Solaris 8 (SPARC Platform Edition) 6/00 Release Notes Update

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Preface

The *Solaris*™ *8 (SPARC*™ *Platform Edition) 6/00 Release Notes Update* contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 6/00 operating environment.

Note - The information in this document pertains to the SPARC platform. It also pertains to both the 64–bit and 32–bit address spaces unless called out in a special chapter, section, note, bullet, figure, table, example, or code example.

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 8 6/00 operating environment.

Related Books

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

- *Solaris 8 Start Here*
- *Solaris 8 (SPARC Platform Edition) Installation Guide*
- *Solaris 8 Advanced Installation Guide*
- *Solaris 8 Installation Supplement*
- The Solaris 8 6/00 release notes are available:

- In the Solaris 8 6/00 Release Documents Collection on the Solaris 8 6/00 Documentation CD
- In print with the product (installation issues and bugs only)
- On `http://docs.sun.com` (the most up-to-date information)

- *Solaris 8 System Administration Supplement*

Solaris documentation is available on the Solaris 8 6/00 Documentation CD included with this product.

For some hardware configurations, you may need supplemental hardware-specific instructions for installing the Solaris operating environment. If your system requires hardware-specific actions at certain points, the manufacturer of your hardware has provided supplemental Solaris installation documentation. Refer to those materials for hardware-specific installation instructions.

Ordering Sun Documents

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

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

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Installation Issues

This chapter describes problems relating to the installation of the Solaris 8 6/00 operating environment.

The following installation-related issues and bug descriptions have been added in this chapter since this document was published on the Solaris 8 6/00 Documentation CD and in the Installation Kiosk on the Solaris 8 6/00 Installation CD. A revised version of this chapter was published in the printed *Solaris 8 (SPARC Platform Edition) 6/00 Installation Release Notes.*

■ "Do Not Use a UTF-8 Locale When Installing the Solaris 8 or Solaris 8 6/00 Operating Environment" on page 14

■ Bug ID 4302896

■ Bug ID 4323398

■ Bug ID 4333007

Note - The name of this product is Solaris 8 6/00, but code and path or package path names may use Solaris 2.8 or SunOS™ 5.8. Always follow the code or path as it is written.

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

Installation Kiosk Does Not Look Up DNS Correctly (4318101)

If you use the Solaris 8 Installation CD to install the Solaris 8 6/00 operating environment, select DNS as the name service, and type a host name as the proxy, the installation kiosk does not look up DNS correctly, and the attempt to establish a network connection fails. The following message is displayed.

```
Connection Failure
```

Workaround: To enable the installation kiosk to resolve the IP address of the proxy server, perform the following steps:

1. Open a terminal window.

2. Start the `nscd` daemon to enable the kiosk to resolve the proxy server IP address.

   ```
   # /usr/sbin/nscd
   ```

For more information on the `nscd` daemon, see the man page `nscd`(1M).

To prevent this problem, type an IP address as the HTTP proxy instead of a host name.

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 6/00 Installation CD to install the Solaris 8 6/00 operating environment on a gateway system, Solaris Web Start 3.0 uses the primary interface to gather system information. You cannot instruct Solaris Web Start 3.0 to use an alternate network interface to gather information for system identification.

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

- Create a `sysidcfg` file that specifies the network interface to use during system identification. See "Guidelines for Preconfiguring With the sysidcfg File" in *Solaris 8 Advanced Installation Guide* and the man page `sysidcfg`(4) for information on how to create and modify a `sysidcfg` file.

- Use the Solaris 8 6/00 Software 1 of 2 CD to launch an Interactive Installation of the Solaris 8 6/00 operating environment. Specify that the system is networked, and then select the alternate network interface to use for system identification from the list provided.

Issues You Need to Know About Before Starting an Interactive Installation From the Solaris 8 Software 1 of 2 CD

Locale Installation Mechanism Change

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

Notice especially the following behaviors:

- You must select the locales to be installed during the initial installation in the Geographic Selection screen. `C` (POSIX locale) and `en_US.UTF-8` (Unicode support) are the only locales that are automatically installed.

- When you upgrade from previous releases, some of the locales are automatically selected depending on the available locales on the system to be upgraded. Note that English, French, German, Italian, Spanish, and Swedish partial locales were always present on the system in the Solaris 2.5.1, 2.6, and 7 operating environments.

- Unicode locales (UTF-8) have a feature to enable multilingual text input. Because these locales use Asian input methods that are provided by each individual locale, install those Asian locales for which you need to type text.

Do Not Use a UTF-8 Locale When Installing the Solaris 8 or Solaris 8 6/00 Operating Environment

If you install the Solaris 8 or Solaris 8 6/00 operating environment while using a UTF-8 locale, the UTF-8 locale does not interact properly with Java™ software in the installation process, and the installation may fail.

Workaround: Use the corresponding non-UTF-8 locale to install the Solaris 8 6/00 operating environment. After completing the installation, apply patch 108652-08 to ensure proper interaction between UTF-8 locales and Java software.

Installation Bugs That Occur During an Interactive Installation

Installation Progress Bar May Be Inaccurate (1266156)

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

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

```
Installation complete
```

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

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

```
Warning: inode blocks/cyl group (87) >= data blocks (63) in last
cylinder group. This implies 1008 sector(s) cannot be allocated.
```

or

```
Warning: 1 sector(s) in last cylinder unallocated
```

The warning occurs when the size of the file system being created does not map exactly to the space on the disk being used. This discrepancy can result in unused space on the disk that is not incorporated into the indicated file system. This unused space is not available for use by other file systems.

Workaround: Ignore the warning message.

No Error Occurs If # Is Included in a Path (4294586)

If a # is included in the path of a Java program, the following message is displayed when you execute the program.

```
Exception in thread "main" java.lang.NoClassDefFoundError
Volume Management (vold) sometimes uses a pound sign in a path
when creating directory names:
```

Workaround: Delete the # from the path or do not use any Java installation wizards.

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

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

Workaround: Choose one of the following workarounds:

- If you are installing only the End User software group, you do not need to install the Solaris 8 Software 2 of 2 CD because the End User software and its basic locale support are on the Solaris 8 Software 1 of 2 CD.

- If you are installing the Entire Distribution plus OEM, Entire Distribution, or Developer software, and are using a custom JumpStart installation from a server, use a network install server that contains the Solaris 8 1 of 2, 2 of 2, and Languages CDs. See "Creating a Profile Server" in *Solaris 8 Advanced Installation Guide*.

- If you are installing the Entire Distribution plus OEM, Entire Distribution, or Developer software and are using a custom JumpStart installation from a diskette, follow these steps to install the Solaris 8 Software 2 of 2 and Languages CDs:

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

  2. Log in to the system.

  3. Insert the Solaris 8 Software 2 of 2 CD.

4. Execute the `installer` command and follow the instructions on the screen to install the remaining software.

5. Insert the Solaris 8 Languages CD.

6. Execute the `installer` command and follow the instructions on the screen to install any languages.

Upgrade Issues

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

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

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

■ The number of page reclaims is higher, which you should consider normal operation during heavy file system activity.

■ The amount of free memory is higher because the free memory count now includes a large component of the file system cache.

■ Scan rates are almost zero unless there is a shortage of system-wide available memory. Scanning is no longer used to replace the free list during normal file system I/O.

Installation Bugs That Occur During an Upgrade

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

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

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

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

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

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

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

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

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

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

```
% pkginfo | grep WBEM
```

2. Become superuser.

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

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

`SUNWeeudt` Partially Fails to Install During an Upgrade (4304305)

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

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

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

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

1. Remove the `SUNWeeudt` package by typing:

```
# pkgrm SUNWeeudt
```

2. Add the `SUNWeeudt` package by typing:

```
# pkgadd SUNWeeudt
```

64-bit Packages Are Unnecessarily Installed During Upgrade From Solaris 2.6 or Solaris 7 Operating Environment (4323398)

When you upgrade to the Solaris 8 6/00 operating environment from the Solaris 2.6 or Solaris 7 operating environment and do not select 64-bit support as an upgrade option, the following 64-bit packages are unnecessarily installed:

- SUNWceuox
- SUNWeeoux
- SUNWneoux
- SUNWseoux
- SUNWweoux

Workaround: After you complete the upgrade, remove these 64-bit packages using the pkgrm command:

```
# pkgrm SUNWceuox SUNWeeuox SUNWneuox SUNWseuox SUNWweuox
```

64–Bit Solaris Issues

Sun UltraSPARC System (sun4u) May Need Boot Flash PROM Update

Note - If your system is already running 64-bit ready firmware, then the flash PROM update is not required.

If you want to run the 64-bit Solaris operating environment on an UltraSPARC™ system, you may need to update its flash PROM firmware. The Solaris 8 installation programs have a choice for adding 64-bit support. This 64-bit support is selected by default when you install on Sun UltraSPARC systems. A 64-bit system only boots in the 64-bit mode by default if it has a CPU speed of 200 Mhz or greater.

Note - If you choose to run the 32-bit Solaris operating environment on any Sun™ or UltraSPARC system, the flash PROM update is not needed.

The following table lists the UltraSPARC (`sun4u`) systems that are affected and the minimum firmware versions needed. *System type* is the equivalent of the output of the `uname -i` command. You can tell what firmware version you are running by using the `prtconf -V` command.

TABLE 1–1 Minimum Firmware Versions Required to Run 64–bit Solaris Operating Environment on UltraSPARC Systems

System Type From `uname -i`	Minimum Firmware Version From `prtconf -V`
SUNW,Ultra-1-Engine	3.10.0
SUNW,Ultra-1	3.11.1
SUNW,Ultra-2	3.11.2
SUNW,Ultra-4	3.7.107
SUNW,Ultra-Enterprise	3.2.16

Note - If a system is not listed in the previous table, it does not need a flash PROM update.

For instructions on performing the flash PROM update using the Solaris CD, refer to the *Solaris 8 on Sun Hardware Collection.* If you do not have this manual, you can obtain it at `http://docs.sun.com`.

Localization Bugs

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

After upgrading from the Solaris 7 3/99, 5/99, 8/99 or 11/99 operating environments to the Solaris 8 6/00 operating environment, the following errors may appear in the upgrade logs.

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


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

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

Workaround: Ignore these error messages.

Some Error Messages and Dialog Boxes Are Not Localized and Display Only in English (4283839, 4331185)

French, Italian, German, Spanish, and Swedish locales have some dialog boxes that are not localized, some help file dialog boxes that are not localized, and help files that are not found during an installation.

Installation of European Software (4299758)

If you install a European locale, additional software for windowing, installation, 64-bit support, and fonts are installed on your system. The impact of this bug is negligible because only minimal additional space is needed to support this extra software.

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

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

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

Solaris Web Start 3.0 Does Not Specify CD Titles in French Locale (4333007)

If you use the Solaris 8 6/00 Installation CD to install the Solaris 8 6/00 operating environment while using a French locale, Solaris Web Start 3.0 does not specify the titles of the CDs to use during the installation.

Workaround: To install the Solaris 8 6/00 operating environment, use the Solaris 8 6/00 Installation CD in an English locale.

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

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

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

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

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

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

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

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

Solaris Runtime Issues

This chapter describes known runtime problems. The following runtime bug descriptions have been added to this chapter since this document was published on the Solaris 8 6/00 Documentation CD and in the Installation Kiosk on the Solaris 8 6/00 Installation CD.

- Bug IDs 4107762, 4334815
- Bug ID 4260435
- Bug ID 4312409
- Bug ID 4329368
- Bug ID 4331909
- Bug ID 4332309
- Bug ID 4336922

Note - The name of this product is Solaris 8 6/00, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Common Desktop Environment (CDE) Issues

Compiling Motif Programs on the Solaris 8 Operating Environment

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

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

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

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

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

Common Desktop Environment Bugs

CDE Workspace Manager Fails When Selecting `dtmail` Options Menu Twice in Succession (4336922)

If you select an item from the Options menu in `dtmail`, leave that window open, and then select any item from the `dtmail` Options menu, the CDE Workspace Manager fails.

Workaround: To correct the `dtmail` Options menu behavior, apply patch 109613-01 immediately after you install the Solaris 8 6/00 operating environment.

OpenWindows File Manager Fails to Mount Floppy Disk (4329368)

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

Workaround: Choose one of the following workarounds.

- To view the contents of a floppy disk, follow these steps:

  1. Click on the / folder in the File Manager Iconic Path.
  2. Double-click on the `floppy` folder in the / display window.
  3. Double-click on the `floppy0` folder in the /floppy display window.

- To format a floppy disk, follow these steps:

  1. Unmount the floppy disk.

     ```
     % volrmmount -e floppy0
     ```

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

  2. Format the floppy disk.

     ```
     % fdformat floppy0
     ```

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

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

  1. Unmount the floppy disk.

     ```
     % volrmmount -e floppy0
     ```

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

  2. Create the appropriate file system on the floppy disk.

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

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

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

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

3. Mount the floppy disk.

```
% volrmmount -i floppy0
```

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

```
% eject floppy0
```

To prevent this problem, apply patch 109463-01.

Cannot Open CDE File Manager After Closing Removable Media Manager (4331909)

Problems might occur when CDE File Manager attempts to reuse a cached Removable Media Manager file view. This can happen when you close the Removable Media Manager or when you use the Open New View from the View menu in File Manager.

The problems occur under the following conditions:

- If you open a File Manager view from the CDE Front Panel after opening and closing the Removable Media Manager, File Manager fails and the following error dialog box displays:

```
The request to service this action has failed for the following reason:
  TT_ERR_PROCID The process id passwd is not valid.
```

- If you open a new File Manager view by selecting Open New View from the View menu after opening and closing the Removable Media Manager, File Manager quits immediately.

Workaround: Choose one of the following workarounds:

- If you receive the error message listed previously, follow these steps:

  1. Close the error dialog box.
  2. Click on the File Manager icon in the CDE Front Panel.

     File Manager will open.

- If File Manager fails without displaying the error dialog box, launch File Manager in standalone mode.

```
% dtfile -standalone
```

PDASync Cannot Delete Last Entry From the Desktop (4260435)

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

Workaround: Delete the last entry from the handheld device.

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

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

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

System Administration Bugs

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

The following error message is displayed when memory is low:

```
CIM_ERR_LOW_ON_MEMORY
```

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

Workaround: To reset the CIM Object Manager Repository:

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

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

3. Remove the JavaSpaces log directory.

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

4. Restart the CIM Object Manager.

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

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

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

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

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

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

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

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

Java Runtime Issues

Java Plug-in Support

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

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

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

Java Runtime Bugs

Do Not Use a UTF-8 Locale When Running Java Software in the Solaris 8 or Solaris 8 6/00 Operating Environment (4107762, 4334815)

If you run Java software in a UTF-8 locale of the Solaris 8 or Solaris 8 6/00 operating environment, the Java software may fail.

Workaround: Apply patch 108652-08 to ensure proper interaction between UTF-8 locales and Java software.

libjvm.so Does Not Function Correctly When Using dlopen (4270715)

libjvm.so does not function correctly if it is brought into the process using dlopen. It must be linked into the executable when that object is created.

Workaround: Explicitly name libjvm.so (-ljvm) and libjava.so (-ljava) as dependencies when you create an executable.

AnswerBook2 Bugs

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

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

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

```
# ab2admin -o list
```

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

ab2cd Script Displays an Erroneous Error Message (4256516)

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

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

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

Workaround: Ignore the error message.

Localization Issues

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

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

1. Log in to CDE.

2. Type `fdl` at the command line to start the Font Downloader.

3. Specify the printer by selecting Add from the Printer menu.

4. Select Font Bundle from the Download menu.

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

Localization Bugs

Some Greek Characters Are Not Available in CDE (4179411)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Screens in Several Applications Have Not Been Localized (4301212, 4301555, 4299487, 4301507, 4304495, 4327983, 4329376, 4332309)

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

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

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

Workaround: In superuser mode, copy the following file :

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

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

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

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

■ The left button should be labeled Aggiungi (Add).

■ The right button should be labeled Annulla (Cancel).

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

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

TABLE 2–1 Differences Between Sun and Microsoft Arabic Keyboards

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

SEAM Application Displays Messages That Are Not Localized (4306619)

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

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

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

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

1. Select Lookup in the UTF-8 Input Mode Selection window.

2. Select Currency Symbols.

3. Select the Euro symbol.

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

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

Sorting in the European `UTF-8` locales does not work properly.

Workaround: Before you attempt to sort in a `FIGGS UTF-8` locale, set the *LC_COLLATE* variable to the ISO1 equivalent.

```
# echo $LC_COLLATE
>   es_ES.UTF-8
# setenv LC_COLLATE es_ES.ISO8859-1
```

Then start sorting.

Late-Breaking News

This chapter includes information on new features that arrived too late to be included in the Solaris 8 documentation set. For information on new features in the Solaris 8 6/00 operating environment, refer to the Solaris 8 6/00 Update AnswerBook Collection on `http://docs.sun.com`.

PIM Kernel Support

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

Configuring Runtime Search Paths

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

End-of-Software Support Statements

This chapter lists end-of-support statements. No new end-of-software support statements have been added since this document was published on the Solaris 8 6/00 Documentation CD and in the Installation Kiosk on the Solaris 8 6/00 Installation CD.

Current Release

HotJava Browser

The HotJava™ browser is no longer supported.

Solaris Java Development Kit: JNI 1.0 Interface

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

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

Solstice AdminSuite 2.3/AutoClient 2.1

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

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

F3 Font Technology

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

XGL

XGL is no longer supported.

Derived Type `paddr_t`

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

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

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

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

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

The `sysidnis`(1M) System Identification Program

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

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

`Sun4c`-Based Systems

The following `Sun4c`—based architecture systems and servers based on these systems are no longer supported.

- SPARCstation™ SLC
- SPARCstation ELC
- SPARCstation IPC
- SPARCstation IPX
- SPARCstation 1
- SPARCstation 1+
- SPARCstation 2

Note - All hardware options (such as SCSI devices) and supported configurations that are dependent on the `Sun4c`-based architecture are no longer supported.

SPARCstation Voyager

SPARCstation Voyager™ systems are no longer supported.

SPARC Xterminal 1

SPARC Xterminal 1™ systems are no longer supported.

Future Releases

Solstice AdminTool

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

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

Solstice Enterprise Agents

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

XIL

XIL may no longer be supported in a future release. An application using XIL causes the following warning message to be displayed.

```
        WARNING:  XIL OBSOLESCENCE
This application uses the Solaris XIL interface
which has been declared obsolete and may not be
present in version of Solaris beyond Solaris 8.
Please notify your application supplier.
The message can be suppressed by setting the environment variable
"_XIL_SUPPRESS_OBSOLETE_MSG.
```

Lightweight Directory Access Protocol (LDAP) Client Library

LDAP client library, `libldap.so.3`, may no longer be supported in a future release. The new version of this library, `libldap.so.4`, is compliant with the

`draft-ietf-ldapext-ldap-c-api-04.txt` revision of the `ldap-c-api` draft from the Internet Engineering Task Force (IETF).

JDK 1.1.x and JRE 1.1.x

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

SUNWrdm

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

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

`crash`(1M) Utility

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

To enable the transition, the Solaris 8 operating environment includes documentation about the `mdb` syntax that is equivalent to each `crash` subcommand.

Kerberos Version 4 Client

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

`adb`(1) Map Modifiers and Watchpoint Syntax

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

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

- The text output format of some subcommands is different in `mdb`(1). Macro files are formatted using the same rules, but scripts that depend on the output of other subcommands may need to be modified.

- The watchpoint length specifier syntax in `mdb`(1) is different from the syntax described in `adb`(1). The `adb`(1) watchpoint commands `:w`, `:a`, and `:p` allow an integer length (in bytes) to be inserted between the colon and the command character. In `mdb`(1), the count should be specified following the initial address as a repeat count.

  The `adb`(1) command `123:456w` is specified in `mdb`(1) as `123,456:w`.

- The `/m`, `/*m`, `?m`, and `?*m` format specifiers are not recognized or supported by `mdb`(1).

OpenWindows Toolkits for Developers

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

OpenWindows Environment For Users

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

Federated Naming Service (FNS)/XFN Libraries and Commands

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

Solaris `ipcs`(1) Command

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

Deprecate `sendmail –AutoRebuildAliases` Option

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

`sun4d`–Based Servers

The following `sun4d`-based architecture servers may no longer be supported in a
future release.

- SPARCserver™ 1000

- SPARCcenter™ 2000

Hardware options that are dependent on the `sun4d`-based architecture may no
longer be supported 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 6/00 Documentation CD and in the Installation Kiosk on the Solaris 8 6/00 Installation CD.

- Options for `mipagentstat`(1M) command are incorrect in the *Mobile IP Administration Guide*

- Parameter name in the Address Section of the Mobile IP configuration file is incorrect in the *Mobile IP Administration Guide*

- Option described in the `sdtgwm(1)` man page is not supported in the Solaris 8 6/00 operating environment

- `ocfserv` daemon `start` and `stop` commands described in the *Solaris Smart Cards Administration Guide* do not exist

- Name for Sun Smart Card Reader I for the `smartcard -j` option is listed incorrectly in the *Solaris Smart Cards Administration Guide*

- Instructions to create a boot server over a subnet are incorrect in the *Solaris 8 Advanced Installation Guide*

- Removable media management functionality new in the Solaris 8 6/00 operating environment is not fully described in the *Solaris 8 System Administration Supplement* and the *Solaris 8 User Supplement*

Note - The name of this product is Solaris 8 6/00, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Documentation Errata

Document Affected: "Full Backup Commands" in *Solaris 8 (SPARC Platform Edition) Installation Guide*

The commands in Table 3–3 in "Full Backup Commands" in the *Solaris 8 (SPARC Platform Edition) Installation Guide* are incorrect. They should read as follows:

TABLE 5–1   Backup Commands

To make a full backup on a	Use this command
Local cartridge tape drive	`ufsdump 9ucf /dev/rmt/n` *files_to_backup*
Remote cartridge tape drive	`ufsdump 0ucf` *remote_host*:/dev/rmt/n *files_to_backup*

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

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

  Traffic Class - 8 bit traffic class field.

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

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

The 4-bit Priority field description reflects RFC 1883, which has been obsoleted by RFC 2460 (Solaris 8 implements RFC 2460). Consequently, the Priority field has been replaced by the 8-bit Traffic Class field. The Priority section should be replaced by the following Traffic Classes section.

Traffic Classes

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

The following general requirements apply to the Traffic Class field.

- The service interface to the IPv6 service within a node must provide a means for an upper-layer protocol to supply the value of the Traffic Class bits in packets originated by that upper-layer protocol. The default value must be zero for all 8 bits.

- Nodes that support a specific use of some or all of the Traffic Class bits can change the value of those bits in packets that they originate, forward, or receive, as required for that specific use. Nodes should ignore and leave unchanged any bits of the Traffic Class field for which they do not support a specific use.

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

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

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

Several corrections apply to this section:

- For the `nfs_32_time_ok` symbol:

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

- Add an `nfs_disable_rddir_cache` symbol entry.

  - Description: Some servers do not properly update the attributes of the directory when changes are made. To allow interoperability with these broken servers, set this variable to disable the `readdir` cache.
  - Default: Set to `off(0)`.

- For the `nfs_lookup_neg_cache` and `nfs3_lookup_neg_cache` symbols:

  - Change the default to 1. Ignore the comment about the directory name caching.

- For the `nrnode` symbol:

  - Change the default description to: *set to ncsize.* By setting the variable to 1 you are effectively disabling the cache, not because there is an explicit check to see whether or not it is 1 but because you are creating a very small cache.

- For the `nfs_write_error_interval` symbol:

  - Change the description: This symbol controls how often NFS ENOSPC and EDQUOT write error messages are logged. Its units are in seconds.
  - No change to the default description.

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

- Delete the `nfsreadmap` symbol entry.

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

For the `authdes_cachesz` symbol:

- Change the default description: Defaults to 1024.

- Delete the `authkerb_cachesz` symbol entry.

- Delete the `authkerb_win` symbol entry.

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

Current statement:

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

Should read as follows:

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

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

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

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

The –w option described in the man page `sdtgwm(1)` is not supported in the Solaris 8 6/00 operating environment.

Document Affected: *Solaris Smart Cards Administration Guide* (4296336)

The `ocfserv` daemon `start` and `stop` commands described in the *Solaris Smart Cards Administration Guide* do not exist.

To restart the `ocfserv` daemon, follow these steps.

1. Stop the `inetd` daemon.

```
# pkill inetd
```

2. Stop the `ocfserv` daemon.

```
# pkill ocfserv
```

3. Verify `ocfserv` daemon is stopped.

```
# pgrep ocfserv
```

4. Restart the `inetd` daemon.

```
# inetd -s
```

Document Affected: *Solaris Smart Cards Administration Guide* (4326607)

The *Solaris Smart Cards Administration Guide* supplies the wrong name for the Sun Smart Card Reader I for the `smartcard -j` option:

```
-j com.sun.opencard.terminal.scm.SCMstc.SCMStcCardTerminalFactory
```

The Sun Smart Card Reader I for the `smartcard -j` option should read as follows:

```
-j com.sun.opencard.terminal.scm.SCMStc.SCMStcCardTerminalFactory
```

Document Affected: "To Create a Boot Server on a Subnet" in *Solaris 8 Advanced Installation Guide* (4327931)

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

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

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

Documents Affected: "Improved Removable Media Management" in *Solaris 8 System Administration Supplement* and "Removable Media" in *Solaris 8 User Supplement*

The "Improved Removable Media Management" section of the *Solaris 8 System Administration Supplement* and the "Removable Media" section of the *Solaris 8 User Supplement* do not sufficiently describe how working with removable media has changed since the Solaris 8 release.

These sections should read as follows:

In the Solaris 8 6/00 release, volume manager (vold) actively manages all removable media devices. This means any attempt to access removable media with device names such as /dev/rdsk/c*n*t*n*d*n*s*n* or /dev/dsk/c*n*t*n*d*n*s*n* will be unsuccessful.

CDE's Removable Media Manager or the volume manager pathnames such as /cdrom0, /floppy, /rmdisk, /jaz0, or /zip0 are the only way to access the devices as long as volume manager (vold) is running.

You can also access removable media by their entries in the /vol/dev directory. For example:

/vol/dev/rdiskette0/*volume-name* for a floppy disk, or

/vol/dev/rdsk/c*n*t*n*d*n*/*volume-name* for a CD-ROM or removable hard disk

If a removable media device contains a removable medium, its alias appears in the `/vol/dev/aliases` directory as a symbolic link to its path in the `/vol/dev` directory. For example, if there's a floppy disk labeled `test` in floppy drive 0 and a CD labeled `test` in the CD-ROM drive at `/dev/rdsk/c2t1d0`, you will see the following output:

```
$ ls -l /vol/dev/aliases
lrwxrwxrwx 1 root root 30 May 11 12:58 cdrom0 -> /vol/dev/rdsk/c2t1d0/test
lrwxrwxrwx 1 root root 30 May 11 12:58 floppy0 -> /vol/dev/rdiskette0/test
```

If you are unsure which device name to choose, use the `eject -n` command to display device names for all removable media devices. For example, use the device name on the right side of `eject -n` output to determine which device name to use with the `fsck`, `mkfs`, or `newfs` commands.

Accessing Jaz or Zip Drives

You can determine whether accessing your Jaz or Zip drives changes from previous Solaris releases depending on whether you upgrade or install the Solaris 8 6/00 release:

- If you are upgrading to the Solaris 8 6/00 release from a previous Solaris release, you can continue to access your Jaz and Zip drives the same way as previous releases.

- If you are freshly installing the Solaris 8 6/00 release, you will not be able to access your Jaz and Zip drives the same way as previous Solaris releases.

Follow the procedure below if you want to access your Jaz and Zip drives the same way as previous Solaris releases.

1. **Become superuser.**

2. **Comment the following line in the** `/etc/vold.conf` **file by inserting a pound (#) sign at the beginning of the text, like this:**

```
#use rmdisk drive /dev/rdsk/c*s2 dev_rmdisk.so rmdisk%d
```

3. **Reboot the system.**

```
# init 6
```

CERT Advisories

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

TABLE 6–1 CERT Advisories

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

TABLE 6–1 CERT Advisories *(continued)*

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

TABLE 6–1   CERT Advisories   *(continued)*

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

TABLE 6–1 CERT Advisories *(continued)*

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

TABLE 6–1   CERT Advisories   *(continued)*

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

TABLE 6–1   CERT Advisories   *(continued)*

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

Maintenance Update Patch List

The patches listed in this appendix have been applied to the Solaris 8 6/00 operating environment in one of the following ways:

- SolStart

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

- Freshbits technology

  These patches were applied when the Solaris 8 6/00 operating environment 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 6/00 operating environment includes a known and tested level of patches; however, patches cannot be backed out of the Solaris 8 6/00 operating environment.

Patch List

```
108528-01  :   SunOS 5.8:  kernel update patch
        4256799 4272737 4293528 4295776 4303474 4304696 4305365 4306004 4306367 4307062
4307080 4307747 4307827 4309011 4309802 4309818 4310864 4311134 4312278 4313746 4313747
4314201

108576-01  :   SunOS 5.8:  Expert3D IFB Graphics Patch
        4287694 4288477 4288903 4292508 4294341 4294348 4297823 4299666
```

(continued)

108604-03 : SunOS 5.8: Elite3D AFB Graphics Patch
        4234045 4294963 4300089 4303885 4308725

108605-03 : SunOS 5.8: Creator 8 FFB Graphics Patch
        4234045 4294963 4303885 4308725

108631-06 : SunOS 5.8: SPECIAL PATCH
        4299534 4316564

108652-04 : X11 6.4.1 Xsun patch
        4281374 4292395 4286682 4300866 1221324 4308554 4306350 4312517 4287741 4297581
4297830 4299495 4306774 4308640 4308661 4308670 4311088 4312780 4312893

108664-02 : SunOS 5.8: Support for SME platforms
        4298987 4309134

108680-02 : SunOS 5.8: SuperIO 307 (plug-n-play) device drivers
        4252667 4306404

108714-01 : CDE 1.4: libDtWidget patch
        4289349

108723-01 : SunOS 5.8: /kernel/fs/lofs and /kernel/fs/sparcv9/lofs patch
        4126922

108725-01 : SunOS 5.8: st driver patch
        4270641 4319238

108727-02 : SunOS 5.8: /kernel/fs/nfs and /kernel/fs/sparcv9/nfs patch
        4276984 4293528

108781-01 : Solaris 8: Get UDCTool to work for zh_TW
        4307173

108806-02 : Solaris 8: Sun Quad FastEthernet qfe driver
        4306341 4301636 4321069 4321602

108808-05 : SunOS 5.8: Manual Page updates for Solaris 8
        4312130 4323321 4323394 4314114 4310895

108810-01 : SunOS 5.8: DirUmountRecurse unmounts incorrectly
        4299103

108820-01 : SunOS 5.8: nss_compat.so.1 patch
        4302441

108823-01 : SunOS 5.8: compress/uncompress/zcat patch
        4295877

108825-01 : SunOS 5.8: /usr/lib/fs/cachefs/cfsadmin patch
        4207874

(continued)

108827-01 : SunOS 5.8: libthread patch
      4288299

108835-01 : CDE 1.4: dtcm patch
      4285729

108869-01 : SunOS 5.8: snmpdx/mibiisa/libssasnmp/snmplib patch
      4299328 4301970 4309416

108874-01 : SunOS 5.8: fhc driver patch
      4304051

108875-04 : SunOS 5.8: c2audit patch
      4224166 4290575 4307306 4308525 4322741

108897-01 : X11 6.4.1 Xprint patch
      4305734

108899-01 : SunOS 5.8: /usr/bin/ftp patch
      4294697

108901-01 : SunOS 5.8: /kernel/sys/rpcmod and /kernel/strmod/rpcmod patch
      4107735

108909-01 : CDE 1.4: Smart Card Administration GUI patch
      4301377 4301411

108914-01 : SunOS 5.8: localisation updates for different components

108919-01 : CDE 1.4: dtlogin patch
      4072784 4293300 4302209

108921-02 : CDE 1.4: dtwm patch
      4306589 4311842 4301522 4299651 4300013

108925-03 : Solaris 8: New Messages for new I18N projects
      4321271 4323500

108933-01 : Hex broken in Swedish dtcalc, Mistranslation in Spanish dtmail
      4308864 4304021

108940-01 : Motif 2.1.1: Runtime library patch for Solaris 8
      4299216

108947-01 : SunOS 5.8: /platform/sun4u/cprboot patch
      4296960

108949-01 : CDE 1.4: libDtHelp/libDtSvc patch
      4298416

108954-02 : SunOS 5.8: localisation updates for different components

(continued)

108956-01 : SunOS 5.8: htt_server dumps core on SCH's cm.so in utf-8 locales
    4314242

108958-02 : SunOS 5.8: Patch for libspmisvc.so.1
    4256556 4302899 4313039

108960-01 : SunOS 5.8: Patch for sysidnet
    4310705

108962-01 : SunOS 5.8: XmlReader fails on an HTTP stream
    4314140

108964-02 : SunOS 5.8: /usr/sbin/snoop patch
    4297326 4297676 4313760 4315280 4317713 4321696 4321713 4321720 4321721 4321723
4321725 4321726 4322042 4322055 4322058 4322060 4322064 4322200 4322670

108966-01 : SunOS 5.8: /kernel/fs/ufs and /kernel/fs/sparcv9/ufs patch
    4293528

108968-02 : SunOS 5.8: 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

108970-01 : SunOS 5.8: /usr/lib/fs/pcfs/fsck and /usr/lib/fs/pcfs/mkfs patch
    4145536 4210625 4250242 4256652

108972-01 : SunOS 5.8: /sbin/fdisk patch
    4221693

108974-02 : SunOS 5.8: sd and uata driver patch
    4285368 4285546 4305131 4313235

108975-02 : SunOS 5.8: /usr/bin/rmformat and /usr/sbin/format patch
    4242879 4292212 4308431 4311553 4322206

108977-01 : SunOS 5.8: libsmedia patch
    4292214 4308431 4311553

108979-05 : SunOS 5.8: Netra ct patch
    4236043 4242051 4253713 4255980 4272737 4276021 4290269 4303126 4306367 4307062
4307080 4307747 4307827 4309011 4309802 4309818 4310864 4311126 4311134 4312838 4312937
4314121 4314936 4315098 4315100 4315101 4317657 4317667 4318351 4318728 4318747 4320440
4320471 4328225 4330429 4330774

108981-02 : SunOS 5.8: /kernel/drv/hme and /kernel/drv/sparcv9/hme patch
    4247473 4327720

108982-03 : SunOS 5.8: fctl/fp/fcp/usoc driver patch
    4291069 4294605 4298666 4298671 4298676 4298680 4298689 4298693 4298699 4299785
4300943 4300953 4302739 4304902 4323071 4324847

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108983-02 : SunOS 5.8: fcip patch
      4304890 4320876

108984-02 : SunOS 5.8: qlc adb macros patch
      4264323 4278254 4300470 4300943 4300953 4302087 4304897 4324126 4324180 4324192
4324478

108985-01 : SunOS 5.8: /usr/sbin/in.rshd patch
      4158689 4305888

108987-01 : SunOS 5.8: Patch for patchadd and patchrm
      4278860 4304640 4303509 4292990 4299710

108989-02 : SunOS 5.8: /usr/kernel/sys/acctctl and /usr/kernel/sys/exacctsys patch
      4305365 4312278 4313746 4313747 4314201

108991-02 : SunOS 5.8: libc and watchmalloc patch
      4193683 4225913 4292683 4312278 4314913

108993-01 : SunOS 5.8: nss and ldap patch
      4312278

108995-01 : SunOS 5.8: /usr/lib/libproc.so.1 patch
      4312278

108997-03 : SunOS 5.8: libexacct and libproject patch
      4305365 4312278 4313746 4313747 4314201

108999-01 : SunOS 5.8: PAM patch
      4312278

109003-01 : SunOS 5.8: /etc/init.d/acctadm and /usr/sbin/acctadm patch
      4312278

109005-01 : SunOS 5.8: /sbin/su.static and /usr/bin/su patch
      4312278

109007-01 : SunOS 5.8: at/atrm/batch/cron patch
      4312278

109009-01 : SunOS 5.8: /etc/magic and /usr/bin/file patch
      4312278

109011-01 : SunOS 5.8: /usr/bin/id and /usr/xpg4/bin/id patch
      4312278

109013-02 : SunOS 5.8: /usr/bin/lastcomm patch
      4305365 4312278 4313746 4313747 4314201

109015-01 : SunOS 5.8: /usr/bin/newtask patch
      4312278

109017-01 : SunOS 5.8: /usr/bin/pgrep and /usr/bin/pkill patch

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4312278

109019-01 : SunOS 5.8: /usr/bin/priocntl patch
4312278

109021-01 : SunOS 5.8: /usr/bin/projects patch
4312278

109023-01 : SunOS 5.8: /usr/bin/sparcv7/ps and /usr/bin/sparcv9/ps patch
4312278

109025-01 : SunOS 5.8: /usr/bin/sparcv7/truss and /usr/bin/sparcv9/truss patch
4312278

109027-01 : SunOS 5.8: /usr/bin/wracct patch
4312278

109029-01 : SunOS 5.8: perl patch
4312278

109031-01 : SunOS 5.8: projadd/projdel/projmod patch
4312278

109033-01 : SunOS 5.8: /usr/bin/sparcv7/prstat and /usr/bin/sparcv9/prstat patch
4312278

109035-01 : SunOS 5.8: useradd/userdel/usermod patch
4312278

109037-01 : SunOS 5.8: /var/yp/Makefile and /var/yp/nicknames patch
4312278

109041-02 : SunOS 5.8: sockfs patch
4224166 4290575 4322741

109043-02 : SunOS 5.8: sonode adb macro patch
4224166 4290575 4322741

109045-02 : SunOS 5.8: /usr/sbin/sparcv7/crash and /usr/sbin/sparcv9/crash patch
4224166 4290575 4322741

109066-03 : SunOS 5.8: NCA Support for Apache Web Server patch
4285881 4294231 4296334 4297125 4297126 4297294 4299951 4300202 4300429 4300836
4301047 4303787 4306793 4307672 4307679 4307683 4308402 4311970 4312075 4312396 4313734
4316564 4317634 4318360 4318365 4324351 4326195 4326198

109068-01 : Japanese CDE 1.4: Update Japanese CDE help files
4302904

109070-01 : WBEM (japanese): fix japanese improper messages
4302909

109072-02 : Japanese CDE 1.4: sdtsmartcardadmin help files

(continued)

4318088 4301377

109077-01 : SunOS 5.8: /usr/lib/inet/in.dhcpd patch
        4313817

109087-01 : SunOS 5.8: atok8 terminates "Shell widget modeShell has zero..."
        4297016 4301750

109091-01 : SunOS 5.8: /usr/lib/fs/ufs/ufsrestore patch
        4297558

109093-01 : SunOS 5.8: JFP message files patch
        4318917

109094-01 : SunOS 5.8: localisation updates for different components

109128-01 : Provide conversion between codepages 1256 and ISO8859-6
        4301870

109131-01 : SunOS 5.8: JFP manpages patch
        4320935

109137-01 : SunOS 5.8: /usr/sadm/install/bin/pkginstall patch
        4318844

109142-01 : CDE 1.4: dtterm libDtTerm patch
        4308751

109145-01 : SunOS 5.8: /usr/sbin/in.routed patch
        4319852

109147-01 : SunOS 5.8: linker patch
        4309212 4311226 4312449

109149-01 : SunOS 5.8: /usr/sbin/mkdevmaps patch
        4316613

109153-01 : SunOS 5.8: /platform/sun4u/kernel/misc/cpr patch
        4305817

109157-02 : SunOS 5.8: WOS Message Update
        4329574

109165-03 : CDE 1.4: dtfile patch
        4257760 4256612 4256615 4256616 4256617 4297751 4259270 4287012 4292249 4303367
        4297401 4302856 4305084 4305248 4303443 4291565 4308823 4306243 4291444 4286997 4310115
        4302740 4301375 4312545 4314867 4312316 4310827 4292266 4316515 4314491 4317156 4317797
        4314870 4322296 4318940 4325417

109167-01 : CDE 1.4: Desktop Help Updates Patch
        4307183 4319636

109169-05 : CDE 1.4: Window Manager Enhancements Patch
    4301525 4301229 4303415 4304468 4308078 4310419 4311506 4312315 4311916 4312250
4311992 4312375 4305293 4316508 4299329 4321374 4327961 4321817 4328036 4328268

109176-01 : Japanese CDE 1.4: New Feature patch
    4322170

109179-03 : SunOS 5.8: localisation updates for different components

109181-01 : SunOS 5.8: /kernel/fs/cachefs patch
    4166371 4292697 4299056

109200-01 : SunOS 5.8: localisation updates for different components
    4313061

109221-01 : SunOS 5.8: Patch for sysidnet
    4322703

109241-02 : SunOS 5.8: /usr/kernel/drv/pm and /usr/kernel/drv/sparcv9/pm patch
    4319440

109247-01 : Bad translation causes core dump in German install
    4324017

109249-01 : Help not localised for the dhcpmgr
    4324311

109255-01 : Unlocalised buttons on user-interface of dhcpmgr
    4324315

109264-01 : Graphics missing from Help in Smart Card
    4324308

109277-01 : SunOS 5.8: /usr/bin/iostat patch
    4313169

109279-01 : SunOS 5.8: /kernel/drv/ip and /kernel/drv/sparcv9/ip patch
    4299951

109316-01 : SunOS 5.8: SPECIAL PATCH
    4299534

109318-01 : SunOS 5.8: libspmisoft patch
    4324404