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Preface

The *Solaris™ 8 (Intel Platform Edition) 1/01 Release Notes Update* contains installation problem details and other information that were not available until immediately before the release of the Solaris 8 1/01 operating environment.

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

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 8 1/01 operating environment.

Related Books

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

- *Solaris 8 Start Here*
- *Solaris 8 (Intel Platform Edition) Installation Guide*
- *Solaris 8 Advanced Installation Guide*
- *Solaris 8 Installation Supplement*
Solaris 8 (Intel Platform Edition) 1/01 Hardware Compatibility List
The Solaris 8 1/01 release notes are available:

- In the Solaris 8 1/01 Release Documents Collection on the Solaris 8 1/01
  Documentation CD
- In print with the product (installation issues and bugs only)
- On http://docs.sun.com (the most up-to-date information)

Solaris 8 System Administration Supplement

Solaris documentation is available on the Solaris 8 1/01 Documentation CD included
with this product.

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

Ordering Sun Documents

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

For a list of documents and how to order them, visit the Sun Documentation Center

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.
Installation Issues

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

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

- Bug ID 4394591
- Bug ID 4368056

**Note** - The name of this product is Solaris 8 1/01, but code and path or package path names may use Solaris 2.8 or SunOS™ 5.8. Always follow the code or path as it is written.


System Identification Bugs

System Identification Tools Fail to Verify Name Server (4265363)

If you are configuring the name service (NIS+, NIS or DNS) on a system and the name server(s) exist on another subnet and the router does not broadcast its route, then the system identification tools fail to verify the name server.
If you choose DNS as the name service, the installation program prompts you to accept the unverified data and continue. If you choose NIS+ or NIS as the name service, the system identification cannot continue without verification and the name service cannot be configured during installation.

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

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

  ```
  # route add default ip_address_of_router
  ```

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

---

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

**Solaris Web Start 3.0 Installation Partition Issue**

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

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

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

- **Solaris fdisk partition**
  
  This is the typical Solaris fdisk partition.

- **x86 Boot fdisk partition**
  
  This is a 10-Mbyte fdisk partition that enables Intel architecture to boot the miniroot that is placed on the newly created swap slice located on the Solaris fdisk partition.
Note - The Solaris Web Start 3.0 installation utility creates the x86 boot partition, removing 10-Mbytes from the Solaris fdisk partition. This prevents any existing fdisk partitions from being altered.

This partition should not be created manually.

This requirement also prevents you from using Web Start 3.0 to upgrade from the Solaris 2.6 or Solaris 7 releases to the Solaris 8 operating environment. For more information, refer to “Upgrade Issues” on page 22.

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

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

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

If you use the Solaris 8 1/01 Installation CD to install the Solaris 8 1/01 operating environment on a gateway system, Solaris Web Start 3.0 uses the primary interface to gather system information. You cannot instruct Solaris Web Start 3.0 to use an alternate network interface to gather information for system identification.

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

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

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

Locale Installation Mechanism Change

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

Notice especially the following behaviors:

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

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

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

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

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

The Solaris operating environment installation program cannot detect that the driver does not support large partitions. The installation continues without displaying an error. However, when you reboot your system, the reboot may fail.
Even if you successfully reboot your system, it will fail later because of other changes related to boot devices or added packages. The disk controllers associated with these drivers are:

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

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

---

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

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

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

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

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

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

---

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

The Solaris 8 operating environment includes a new feature that enables you to install large partitions. The system BIOS must support Logical Block Addressing (LBA).
BIOS Version GG.06.13 does not support LBA access. The Solaris boot programs cannot manage this conflict. The problem can also affect other HP Vectra systems.

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

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

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

---

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

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

To enable the DMA feature for improved performance, see .

---

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

**64 MB System Hangs When Connecting to Network (4394591)**

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

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

Installation has succeeded, but two system files are not initialized correctly. The affected files are: `/etc/inet/hosts` and `/etc/inet/netmasks`. The system has run out of swap space during system configuration.
IA systems with greater amounts of memory, or IA systems installed using the Installation CD in graphics mode will not experience this problem.

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

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

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

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

   ```
   b -s
   ```

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

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

---

## Installation Bugs That Occur During a Solaris Web Start 3.0 Installation

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

If you use the Solaris 8 1/01 Installation CD, the following error messages are recorded in the `/var/sadm/system/logs/cd0_install.log` file.

```plaintext
cpio: Cannot chown() "/tmp/x86_boot/solaris", errno 22, Invalid argument
cpio: Error during chown() of "/tmp/x86_boot/solaris/
    boot.bin", errno 22, Invalid argument
cpio: Cannot chown() "/tmp/x86_boot/solaris/
    boot.bin", errno 22, Invalid argument
```
These messages indicate that Web Start 3.0 on the Solaris 8 1/01 Installation CD cannot change the ownership of the files needed to boot from the IA boot partition. Because the IA boot partition is a PCFS file system and does not support the chown command, the cpio errors occur.

**Workaround:** Ignore the error messages.

---

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

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

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

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

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

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

---

**Installation Progress Bar May Be Inaccurate (1266156)**

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

Do not rely on the progress bar to indicate that the installation is complete. The installation displays the following message when the program has completed all installation operations.
Warnings May Occur When a File System Is Created (4189127)

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

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

or

Warning: 1 sector(s) in last cylinder unallocated

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

**Workaround:** Ignore the warning message.

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

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

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

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

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

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

  1. After the custom JumpStart completes the installation of the Solaris 8 Software 1 of 2 CD, reboot the system.
2. Log in to the system.
3. Insert the Solaris 8 Software 2 of 2 CD.
4. Execute the installer command and follow the instructions on the screen to install the remaining software.
5. Insert the Solaris 8 Languages CD.
6. Execute the installer command and follow the instructions on the screen to install any languages.

Upgrade Issues

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

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

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

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

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

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

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

## Installation Bugs That Occur During an Upgrade

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

### Upgrading Diskless Client Servers and Clients (4363078)

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

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

```
The Solaris Version (Solaris 7) on slice <xxxxxxxx> cannot be upgraded. There is an unknown problem with the software configuration installed on this disk.
```
Upgrading the JavaSpaces Datastore to Prevent WBEM Data Loss (4365035)

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

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

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

1. Become superuser.

2. Save the JavaSpaces software.

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

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

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

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

   **Note** - After upgrading to the Solaris 8 1/01 operating environment, you must convert the WBEM data. For specific instructions, see Solaris 8 Installation Supplement.
DiskSuite May Cause Data Loss (4121281)

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

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

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

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

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

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

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

Workaround: Uninstall the relocated CDE before you start upgrading to the Solaris 8 operating environment. You can uninstall by using the install-cde script from the Solaris 2.5.1 CDE CD. You should run this script with the -uninstall flag to remove CDE.
Upgrading the Solaris 7 Operating Environment
With Web-Based Enterprise Management (WBEM)
1.0 to the Solaris 8 Operating Environment Causes
WBEM 2.0 Not to Work (4274920)

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

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

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

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

```
% pkginfo | grep WBEM
```

2. Become superuser.

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

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

SUNWeeudt Partially Fails to Install During an
Upgrade (4304305)

The upgrade log may state that the SUNWeeudt package was only partially installed.
Doing pkgadd of SUNWeeudt to `/`.  
ERROR: attribute verification of `</a/usr/dt/appconfig/types/ru_RU.KOI8-R/datatypes.dt>` failed pathname does not exist ...  

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

**Workaround:** Perform the following steps after the upgrade has been completed.  
1. Remove the SUNWeeudt package by typing:  

```
$ pkgrm SUNWeeudt
```

2. Add the SUNWeeudt package by typing:  

```
$ pkgadd SUNWeeudt
```

---

**Localization Bugs**

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

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

**Workaround:** Accept the default selections.

**Invalid Language Option K018-R (4342970)**

K018-R is an invalid language. It appears in the Language Selection Screen when installing from the Solaris 8 1 of 2 CD. If chosen, installation is not affected and will run in English.
Turkish Locale Does Not Install From Solaris 8 1 of 2 CD (4359095)

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

couldn’t set locale correctly

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

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

After upgrading from the Solaris 7 3/99, 5/99, 8/99 or 11/99 operating environments to the Solaris 8 1/01 operating environment, the following errors may appear in the upgrade logs.

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

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

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

**Workaround:** Ignore these error messages.
Swedish Locale: Dialog Boxes Displayed During Installation Are Not Localized (4300655)

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

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

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

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

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

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

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

Workaround: Install the Solaris operating environment using the German or French ISO8859-1 locales.
German Locale: Add and Cancel Buttons in the Proxy Kiosk Screen Are Labeled as Undefined (4306260)

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

This chapter describes known runtime problems.

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

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

Note - The name of this product is Solaris 8 1/01, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Security Bugs

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

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

Workaround: Privileged users should not use "here documents" in csh.
Diskless Client Bugs

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

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

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

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

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

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

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

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

Name Server Scope

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

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

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

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

**Note** - All entries must appear on a single line.

1. Change the following server files:

```
/etc/bootparams
```

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

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

**Note** - “dump” and “dumpsize” appear only if you specify the “-x dump” or “-x dumpsize” options.

To the following:

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

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

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

3. Change the following client files:
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:
where *program* is the name of the program you are compiling.

### Common Desktop Environment Bugs

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

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

**Workaround:** Mount the CD-ROM manually:

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

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

3. Mount the CD-ROM:

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

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

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

4. Restart the volume manager:

```
/etc/init.d/volmgt start
```
OpenWindows File Manager Fails to Mount Diskette (4329368)

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

Workaround: Choose one of the following workarounds.

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

■ To format a diskette, follow these steps:
  1. Unmount the diskette.

```bash
% volrmmount -e floppy0
```

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

  2. Format the diskette.

```bash
% fdformat floppy0
```

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

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

1. Unmount the diskette.

```bash
% volrmmount -e floppy0
```

where floppy0 is the diskette’s folder in the /floppy directory.

  2. Create the appropriate file system on the diskette.

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

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

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

```bash
% mkfs -F pcfs /vol/dev/aliases/floppy0
```
3. Mount the diskette.

```
% volrmmount -i floppy0
```

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

```
% eject floppy0
```

To prevent this problem, apply patch 109464-01.

**PDASync Cannot Delete Last Entry From the Desktop (4260435)**

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

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

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

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

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

---

**System Administration Bugs**

**rcm_daemon Error Message (4386436)**

When the system boots the following error message may be logged to the system log file located in `/var/adm/messages`:
This occurs only if /var is a separate partition.

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

### Obsolete Files Still Present in Help System (4339515)

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

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

The following error message is displayed when memory is low:

```
CIM_ERR_LOW_ON_MEMORY
```

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

**Workaround:** To reset the CIM Object Manager Repository:

1. Become superuser.
2. Stop the CIM Object Manager.
   ```
   # /etc/init.d/init.wbem stop
   ```
3. Remove the JavaSpaces log directory.
   ```
   # /bin/rm -rf /var/sadm/wbem/log
   ```
4. Restart the CIM Object Manager.
   ```
   # /etc/init.d/init.wbem start
   ```
Note - You will lose any proprietary definitions in your datastore. You must recompile the MOF files that contain those definitions using the mofcomp command. For example:

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

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

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

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

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

```
# /etc/init.d/init.wbem start
```
Hardware Configuration Bugs

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

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

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

or

```plaintext
panic[cpu0]/thread=2a1000fffd40: BAD TRAP: type=31
rp=2a1000fd0a0 addr=c0 mmu_fsr=0 occurred in module "genunix" due
to a NULL pointer dereference
```

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

---

Hardware Support Bugs

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

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

```plaintext
scsi: [ID 107833 kern.warning] WARNING: /pci@1f,0/pci@1,1/ide@3/
    sd@2,0 (sd30): i/o to invalid geometry
```
Note - The path that appears in the warning message is the device path for the removable media.

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

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

Java Runtime Issues

Java Plug-in Support

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

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


Performance Issue

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

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

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

To enable (or disable) DMA for the ata driver after an installation of the Solaris 8 operating environment:
1. Run the Solaris (Intel Platform Edition) Device Configuration Assistant from the boot diskette or the installation CD (if your system supports CD-ROM booting).

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

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

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

---

**AnswerBook2 Bugs**

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

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

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

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

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

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

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

Context Sensitive Help Is Not Localized (4391781, 4389039)

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

Euro Not Accessible In UTF-8 Locales (4363812)

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

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

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

LucidaSansLat4 font aliases are not available so related error messages might appear when launching a Java application from any UTF-8 locale.
**Workaround:** Log into the ISO-1 equivalent of the locale and launch the Java application from there.

**Some Greek Characters Are Not Available in CDE (4179411)**

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

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

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

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

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

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

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

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

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

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

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

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

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

Several screens in the Smart Card application are not fully localized.

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

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

**Workaround:** In superuser mode, copy the following file:
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>
<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>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Key</th>
<th>Sun Keyboard Layout</th>
<th>Microsoft Keyboard Layout</th>
</tr>
</thead>
<tbody>
<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 bracket</td>
</tr>
<tr>
<td>V</td>
<td>Arabic Kasra</td>
<td>Right curly bracket</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>

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

Diskless Client Support

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

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

PIM Kernel Support

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

You can now modify the runtime 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.

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

- sendmail Utility
- AnswerBook2 Server

Current Release

HotJava Browser

The HotJava™ browser is no longer supported.

Solaris Java Development Kit: JNI 1.0 Interface

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

Support in the Solaris Java Development Kit (JDK) for the 1.0 version of the Java Native Interface (JNI 1.0) has been removed. JNI 1.0 is also known as the Native Method Interface (NMI).
Solstice AdminSuite 2.3/AutoClient 2.1

Solstice AdminSuite™ 2.3 software is no longer supported with the Solaris 8 operating environment. Any attempt to run Solstice AdminSuite 2.3 to configure a Solstice AutoClient or diskless client will result in a failure for which no patch is available or planned. While it may be possible to manually edit configuration files to enable diskless clients, such an operation is not recommended or supported.

F3 Font Technology

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

XGL

XGL is no longer supported.

Derived Type paddr_t

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

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

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

Older applications may access the underlying accounting files directly. The files `/var/adm/utmp` and `/var/adm/wtmp` and the corresponding symbolic links `/etc/utmp` and `/etc/wtmp` are no longer supported. The format of the data contained in these files constrains the future evolution of the Solaris operating environment. Applications using these files should be updated to use the documented and supported APIs.
Applications that are already using the `getutent(3C)` family of routines may be unaffected on small system configurations. However, in future releases these interfaces may return errors when used on very large system configurations. For this reason, use the `getutxent(3C)` routines for both old and new code in place of the `getutent(3C)` APIs.

The `sysidnis(1M)` System Identification Program

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

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

Console Subsystem

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

Documented interfaces:
- `pcmapkeys(1)`
- `loadfont(1)`
- `loadfont(4)`

Undocumented and unsupported interfaces:
- `ioctls` listed in `/usr/include/sys/kd.h`
- `ioctls` listed in `/usr/include/sys/vt.h`
- VT support
- `/dev/vt*`
- The terminal type for the console is no longer AT386; it is now sun-color.
Video Cards
The Solaris operating environment may no longer support drivers for the following video cards:

- Boca Voyager 64
- Compaq QVision 1024
- Compaq QVision 2000
- FIC 864P
- Everex ViewPoint 64P
- Everex VBA Trio 64P
- Matrox Impression Plus
- Western Digital Paradise Bahamas

Future Releases

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>zoneinfo Timezone Which May Be Removed in a Future Release</th>
<th>Replace Usage With Equivalent zoneinfo Timezone</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMT-12</td>
<td>Etc/GMT+12</td>
</tr>
<tr>
<td>GMT-11</td>
<td>Etc/GMT+11</td>
</tr>
<tr>
<td>GMT-10</td>
<td>Etc/GMT+10</td>
</tr>
<tr>
<td>GMT-9</td>
<td>Etc/GMT+9</td>
</tr>
<tr>
<td>GMT-8</td>
<td>Etc/GMT+8</td>
</tr>
<tr>
<td>GMT-7</td>
<td>Etc/GMT+7</td>
</tr>
<tr>
<td>GMT-6</td>
<td>Etc/GMT+6</td>
</tr>
<tr>
<td>GMT-5</td>
<td>Etc/GMT+5</td>
</tr>
<tr>
<td>GMT-4</td>
<td>Etc/GMT+4</td>
</tr>
<tr>
<td>GMT-3</td>
<td>Etc/GMT+3</td>
</tr>
<tr>
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<td>Etc/GMT+2</td>
</tr>
<tr>
<td>GMT-1</td>
<td>Etc/GMT+1</td>
</tr>
<tr>
<td>GMT+1</td>
<td>Etc/GMT-1</td>
</tr>
</tbody>
</table>

End-of-Software Support Statements 57
### TABLE 4–1  GMT zoneinfo Timezones  (continued)

<table>
<thead>
<tr>
<th>GMT zoneinfo Timezone Which May Be Removed in a Future Release</th>
<th>Replace Usage With Equivalent zoneinfo Timezone</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMT+2</td>
<td>Etc/GMT-2</td>
</tr>
<tr>
<td>GMT+3</td>
<td>Etc/GMT-3</td>
</tr>
<tr>
<td>GMT+4</td>
<td>Etc/GMT-4</td>
</tr>
<tr>
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<td>Etc/GMT-5</td>
</tr>
<tr>
<td>GMT+6</td>
<td>Etc/GMT-6</td>
</tr>
<tr>
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<td>Etc/GMT-7</td>
</tr>
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<td>Etc/GMT-8</td>
</tr>
<tr>
<td>GMT+9</td>
<td>Etc/GMT-9</td>
</tr>
<tr>
<td>GMT+10</td>
<td>Etc/GMT-10</td>
</tr>
<tr>
<td>GMT+11</td>
<td>Etc/GMT-11</td>
</tr>
<tr>
<td>GMT+12</td>
<td>Etc/GMT-12</td>
</tr>
<tr>
<td>GMT+13</td>
<td>Etc/GMT-13</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>WARNING: XIL OBSOLESCENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 &quot;._XIL_SUPPRESS_OBSOLETE_MSG.&quot;</td>
</tr>
</tbody>
</table>

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.

crash(1M) Utility

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

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

Kerberos Version 4 Client

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

adb(1) Map Modifiers and Watchpoint Syntax

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

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

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

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

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

- The /m, /*m, ?m, and ?*m format specifiers are not recognized or supported by mdb(1).
OpenWindows Toolkits for Developers
OpenWindows™ XView™ and OLIT toolkits may no longer be supported in a future release. You may want to migrate to the Motif toolkit. To disable the warning message, use `#define OWTOOLKIT_WARNING_DISABLED` or `-D`.

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

Federated Naming Service (FNS)/XFN Libraries and Commands
The Federated Naming Service based on the X/Open XFN standard may no longer be supported in a future release.

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

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

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

Device Support and Driver Software
The following table lists devices and driver software that may no longer be supported in a future release.
<table>
<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 may no longer be supported on Intel 486–based systems in a future release.
Documentation Issues

This chapter describes known documentation problems.

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

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

**Note** - The name of this product is Solaris 8 1/01, but code and path or package path names may use Solaris 2.8 or SunOS 5.8. Always follow the code or path as it is written.

Documentation Errata

Document Affected: “Drivers for Network Devices” in *Solaris 8 Software Developer Supplement* (4398700)

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

GLD_PROMISC_MULTI read GLD_MAC_PROMISC_MULTI
GLD_PROMISC_NONE read GLD_MAC_PROMISC_NONE
GLD_PROMISC_PHYS read GLD_MAC_PROMISC_PHYS

Document Affected : Localized New Features List
(4389948)
The localized New Features List are not contained in the Installation Kiosk.

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

Document Affected: CDE User’s Guide in
AnswerBook2 (4356456)
Some graphics in the CDE User’s Guide in AnswerBook2 are unreadable in the
Spanish, Italian and German locales.

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

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

Document Affected: usbprn(7D) man page
(4347481)
USB printing using the usbprn(7D) device driver is not supported in the Solaris 8
(Intel Platform Edition) 1/01 release.
In the `usbprn(7D)` man page, the value of the Architecture attribute incorrectly states that support is limited to PCI-based systems. The value of the Architecture attribute in the ATTRIBUTES section should read:

Limited to PCI-based SPARC systems.


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

Should read as follows:
The Adaptec Ultra SCSI devices:
- AHA-2940AU
- AHA-2940U
- AHA-2940U Dual
- AHA-2940UW
- AHA-2944UW
- AHA-3940AU
- AHA-3940AUW
- AHA-3940AUWD
- AHA-3940U
- AHA-3940UW

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

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

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

  \[
  \text{target<n>-scsi-options=0xdff8}
  \]

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

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


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.


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.


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.

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.
Delete the nfsreadmap symbol entry.

For the authdes_cachesz symbol:
- Change the default description: Defaults to 1024.
- Delete the authkerb_cachesz symbol entry.
- Delete the authkerb_win symbol entry.

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

Should read as follows:

Use the mipagentstat(1M) command’s −h option to display the home agent’s binding table.
Document Affected: “Managing Mobile IP” and “Deploying Mobile IP” in Mobile IP Administration Guide

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>CERT Advisory</th>
<th>Topic</th>
<th>Fix Integrated in OS Version</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-96.01</td>
<td>UDP Port Denial-of-Service Attack</td>
<td>Solaris 2.5.1</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.03</td>
<td>Kerberos 4 Key Server</td>
<td>N/A</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.04</td>
<td>Corrupt Information from Network Servers</td>
<td>Solaris 2.5.1</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.05</td>
<td>Java</td>
<td>N/A</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.06</td>
<td>NCSA/Apache CGI</td>
<td>N/A</td>
<td>Solaris 8 operating environment not affected</td>
</tr>
<tr>
<td>CA-96.07</td>
<td>Java Bytecode Verifier</td>
<td>N/A</td>
<td>See CERT Advisory for more details</td>
</tr>
<tr>
<td>CA-96.08</td>
<td>PCNFSD</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CA-96.09</td>
<td>$ps.statd$</td>
<td>Solaris 2.5.1</td>
<td></td>
</tr>
<tr>
<td>CERT Advisory</td>
<td>Topic</td>
<td>Fix Integrated in OS Version</td>
<td>Comments</td>
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<tr>
<td>CA-96.10</td>
<td>NIS+ Configuration</td>
<td>Solaris 2.5.1</td>
<td></td>
</tr>
<tr>
<td>CA-96.11</td>
<td>Interpreters in CGI bin</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>CA-96.12</td>
<td>suidperl</td>
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<tr>
<td>CA-96.13</td>
<td>dip</td>
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<td>KCMS</td>
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<tr>
<td>CA-96.16</td>
<td>AdminTools</td>
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<td>innd</td>
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<td>bind_problems</td>
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<td>RSAREF2</td>
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<td>sadmind</td>
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<td>Denial of service tools</td>
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</table>
Patch List

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

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

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

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

Patch List

108529-05 : SunOS 5.8_x86: kernel update patch

(continued)

108906-21 : X11 6.4.1_x86: Xsun patch
108907-05 : SunOS 5.8_x86: /boot/solaris/solaris patch
108907-06 : SunOS 5.8_x86: /usr/lib/fs/cachefs/cfsadmin patch
108907-07 : SunOS 5.8_x86: /usr/lib/nss_compat.so.1 patch
108907-09 : SunOS 5.8_x86: /boot/solaris/boot.bin patch
108907-11 : SunOS 5.8_x86: compress/uncompress/zcat patch
108907-12 : SunOS 5.8_x86: /usr/lib/fs/cachefs/cfsadmin patch
108907-13 : SunOS 5.8_x86: libthread patch

(continued)
108836-02 : CDE 1.4_x86: dtcm patch
   4285729 4320553
108870-02 : SunOS 5.8_x86: snmpdx/mibiisa/libssasnmp/snmplib patch
   4299328 4301970 4309416 4333417
108876-07 : SunOS 5.8_x86: c2audit patch
   4224166 4290575 4307306 4308525 4322741 4325997 4336689 4336959 4339611 4344275
108883-02 : SunOS 5.8_x86: mmu32/mmu36 patch
   4305696 4307800 4357919
108898-01 : X11 6.4.1_x86: Xprint patch
   4305734
108900-01 : SunOS 5.8_x86: /usr/bin/ftp patch
   4294697
108902-03 : SunOS 5.8_x86: /kernel/sys/rpcmod and /kernel/strmod/rpcmod patch
   4107735 4321293 4330007
108915-01 : SunOS 5.8_x86: localisation updates for different components
108920-04 : CDE 1.4_x86: dtlogin patch
   4072784 4293300 4302209 4299160 4346072 4328385
108922-07 : CDE 1.4_x86: dtwm patch
   4306589 4311842 4301522 4299651 4300013 4261430 4311753 4330496 4335592 4335971
   4332153
108924-01 : CDE 1.4_x86: dtwm patch
   4261430 4310640 4311753
108934-01 : SunOS 5.8_x86: bugfix for European locales, dtmail, dtcalc, SmartCard
   4308864 4304021 4301544
108941-12 : Motif 2.1.1_x86: Runtime library patch for Solaris 8_x86
   4299216 4294643 4320106 4318757 4322319 4299139 4312519 4322466 4327272 4327592
   4336539 4327637 4322728 4342603 4343099 4350517 4334155 4367450 4362266
108950-04 : CDE 1.4_x86: litDtHelp/libDtSvc patch
   4298416 4307660 4345282 1191725
108955-01 : SunOS 5.8_x86: localisation updates for different components
108957-01 : SunOS 5.8_x86: htt_server dumps core on SCH’s cm.so in utf-8 locales
   4314242

(continued)
108963-01 : SunOS 5.8_x86: XmlReader fails on an HTTP stream
3414140

108965-04 : SunOS 5.8_x86: /usr/sbin/snoop patch
1110881 4297326 4297676 4304083 4315280 4317713 4321696 4321713 4321720
4321721 4321723 4321725 4321726 4322042 4322055 4322058 4322060 4322064 4322200 4322260
108969-02 : SunOS 5.8_x86: vol/vold/rmmount patch
1206000 4108297 4145529 4205437 4211612 4254816 4255049 4285374 4286446 4292408
4292563 4296452 4298451 4298465 4298563 4303430 4304283 4304289 4305067 4306425
4307495 4307620 4307634 4312778 4313091
108971-01 : SunOS 5.8_x86: /usr/lib/fs/pcfs/fsck and /usr/lib/fs/pcfs/mkfs
patch
4145536 4210625 4256652
108973-04 : SunOS 5.8_x86: /sbin/fdisk patch
4221693 4304790 4347145
108976-03 : SunOS 5.8_x86: /usr/bin/rmformat and /usr/sbin/format patch
4242879 4292212 4304790 4308431 4311553 4322206
108978-01 : SunOS 5.8_x86: libsmedia patch
4292214 4308431 4311553
108980-09 : SunOS 5.8_x86: PCI HotPlug framework and devfsadm patch
4272737 4276021 4303126 4306367 4307062 4307080 4307747 4308727 4309011 4309750
4309802 4309818 4310864 4311126 4311134 4312937 4314121 4314936 4315098 4315100 4315101
4318351 4318747 4319122 4320440 4320471 4321326 4322424 4328067 4329695 4330383 4330429
4330774 4332425 4334198 4335003 4335955 4336443 4337059 4338633 4339732 4341185 4349603
4357092 4357552 4359294 4364048 4365270 4367993 4372712 4386544
108986-02 : SunOS 5.8_x86: /usr/sbin/in.rshd patch
4158689 4305888 4335632
108988-02 : SunOS 5.8_x86: Patch for patchadd and patchrm
4115232 4278860 4299710 4305090 4305126 4306367 4307062 4307080 4307747 4308727 4309011 4309750
108990-02 : SunOS 5.8_x86: acctctl & exactsys patch
4305365 4312278 4313746 4313747 4314201
108992-06 : SunOS 5.8_x86: libc and watchmalloc patch
4193683 4225913 4313746 4313747 4314201
108994-01 : SunOS 5.8_x86: nss and ldap patch
4312278
108996-01 : SunOS 5.8_x86: /usr/lib/libproc.so.1 patch
4312278
108998-03 : SunOS 5.8_x86: libexacct and libproject patch
4305365 4312278 4313746 4313747 4314201

(continued)
109000-01: SunOS 5.8_x86: PAM patch 4312278

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

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

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

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

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

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

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

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

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

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

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

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

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

109030-01: SunOS 5.8_x86: perl patch 4312278

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

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

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

(continued)
4312278

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

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

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

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

109067-03 : SunOS 5.8_x86: NCA Support for Apache Web Server patch
4285881 4294231 4296334 4297125 4297294 4299951 4300202 4300429 4300836
4301047 4303787 4306793 4307672 4307679 4307683 4308402 4311970 4312075 4312396 4313734
4315654 4317634 4318360 4318365 4324351 4326195 4326198

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

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

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

109078-01 : SunOS 5.8_x86:/usr/lib/inet/dhcep patch
4313817

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

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

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

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

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

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

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

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

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

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

109148-07 : SunOS 5.8_x86: linker patch
4040628 4103449 4187211 4210412 4219652 4235315 4239213 4243097 4248250 4250694
4255943 4287274 4297563 4300018 4303609 4306415 4309212 4310324 4311226 4312449
4313765 4316531 4318162 4321634 4322528 4325841 4324434 4324775 4327653 4329785
4334617 4335801 4336102 43369680 43388812 4340878 4341496 4343417 4343801 4344528 4346001
4346144 4346615 4349137 4349563 4351197 4351715 4352233 4352330 4354500 4355795 4356879
4357805 4358751 4358862 4366905 4367118 4367405 4369068

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

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

109158-11 : SunOS 5.8_x86: WOS Message Update and more bug fix for UR3
4350770 4351383 4332965 4337487 4337974 4338502 4341638 4323845
4362981

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

109166-08 : CDE 1.4_x86: dtfile patch
4257760 4256612 4256615 4256616 4256617 4297751 42599270 4287012 42892249 4303367
4297401 4302856 4305084 4305248 4303443 4309156 4308883 4306243 4291444 4286997 4310115
4302740 4301375 4312545 4314867 4312316 4310827 43292266 4316515 4314491 4317156 4317797
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109182-02 : SunOS 5.8_x86: /kernel/fs/cachefs patch
4103817 4166371 4292697 4299056 4299427 4308026 4308068

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109280-08 : SunOS 5.8_x86: /kernel/drv/ip patch
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109327-01 : SunOS 5.8_x86: libresolv.so.2 patch
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109329-01 : SunOS 5.8_x86: ypserv and ypxfr patch
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109355-04 : CDE 1.4_x86: dsession patch
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109385-01 : SunOS 5.8_x86: libaio patch
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