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A Patch List

Patch List 69
Preface

The *Solaris™ 8 (Intel Platform Edition) 2/02 Release Notes* contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 2/02 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, Pentium III Xeon, and Pentium 4 processors and compatible microprocessor chips made by AMD.

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 8 2/02 operating environment.

The Solaris 8 2/02 release notes are available:

- In the Solaris 8 2/02 Release Documents Collection on the Solaris 8 2/02 Documentation CD
- In print with the product (installation issues and bugs only)
- On http://docs.sun.com (the most up-to-date information)
Related Books

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

- Solaris 8 Start Here
- Solaris 8 2/02 What’s New Supplement
- Solaris 8 Advanced Installation Guide
- Solaris 8 System Administration Supplement
- Solaris 8 (Intel Platform Edition) 2/02 Hardware Compatibility List

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

Solaris documentation is available on the Solaris 8 2/02 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.

Accessing Sun Documentation Online

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

Typographic Conventions

The following table describes the typographic changes used in this book.
TABLE P–1 Typographic Conventions

<table>
<thead>
<tr>
<th>Typeface or Symbol</th>
<th>Meaning</th>
<th>Example</th>
</tr>
</thead>
</table>
| AaBbCc123          | The names of commands, files, and directories; on-screen computer output | Edit your .login file.  
Use ls -a to list all files.  
machine_name% you have mail. |
| AaBbCc123          | What you type, contrasted with on-screen computer output | machine_name% su  
Password: |
| AaBbCc123          | Command-line placeholder: replace with a real name or value | To delete a file, type rm filename. |
| AaBbCc123          | Book titles, new words, or terms, or words to be emphasized. | Read Chapter 6 in User’s Guide.  
These are called class options.  
You must be root to do this. |

Shell Prompts in Command Examples

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

TABLE P–2 Shell Prompts

<table>
<thead>
<tr>
<th>Shell</th>
<th>Prompt</th>
</tr>
</thead>
<tbody>
<tr>
<td>C shell prompt</td>
<td>machine_name%</td>
</tr>
<tr>
<td>C shell superuser prompt</td>
<td>machine_name#</td>
</tr>
<tr>
<td>Bourne shell and Korn shell prompt</td>
<td>$</td>
</tr>
<tr>
<td>Bourne shell and Korn shell superuser prompt</td>
<td>#</td>
</tr>
</tbody>
</table>
CHAPTER 1

Installation Issues

This chapter describes problems that relate to the installation of the Solaris 8 2/02 operating environment.

The following installation bug descriptions have been added to this chapter since this document was published on the Solaris 8 2/02 Documentation CD and in the Installation Kiosk on the Solaris 8 2/02 Installation CD.

- “Cannot Access Data on Solaris 8 2/02 DVD in Solaris 2.6 and Solaris 7 Operating Environment (4511090)” on page 14
- “Initial Install Might Not Be Possible If Swap Slice Does Not Start At The First Usable Cylinder (4508297)” on page 16
- “Default Install Might Be Disabled If Swap Slice Is Not on The Default Boot Disk (4527984)” on page 17
- “Solaris 8 Software 2 of 2 Installation Program Does Not Automatically Start When Using Custom JumpStart or re-preinstall (4556860)” on page 24
- “Solaris Web Start Installation Kiosk Menu Not Localized for European Locales (4510925)” on page 33

Note – The name of this product is Solaris 8 2/02, 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.
**Issues You Need to Know About Before Installing Solaris 8 Software from DVD**

**Cannot Access Data on Solaris 8 2/02 DVD in Solaris 2.6 and Solaris 7 Operating Environment (4511090)**

If your system is running the Solaris 2.6 or Solaris 7 operating environment, Volume Management incorrectly mounts the Solaris 8 2/02 DVD. The Solaris 8 2/02 DVD will mount, but the data is inaccessible. As a result, you cannot setup an install server, perform a Live Upgrade, or access any data on the media.

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

- Apply the patches appropriate for your system.

**TABLE 1-1 DVD patches for the Solaris 2.6 and Solaris 7 Operating Environments**

<table>
<thead>
<tr>
<th>Release</th>
<th>Patch ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solaris 2.6 operating environment</td>
<td>107619-03</td>
</tr>
<tr>
<td>Solaris 2.7 operating environment</td>
<td>107260-03</td>
</tr>
</tbody>
</table>

- Manually mount the Solaris 8 2/02 DVD. Do not use Volume Management to mount the Solaris 8 2/02 DVD. Follow these steps.
  1. Become superuser.
  2. Stop Volume Management.
     
     # /etc/init.d/volmgt stop
  3. Manually mount the DVD.
     
     # mkdir /mnt1
     # mount -F hsfs -o ro /dev/dsk/c0t6d0s0 /mnt1
  4. Verify that the DVD is mounted and the data is accessible.
     
     # cd /mnt1
     # ls

     The system returns the following information if the DVD is correctly mounted.

Copyright Solaris 8
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 27.
Solaris Web Start 3.0 Bugs You Need to Know About Before Using the Solaris 8 Installation CD

Initial Install Might Not Be Possible If Swap Slice Does Not Start At The First Usable Cylinder (4508297)

When you install from the Solaris 8 Installation CD, the Solaris Web Start installation program might prompt you to use an existing swap slice to hold the installation software. However, the installation program does not indicate whether the existing swap slice starts at the first usable cylinder or not. If you choose to use this slice and it does not begin at the first usable cylinder, installation might not be possible on some disk configurations.

Workaround: If you intend to perform an initial install, follow these steps.

Note – This will prevent any file system preservations on the disk.

1. During setup, answer No to all questions that prompt you to use an existing swap slice.
2. If prompted, select None from the list of alternatives, then answer No when you are prompted to re-select a slice to hold the Solaris installation software.
3. Select a disk to re-partition when you are prompted by the installer.
4. Choose a size when you are prompted to provide a size for the swap slice.
5. When the installer asks if the swap slice can start at the beginning of the disk, answer Yes.
6. Complete the installation.

For more information on re-partitioning disks or choosing a size for the swap slice, see the Solaris 8 Advanced Installation Guide.
Default Install Might Be Disabled If Swap Slice Is Not on The Default Boot Disk (4527984)

When you install from the Solaris 8 Installation CD and you choose a swap slice that is not on the default boot disk, the Default Install selection might be disabled. This problem can occur even when the swap slice starts at the first usable cylinder and the default boot disk contains sufficient space for a Default Install. The following error message is displayed.

Note: Default install is not possible. The file system requires manual layout.

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

- If you are performing an initial install, choose the default boot disk as the location for the swap slice.
- Perform a Custom Install if your swap slice is not located on the default boot disk.

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 Installation CD to install the Solaris 8 2/02 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 Software 1 of 2 CD to launch an Interactive Installation of the Solaris 8 2/02 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 2/02, 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.
   
   ```
   # 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.

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.

# pkgrm SUNWdclnt
# pkgrm SUNWmgga
# pkgrm SUNWmgapp
# pkgrm SUNWmcdev
# pkgrm SUNWmcex
# pkgrm SUNWwbmc
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmccom
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_202_ia/s0/Solaris_8/Product
   # pkgadd -d SUNWmccom SUNWmc SUNWwbmc SUNWmcex SUNWmcdev SUNWmgap SUNWmgapp SUNWmg SUNWmcint

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. en (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 42.

---

**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 2/02 Installation CD, the following error messages are recorded in the `/var/sadm/system/logs/cd0_install.log` file.

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

These messages indicate that Web Start 3.0 on the Solaris 8 2/02 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 Installation From Solaris 8 1 of 2 CD

Solaris 8 Software 2 of 2 Installation Program Does Not Automatically Start When Using Custom JumpStart or re-preinstall (4556860)

If you install using the custom JumpStart™ program or the re-preinstall command, when the Solaris 8 Software 1 of 2 CD completes, the Solaris 8 Software 2 of 2 CD installation program does not automatically start. The system will reboot normally, but the installation is not complete.

Workaround: If you are performing a custom JumpStart installation, or you are using the re-preinstall command, choose one of the following workarounds.

- Use a combined network image of the Solaris 8 Software CDs to perform the installation.
- After the installation program on the Solaris 8 Software 1 of 2 CD completes, follow these steps.
  1. Login as superuser.
  2. Verify that the file /var/sadm/system/data/packages_to_be_added exists. Type the following command.
     
     ```
     # ls /var/sadm/system/data/
     ```

     - If the file packages_to_be_added is listed in the output of the ls command, go to the next step.
     - If the output of the ls command does not list packages_to_be_added, your installation is complete. Do not continue with the workaround.

  3. Insert the Solaris 8 Software 2 of 2 CD into the CD-ROM drive and type the following commands to start the installation program.

     ```
     # volcheck
     # cd /cdrom/cdrom0/Solaris_8/Tools/Installers
     # ./solaris2
     ```

  4. After the Solaris 8 Software 2 of 2 installation completes, type the following command to determine if /var/sadm/system/data/packages_to_be_added exists.

     ```
     # ls /var/sadm/system/data
     ```

     - If the file packages_to_be_added is listed in the output of the ls command, go to the next step.
If the output of the `ls` command does not list `packages_to_be_added`, your installation is complete. Do not continue with the workaround.

5. Insert the Solaris 8 Languages CD into the CD-ROM drive and type the following commands.

```
# volcheck
# cd /cdrom/cdrom0
# ./installer
```

6. Choose the custom installation path in the Solaris 8 Languages CD installation program.

7. Select the languages that you require for your system and complete the installation.

---

**Note** – If you have more than one CD-ROM drive, the path might be `/cdrom/cdrom#`, where `cdrom#` is the CD-ROM drive into which you inserted the Solaris 8 Software 2 of 2 CD, or the Solaris 8 Languages 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 recom使命 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.

### Live Upgrade Might Not Determine Boot Device (4525464)

If you boot from a Solstice DiskSuite™ or a Solaris™ Volume Manager mirrored root, or a Veritas encapsulated root, the `lucreate` command might be unable to determine the boot device. The following error message is displayed.

WARNING: Unable to determine root device by accessing boot device settings directly.

ERROR: Unable to determine root device for current BE.

ERROR: Unable to determine the physical boot device for the current BE <...>.

Use the `-C` command line option to specify the physical boot device for the current BE <...>.

If you use `lucreate -C` to specify the physical boot device the command fails.

**Workaround:** Manually edit `/usr/sbin/lucreate` to enable Live Upgrade to determine the boot device from a Solstice DiskSuite or a Solaris Volume Manager mirrored root, or a Veritas encapsulated root. Follow these steps.

1. Make a backup copy of `/usr/sbin/lucreate`.
2. Open `/usr/sbin/lucreate` in a text editor.
3. Locate the following line in `/usr/sbin/lucreate`.

```bash
elif [ "${dpbe_pbeBootDev}" -eq "-" ] ; then
```

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4. Change the previous line to the following.
   `elif [ "${dpbe_pbeBootDev}" = ' -' ] ; then`

5. Locate the following line in `/usr/sbin/lucreate`.
   `if [ "${OPTARG}" -ne "-" ] ; then`

6. Change the previous line to the following.
   `if [ "${OPTARG}" != '-' ] ; then`

7. Save the changes to `/usr/sbin/lucreate`.

The `lucreate` command can now determine the boot device and the `-C` option will function correctly.

You can remove the backup copy of `/usr/sbin/lucreate` when the upgrade completes.

---

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

If the `/export` directory is near full capacity and you upgrade to the Solaris 8 2/02 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.

**Workarounds:** 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`

**Workarounds:** 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 2/02 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 2/02 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 2/02 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 2/02 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)
   ```

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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 2/02 operating environment, you must convert the WBEM data. For specific instructions, see “Upgrading the CIM Object Manager Repository” in Solaris WBEM Services Administrator’s Guide.

### Solstice DiskSuite May Cause Data Loss (4121281)

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

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

The DiskSuite Version 4.2 Release Notes describe a procedure for saving metadb configurations, removing metadb replicas, upgrading IA-based systems to the Solaris 7 and 8 operating environments, upgrading Solstice 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.
Doing pkgadd of SUNWweudt to /.
ERROR: attribute verification of 
</a/usr/dt/appconfig/types/ru_RU.KOI8-R/datatypes.dt>
failed pathname does not exist ... 

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

Workaround: Perform the following steps after the upgrade has been completed.
1. To remove the SUNWweudt package, type the following.
   # pkg rm SUNWweudt
2. To add the SUNWweudt package, type the following.
   # pkgadd SUNWweudt

Localization Bugs That Occur During Installation

Solaris Web Start Installation Kiosk Menu Not Localized for European Locales (4510925)
If you use the Solaris 8 2/02 Installation CD to install in a European locale, the Kiosk menu that appears at the end of the installation process displays in the C locale.

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 2/02 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 director,y.
....... 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.
Solaris Runtime Issues

This chapter describes known runtime problems.

**Note** – The name of this product is Solaris 8 2/02, 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 Issues

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.

```
# 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:** Power cycle the USB speakers.

---

Smart Card Bugs

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, 2.5.1, 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 \
-I/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.
     ```shell
     volrmmount -e floppy0
     ```
     In this command, `floppy0` is the floppy disk’s folder in the `/floppy` directory.
  2. Format the floppy disk.
     ```shell
     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.
     ```shell
     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:
       ```shell
       newfs /vol/dev/aliases/floppy0
       ```
     - To create a PCFS file system on the floppy disk, use the `mkfs` command:
       ```shell
       mkfs -F pcfs /vol/dev/aliases/floppy0
       ```
  3. Mount the floppy disk.
     ```shell
     volrmmount -i floppy0
     ```
  - To eject the floppy disk, use the `eject` command.
    ```shell
    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 2/02 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 2/02 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 lowercase, 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 S#FCSreleasenotes.

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
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.

```
# 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/abl_sort.XXX: No such file or directory
```

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

Workaround: Ignore the error message.
Localization Issues

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

Perform the following steps to print from any non-ISO8859-1 locale by using the Font Downloader.
1. Log in to CDE.
2. Type \texttt{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

The Euro Currency Symbol Is Not Adequately Supported in the UTF-8 and Greek Locales (4363812, 4305075)

The euro currency symbol is not generated when you press ALTGr+E in the UTF-8 locales.

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

- Perform the following steps to enter the euro currency symbol in the UTF-8 locales.
  1. Select Lookup in the UTF-8 Input Mode Selection window.
  2. Select Currency Symbols.
  3. Select the Euro symbol.
- Log in to any ISO8859-15 locale and use Alt+E to access the Euro.
Note – In the Greek locale type, `dumpcs` at the console prompt. Then copy and paste the euro currency symbol.

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`, 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:

   ```
   # 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.

   ```
   # 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.

```
# 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>

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.

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

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 2/02 operating environment, refer to the Solaris 8 2/02 Update AnswerBook Collection on http://docs.sun.com.

Update Feature Documentation

Some features in this Update release might not have documentation other than man pages. For additional reference, refer to the Solaris 9 operating environment documentation on http://docs.sun.com.


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

Diskless Client Support

The Solaris 8 2/02 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.
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 nodefaultlib 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-software support statements that apply to the Solaris 8 2/02 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 2/02 includes new commands for diskless client management. See smosservice(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.

- `ioctl` listed in `/usr/include/sys/kd.h`
- `ioctl` 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
- Compaq QVision 2000
Future Releases

This section describes end-of-software 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 kerberos_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(1M) 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 4–1 Device Support and Driver Software**

<table>
<thead>
<tr>
<th>Name of Physical Device</th>
<th>Name of Driver</th>
<th>Type of Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 Smart 16/4 PCI BM Mk1, and Madge Token Ring PCI Presto</td>
<td>mtok</td>
<td>Network</td>
</tr>
<tr>
<td>Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI</td>
<td>cpqncr</td>
<td>SCSI HBA</td>
</tr>
<tr>
<td>Compaq 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.

The following documentation issues have been added to this chapter since this document was published on the Solaris 8 2/02 Documentation CD and in the Installation Kiosk on the Solaris 8 2/02 Installation CD.


Note – The name of this product is Solaris 8 2/02, 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

Document Affected: “Backing Up a UFS Snapshot” in Solaris 8 System Administration Supplement

In the “Backing Up a UFS Snapshot” example, the following mount command is incorrect.

```bash
# mount -F UFS -o ro /dev/fssnap/1 /backups/home.bkup
```

The following is the correct mount command.

```bash
# mount -F ufs -o ro /dev/fssnap/1 /backups/home.bkup
```
Document Affected: “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.

Document Affected: “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.

Document Affected: “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.

Document Affected: “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 login 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 Users’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 adp(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 e. 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.
Patch List

The patches listed in this appendix have been applied to the Solaris 8 2/02 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 2/02 release.

**Note** – The Solaris 8 2/02 operating environment contains special patches which perform tasks specific to the Solaris update release installation images. These patches are specific to each Solaris operating environment update release and do not apply to other systems or releases of the Solaris operating environment.

Do not attempt to download or install these patches on other systems or installations of the Solaris operating environment.

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Patch List

- 108529-13 – SunOS 5.8_x86: kernel update patch
108624-02 – SunOS 5.8_x86: Thai Wordbreak Iterator module

108653-38 – X11 6.4.1_x86: Xsun patch
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I 108694-06 – Solstice DiskSuite 4.2.1_x86: Product patch

4245611 4298103 4286503 4308079 4289828 4285224 4259974 4330572 4319412 4292555 4317655 4317508 4298595 4323134 4429893 4361013 4435615 4452985 4459656 4467367 4469980 4471653 4477775

I 108715-05 – CDE 1.4_x86: libDtWidget patch

4289349 4321189 4360030

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

4126922

I 108726-07 – SunOS 5.8_x86: st driver patch

4180382 4258164 4258222 4270641 4303253 4319238 4335834 4345067 4347749 4363883 4306958 4305501 4304989 4301739 4307230 4307224 4295996 4325454 4313845 4342196 4341374 4359797

I 108728-10 – SunOS 5.8_x86: /kernel/fs/nfs patch

4193748 4249187 4276984 4293528 4331346 4338770 4349744 4356040 4400900 4409175 4414389 4417407 4486764

I 108774-12 – SunOS 5.8_x86: IIIM and X Input & Output Method patch

4295735 4476220 4468502 4476069 4471949 4471415 4470772 4446862 4391411 4387998 4432049 4412147 4413122 4409148 4390729 4397997 4366559 4363883 4306958 4305501 4304989 4301739 4307230 4307224 4295996 4325454 4313845 4342196 4332958 4319874

I 108782-01 – SunOS 5.8_x86: Get UDCTool to work for zh_TW

4307173

I 108809-42 – SunOS 5.8_x86: Manual Page updates for Solaris 8

4519621 4521200 4525583 4427589 4510561 4514879 4515960 4516975 4517064 4518072 4519161 4519205 4459743 4515041 4511500 4393989 4483022 4485770 4505134 4376884 4414943 4420384 4420390 4420392 4420395 4450325 4450583 4459065 4483641 4485999 4486915 4487369 4487420 4487878 4493899 4494194 4494440 4495664 4496138 4496289 4496750 4496768 4496780 4497671 4497679 4499663 4492365 4466685 4180038 4310529 4453863 4462547 4462612 4474863 4476423 4478730 4479549 4482821 4482432 4483454 4178371 4263143 4358775 4385778 4407565 4407638 4408247 4437162 4445986 4469860 4471251 4505953 4290880 4297474 4326141 4372181 4373349 4421784 4428099 4432896 4452067 4452078 4452088 4459127 4463657 4468909 4462048 4436162 4424541 4460110 4461239 4456136 4457397 4449584 4450465 4450204 4434152 4427574 4377133 4480002 4397100 4406751 4417820 4419194 4427238 4317474 4389539 4414537 4401236 4409584 4414442 4401520 4406485 4373372 4396019 4396026 4400590 4419576 4310895 4311279 4311281 4311373 4311374 4312130 4314114 4314390 4317975 4323321 4323334 4325356 4338576 4345255 4345863 4347481 4351085 4352046 4353279 4356775 4358328 4359608 4360350 4360561 4365567 4365858 4367587 4369053 4370646 4372215 4372924 4375651 4375910 4375911 4375914 4376137 4377107 4377109 4377110 4379281 4379596 4379982 4381797 4381815 4383769 4383792
- 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
- 108828-16 – SunOS 5.8_x86: /usr/lib/libthread.so.1 patch
- 108836-02 – CDE 1.4_x86: dtcm patch
- 108870-11 – SunOS 5.8_x86: snmpdx/mibiisa/libssasnmp/snmplib patch
- 108876-10 – 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
- 108920-14 – CDE 1.4_x86: dtlogin patch
- 108922-13 – CDE 1.4_x86: dtwm patch
  4306589 4311842 4301522 4299651 4300013 4261430 4311753 4330496 4335592 4335971 4332153
  4293551 4383544 4392829 4395985 4403931 4468742
- 108924-01 – CDE 1.4_x86: dtwm patch
  4261430 4310640 4311753
- 108934-01 – SunOS 5.8_x86: bugfix for European locales, dtmail, dtcalc, SmartCard
  4308864 4304021 4301544
- 108941-37 – Motif 1.2.7_x86 and 2.1.1_x86: Runtime library patch for Solaris 8_x86
  4299216 4318757 4394643 4320106 4322319 4320106 4322319 4321726 4321727 4327272 4327592 4336559
  4327637 4322728 4342603 4343099 4350517 4334155 4367450 4362266 4350828 4383575 4393364
  4400646 4406624 4386891 4412362 4340913 4317815 4414939 4424753 4449086 4441305 4449359
  4437565 4454476 4451291 4350517 4497373 4496686
- 108950-07 – CDE 1.4_x86: litDtHelp/libDtSvc patch
  4298416 4307660 4345282 1191725 4389935 4402567 4527363
- 108955-01 – SunOS 5.8_x86: localisation updates for different components
- 108957-01 – SunOS 5.8_x86: htt_server dumps core on SCH’s cm.so in utf-8 locales
  4314242
- 108963-01 – SunOS 5.8_x86: XmlReader fails on an HTTP stream
  4314140
- 108965-06 – SunOS 5.8_x86: /usr/sbin/snoop patch
  1110881 4218869 4247106 4297326 4297676 4304083 4313760 4315280 4317713 4321696 4321713
  4321720 4321721 4321723 4321725 4321726 4322042 4322055 4322058 4322060 4322064 4322200
  4322670 4328476 4419454
- 108969-05 – SunOS 5.8_x86: vol/vold/rmmount patch
  1206000 4108297 4145529 4205437 4211612 4254816 4255049 4285374 4286446 4292408 4292563
  4296452 4298451 4298465 4298563 4298567 4303430 4304283 4304289 4305067 4306425 4307495
  4307500 4307620 4307634 4312778 4313091 4314778 4355643 4365412 4392241
- 108971-01 – SunOS 5.8_x86: /usr/lib/fs/pcfs/fsck and /usr/lib/fs/pcfs/mkfs patch
  4145536 4210625 4250242 4256652
- 108973-04 – SunOS 5.8_x86: /sbin/fdisk patch
  4221693 4304790 4347145
- 108976-05 – SunOS 5.8_x86: /usr/bin/rmformat and /usr/sbin/format patch
  4242879 4292212 4304790 4308431 4311553 4322206 4328893 4397736
- 108978-01 – SunOS 5.8_x86: libsmedia patch
  4292214 4308431 4311553
- 108986-03 – SunOS 5.8_x86: /usr/sbin/in.rshd patch
  4158689 4305888 4324375 4335632
- 108988-07 – SunOS 5.8_x86: Patch for patchadd and patchrm
  4115232 4278860 4292990 4304640 4311375 4319990 4330590 4350280 4351626
  4356028 4379881 4384137 4388023 4399797 4414772 4419254 4421583 4458302 4480489 4495315
- 108990-02 – SunOS 5.8_x86: acctctl & exacctsys patch
  4305365 4312278 4313746 4313747 4314201
- 108994-05 – SunOS 5.8_x86: nss and ldap patch
  1257084 4310379 4312278 4351510 4353601 4357778 4359656 4409411 4415143 4425163
  4429802 4449613 4480119
- 108996-03 – SunOS 5.8_x86: /usr/lib/libproc.so.1 patch
  4312278 4400361 4425392
- 108998-03 – SunOS 5.8_x86: libexact and libproject patch
  4305365 4312278 4313746 4313747 4314201
  109000-01 – SunOS 5.8_x86: PAM patch
  4312278
  109004-01 – SunOS 5.8_x86: /etc/init.d/acctadm and /usr/sbin/acctadm patch
  4312278
  109006-03 – SunOS 5.8_x86: /sbin/su.static and /usr/bin/su patch
  4312278 4331401 4374692
  109008-06 – SunOS 5.8_x86: at/atrm/batch/cron patch
  4261967 4304184 4312278 4368876 4379735 4387131
  109010-02 – SunOS 5.8_x86: /etc/magic and /usr/bin/file patch
  4047399 4312278
  109012-01 – SunOS 5.8_x86: /usr/bin/id and /usr/xpg4/bin/id patch
  4312278
  109014-02 – SunOS 5.8_x86: /usr/bin/lastcomm patch
  4305365 4312278 4313746 4313747 4314201
  109016-01 – SunOS 5.8_x86: /usr/bin/newtask patch
  4312278
  109018-01 – SunOS 5.8_x86: /usr/bin/pgrep and /usr/bin/pkill patch
  4312278
  109020-02 – SunOS 5.8_x86: /usr/bin/priocntl patch
  4312278 4409616
109022-01 – SunOS 5.8_x86: /usr/bin/ projects patch

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

109026-05 – SunOS 5.8_x86: /usr/bin/i86/truss patch

109028-01 – SunOS 5.8_x86: /usr/bin/wract 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

109039-02 – SunOS 5.8_x86: sonode adb macro patch

109042-02 – SunOS 5.8_x86: /usr/sbin/i86/crash patch

109046-03 – SunOS 5.8_x86: /usr/sbin/i86/crash patch

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

109071-06 – SunOS 5.8_x86: fix WBEM improper Japanese messages and update

109073-06 – CDE 1.4_x86: (Japanese) New Feature patch

109078-06 – 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/ufs/ufsrestore patch
- 109095-01 – SunOS 5.8_x86: localisation updates for different components
- 109119-11 – SunOS 5.8_x86: JFP message files patch
- 109129-01 – SunOS 5.8_x86: Provide conversion between codepages 1256 and ISO8859-6

- 109132-09 – SunOS 5.8_x86: JFP manpages patch
- 109135-26 – SunOS 5.8_x86: WBEM patch

- 109143-07 – CDE 1.4_x86: dtterm libDtTerm patch
- 109146-01 – SunOS 5.8_x86: /usr/sbin/in.routed patch

- 109148-12 – SunOS 5.8_x86: linker patch
- 109150-02 – SunOS 5.8_x86: /usr/sbin/mkdevmaps and /usr/sbin/mkdevalloc patch
  1229659 4284187 4316613
- 109155-01 – SunOS 5.8_x86: vgatext and terminal-emulator patch
  4307285
- 109158-20 – SunOS 5.8_x86: messages updates for Asian ko/zh/zh_TW locales
  4310521 4456703 4471992 4494563 4432830 4329574 4330139 4331912
  4332965 4333117 4333730 4334002 4337487 4337974 4338375 4338505
  4341638 4343790 4345089 4350770 4351383 4377372 4384713
- 109160-01 – SunOS 5.8_x86: the mapping of zh_CN.euc%UTF-8 is consistent
  4334099 4337362
- 109166-11 – CDE 1.4_x86: dfile patch
  4257760 4256612 4256616 4256617 4259735 42599270 4287012
  4292249 4303367 43001051 43002740
- 109168-01 – CDE 1.4_x86: Desktop Help Updates Patch
  4307183 4319636
- 109170-12 – CDE 1.4_x86: Window Manager Enhancements Patch
  4301525 4301229 4303415 4304468 4308078 4310419 4311506
  4312315 4311916 4312250 4311192 4312375
  4305293 4316508 4299329 4293127 4327962 4327961 4327961
  4327961 4327961 4327961 4327961 4327961
- 109180-03 – SunOS 5.8_x86: localisation updates for Removable Media
  4313061 4329376 4333754 4329372
- 109190-04 – SunOS 5.8_x86: Extra Catalan Support required
  4305956 4328876 4337258
- 109191-03 – SunOS 5.8_x86: ru.RU.KOI8-R Cannot cut/paste cyrillic between dtapps
  4325497 4328876 4359095
- 109192-02 – SunOS 5.8_x86: Cut/Paste not functioning in ru_RU.KOI8-R
  4307614 4328876
- 109193-02 – SunOS 5.8_x86: Polish UTF-8 Support Solaris 8
  4325497 4328876
- 109201-03 – SunOS 5.8_x86: l10n updates: Removable Media, Window Mgr & Pam Proj.

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

- 109235-09 – SunOS 5.8_x86: Apache/mod_jserv patch

- 109239-02 – 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

- 109278-02 – SunOS 5.8_x86: /usr/bin/iostat patch

- 109319-27 – SunOS 5.8_x86: suninstall patch

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

- 109325-04 – SunOS 5.8_x86: sh/jsh/rsh/pfsh patch

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

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

- 109355-12 – CDE 1.4_x86: dtsession patch
- 109385-02 – SunOS 5.8_x86: libaio patch

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

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

- 109442-04 – SunOS 5.8_x86: sdtudctool patch

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

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

- 109459-02 – SunOS 5.8_x86: /kernel/strmod/ldterm patch

- 109471-02 – CDE 1.4_x86: Actions Patch

- 109538-01 – SunOS 5.8_x86: Unlocalised buttons on user-interface of dhcpmgr

- 109553-01 – SunOS 5.8_x86: FIGSS-UTF8, Removable media manager unlocalised

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

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

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

- 109583-02 – CDE 1.4_x86: sdtaudio patch

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

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

- 109614-03 – CDE 1.4_x86: dtmail patch

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

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

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

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

- 109644-07 – SunOS 5.8_x86: /kernel/drv/sd patch

- 109668-04 – SunOS 5.8_x86: /usr/lib/inet/xntpd and /usr/sbin/ntpdate 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

- 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 (japanese)_x86: update for power mgt util for s28u2

- 109765-04 – 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

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

- 109798-02 – SunOS 5.8_x86: ata and dpt driver patch

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

- 109806-04 – SunOS 5.8_x86: /usr/lib/security/pam_krb5.so.1 patch

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

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

- 109863-01 – X11 6.4.1_x86: Font Server patch

- 109866-03 – SunOS 5.8_x86: elxl patch

- 109869-05 – SunOS 5.8_x86: WOS Help File Update

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

- 109884-02 – SunOS 5.8_x86: /usr/include/sys/ecppsys.h patch
109891-01 – SunOS 5.8_x86: pmserver.jar patch

109895-01 – SunOS 5.8_x86: lp driver patch

109897-08 – SunOS 5.8_x86: USB Audio patch

109899-05 – SunOS 5.8_x86: /kernel/driv/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


109921-06 – SunOS 5.8_x86: pcic driver patch

109923-02 – SunOS 5.8_x86: pclex, pcsr 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

109961-01 – CDE 1.4_x86: sdtperfmeter patch

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

110020-06 – 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
- 110270-01 – SunOS 5.8_x86: /usr/lib/libnisdb.so.2 patch
  4318294
- 110273-03 – SunOS 5.8_x86: Figgs Custom install new features and install help
  4367029
- 110284-05 – SunOS 5.8_x86: mkfs and newfs patch
  4297460 4333516 4339330 4344221 4374181 4380132 4425003 4476995
- 110287-05 – OpenWindows 3.6.2_x86: Tooltalk patch
  4334998 4379430 4363822 4417781 4499995 4518469
- 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 4382452 4392829 4390631
- 110336-02 – CDE 1.4_x86: dtprintinfo patch
  4325603 4380805
- 110365-02 – SunOS 5.8_x86: Add L10N dttypesbinder files
  4366984 4383627
- 110396-06 – SunOS 5.8_x86: udp ip mipagent
  4278842 4302749 4310956 4313189 4317221 4320818 4324051 4335568 4360818 4370123 4370438 4375915 4375920 4376886 4377368 4377693 4377694 4378163 4378727 4379361 4382946 4382996
- 110399-03 – SunOS 5.8_x86: RCM libnvpair serengeti sysevent
  4233832 4326110 4336779 4357245 4375059 4375416 4386544
- 110400-01 – SunOS 5.8_x86:
  4311781 4313955
- 110401-01 – SunOS 5.8_x86:
  4311781 4313955
- 110402-03 – SunOS 5.8_x86: ufsdump patch
  4132365 4296770 4339366 4358666
- 110403-03 – SunOS 5.8_x86: ufssnapshots support, libadm patch
- 110404-01 – SunOS 5.8_x86: file systems should support snapshots for online backups

- 110405-01 – SunOS 5.8_x86: file systems should support snapshots for online backups

- 110408-02 – CDE 1.4_x86: Sdttypes patch

- 110417-03 – SunOS 5.8_x86: ATOK12 patch

- 110424-03 – SunOS 5.8_x86: Japanese font patch

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

- 110454-03 – SunOS 5.8_x86: admintool patch

- 110459-02 – SunOS 5.8_x86: libcurses patch

- 110462-01 – SunOS 5.8_x86: ttcompat patch

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

- 110512-03 – SunOS 5.8_x86: rpc.nisd patch

- 110604-01 – CDE 1.4_x86: sdtname patch

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

- 110610-02 – SunOS 5.8_x86: cdio.h and commands.h USB patch

- 110612-01 – SunOS 5.8_x86: lp.cat postio

- 110616-03 – SunOS 5.8_x86: sendmail patch
110663-06 – 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

110672-02 – SunOS 5.8_x86: /kernel/misc/gld patch

110701-01 – SunOS 5.8_x86: automount patch

110703-01 – SunOS 5.8_x86: mknetid patch

110711-01 – SunOS 5.8_x86: nscd 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
110818-01 – SunOS 5.8_x86: apptrace and interceptors patch
110855-03 – SunOS 5.8_x86: /usr/lib/rcm/modules/SUNW_ip_rcm.so patch
110865-01 – SunOS 5.8_x86: Need to back port fixes for SUNW_PKGLIST
110886-01 – SunOS 5.8_x86: JFP Solaris Product Registry 3.0 patch
110889-01 – SunOS 5.8_x86: s28u4_06,figgs,New and updated message strings
110897-01 – SunOS 5.8_x86: /usr/lib/fs/cachefs/mount patch
110899-03 – SunOS 5.8_x86: csh/pfcsh patch
110902-01 – SunOS 5.8_x86: /kernel/drv/sgen patch
110904-02 – SunOS 5.8_x86: edit, ex, vedit, vi and view patch
110906-02 – SunOS 5.8_x86: /usr/bin/find patch
110908-01 – SunOS 5.8_x86: /usr/include/arpa/inet.h patch
110911-01 – SunOS 5.8_x86: /usr/lib/fs/ufs/fsck patch
110913-03 – SunOS 5.8_x86: cfgadm patch
- 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

- 110919-03 – SunOS 5.8_x86: /kernel/drv/openepr 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

- 110942-02 – SunOS 5.8_x86: sar and sadc patch
  4026830 4472070

- 110944-01 – SunOS 5.8_x86: /usr/bin/tcsh patch
  4384076

- 110946-04 – SunOS 5.8_x86: /usr/sbin/syslogd patch
  4309712 4323101 4336917 4337337 4345133 4345785 4351901 4357732 4374785 4385688 4386798
  4408797 4413974 4416744 4429942 4463575 4476741 4477565

- 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/llc2 patch
  4375878 4400795

- 110956-02 – SunOS 5.8_x86: /kernel/strmod/timod patch
  4380632 4453050

- 110958-02 – SunOS 5.8_x86: /usr/bin/mailx patch
  4350331 4452732

- 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

- 111009-06 – SunOS 5.8_x86: Update Asia SUNWreg to sync with base changes for
  S8UR5
  4410946 4414341 4462592 4518303

- 111015-02 – SunOS 5.8_x86: /platform/i86pc/kernel/drv/sbpro patch
- 111017-01 – SunOS 5.8_x86: /usr/bin/sdiff patch
- 111024-01 – SunOS 5.8_x86: /kernel/fs/mntfs 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
- 111086-02 – SunOS 5.8_x86: /usr/bin/login 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
- 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
- 111226-02 – 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
  4374045
- 111266-01 – SunOS 5.8_x86: patch who
  4384285
- 111268-02 – SunOS 5.8_x86: /kernel/fs/specfs patch
- 111270-03 – SunOS 5.8_x86: Solaris Management Console patch
  4354567 4394572 4457451
- 111276-01 – SunOS 5.8_x86: New features Solaris 8 Update 5 European
  4437042
- 111294-03 – SunOS 5.8_x86: /usr/lib/libdevinfo.so.1 patch
  4226932 4423315 4461872
- 111296-01 – SunOS 5.8_x86: /usr/bin/i86/pstack patch
  4393386 4399452 4400361
- 111298-01 – SunOS 5.8_x86: /usr/lib/libsendfile.so.1 patch
  4400361
- 111300-03 – SunOS 5.8_x86: PPP patch
  1264523 4098801 4328476 4410142 4419454 4421547 4421549 4452726 4516011 4517632
- 111303-01 – SunOS 5.8_x86: EDHCP libraries patch
  4247106 4404390 4406599
- 111305-01 – SunOS 5.8_x86: /kernel/misc/nfs_dlboot patch
  4247106
- 111307-03 – SunOS 5.8_x86: boot.bin, bootconf.exe, bootenv.rc and nbp patch
  4247106 4300016 4304836 4319500 4321845 4323711 4343780 4344312 4354815 4355798 4401827 4402048 4415432
- 111309-01 – SunOS 5.8_x86: /usr/lib/libmtmalloc.so.1 patch
  4247106
- 111311-01 – SunOS 5.8_x86: /usr/lib/libdhcppagent.so.1 patch
  4247106
- 111314-01 – SunOS 5.8_x86: Viper tools are very slow to load
  4415738
- 111318-02 – SunOS 5.8_x86: /sbin/init and /usr/sbin/init patch
  4350392 4461715
- 111320-01 – SunOS 5.8_x86: /usr/sbin/in.rdisc patch

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- 111322-02 – SunOS 5.8_x86: klmmod and klmops patch
- 111324-01 – SunOS 5.8_x86: /usr/xpg4/bin/more patch
- 111326-01 – SunOS 5.8_x86: /usr/lib/saf/ttymon patch
- 111328-04 – 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 – solregis_x86: Japanese message patch
- 111387-01 – SunOS 5.8_x86: s28u6 Euro bug fixing
- 111394-02 – SunOS 5.8_x86: /usr/lib/autos/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
- 111472-03 – SunOS 5.8_x86: mp print filter patch
- 111482-01 – OpenWindows 3.6.2_x86: clock Patch
- 111505-01 – SunOS 5.8_x86: /usr/bin/tip patch
- 111517-01 – SunOS 5.8_x86: /kernel/drv/cpqhpc patch
- 111549-01 – SunOS 5.8_x86: catman, man, whatis, apropos and makewhatis patch
- 111563-01 – SunOS 5.8_x86: /usr/lib/librt.so.1 patch
- 111571-01 – SunOS 5.8_x86: uucp patch
- 111589-01 – SunOS 5.8_x86: /kernel/drv/wc patch
- 111597-02 – SunOS 5.8_x86: /usr/lib/netsvc/yp/rpc.yppasswdd patch
- 111607-02 – SunOS 5.8_x86: /usr/sbin/in.ftpd patch
- 111625-01 – SunOS 5.8_x86: /usr/sbin/inetd patch
- 111627-01 – OpenWindows 3.6.2_x86: Xview Patch
- 111660-03 – SunOS 5.8_x86: passwd and pam_unix.so.1 patch
- 111662-01 – SunOS 5.8_x86: SPECIAL PATCH: script patch (SU6)
- 111742-02 – X11 6.4.1_x86: hwc patch
- 111761-02 – SunOS 5.8_x86: SPECIAL PATCH: procedural scripts (SU5)
- 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
- 111797-03 – 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
- 111845-02 – X11 6.4.1_x86: xdm patch
- 111875-02 – SunOS 5.8_x86: usr/bin/mail patch
- 111882-01 – SunOS 5.8_x86: /usr/kernel/strmod/telmod patch
- 111954-04 – SunOS 5.8_x86: zh_CN.GB18030 locale support (part 1)
- 111959-01 – SunOS 5.8_x86: /usr/lib/nfs/statd patch
- 112000-01 – SunOS 5.8: SPECIAL PATCH: editable file replacements (SU7)
- 112002-01 – SunOS 5.8_x86: SPECIAL PATCH: replacement CASs (SU7)
- 112033-02 – SunOS 5.8_x86: New locale zh_CN.GB18030 support (Apply with 111954-xx)
- 112040-01 – SunOS 5.8_x86: usr/bin/ckitem patch
- 112051-01 – SunOS 5.8_x86: ptree patch
- 112058-01 – SunOS 5.8_x86: Asian mailx and in.comsat update
- 112078-02 – SunOS 5.8_x86: usr/kernel/drv/rsm patch
- 112083-03 – SunOS 5.8_x86: Webstart install patch for ja_JP.PCK and ja_JP.UTF-8
- 112085-01 – SunOS 5.8_x86: regression:sdthanja displays garbages using libXm.so.4
- 112098-01 – SunOS 5.8_x86:: /usr/bin/cpio patch
- 112136-01 – SunOS 5.8_x86:: Fix for bugid 409329 lost in 64-bit port
- 112139-01 – SunOS 5.8_x86:: usr/bin/domainname patch
- 112143-01 – Configuration file fix for Solaris 8_x86
- 112145-01 – SunOS 5.8_x86: Packaging error in European Solaris Product Registry
- 112166-01 – SunOS 5.8_x86:: /usr/bin/rpcgen patch
- 112184-03 – SunOS 5.8_x86:translations for s28u7_07
- 112185-01 – SunOS 5.8_x86::
- 112188-01 – SunOS 5.8_x86::
- 112219-01 – SunOS 5.8_x86:: pam_ldap.so.1 patch