this section.

- For the nfs_32_time_ok symbol, do the following.
  - Change the symbol name to nfs_allow_preepoch_time.
  - Change the description to, “This symbol controls whether the NFS client or server allows file timestamps that precede 1970.”
  - No change to the default description.
  - Delete the nfs_acl_cache symbol entry.
  - Add an nfs_disable_rddir_cache symbol entry.
- Description: Some servers do not properly update the attributes of the directory when changes are made. To allow interoperability with these broken servers, set this variable to disable the readdir cache.
- Default: Set to off(0).
- For the nfs_lookup_neg_cache and nfs3_lookup_neg_cache symbols, do the following.
  - Change the default to 1. Ignore the comment about the directory name caching.
- For the nrnode symbol, do the following.
  - Change the default description to set to ncsiz. By setting the variable to 1, you are effectively disabling the cache, not because an explicit check reveals whether or not the variable 1 but because you are creating a very small cache.
- For the nfs_write_error_interval symbol, do the following.
  - Change the description to, “This symbol controls how often NFS ENOSPC and EDQUOT write error messages are logged. The symbols units are in seconds.”
  - No change to the default description.

Delete the nfsreadmap symbol entry.

For the authdes_cachesz symbol, do the following.
- Change the default description to, “Defaults to 1024”.
- Delete the authkerb_cachesz symbol entry.
- Delete the authkerb_win symbol entry.
CERT Advisories

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

**TABLE 6-1 CERT Advisories**

<table>
<thead>
<tr>
<th>CERT Advisory</th>
<th>Topic</th>
<th>Fix Integrated in OS Version</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-96.01</td>
<td>UDP Port Denial-of-Service Attack</td>
<td>Solaris 2.5.1</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.03</td>
<td>Kerberos 4 Key Server</td>
<td>N/A</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.04</td>
<td>Corrupt Information from Network Servers</td>
<td>Solaris 2.5.1</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.05</td>
<td>Java</td>
<td>N/A</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.06</td>
<td>NCSA/Apache CGI</td>
<td>N/A</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.07</td>
<td>Java Bytecode Verifier</td>
<td>N/A</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.08</td>
<td>PCNFSD</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CA-96.09</td>
<td>rps.statd</td>
<td>Solaris 2.5.1</td>
<td></td>
</tr>
<tr>
<td>CA-96.10</td>
<td>NIS+ Configuration</td>
<td>Solaris 2.5.1</td>
<td></td>
</tr>
<tr>
<td>CA-96.11</td>
<td>Interpreters in CGI bin</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CERT Advisory</td>
<td>Topic</td>
<td>Fix Integrated in OS Version</td>
<td>Comments</td>
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<td>------------------------</td>
<td>------------------------------</td>
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<tr>
<td>CA-96.12</td>
<td>suidperl</td>
<td>N/A</td>
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</tr>
<tr>
<td>CA-96.13</td>
<td>dip</td>
<td>N/A</td>
<td></td>
</tr>
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<td>rdist</td>
<td>Solaris 2.6</td>
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<td>CA-96.15</td>
<td>KCMS</td>
<td>Solaris 2.6</td>
<td></td>
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<tr>
<td>CA-96.16</td>
<td>AdminTools</td>
<td>Solaris 2.6</td>
<td></td>
</tr>
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<td>CA-96.17</td>
<td>vold</td>
<td>Solaris 2.6</td>
<td></td>
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<td>fm_fls</td>
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<td></td>
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<tr>
<td>CA-96.19</td>
<td>expreserve</td>
<td>Solaris 2.5</td>
<td></td>
</tr>
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<td>CA-96.20</td>
<td>sendmail resource</td>
<td>Solaris 2.6</td>
<td></td>
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<tr>
<td>CA-96.21</td>
<td>TCP SYN Flood</td>
<td>Solaris 2.6</td>
<td></td>
</tr>
<tr>
<td>CA-96.22</td>
<td>bash</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CA-96.23</td>
<td>workman</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CA-96.24</td>
<td>sendmail daemon</td>
<td>N/A</td>
<td>Solaris 8 operating environment not affected</td>
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<tr>
<td></td>
<td>mode vulnerability</td>
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<td></td>
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<td>CA-96.25</td>
<td>sendmail group</td>
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<td>Topic</td>
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<td>CA-99-17</td>
<td>Denial of service tools</td>
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</table>
APPENDIX A

Patch List

The patches listed in this appendix have been applied to the Solaris 8 10/01 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 10/01 release.

---

**Patch List**

- **108529-11 – SunOS 5.8_x86: kernel update patch**

  1231256 4044653 4093980 4159348 4178572 4184090 4224166 4226443 4226932 4233718 4233832 4234426 4235823 4254594 4259051 4259848 4261064 4261322 4261567 4262685 4262842 4262930 4264390 4265649 4269556 4271378 4271733 4272737 4273250 4276021 4278935 4282158 4282212 4284196 4288248 4290073 4290532 4290575 4293528 4293692 4294881 4295776 4296081 4296124 4296770 4298256 4298472 4298789 4298790 4298792 4299504 4299838 4300179 4300788 4300951 4301683 4302637 4303126 4303142 4303474 4303649 4304033 4304696 4305365 4305696 4305709 4306004 4306367 4307062 4307080 4307475 4307697 4307747 4307771 4307800 4307827 4308242 4308245 4308370 4309011 4309330 4309719 4309750 4309784 4309802 4309818 4310864 4311126 4311134 4311755 4312278 4312461 4312461 4312937 4313746 4313747 4314121 4314201 4314488 4314936 4315098 4315100 4315101 4316672 4317174 4317476 4317728
108624-02 – SunOS 5.8_x86: Thai Wordbreak Iterator module

108653-33 – X11 6.4.1_x86: Xsun patch

108694-06 – Solstice DiskSuite 4.2.1_x86: Product patch

108715-05 – CDE 1.4_x86: libDtWidget patch

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

108726-06 – SunOS 5.8_x86: st driver patch
- 108728-08 – SunOS 5.8_x86: /kernel/fs/nfs patch
- 108774-08 – SunOS 5.8_x86: IIIOM and X Input & Output Method patch
- 108782-01 – Solaris 8_x86: Get UDCTool to work for zh_TW
- 108809-37 – SunOS 5.8_x86: Manual Page updates for Solaris 8
- 108821-01 – SunOS 5.8_x86: /usr/lib/nss_compat.so.1 patch
- 108824-01 – SunOS 5.8_x86: compress/uncompress/zcat patch
- 108826-01 – SunOS 5.8_x86: /usr/lib/fs/cachefs/cfsadmin patch
- 108828-13 – SunOS 5.8_x86: /usr/lib/libthread.so.1 patch
- 108836-02 – CDE 1.4_x86: dtcm patch
- 108870-09 – SunOS 5.8_x86: snmpdx/mibiisa/libssasnmplib patch
- 108876-09 – SunOS 5.8_x86: c2audit patch
- 108898-01 – X11 6.4.1_x86: Xprint patch
- 108900-01 – SunOS 5.8_x86: /usr/bin/ftp patch

- 108902-04 – SunOS 5.8_x86: /kernel/sys/rpcmod and /kernel/strmod/rpcmod patch

- 108915-01 – SunOS 5.8_x86: localisation updates for different components
- 108920-11 – CDE 1.4_x86: dtlogin patch

- 108922-13 – CDE 1.4_x86: dtwm patch

- 108924-01 – CDE 1.4_x86: dtwm patch

- 108934-01 – SunOS 5.8_x86: bugfix for European locales, dtmail, dtcalc, SmartCard

- 108941-33 – Motif 1.2.7_x86 and 2.1.1_x86: Runtime library patch for Solaris 8_x86

- 108950-06 – CDE 1.4_x86: litDtHelp/libDtSvc patch

- 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

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

- 108965-06 – SunOS 5.8_x86: /usr/sbin/snoop patch

- 108969-05 – SunOS 5.8_x86: vol/vold/rmmount patch
108971-01 – SunOS 5.8_x86: /usr/lib/fs/pcfs/fsck and /usr/lib/fs/pcfs/mkfs patch

108973-04 – SunOS 5.8_x86: /sbin/fdisk patch

108976-05 – SunOS 5.8_x86: /usr/bin/rmformat and /usr/sbin/format patch

108978-01 – SunOS 5.8_x86: libsmedia patch

108986-03 – SunOS 5.8_x86: /usr/sbin/in.rshd patch

108988-07 – SunOS 5.8_x86: Patch for patchadd and patchrm

108990-02 – SunOS 5.8_x86: acctctl & exacctsys patch

108996-02 – SunOS 5.8_x86: /usr/lib/libproc.so.1 patch

108998-03 – SunOS 5.8_x86: libexacct and libproject patch

109000-01 – SunOS 5.8_x86: PAM patch

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

109006-02 – SunOS 5.8_x86: /sbin/su.static and /usr/bin/su patch

109008-06 – SunOS 5.8_x86: at/atrm/batch/cron patch
- 109010-02 – SunOS 5.8_x86: /etc/magic and /usr/bin/file patch
- 109012-01 – SunOS 5.8_x86: /usr/bin/id and /usr/xpg4/bin/id patch
- 109014-02 – SunOS 5.8_x86: /usr/bin/lastcomm patch
- 109016-01 – SunOS 5.8_x86: /usr/bin/newtask patch
- 109018-01 – SunOS 5.8_x86: /usr/bin/pgrep and /usr/bin/pkill patch
- 109020-02 – SunOS 5.8_x86: /usr/bin/prioctl patch
- 109022-01 – SunOS 5.8_x86: /usr/bin/projects patch
- 109024-01 – SunOS 5.8_x86: /usr/bin/i86/ps patch
- 109026-04 – SunOS 5.8_x86: /usr/bin/i86/truss patch
- 109028-01 – SunOS 5.8_x86: /usr/bin/wracct patch
- 109030-02 – SunOS 5.8_x86: perl patch
- 109032-01 – SunOS 5.8_x86: projadd/projdel/projmod patch
- 109034-01 – SunOS 5.8_x86: /usr/bin/i86/prstat patch
- 109036-02 – SunOS 5.8_x86: useradd/userdel/usermod patch
- 109038-01 – SunOS 5.8_x86: /var/yp/Makefile and /var/yp/nicknames patch
- 109044-02 – SunOS 5.8_x86: sonode adb macro patch
- 109046-02 – SunOS 5.8_x86: /usr/sbin/i86/crash patch

- **109069-01** – CDE 1.4_x86: Update Japanese CDE help files for x86
- **109071-06** – SunOS 5.8_x86: fix WBEM improper Japanese messages and update
- **109073-05** – CDE 1.4_x86: (Japanese) New Feature patch
- **109078-04** – SunOS 5.8_x86: dhcp server and admin patch
- **109088-01** – SunOS 5.8_x86: atok8 terminates "Shell widget modeShell has zero..."
- **109092-04** – SunOS 5.8_x86: /usr/lib/fs/ufs/ufsrestore patch
- **109095-01** – SunOS 5.8_x86: localisation updates for different components
- **109119-10** – SunOS 5.8_x86: JFP message files patch
- **109129-01** – SunOS 5.8_x86: Provide conversion between codepages 1256 and ISO8859-6
- **109132-08** – SunOS 5.8_x86: JFP manpages patch
- **109135-22** – SunOS 5.8_x86: WBEM patch

Patch List  77
- 109143-07 – CDE 1.4_x86: dtterm libDtTerm patch

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

- 109148-11 – SunOS 5.8_x86: linker patch

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

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

- 109158-19 – SunOS 5.8_x86: WOS Message Update and more bug fix for UR4/UR5/UR6

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

- 109166-10 – CDE 1.4_x86: dtfile patch

- 109168-01 – CDE 1.4_x86: Desktop Help Updates Patch

- 109170-12 – CDE 1.4_x86: Window Manager Enhancements Patch

- 109180-03 – SunOS 5.8_x86: localisation updates for Removable Media
- 109182-04 – SunOS 5.8_x86: /kernel/fs/cachefs patch
- 109190-04 – SunOS 5.8_x86: Extra Catalan Support required
- 109191-03 – SunOS 5.8_x86: ru.RU.KOI8-R Cannot cut/paste cyrrilic between dtapps
- 109192-02 – SunOS 5.8_x86: Cut/Paste not functioning in ru_RU.KOI8-R
- 109193-02 – SunOS 5.8_x86: Polish UTF-8 Support Solaris 8
- 109201-03 – SunOS 5.8_x86: 110n updates: Removable Media, Window Mgr & Pam Proj.
- 109224-01 – SunOS 5.8_x86: libgss.so.1 and libkadm5clnt.so.1 patch
- 109235-07 – SunOS 5.8_x86: Apache/mod_jserv patch
- 109239-01 – SunOS 5.8_x86: /usr/bin/i86/ipcs patch
- 109248-01 – SunOS 5.8_x86: Bad translation causes core dump in German install
- 109250-01 – SunOS 5.8_x86: Help not localised for the dhcpmgr
- 109278-01 – SunOS 5.8_x86: /usr/bin/iostat patch
- 109280-18 – SunOS 5.8_x86: /kernel/drv/ip patch
- 109319-22 – SunOS 5.8_x86: suninstall patch

4186765 4210386 4245794 4256556 4265363 4299103 4302899 4310379 4310705 4313039 4322703
4324404 4325840 4334036 4336779 4337779 4338255 4342090 4344764 4345757 4350971 4351009
4351486 4355192 4358804 4360631 4365737 4367650 4372310 4378277 4382446 4384102 4384301
4384377 4387795 4391279 4390941 4391651 4392519 4392524 4394060 4400744 4401306 4402955
4403108 4408096 4410698 4415508 4417149 4422644 4428478 4434830 4446215
4452998 4457761 4469749 4488118

- 109321-04 – SunOS 5.8_x86: LP jumbo patch

4187773 4188167 4235953 4260829 4263321 4265529 4281487 4302705 4303242 4309558 4310991
4319723 4324679 4325537 4337699 4342893 4343460 4351942 4367433 4374037 4381196 4383387
4386671 4390810 4411642 4443247 4456925

- 109323-08 – SunOS 5.8_x86: libnsl patch

4283726 4302592 4305859 4320661 4327396 4336332 4354007 4356567 4357266 4374142

- 109325-02 – SunOS 5.8_x86: sh/jsh/rsh/pfsh patch

4300733 4313399

- 109327-06 – SunOS 5.8_x86: libresolv.so.2 and in.named patch

4136555 4253123 4284409 4300887 4324375 4349983 4365909 4409676 4444745 4451645

- 109329-02 – SunOS 5.8_x86: ypserv and ypxfr patch

4203989 4373365

- 109355-10 – CDE 1.4_x86: dtsession patch

4239375 4344648 4316439 4335987 4293551 4389935 4392829 4353429 4386226 4448598 4379463

- 109385-01 – SunOS 5.8_x86: libaio patch

4253437

- 109401-10 – SunOS 5.8_x86: Updated video drivers and fixes

4214829 4282716 4286989 4302364 4302368 4308451 4309613 4319297 4322314 4326244 4326353
4330223 4330423 4331923 4355943 4359858 4360725 4360743 4361061 4361998 4371810 4373680
4379886 4386578 4387761 4401551 4409559 4411550 4419645 4422935 4425845 4433747
4447973 4449958 4450002 4455003 4463893 4465238

- 109412-02 – SunOS 5.8_x86: dtmail prints garbage strings

4326649 4350277

- 109442-04 – SunOS 5.8_x86: sdtudctool patch

4312994 4342214 4393648 4407566

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

4329351

- 109455-01 – SunOS 5.8_x86: /kernel/fs/fifsos patch

4302216

- 109459-02 – SunOS 5.8_x86: /kernel/strmod/ldterm patch
- 4152717 4250344
  - 109471-02 – CDE 1.4_x86: Actions Patch

- 4326649 4353583
  - 109473-08 – SunOS 5.8_x86: /kernel/drv/tcp patch

- 4278842 4291034 4308728 4310189 4311938 4319441 4319717 4324051 4330074 4332542 4360818 4365374 4370123 4375920 4376886 4400356
  - 109538-01 – SunOS 5.8_x86: Unlocalised buttons on user-interface of dhcpmgr

- 4324315
  - 109553-01 – SunOS 5.8_x86: FIGSS-UTF.8, Removable media manager unlocalised

- 4327983
  - 109565-01 – SunOS 5.8_x86: Removable Media Mgr, Missing floppy error unlocalised

- 4329409
  - 109574-01 – SunOS 5.8_x86: dhcpmgr help graphics not displayed correctly

- 4330902
  - 109577-01 – SunOS 5.8_x86: mountall and fsckall patch

- 4260430
  - 109583-02 – CDE 1.4_x86: sdtaudio patch

- 4305400 4432159 4431982 4433451 4429797 4429821 4445064 4426084 4430200 4437137 4335622 4205093 4334951 4172865 4346390 4373526 4360130 4391013 4389881 4412645 4412646 4417212 4412604 4413156 4419366 4428810 4463491 4462800 4462462 4462191
  - 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
  - 109614-03 – CDE 1.4_x86: dtmail patch

- 4133950 4362276 4372376 4336922 4398137
  - 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

Patch List 81
- 109643-01 – SunOS 5.8_x86: /usr/include/sys/dkio.h patch
- 109644-05 – SunOS 5.8_x86: /kernel/drv/sd patch
- 109668-03 – SunOS 5.8_x86: /usr/lib/inet/xntpd and /usr/sbin/ntpd patch
- 109693-02 – SunOS 5.8_x86: Information: File contents are out of date
- 109705-02 – SunOS 5.8_x86: Japanese iconv patch
- 109728-01 – SunOS 5.8_x86: /usr/sadm/admin/printmgr/classes/pmclient.jar patch
- 109730-01 – SunOS 5.8_x86: /usr/bin/cat patch
- 109741-05 – SunOS 5.8_x86: /kernel/drv/udp patch
- 109743-05 – SunOS 5.8_x86: /kernel/drv/icmp patch
- 109749-03 – CDE 1.4_x86: sdtaudiocontrol patch
- 109751-03 – SunOS 5.8_x86: translation update and sync with base’s PDA images
- 109753-01 – SunOS 5.8_x86: UI of admintool is lost in partail installation
- 109756-01 – OpenWindows 3.6.1_x86: Japanese update for power mgt util for s28u2
- 109765-03 – SunOS 5.8_x86: /kernel/fs/hsfs patch
- 109767-02 – SunOS 5.8_x86: SUNWjxmft and SUNWjxcft patch for 8/10 dot font.
- 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
- 109806-04 – SunOS 5.8_x86: /usr/lib/security/pam_krb5.so.1 patch
  4330143 4351689 4360931 4373142
- 109808-01 – SunOS 5.8_x86: /usr/sbin/dumpadm patch
  4340246
- 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
- 109869-05 – SunOS 5.8_x86: WOS Help File Update
  4338011 4350353 4419807
- 109878-01 – SunOS 5.8_x86: /usr/include/sys/dma_i8237A.h patch
  4333588
- 109884-02 – 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 4310788 4314412 4314419 4329805 4349418 4364900
- 109891-01 – SunOS 5.8_x86: pmserver.jar patch
  4308951
- 109895-01 – SunOS 5.8_x86: lp driver patch
  4309750
- 109897-08 – SunOS 5.8_x86: USB Audio patch
  4338011 4350353 4419807
109899-03 – SunOS 5.8_x86: /kernel/drv/arp patch

109901-02 – SunOS 5.8_x86: /etc/init.d/network and /sbin/ifparse patch

109903-03 – SunOS 5.8_x86: /usr/lib/inet/in.ndpd patch

109905-05 – SunOS 5.8_x86: /etc/default/mpathd and /sbin/in.mpathd patch

109907-06 – SunOS 5.8_x86: dhcpagent, dhcppinfo, ifconfig and netstat patch


109921-06 – SunOS 5.8_x86: pcic driver patch

109923-02 – SunOS 5.8_x86: pcelx, pcser and cs driver patch

109925-03 – SunOS 5.8_x86: pcata driver patch
- 109927-02 – SunOS 5.8_x86: /kernel/drv/pem patch
- 109929-02 – SunOS 5.8_x86: pcmem and pcmcia patch
- 109932-02 – CDE 1.4_x86: sdtimage Patch
- 109934-01 – SunOS 5.8_x86: mv, cp, ln patch
- 109937-01 – SunOS 5.8_x86: /usr/bin/diff patch
- 109952-01 – SunOS 5.8_x86: jserver buffer overflow
- 109955-01 – SunOS 5.8_x86: /kernel/sys/pset patch
- 109961-01 – CDE 1.4_x86: sdtperfsmeter patch
- 109991-01 – SunOS 5.8_x86: /usr/ccs/bin/dis patch
- 110020-05 – SunOS 5.8_x86: JFP install/sysadm messages patch
- 110045-01 – SunOS 5.8_x86: iswalpha() can’t work well in zh.GBK locale
- 110064-01 – SunOS 5.8_x86: New features added to install
- 110069-02 – CDE 1.4_x86: PDASync patch
- 110076-01 – SunOS 5.8_x86: /kernel/drv/devinfo patch
- 110089-02 – CDE 1.4_x86: DtPower patch
- 110166-02 – SunOS 5.8_x86: /usr/bin/sed patch
- 110207-01 – SunOS 5.8_x86: UTF-8 Windows List Application and Windows mgr (sdtgwm) unlocalised
  4352800 4352861 4342970
- 110207-01 – 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
- 110284-04 – SunOS 5.8_x86: mkfs and newfs patch
  4297460 4333516 4339330 4344221 4374181 4380132
- 110287-03 – OpenWindows 3.6.2_x86: Tooltalk patch
  4334998 4379430 4363822 4417781
- 110323-01 – SunOS 5.8_x86: /usr/lib/netsvc/yp/ypbind patch
  4362647
- 110325-01 – SunOS 5.8_x86: /kernel/drv/asy patch
  4247612
- 110327-02 – CDE 1.4_x86: dtstyle patch
  4321874 4389935 4384360 4319599 4392829 4390631
- 110336-02 – CDE 1.4_x86: dtprintinfo patch
  4325603 4380805
- 110365-02 – SunOS 5.8_x86: Add L10N dttypesbinder files
  4366984 4383627
- 110396-05 – SunOS 5.8_x86: udp ip mipagent
  4278842 4302749 4310956 4313189 4317221 4320918 4324051 4335568 4360818 4370123 43770438
  4375915 4375920 4376886 4377368 4377693 4377694 4378163 4378727 4379361 4382946 4382996
  4382998 4383001 4383007 4383644 4390912 4391040 4392110
- 110397-02 – SunOS 5.8_x86: libnvpair patch
  4233832 4326110 4336779 4357245 4458516
- 110399-03 – SunOS 5.8_x86: RCM libnvpair serengeti sysevent
  4233832 4326110 4336779 4357245 4375059 4375416 4386544
- 110400-01 – SunOS 5.8_x86: Hierarchical and default profiles implementation
  4311781 4313955
- 110401-01 – SunOS 5.8_x86: Hierarchical and default profiles implementation
  4311781 4313955
- 110402-03 – SunOS 5.8_x86: ufsdump patch
4132365 4296770 4339366 4358666
- 110403-03 – SunOS 5.8_x86: ufssnapshots support, libadm patch

4025718 4296770 4451305
- 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
- 110406-02 – SunOS 5.8_x86: ldapclient patch

4310379 4415143
- 110408-02 – CDE 1.4_x86: Sdttypes patch

4313855 4329990 4357804 4365790 4374350
- 110417-03 – SunOS 5.8_x86: ATOK12 patch

4361738 4372858 4384092 4443974
- 110424-03 – SunOS 5.8_x86: SPECIAL PATCH

4349869 4426597 4450211
- 110429-01 – SunOS 5.8_x86: New Turkish UTF-8 locale

4368177
- 110454-01 – SunOS 5.8_x86: admintool patch

4354306
- 110459-02 – SunOS 5.8_x86: libcurses patch

4313067 4398331
- 110462-01 – SunOS 5.8_x86: ttcompat patch

4335144
- 110504-01 – SunOS 5.8_x86: Polish locale monetary incorrect

4380484
- 110512-01 – SunOS 5.8_x86: rpc.nisd patch

4326943
- 110604-01 – CDE 1.4_x86: sdtname patch

4149628 4235799
- 110606-02 – Motif 2.1.1_x86: uil patch for Solaris 8_x86

4404810 4385838
- 110610-02 – SunOS 5.8_x86: cdio.h and commands.h USB patch
- 110612-01 – SunOS 5.8_x86: lp.cat postio
- 110616-01 – SunOS 5.8_x86: sendmail patch
- 110663-04 – SunOS 5.8_x86: ksh patch
- 110669-01 – SunOS 5.8_x86: /usr/sbin/in.telnetd patch
- 110671-01 – SunOS 5.8_x86: usr/sbin/static/rcp patch
- 110717-02 – SunOS 5.8_x86: Solaris Product Registry 3.0 patch
- 110725-01 – SunOS 5.8_x86: liblayout patch
- 110746-01 – SunOS 5.8_x86: toolbox syntax correction
- 110753-01 – SunOS 5.8_x86: Uninstaller doesn’t come up with error messages
- 110755-03 – SunOS 5.8_x86: UR3 new features WBEM updates
- 110757-02 – SunOS 5.8_x86: UR3 new features DCL updates
- 110759-03 – SunOS 5.8_x86: UR3 new features SMC updates
- 110765-03 – SunOS 5.8_x86: UR3 new features MGP updates
- 110767-03 – SunOS 5.8_x86: s28_u4 SUNW0mp update
- 110798-02 – SunOS 5.8_x86: UR4 New msgs and bug fixes
- 110812-01 – SunOS 5.8_x86: libnls patch
- 110814-01 – SunOS 5.8_x86: libxfn patch
- 110816-01 – SunOS 5.8_x86: libmp patch
  4346496
- 110818-01 – SunOS 5.8_x86: apptrace and interceptors patch
  4307470 4344373
- 110855-03 – SunOS 5.8_x86: /usr/lib/rcm/modules/SUNW_ip_rcm.so patch
  4373331 4434131
- 110865-01 – SunOS 5.8_x86: Need to back port fixes for SUNW_PKGLIST
  4402062
- 110886-01 – SunOS 5.8_x86: JFP Solaris Product Registry 3.0 patch
  4405721
- 110889-01 – SunOS 5.8_x86: s28u4_06, figgs, New and updated message strings
  4406660 4407100
- 110897-01 – SunOS 5.8_x86: /usr/lib/fs/cachesfs/mount patch
  4332446
- 110899-02 – SunOS 5.8_x86: csh/pfcsf patch
  4384080 4404641
- 110902-01 – SunOS 5.8_x86: /kernel/drv/sgen patch
  4319625 4325990
- 110904-02 – SunOS 5.8_x86: edit, ex, vedit, vi and view patch
  4059978 4320573 4364594
- 110906-02 – SunOS 5.8_x86: /usr/bin/find patch
  4333804 4354572 4445793
- 110908-01 – SunOS 5.8_x86: /usr/include/arpa/inet.h patch
  4345816
- 110911-01 – SunOS 5.8_x86: /usr/lib/fs/ufs/fsck patch
  4225018
- 110913-02 – SunOS 5.8_x86: cfgadm patch
  4301920 4301922 4301984 4387106 4433560
- 110915-01 – SunOS 5.8_x86: /usr/bin/tr patch
  4366964
- 110917-02 – SunOS 5.8_x86: /usr/bin/i86/sort and /usr/xpg4/bin/sort patch
  4300461 4303258 4304444 4314724 4330831 4334641 4338929 4343080 4351862 4352007 4357085
  4366860 4389764 4404621

Patch List 89
- 110919-03 – SunOS 5.8_x86: /kernel/drv/openeepr patch
  4334314 4346494 4379810 4401168 4416565 4422498 4434338 4451354 4451879 4453614 4458013
  4458210 4459820 4461330 4466463 4467793 4468133 4468450 4470641 4477894 4478393
- 110935-04 – SunOS 5.8_x86: pkgtrans, pkgadd, pkgchk and libpkg.a patch
  4025718 4318844 4331907 4378183 4386585 4394391 4451305
- 110940-01 – SunOS 5.8_x86: /usr/lib/acct/closewtmp patch
  4352064
- 110942-01 – SunOS 5.8_x86: sar and sadc patch
  4026830
- 110944-01 – SunOS 5.8_x86: /usr/bin/tcsh patch
  4384076
- 110946-02 – SunOS 5.8_x86: /usr/sbin/syslogd patch
  4309712 4323101 4336917 4337337 4345133 4345785 4353901 4357732 4374785 4386798 4429942
- 110952-01 – SunOS 5.8_x86: /usr/sbin/tar and /usr/sbin/static/tar patch
  4063224
- 110954-02 – SunOS 5.8_x86: /usr/kernel/drv/l1c2 patch
  4375787 4400795
- 110956-02 – SunOS 5.8_x86: /kernel/strmod/timod patch
  4380632 4453050
- 110958-01 – SunOS 5.8_x86: /usr/bin/mailx patch
  4350331
- 110959-01 – SunOS 5.8_x86: /kernel/drv/xsvc and /kernel/drv/xsvc.conf patch
  4400315
- 110987-02 – SunOS 5.8_x86: SMC help fix
  4354567 4366476 4384181
- 111009-05 – SunOS 5.8_x86: Update SUNW*reg to sync with base changes for S8UR5
  440946  4414341  4462592
- 111015-02 – SunOS 5.8_x86: /platform/i86pc/kernel/drv/sbpro patch
  4233143 4317916 4374774
- 111017-01 – SunOS 5.8_x86: /usr/bin/sdiff patch
  4355588
- 111024-01 – SunOS 5.8_x86: /kernel/fs/mntfs patch
- 111036-01 – SunOS 5.8_x86: /kernel/sys/doorfs patch
- 111070-01 – SunOS 5.8_x86: bsmunconv overwrites root cron tab if cu created /tmp/root
- 111072-01 – SunOS 5.8_x86: cu patch
- 111074-01 – SunOS 5.8_x86: re_comp header patch
- 111086-01 – SunOS 5.8_x86: /bin/login misses failure when logging to /var/adm/loginlog
- 111091-03 – SunOS 5.8_x86: /usr/lib/libsldap.so.1 patch
- 111099-01 – SunOS 5.8_x86: ROC timezone should be avoided for political reasons
- 111112-01 – SunOS 5.8_x86: nawk line length limit corrupts patch dependency checking
- 111142-01 – SunOS 5.8_x86: last doesn’t work correctly for more than 256 users login
- 111178-06 – SunOS 5.8_x86: /usr/lib/lwp/libthread.so.1 patch
- 111187-02 – SunOS 5.8_x86: iprb patch
- 111194-04 – SunOS 5.8_x86: Solaris user registration patch
- 111198-01 – SunOS 5.8_x86: nfs mount of a file > 2GB is impossible
- 111226-01 – SunOS 5.8_x86: tail reserves 2G when reading from a stdin
- 111233-01 – SunOS 5.8_x86: patch in.fingerd
- 111235-01 – SunOS 5.8_x86: patch finger
- 111264-01 – SunOS 5.8_x86: patch mdb
- 111266-01 – SunOS 5.8_x86: patch who
- 111268-02 – SunOS 5.8_x86: /kernel/fs/specfs patch
- 111270-03 – SunOS 5.8_x86: Solaris Management Console patch
  - 111276-01 – SunOS 5.8_x86: New features Solaris 8 Update 5 European
- 111294-03 – SunOS 5.8_x86: /usr/lib/libdevinfo.so.1 patch
- 111296-01 – SunOS 5.8_x86: /usr/bin/i86/pstack patch
- 111298-01 – SunOS 5.8_x86: /usr/lib/libsendfile.so.1 patch
- 111300-02 – SunOS 5.8_x86: PPP patch
- 111303-01 – SunOS 5.8_x86: EDHCP libraries patch
- 111305-01 – SunOS 5.8_x86: /kernel/misc/nfs_dlbboot patch
- 111307-02 – SunOS 5.8_x86: boot.bin, bootconf.exe, bootenv.rc and nbp patch
- 111309-01 – SunOS 5.8_x86: /usr/lib/libmmtmalloc.so.1 patch
- 111311-01 – SunOS 5.8_x86: /usr/lib/libdhcpagent.so.1 patch
- 111314-01 – SunOS 5.8_x86: Viper tools are very slow to load
- 111318-02 – SunOS 5.8_x86: /sbin/init and /usr/sbin/init patch
- 111320-01 – SunOS 5.8_x86: /usr/sbin/in.rdisc patch
- 111322-01 – SunOS 5.8_x86: /kernel/misc/klmops patch
- 111324-01 – SunOS 5.8_x86: /usr/xpg4/bin/more patch
- 111326-01 – SunOS 5.8_x86: /usr/lib/saf/ttymon patch
- 111328-02 – SunOS 5.8_x86: libsocket patch
- 111334-01 – SunOS 5.8_x86: /kernel/drv/adp patch
- 111369-01 – SunOS 5.8_x86: /usr/bin/groups patch
- 111379-01 – SunOS 5.8_x86: /kernel/drv/chs patch
- 111381-01 – SunOS 5.8_x86: Solaris Registration Japanese message patch
- 111387-01 – SunOS 5.8_x86: s28u6 Euro bug fixing
- 111394-02 – SunOS 5.8_x86: /usr/lib/autofs/automountd patch
- 111399-01 – SunOS 5.8_x86: parse_dynamic_clustertoc needs to use dynamic_tests
- 111401-01 – SunOS 5.8_x86: KCMS configure tool has a security vulnerability
- 111432-01 – SunOS 5.8_x86: /usr/lib/libldap.so.4 patch
- 111440-01 – SunOS 5.8_x86: /kernel/fs/tmpfs patch
- 111472-02 – SunOS 5.8_x86: mp print filter patch
  4413076 4426344 4428395
- 111482-01 – OpenWindows 3.6.2_x86: clock Patch
  4443940
- 111494-03 – SunOS 5.8_x86: SPECIAL PATCH
  4299534 4335834 4328476 4346837 4446198 4465102
- 111496-02 – SunOS 5.8_x86: SPECIAL PATCH
  4299534 4328476 4346837 4446198
- 111505-01 – SunOS 5.8_x86: /usr/bin/tip patch
  4330475 4430971
- 111517-01 – SunOS 5.8_x86: /kernel/drv/cpqhpc patch
  4399186
- 111549-01 – SunOS 5.8_x86: catman, man, whatis, apropos and makewhatis patch
  4392144 4434978
- 111563-01 – SunOS 5.8_x86: /usr/lib/lib.so.1 patch
  4285279
- 111571-01 – SunOS 5.8_x86: uucp patch
  4416701
- 111589-01 – SunOS 5.8_x86: /kernel/drv/wc patch
  4013043
- 111597-02 – SunOS 5.8_x86: /usr/lib/netsvc/yp/rpc.yppasswdd patch
  4392250 4456605 4466065
- 111607-01 – SunOS 5.8_x86: /usr/sbin/in.ftpd patch
  4343874 4434978 4445755 4446600 4451524 4452705
- 111625-01 – SunOS 5.8_x86: /usr/sbin/inetd patch
  4458476
- 111627-01 – OpenWindows 3.6.2_x86: Xview Patch
  4412707 4284795 4392250
- 111660-02 – SunOS 5.8_x86: passwd and pam_unix.so.1 patch
  4467367
- 111662-01 – SunOS 5.8_x86: SPECIAL PATCH
  4392250
- 111761-02 – SunOS 5.8_x86: SPECIAL PATCH
- 111776-01 – SunOS 5.8_x86: smdiskless patch
- 111778-01 – SunOS 5.8_x86: smosservice patch
- 111795-01 – SunOS 5.8_x86: /usr/lib/libcpc.so.1 patch
- 111797-02 – SunOS 5.8_x86: Remote Shared Memory patch
- 111801-01 – SunOS 5.8_x86: /usr/include/sys/mhd.h patch
- 111803-01 – SunOS 5.8_x86: /usr/lib/rcm/modules/SUNW_cluster_rcm.so patch
- 111805-02 – SunOS 5.8_x86: /usr/sbin/rem_drv patch
- 111809-01 – SunOS 5.8_x86: /usr/lib/adb/devinfo patch
- 111824-01 – SunOS 5.8_x86: New features
- 111832-01 – SunOS 5.8_x86: /usr/kernel/drv/dump patch
- 111882-01 – SunOS 5.8_x86: /usr/kernel/strmod/telmod patch
- 111990-01 – SunOS 5.8_x86: /usr/bin/egrep patch
- 112085-01 – SunOS 5.8_x86: regression:sdthanja displays garbages using libXm.so.4