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Preface

The Solaris 9 8/03 Release Notes contain installation problem details and other information that was not available until immediately before the release of the Solaris™ 9 8/03 operating environment.

Note – The Solaris operating environment runs on two platforms, SPARC® and x86. The Solaris environment also runs on 64-bit and 32-bit address spaces. The information in this document pertains to both platforms and address spaces unless otherwise specified in a special chapter, section, note, bulleted item, figure, table, or example.

Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris 9 8/03 operating environment.

Related Books

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

- GNOME 2.0 Desktop Collection
- iPlanet Directory Server 5.1 Collection (Solaris Edition)
- Solaris 9 Start Here
- Solaris 9 Installation Guide
- Solaris 9 8/03 Release Notes, which are available through the following media:
  - The Solaris 9 8/03 Release and Installation Collection on the Solaris 9 8/03 Documentation CD
  - Print documentation that accompanies the product (installation issues and bugs only)
  - http://docs.sun.com (the most up-to-date information)
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For information on current CERT advisories, see the official CERT Web site at http://www.cert.org.

For some hardware configurations, you might need supplemental hardware-specific instructions for installing the Solaris operating environment. If your system requires hardware-specific actions at certain points, the manufacturer of your hardware has provided supplemental Solaris installation documentation. Refer to those materials, such as Solaris 9 Sun Hardware Platform Guide, for hardware-specific installation instructions.

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Typographic Conventions

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

**Shell Prompts in Command Examples**

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

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

Installation Issues

This chapter describes problems that relate to the installation of the Solaris 9 8/03 operating environment.

The following installation bug descriptions have been added to this chapter since this document was published on the Solaris 9 8/03 Documentation CD and in the Installation Kiosk on the Solaris 9 8/03 Installation CD:

- “x86: PXE Boot Fails Using the 3Com 3C905C Network Card (4847803)” on page 22

Issues You Need to Know About Before Installing Solaris 9 8/03 Software

x86: Solaris 9 8/03 Installation CD Partition Issue

If the Solaris™ Web Start 3.0 program on the Solaris 9 8/03 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.

The Solaris Web Start 3.0 program 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 x86-based systems to boot the miniroot that is placed on the newly created swap slice. The swap slice is located on the Solaris fdisk partition.
The installation program on the Solaris 9 8/03 Installation CD creates the x86 boot partition, removing 10 Mbytes from the Solaris fdisk partition. This removal prevents any existing fdisk partitions from being altered.

This partition should not be created manually.

This requirement also prevents you from using the Solaris 9 8/03 Installation CD to upgrade from the Solaris 2.6 or Solaris 7 releases to the Solaris 9 8/03 operating environment. For more information, refer to “Upgrade Issues” on page 23.

x86: Change in Default Boot-Disk Partition Layout

In the Solaris 9 8/03 operating environment, the Solaris Web Start and suninstall installation programs use, by default, a new boot-disk partition layout to accommodate the Service partition on Sun LX50 systems. This installation program enables you to preserve an existing Service partition.

The new default includes the following partitions:

- First partition – Service partition (existing size on system)
- Second partition – x86 boot partition (approximately 11 Mbytes)
- Third partition – Solaris partition (remaining space on the boot disk)

If you want to use this default layout, select Default when the Solaris Web Start or suninstall program asks you to choose a boot-disk layout.

You can also choose to manually edit the disk partition layout by using the fdisk utility. You might want to manually edit the boot-disk partitions under the following conditions:

- You want to preserve an existing Sun Linux partition on the system.
- You need to create a Solaris partition, but want to preserve other existing partitions on the disk.
Note – If your system contains an upgradable version of the Solaris operating environment, but does not contain an x86 boot partition, you might not be able to upgrade by using the Solaris Installation CD. To upgrade a system with no x86 boot partition to the Solaris 9 8/03 operating environment, use the suninstall installation program on the Solaris 9 8/03 Software 1 of 2 CD.

SPARC: Default Solaris JumpStart Profile Might Not Install Multiple Locales on Small Disks

If you use the default Solaris JumpStart™ profile on the Solaris 9 8/03 media to install multiple locales on a system with a small disk, the installation might fail. This problem might occur under the following conditions:

- You use the default Solaris JumpStart profile to install any locale other than the C locale on a system with a 2.1-Gbyte disk.
- You use the default Solaris JumpStart profile to install two or more locales on a system with a 4-Gbyte disk.

x86: Service Partition Not Created by Default on Systems With No Existing Service Partition

If you install the Solaris 9 8/03 operating environment on a system that does not currently include a Service partition, the installation program might not create a Service partition by default. If you are including a Service partition on the same disk as the Solaris partition, you must re-create the Service partition before you install the operating environment.

If you installed the Solaris 8 2/02 operating environment on a Sun LX50 system, the installation program might not have preserved the Service partition. If you did not manually edit the fdisk boot-partition layout to preserve the Service partition, the installation program deleted the Service partition during the installation.

Note – If you did not specifically preserve the Service partition when you installed the Solaris 8 2/02 operating environment, you cannot re-create the Service partition and upgrade to the Solaris 9 8/03 operating environment. You must perform an initial installation of the software.

Workaround: If you are including a Service partition on the disk that contains the Solaris partition, choose one of the following:

- To use the Solaris Web Start installation program to install from the Solaris 9 8/03 Installation CD, follow these steps:
  1. Delete the contents of the disk.
2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.
   For information on how to create the Service partition, see the Sun LX50 Server User's Manual and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com

3. Insert the Solaris 9 8/03 Installation CD in the CD-ROM drive.

4. Begin the installation.
   When the installation program detects the Service partition, the following message is displayed:

   The default layout for the bootdisk is one x86 Boot partition and a Solaris partition on the remaining space. The Service fdisk partition, if one exists, is also preserved by default.

   Select one of the following to continue:

   1) Use the default layout
   2) Run fdisk to manually edit the disk
   3) Exit

   Please make a selection: [?]  

5. Type 1 to use the default layout.
   The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

   **Note** – The Solaris Web Start installation program creates the x86 boot partition by removing 10 Mbytes from the Solaris fdisk partition. This utility prevents any existing fdisk partitions from being altered. Do not create this partition manually.

6. Complete the installation.
   To install from a network installation image or from the Solaris 9 8/03 DVD over the network, follow these steps:

   1. Delete the contents of the disk.
   2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.
      For information on how to create the Service partition, see the Sun LX50 Server User's Manual and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com
   3. Boot the system from the network.
      The Customize fdisk Partitions screen is displayed.
   4. To load the default boot-disk partition layout, click Default.
The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

For more information on booting from the network, see the Solaris 9 Installation Guide.

To use the suninstall program to install from the Solaris 9 8/03 Software 1 of 2 CD or from a network installation image on a boot server, follow these steps:

1. Delete the contents of the disk.
2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.
   
3. Boot the system.
   
   The installation program prompts you to choose a method for creating the Solaris partition.
4. Select the Use rest of disk for Solaris partition option.
   
   The installation program preserves the Service partition and creates the Solaris partition.
5. Complete the installation.
   
   For more information on booting from the network, see the Solaris 9 Installation Guide.

**x86: Solaris Device Configuration Assistant Boot Diskette Is Not Available**

The Solaris 9 Device Configuration Assistant is not delivered as a boot diskette in the Solaris 9 8/03 release. To boot the Device Configuration Assistant, choose one of the following options:

- If your system’s BIOS supports CD booting from a CD, boot from the Solaris 9 8/03 (x86 Platform Edition) Installation CD, the Solaris 9 8/03 Software (x86 Platform Edition) 1 of 2 CD, or the Solaris 9 8/03 Software (x86 Platform Edition) DVD.

- If your system does not support booting from a CD, you can copy the boot-diskette image to a diskette. The boot-diskette image is available on the Solaris 9 8/03 Software (x86 Platform Edition) 2 of 2 CD.

- If your system supports Preboot Execution Environment (PXE) booting and an install image is available on the network, boot from the network.

   Enable the system to use PXE by using the system’s BIOS setup tool or the network adapter’s configuration setup tool.

   For more information, see the Solaris 9 Installation Guide.
x86: Update the DPT PM2144UW Controller BIOS to the Latest Revision Before Upgrading to the Solaris 9 8/03 Operating Environment

The Solaris 9 8/03 operating environment includes a 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. You might need to update other DPT controller models to support LBA.

Workaround: Prior to upgrading your system to the Solaris 9 8/03 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` command.
2. If the name dpt is displayed, run the card’s configuration utility to obtain information about the model and BIOS revision.
3. Upgrade DPT PM2144UW controllers by flashing the BIOS or by installing the latest BIOS EPROM that you have obtained from DPT. See [http://www.dpt.com](http://www.dpt.com) for the latest BIOS images for all DPT controllers.

You can now upgrade the system.

x86: Do Not Upgrade Hewlett-Packard (HP) Vectra XU Series Systems With BIOS Version GG.06.13

The Solaris 9 8/03 operating environment includes a 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. This issue can also affect other HP Vectra systems.

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

Workaround: Do not upgrade HP Vectra XU Series systems with the latest BIOS Version GG.06.13 to the Solaris 9 8/03 operating environment because it no longer supports these systems.

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

Bugs You Need to Know About Before Installing Solaris 9 8/03 Software

Boot From Solaris DVD Fails on Systems With Toshiba SD-M1401 DVD-ROM (4467424)

If your system has a Toshiba SD-M1401 DVD-ROM drive with firmware revision 1007, the system cannot boot from the Solaris 9 8/03 DVD.
Workaround: Apply patch 111649-03, or later version, to update the Toshiba
SD-M1401 DVD-ROM drive’s firmware. Patch 111649-03 is included on the Solaris 9
8/03 Supplement CD in the following directory:

DVD_Firmware/Patches

See the README file in this directory for instructions on how to install the patch. Be sure to read and follow all the cautions and warnings in this README file before you install the patch.

Cannot Access Data on Solaris 9 8/03 DVD in Solaris 2.6 and Solaris 7
Operating Environments (4511090)

If your system is running the Solaris 2.6 or Solaris 7 operating environment, Volume Management incorrectly mounts the Solaris 9 8/03 DVD. The DVD can be mounted, but the data is inaccessible. As a result, you cannot set up an install server, perform a Live Upgrade, or access any data on the media.

Workaround: Choose one of the following workarounds:

- Apply the patches appropriate for your system.

| TABLE 1-1 DVD Patches for the Solaris 2.6 and Solaris 7 Operating Environments |
|---------------------------|---------------------------|
| Release                   | Patch ID                 |
| Solaris 2.6 operating environment | 107618-03 |
| Solaris 7 operating environment | 107259-03 |
| Solaris 2.6 operating environment | 107619-03 |
| Solaris 7 operating environment | 107260-03 |

- Manually mount the Solaris 9 8/03 DVD. Do not use Volume Management to mount the DVD. Follow these steps:
  1. Become superuser.
  2. Stop Volume Management.
     ```
     # /etc/init.d/volmgt stop
     ```
  3. Manually mount the DVD.
     ```
     # mkdir /mnt1
     # mount -F hsfs -o ro /dev/dsk/c0t6d0s0 /mnt1
     ```
  4. Verify that the DVD is mounted and the data is accessible.
     ```
     # cd /mnt1
     # ls
     ```
     The system returns the following information if the DVD is correctly mounted.
Installation Bugs

x86: PXE Boot Fails Using the 3Com 3C905C Network Card (4847803)

If you use the Preboot Execution Environment (PXE) to install the Solaris operating environment by using a 3Com 3C905C network card, the system might hang and fail to boot.

Workaround: Use the 3Com 3C905C network card with the 3Com Managed Boot Agent (MBA) version 4.11 or use a different type of network card.

SPARC: Systems With Multiple Interfaces Recognize All Interfaces as Usable After Installation or Upgrade (4640568)

If you install or upgrade to the Solaris 9 8/03 operating environment on a system with multiple network interfaces, the system recognizes all system interfaces as usable. Interfaces that are not plugged in to the network or that are not intended for use appear in the output of the `ifconfig -a` command. Additionally, interfaces with identical Ethernet addresses might be assigned identical IP addresses. The following error message is displayed:

```
ifconfig: setifflags: SIGCSLIFFLAGS: qfe3: Cannot assign requested address
```

This problem also occurs on systems that have the `local-mac-address` PROM variable set to `false`. The problem occurs because all interfaces are configured with the same IP address.

Workaround: Choose one of the following workarounds:

- To plumb only the configured interface, reboot the system after the initial boot.
- To assign a different IP address to each network interface, set the `local-mac-address` PROM variable to `true` in one of the following ways:
  - At the `ok` prompt, type the following command:
    ```
    ok setenv local-mac-address? true
    ```
  - In a terminal window, type the following command as superuser:
    ```
    # eeprom local-mac-address?=true
    ```

Installation Bugs That Occur During an Installation From Solaris 9 8/03 Software 1 of 2 CD

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

When a file system is created during installation, one of the following warning messages might be displayed:

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

Warning: 1 sector(s) in last cylinder unallocated

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

**Workaround:** Ignore the warning message.

**Bug That Occurs During an Installation or an Upgrade**

**Invalid Error Message Encountered When Installing Solaris WBEM Providers Package SUNWwbpro (4824518)**

When you install the Solaris 9 8/03 operating environment, the following error message is recorded in the `/var/sadm/system/logs/install_log` file:

```
/tmp/Solaris_Application.mof: No such file or directory
```

If you upgrade to the Solaris 9 8/03 operating environment, the same error message is recorded in the `/var/sadm/system/logs/upgrade_log` file.

The message is encountered during the installation of the Solaris WBEM Providers Package (`SUNWwbpro`).

**Workaround:** Ignore the error message. This message does not affect the installation of the package. The error occurs because the installation program attempts to delete a temporary file that does not exist.

**Upgrade Issues**

**Cannot Access Storage Area Networks Through SUNWsan With Solaris 9 8/03 Operating Environment**

If your Solaris 8 system is connected to storage area networks (SANs), check with your support engineer before you upgrade to the Solaris 9 8/03 operating environment. Solaris 8 systems with the `SUNWsan` package installed might require special procedures to upgrade to the Solaris 9 8/03 operating environment. To find out if the `SUNWsan` package is installed on the system, type the following command in a terminal window:

```
# pkginfo SUNWsan
```

If the `SUNWsan` package is installed, the following information is displayed:

```
  system   SUNWsan   SAN Foundation Kit
```
x86: Cannot Use Solaris 9 8/03 (x86 Platform Edition) Installation CD to Upgrade x86 Systems to the Solaris 9 8/03 Operating Environment

You cannot use Solaris 9 8/03 (x86 Platform Edition) Installation CD to upgrade x86-based systems from the Solaris 2.6 or Solaris 7 operating environment to the Solaris 9 8/03 operating environment because of the x86 boot-partition requirement. Use the Solaris 9 8/03 Software (x86 Platform Edition) 1 of 2 CD to upgrade from the Solaris 2.6 or Solaris 7 operating environment to the Solaris 9 8/03 operating environment on x86-based systems.

Solaris Management Console 2.1 Software Is Not Compatible With Solaris Management Console 1.0, 1.0.1, or 1.0.2 Software

Solaris Management Console 2.1 software is not compatible with Solaris Management Console 1.0, 1.0.1, or 1.0.2 software. If you are upgrading to the Solaris 9 8/03 operating environment, and you have Solaris Management Console 1.0, 1.0.1, or 1.0.2 software installed, you must first uninstall the Solaris Management Console software before you upgrade. Solaris Management Console software might exist on your system if you installed the SEAS 2.0 overbox, the SEAS 3.0 overbox, or the Solaris 8 Admin Pack.

Workaround: Choose one of the following workarounds:

- Before you upgrade, use the /usr/bin/prodreg command to perform a full uninstall of Solaris Management Console software.

- If you did not uninstall Solaris Management Console 1.0, 1.0.1, or 1.0.2 software before you upgraded to the Solaris 9 8/03 operating environment, you must first remove all Solaris Management Console 1.0, 1.0.1, or 1.0.2 packages. Use the pkgrm command for package removal instead of the prodreg command. Carefully follow the order of package removal. Complete the following steps:

  1. Become superuser.
  2. Type the following command:

```
  # pkginfo | grep "Solaris Management Console"
```

  If the description does not start with “Solaris Management Console 2.1,” the package names in the output identify a Solaris Management Console 1.0 package.
  3. Use the pkgrm command to remove all instances of Solaris Management Console 1.0 packages in the following order:
**Note** – Do not remove any package that has “Solaris Management Console 2.1” in its description. For example, SUNWmc.2 might indicate Solaris Management Console 2.1 software.

If the pkginfo output displays multiple versions of Solaris Management Console 1.0 packages, use the pkgrm command to remove both packages. Remove the original package and then remove the package that has been appended with a number. For example, if the SUNWmcman and SUNWmcman.2 packages appear in the pkginfo output, first remove the SUNWmcman package and then remove the SUNWmcman.2 package. Do not use the prodreg command.

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

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

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

The Solaris Management Console 2.1 software should now function properly. For future maintenance, or if the Solaris Management Console 2.1 software does not function properly, remove the Solaris Management Console 2.1 software. Reinstall the software by completing the following steps:

1. Use the pkgrm command to remove all Solaris Management Console 2.1 packages and dependent packages in the following order:

   **Note** – If your installation has multiple instances of Solaris Management Console 2.1 packages, such as SUNWmc and SUNWmc.2, first remove SUNWmc, and then SUNWmc.2. Do not use the prodreg command.

   ```bash
   # pkgrm SUNWpmgr
   # pkgrm SUNWrsmui
   # pkgrm SUNW1vmg
   # pkgrm SUNW1vma
   # pkgrm SUNW1vmr
   # pkgrm SUNW4clint
   # pkgrm SUNWega
   # pkgrm SUNWega
   # pkgrm SUNWmcdev
   # pkgrm SUNWmcex
   # pkgrm SUNWwbmc
   # pkgrm SUNWmc
   ```

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2. Insert the Solaris 9 8/03 Software 1 of 2 CD into your CD-ROM drive. Type the following in a terminal window:

```
# cd /cdrom/sol_9_803_sparcia/s0/Solaris_9/Product
# pkgadd -d . SUNWmccom SUNWmcc SUNWmc SUNWwbmc SUNWmcex SUNWmcdev \ 
  SUNWmapp SUNWmega SUNWdolnt SUNWlvmr SUNWlvma SUNWlvmg SUNWpmgr \ 
  SUNWrmui
```

All previous Solaris Management Console versions are removed. The Solaris Management Console 2.1 software is now functional.

### Installation Bugs That Occur During an Upgrade

#### Problem With the `luupgrade` Command When Installing a Solaris Flash Differential Archive (4890708)

If you have created a new boot environment with Solaris Live Upgrade, you cannot install a Solaris Flash differential archive on the new boot environment by using the `luupgrade` command. The following error message is displayed:

```
/usr/sbin/luupgrade[607]: ludo: not found
```

A Solaris Flash differential archive is a minor update to the operating environment on a boot environment that has been upgraded with a Solaris Flash archive.

**Workaround:** To enable the use of the `luupgrade` command to install a differential archive, edit the `/etc/default/lu` file. Change the existing PATH variable setting so that `/etc/lib/lu` is the first component in the path.

Do not use this path:

```
PATH=/etc:/sbin:/usr/bin:/usr/sbin:$PATH
```

Change the path to the following:

```
PATH=/etc/lib/lu:/etc:/sbin:/usr/bin:/usr/sbin:$PATH
```

For more information, see the **Solaris 9 Installation Guide**.

#### Upgrade Fails to Install `SUNWceudt` Package (4826785)

If you upgrade from the Solaris 9, Solaris 9 9/02, Solaris 9 12/02, or Solaris 9 4/03 operating environment to the Solaris 9 8/03 release, the following errors occur when you use the `pkgchk` command with the `-n` option:

```
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/datatypes.dt pathname does not exist
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/develop.dt pathname does not exist
```

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ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtfile.dt
pathname does not exist
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtmail.dt
pathname does not exist
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtpad.dt
pathname does not exist
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/print.dt
pathname does not exist
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/uxstd.dt
pathname does not exist

**Workaround:** Use the Solaris 9 8/03 DVD or the Solaris 9 8/03 Software 1 of 2 CD to add back the SUNWceudt package. Follow these steps:

1. Become superuser.
2. Remove the SUNWceudt package.
   ```bash
   # pkgrm SUNWceudt
   ```
3. Change directories to the product directory.
   ```bash
   # cd path-to-Solaris-9/Product
   ```
4. Add the SUNWceudt package.
   ```bash
   # pkgadd -d `pwd` SUNWceudt
   ```

**Installer Text Display Problem When Using Solaris Live Upgrade (4736488)**

When using the Solaris Live Upgrade `luupgrade(1M)` command with the `-i` option to complete an upgrade of an inactive boot environment, the text that the installers display might be unreadable in some languages. The text is corrupted when the installers request fonts that do not exist on the older release that is on the current boot environment.

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

- Use a combined network installation image to do the install.
- Enable the C locale by setting the environment variable on your system.
  
  - If you are using the Bourne shell or Korn shell, follow these steps:
    1. Set the C locale.
       ```bash
       # LANG=C; export LANG
       ```
    2. Begin the installation.
    - If you are using the C shell, follow these steps:
      1. Type the following:
         ```bash
         # csh
         ```
      2. Set the C locale.
         ```bash
         # setenv LANG C
         ```
3. Begin the installation.

**SPARC: Removal of SUNWjxcft Package Records Error During Upgrade (4525236)**

When you upgrade from the Solaris 8 operating environment to the Solaris 9 or the Solaris 9 8/03 operating environment, a problem is encountered when the SUNWjxcft package is removed. The following error message is recorded in the upgrade_log file:

Removing package SUNWjxcft:
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.upr
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.scale
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.alias
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.upr
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.scale
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.alias
Removal of <SUNWjxcft> was successful

**Workaround:** Ignore the error message.

**Upgrading to Solaris 9 8/03 Operating Environment Might Disable Existing Secure Shell Daemon (sshd) (4626093)**

If you upgrade to the Solaris 9 8/03 operating environment on a system that is running a third-party Secure Shell, such as OpenSSH, from the /etc/init.d/sshd daemon, the upgrade disables the existing Secure Shell daemon. During an upgrade, the Solaris 9 8/03 upgrade software overwrites the contents of /etc/init.d/sshd.

**Workaround:** Choose one of the following workarounds:
- If you do not want the Secure Shell protocol server program on your system, do not install the SUNWsshdr and SUNWsshdu packages during the upgrade.
- If you do not want the Secure Shell protocol server or client programs on your system, do not install the Secure Shell Cluster (SUNWCssh) during the upgrade.

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

If the /export directory is near full capacity and you upgrade to the Solaris 9 8/03 operating environment, space requirements for /export are miscalculated. The upgrade then fails. This problem commonly occurs if a diskless client is installed, or if third-party software is installed in the /export directory. The following message is displayed:

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

**Workaround:** Before you upgrade, choose one of the following workarounds:
- Rename the /export directory temporarily, until the upgrade is completed.
- Temporarily comment out the /export line in the /etc/vfstab file until the upgrade is completed.
If `/export` is a separate file system, then unmount `/export` before you perform the upgrade.

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

If your system currently supports diskless clients that were installed with the Solstice AdminSuite™ 2.3 Diskless Client tool, you must perform two steps. First, delete all existing diskless clients that are the same Solaris version and architecture as the server. Then, install or upgrade to the Solaris 9 8/03 operating environment. For specific instructions, see the *System Administration Guide: Basic Administration*.

If you attempt to install the Solaris 9 8/03 operating environment over existing diskless clients, the following error message might be displayed:

The Solaris Version (Solaris version-number) on slice <xxxxxxxx> cannot be upgraded.
There is an unknown problem with the software configuration installed on this disk.

In this error message, `version-number` refers to the Solaris version that is currently running on your system. `<xxxxxxxx>` refers to the slice that is running this version of the Solaris operating environment.

**Installation Bugs That Occur After an Upgrade**

**SPARC: Removing Patches After Upgrade Might Corrupt WBEM Repository (4820614)**

The WBEM Repository CIM database can be corrupted under the following conditions:

- You apply a revision of patch 112945 for a Solaris 9 release to a system that is running the Solaris 9 operating environment.
- You then remove the patch that was applied to the system.

If the WBEM Repository is corrupted, the following error message is displayed in the Solaris Management Console Log Viewer:

```bash
CIM_ERR_FAILED: /usr/sadm/lib/wbem/../../../../var/sadm/wbem/logr/preReg/PATCH113829install/Solaris_Application.mof,18,ERR_SEM, ERR_EXC_SET_CLASS,CIM_ERR_FAILED:Other Exception: java.io.StreamCorruptedException: invalid stream header
```

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

- Follow these steps to prevent the WBEM Repository from being corrupted:
  1. Become superuser.
  2. Before you apply the patch, back up the WBEM Repository.

```bash
# cp -r /var/sadm/wbem/logr path/logr
```
Where *path* is the path to the backup WBEM Repository.

3. If the WBEM Repository is corrupted after you back out the patch, stop the WBEM server.
   
   # /etc/init.d/init.wbem stop

4. Restore the backup WBEM Repository.
   
   # cp -rf path/logr /var/sadm/wbem/logr

5. Restart the WBEM server.
   
   # /etc/init.d/init.wbem start

Follow these steps to create a new WBEM Repository:

---

**Note** – This workaround does not restore the WBEM data if the WBEM Repository is corrupted. Any data that was added to the repository during the installation is lost.

---

1. Become superuser.

2. Stop the WBEM server.
   
   # /etc/init.d/init.wbem stop

3. Remove the files from the /logr directory.
   
   # rm /var/sadm/wbem/logr/*

4. Remove the /notFirstTime directory.
   
   # rmdir notFirstTime

5. Start the WBEM server.
   
   # /etc/init.d/init.wbem start

6. Manually compile any proprietary Managed Object Format (MOF) files.
   
   # /usr/sadm/bin/mofcomp MOF-filename

---

### 64-Bit Solaris Issue

**SPARC: Sun UltraSPARC System (Sun4u) Might 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 might need to update its flash PROM firmware. The Solaris 9 8/03 installation programs enable you to add 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 that are needed. System type is the equivalent of the output of the `uname -i` command. You can determine which firmware version you are running by using the `prtconf -V` command.

**TABLE 1–2 Minimum Firmware Versions Required to Run 64–Bit Solaris Operating Environment on UltraSPARC Systems**

<table>
<thead>
<tr>
<th>System Type From <code>uname -i</code></th>
<th>Minimum Firmware Version From <code>prtconf -V</code></th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNW,Ultra-1-Engine</td>
<td>3.10.0</td>
</tr>
<tr>
<td>SUNW,Ultra-1</td>
<td>3.11.1</td>
</tr>
<tr>
<td>SUNW,Ultra-2</td>
<td>3.11.2</td>
</tr>
<tr>
<td>SUNW,Ultra-4</td>
<td>3.7.107</td>
</tr>
<tr>
<td>SUNW,Ultra-Enterprise</td>
<td>3.2.16</td>
</tr>
</tbody>
</table>

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

For instructions on how to perform the flash PROM update by using the Solaris CD, refer to the Solaris 9 on Sun Hardware Collection. If you do not have this manual, you can obtain it at [http://docs.sun.com](http://docs.sun.com).

**Documentation CD Issue**

**Cannot Install Documentation Packages With Names Longer Than Nine Characters on Documentation Servers Running the Solaris 2.6, 7, and 8 Operating Environments**

Some localized documentation collections in PDF format have package names that are longer than nine characters. To install these PDF collections on servers that are running the Solaris 7 or 8 operating environment, you must first install two patches.
Note — No patches exist at the time of this release for Solaris 2.6 servers.

**Workaround:** For instructions on how to install these patches, see the Solaris Documentation Important Information file on the documentation media, Solaris 9 8/03 Documentation CD 1 of 2, 2 of 2, or DVD. This file is located in the following directory:

`mount-point/README/locale/install_locale.html`

For example, the English file on the Solaris 9 8/03 Documentation CD 1 of 2 is located in the following directory:

`sol_9_doc_1of2/README/C/install_C.html`

**Documentation CD Installation Bugs**

**Uninstall Mode of Solaris 9 8/03 Documentation CD uninstaller Utility Does Not Work Properly (4675797)**

If you run the Solaris 9 8/03 Documentation CD uninstaller in Uninstall All mode, the uninstaller removes only those documentation packages that are installed by default.

**Workaround:** Run the uninstaller in Uninstall Partial mode. Select the specific packages you want to uninstall.

**Documentation CD Verify Panel Might Not Page in Command-Line Interface Mode (4520352)**

If you use the Solaris 9 8/03 Documentation CD installer program with the `nodisplay` option, the verify panel might not page correctly.

**Workaround:** Do not specify the `nodisplay` option with the Solaris 9 8/03 Documentation CD installer program. Use the graphical user interface (GUI) mode to install the Solaris 9 8/03 Documentation CD.

**Localization Issue That Occurs During Installation**

**Additional Related Locales Might Be Installed**

When you select a locale for your installation, additional related locales might also be installed. This change in behavior occurs in the Solaris 9 8/03 operating environment because all full locales, with message translations, and the Asian and Japanese partial locales, locale enabler, have been repackaged based on language support for locales. Other partial locales are still packaged and installed based on geographic region, such as Central Europe.
Localization Bugs That Occur During Installation

**Solaris 9 Beta Refresh Chinese CDE Font Packages Do Not Upgrade to Solaris 9 8/03 Operating Environment (4653908)**

If you upgrade to the Solaris 9 8/03 operating environment on a system that runs the Solaris 9 Beta Refresh operating environment with Simplified Chinese or Traditional Chinese locale support, the upgrade is not completed successfully. The Simplified Chinese and Traditional Chinese CDE font localization packages (SUNWcdft or SUNWhdft) do not upgrade to the appropriate Solaris 9 8/03 packages. The following error message is displayed:

Removing package SUNWcdft:
/a/var/sadm/pkg/SUNWcdft/install/postremove:
/a/usr/dt/config/xfonts/zh_CN.EUC: does not exist
/a/var/sadm/pkg/SUNWcdft/install/postremove:
/a/usr/dt/config/xfonts/zh_CN.GBK: does not exist
/a/var/sadm/pkg/SUNWcdft/install/postremove:
/a/usr/dt/config/xfonts/zh_CN.UTF-8: does not exist
pkgrm: ERROR: postremove script did not complete successfully

**Workaround:** Before you upgrade to the Solaris 9 8/03 operating environment, remove the appropriate Solaris 9 Beta Refresh postremove files.

```
# rm /var/sadm/pkg/SUNWcdft/install/postremove
# rm /var/sadm/pkg/SUNWhdft/install/postremove
```

**Upgrading Systems Running Solaris 8 Operating Environment With Full Thai/Russian/Polish/Catalan Support Leaves Invalid Packages on System (4650059)**

An upgrade to the Solaris 9 8/03 operating environment on a system that runs the Solaris 8 operating environment with the Solaris 8 Language Supplement CD installed, results in several invalid packages. Thai, Russian, Polish, and Catalan locale packages remain on the system. These locale packages have an ARCH=sparcall value and are not removed during the upgrade to the Solaris 9 8/03 operating environment.

**Workaround:** Before you upgrade to the Solaris 9 8/03 operating environment, use the Solaris Product Registry application to remove the Solaris 8 Languages Supplement CD packages.
Solaris Runtime Issues

This chapter describes runtime issues that are known to be problems.

The following runtime bug descriptions have been added to this chapter since this document was published on the Solaris 9 8/03 Documentation CD and in the Installation Kiosk on the Solaris 9 8/03 Installation CD:

- “Using the UFS noatime and logging Mount Options Can Result in File System Corruption (4884138)” on page 62
- “x86: Corrupted Text Is Displayed When You Run qmon Application (4649547)” on page 36
- “x86: e1000g Interface Might Fail Using IPv6 (4874857)” on page 45
- “x86: Unable to Establish Sun4U Diskless Client (4878696)” on page 38

Smart Card Bugs

System Does Not Respond to Smart Card (4415094)

If ocfserv terminates and the display is locked, the system remains locked even when a smart card is inserted or removed.

Workaround: Perform the following steps to unlock your system:

1. Perform a remote login to the machine on which the ocfserv process terminated.
2. Become superuser.
3. Kill the dtsession process by typing the following in a terminal window.
   ```bash
   # pkill dtsession
   ```

ocfserv restarts and smart card login and capability are restored.
Edit Config File Menu Item in Smartcards Management Console Does Not Work (4447632)

The Edit Config File menu item in the Smartcards Management Console does not edit smart card configuration files that are located in /etc/smartcard/opencard.properties. If the menu item is selected, a warning is displayed that indicates not to continue unless requested by technical support.

**Workaround:** Do not use the Edit Config File menu item in the Smartcards Management Console. For information on smart card configuration, see the Solaris Smartcard Administration Guide.

Common Desktop Environment (CDE) Bugs

**x86: Corrupted Text Is Displayed When You Run qmon Application (4649547)**

If you are running the qmon application, the screen might display corrupted text.

**Workaround:** Download and install patch 114602-03. You can find this patch at http://sunsolve.sun.com.

**CDE Removable Media Auto Run Capability Removed (4634260)**

The Removable Media auto run capability in the CDE desktop environment has been temporarily removed from the Solaris 9 8/03 operating environment.

**Workaround:** To use the auto run function for a CD-ROM or another removable media volume, you must do one of the following:

- Run the volstart program from the top level of the removable media file system.
- Follow the instructions that are included with the CD for access from outside of CDE.

**SPARC: dtmail Crashes When Launched From the Command Line if FontList Option Is Specified (4677329)**

dtmail crashes after connecting with the IMAP server if the FontList option is specified when dtmail is launched from the command line. See the following example:

```
/usr/dt/bin/dtmail -xrm "Dtmail*FontList: -*r-normal-*:"
```

The following error message is displayed:

Segmentation Fault

This problem occurs in both the C and ja locales.

**Workaround:** Do not specify the FontList option when you launch dtmail from the command line.
CDE Mailer Appears to Hang While Displaying Email With Long Lines (4418793)

If you try to read an email message with many long lines in any of the Solaris 9 8/03 Unicode or UTF-8 locales, CDE Mailer (dt:mail) appears to hang. The message does not display immediately.

Workaround: Choose one of the following workarounds:

- Enlarge the dt:mail Mailbox window to accommodate 132 columns.
- Disable the Complex Text Layout feature by following these steps:
  1. Become superuser.
  2. Change directories to your system’s locale directory.
     ```
     # cd /usr/lib/locale/locale-name
     ```
     In the previous example, `locale-name` refers to the name of your system’s Solaris 9 8/03 Unicode or UTF-8 locale.
  3. Rename the locale layout engine category.
     ```
     # mv LO_LTYPE LO_LTYPE-
     ```

    **Note** – Rename the category for the locale layout engine to the original name (LO_LTYPE) before you apply any patches to the locale layout engine.

---

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

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

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

---

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

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

Workaround: Back up your data on your personal computer with the PDA backup utility before you run the Solaris™ PDASync application. If you accidentally exchange multibyte data and corrupt that data, restore your data from the backup.
GNOME 2.0 Issues and Bugs

GNOME 2.0 Documentation

For release notes and troubleshooting information for the GNOME 2.0 desktop, see the following documents at http://docs.sun.com:

- GNOME 2.0 Desktop for the Solaris Operating Environment Release Notes
- GNOME 2.0 Desktop for the Solaris Operating Environment Troubleshooting Guide

System Administration Bugs

x86: Unable to Establish Sun4U Diskless Client (4878696)

If you try to add the Sun4U™ diskless service on an x86 server, the following error is displayed:

```
Jun 12 17:02:48 s12-9 WBEM_Logging_Service[1810]: Failed to create clone area /export/root/clone/Solaris_9/sun4u.
Failed to create clone area /export/root/clone/Solaris_9/sun4u.
```

The wbem_log had the following error:

```
strings /var/sadm/wbem/log/wbem_log | grep SUNWidecr
Solaris_OsService@@@0@@@root@@@s12-9@@@a10548564670799@@@System
command return value.@#@System command, /usr/sbin/pkgadd -S -n -R
/export/root/clone/Solaris_9/sun4u -a /tmp/admin.Qwayvg -d
/export/root/templates/Solaris_9/SUNWidecr_4.1, REV=2001.03.02.13.55_sparc.sun4u
all, returned value of:
/export/root/clone/Solaris_9/sun4u/var/sadm/pkg/SUNWidecr/install/postinstall:
test: argument expected
Installation of SUNWidecr failed.
```

**Note** – It is possible to add a Sun4U diskless client to a SPARC server.

Workaround: None.

/etc/named.conf File Causes Solaris Management Console Operations on User and Group Accounts to Fail (4777931)

If you use Solaris Management Console to perform operations on a User or Group account on a system that serves as a Domain Name Service (DNS) server, and the /etc/named.conf file exists on that system, errors occur.

The following errors occur when you perform these operations from the GUI or when you use smuser and smgroup, which are command-line interfaces for the console.
The console launches a new dialog box or the `smuser` command exits with the following error messages when operated on a User:

"The attempt to view Users or Roles has failed due to an unexpected error. This was caused by the following error: CIM_ERR_FAILED."

The console launches a new dialog box or the `smgroup` command exits with the following error message when operated on a Group:

"Attempted Read of Group IDs failed with unexpected CIM error: CIM_ERR_FAILED." operations from the GUI or command-line interface.

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

- To solve this problem by restarting the DNS server, follow these steps:
  1. Become superuser.
  2. Move the `named.conf` file to a different directory. For example:
     ```
     # mv /etc/named.conf /var/named/named.conf
     ```
  3. Restart the DNS server.
     ```
     # pkill -9 in.named
     # /usr/sbin/in.named /var/named/named.conf
     ```

- To solve this problem by restarting the WBEM server, follow these steps:
  1. Become superuser.
  2. Using a text editor, edit the
     Replace the `/etc/named.conf` string with `/tmp/new-filename`

  ```
  Note – Ensure that the file name that you choose does not already exist on the system.
  ```

  3. Stop WBEM server.
     ```
     # /etc/init.d/init.wbem stop
     ```
  4. Start the WBEM server
     ```
     # /etc/init.d/init.wbem start
     ```

For more information, see the `smuser(1M)` and the `smgroup(1M)` man pages.
x86: Pressing the F4 Key During BIOS Bootup Fails to Boot the Service Partition (4782757)

You are booting a Sun LX50 which has a Service partition and the Solaris 9 8/03 (x86 Platform Edition) operating environment is installed. You are given the option of pressing the F4 function key to boot the Service partition. However, pressing F4 causes the screen to go blank and the system fails to boot the Service partition.

Workaround: Do not press the F4 key when the BIOS Bootup Screen is displayed. After a time-out period, the Current Disk Partition Information screen is displayed. Select the number in the Part# column that corresponds to type=DIAGNOSTIC and press the Return key. The system boots the Service partition.

UltraSPARC II CP Event Message in Solaris 9 8/03 Operating Environment Not Always Produced (4732403)

In the Solaris 9 8/03 operating environment, on UltraSPARC II based systems, the CP Event message that accompanies some Uncorrectable Memory Error messages is not always produced. These include the following systems:

- Sun Enterprise™ 10000
- Sun Enterprise 6500
- Sun Enterprise 6000
- Sun Enterprise 5500
- Sun Enterprise 5000
- Sun Enterprise 4500
- Sun Enterprise 4000
- Sun Enterprise 3500
- Sun Enterprise 3000

The result is that some information needed to identify a failing CPU might not always be present.

Workaround: For the latest information regarding this issue, check the SunSolve℠ Web site at http://sunsolve.sun.com

Solaris WBEM Services 2.5 Daemon Cannot Locate com.sun Application Programming Interface Providers (4619576)

The Solaris WBEM Services 2.5 daemon cannot locate providers that are written to the com.sun.wbemprovider interface or to the com.sun.wbem.provider20 interface. Even if you create a Solaris_ProviderPath instance for a provider that is written to these interfaces, the Solaris WBEM Services 2.5 daemon does not locate the provider.

Workaround: To enable the daemon to locate such a provider, stop and restart the Solaris WBEM Services 2.5 daemon.

```
# /etc/init.d/init.wbem stop
# /etc/init.d/init.wbem start
```
If you use the javax API to develop your provider, you do not need to stop and restart the Solaris WBEM Services 2.5 daemon. The Solaris WBEM Services 2.5 daemon dynamically recognizes javax providers.

Some com.sun Application Programming Interface Method Invocations Fail Under XML/HTTP Transport Protocol (4497393, 4497399, 4497406, 4497411)

If you choose to use the com.sun application programming interface rather than the javax application programming interface to develop your WBEM software, only CIM remote method invocation (RMI) is fully supported. Other protocols, such as XML/HTTP, are not guaranteed to work completely with the com.sun application programming interface.

The following table lists examples of invocations that execute successfully under RMI but fail under XML/HTTP:

<table>
<thead>
<tr>
<th>Method Invocation</th>
<th>Error Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIMClient.close()</td>
<td>NullPointerException</td>
</tr>
<tr>
<td>CIMClient.execQuery()</td>
<td>CIM_ERR_QUERY_LANGUAGE_NOT_SUPPORTED</td>
</tr>
<tr>
<td>CIMClient.getInstance()</td>
<td>CIM_ERR_FAILED</td>
</tr>
<tr>
<td>CIMClient.invokeMethod()</td>
<td>XMLERROR: ClassCastException</td>
</tr>
</tbody>
</table>

Cannot Modify File-System Mount Properties With Solaris Management Console Mounts and Shares Tool (4466829)

The Solaris Management Console Mounts and Shares tool cannot modify mount options on system-critical file systems such as root (/), /usr, and /var.

Workaround: Choose one of the following workarounds:

- Use the remount option with the mount command.
  ```bash
  # mount -F file-system-type -o remount,additional-mount-options \
  device-to-mount mount-point
  ```

  Note – Mount property modifications that are made by using the -remount option with the mount command are not persistent. In addition, all mount options that are not specified in the additional-mount-options portion of the previous command inherit the default values that are specified by the system. See the man page mount_ufs(1M) for more information.

- Edit the appropriate entry in the /etc/vfstab file to modify the file-system mount properties, then reboot the system.
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 is low on memory. You must reset the CIM Object Manager Repository.

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

1. Become superuser.
2. Stop the CIM Object Manager.
   ```
   # /etc/init.d/init.wbem stop
   ```
3. Remove the JavaSpaces™ log directory.
   ```
   # /bin/rm -rf /var/sadm/wbem/log
   ```
4. Restart the CIM Object Manager.
   ```
   # /etc/init.d/init.wbem start
   ```

Note – When you reset the CIM Object Manager Repository, you lose any proprietary definitions in your data store. You must recompile the MOF files that contain those definitions by using the mofcomp command. See the following example:

   ```
   # /usr/sadm/bin/mofcomp -u root -p root-password your-mof-file
   ```

Solaris Volume Manager Issue

Solaris Volume Manager metattach Command Might Fail

If you have a Solaris Volume Manager mirrored root (/) file system in which the file system does not start on cylinder 0, all submirrors you attach must also not start on cylinder 0.

If you attempt to attach a submirror starting on cylinder 0 to a mirror in which the original submirror does not start on cylinder 0, the following error message is displayed:

```
can’t attach labeled submirror to an unlabeled mirror
```

Workaround: Choose one of the following workarounds:

- Ensure that both the root file system and the volume for the other submirror start on cylinder 0.
- Ensure that both the root file system and the volume for the other submirror do not start on cylinder 0.
Note – By default, the JumpStart installation process starts swap at cylinder 0 and the root (/) file system somewhere else on the disk. Common system administration practice is to start slice 0 at cylinder 0. Mirroring a default JumpStart installation with root on slice 0, but not cylinder 0, to a typical secondary disk with slice 0 that starts at cylinder 0, can cause problems. This mirroring results in an error message when you attempt to attach the second submirror. For more information about the default behavior of Solaris installation programs, see the Solaris 9 Installation Guide.

Solaris Volume Manager Bugs

Solaris Volume Manager \texttt{metahs -e} Command Fails on Copper Cable Storage Boxes When Failed Hot Spare Disk Has Been Swapped Out (4644106)

The \texttt{metahs -e} command might fail if you encounter the following circumstances:

1. A hot-spare device encounters a problem, such as an induced error, when using the \texttt{metaverify} test utility.
2. Solaris Volume Manager software attempts to activate the hot spare when an error occurs on a metadevice. The hot spare is marked \texttt{broken}.
3. The system is brought down. The failed disk that contains the hot spare is replaced with a new disk at the same location.
4. When the system is booted, Solaris Volume Manager software does not recognize the new hot spare.
5. The \texttt{metahs -e} command is used to enable the hot spare on the new disk.

The following message is displayed:

\texttt{WARNING: md: d0: open error of hotspare (Unavailable)}

The failure occurs because the Solaris Volume Manager software does not internally recognize the new hot-spare disk that was swapped into the same physical location. The Solaris Volume Manager software continues to display the device ID of the disk that is no longer in the system.

Note – This failure is not known to occur on a Photon or storage enclosures where the device number changes when a disk is replaced.

Workaround: Choose one of the following workarounds:

- Follow these steps to update the device ID for the hot-spare disk in the Solaris Volume Manager state database:
  1. Become superuser.
2. Type the following command to update the device ID for the hot-spare:

   # metadevadm -u logical-device-name

3. Type the following command to make the new hot-spare disk available:

   # metareplace -e logical-device-name

Follow these steps to manage hot spares and hot-spare pools on the system:

1. Become superuser.

2. Type the following command to delete the entry for the hot-spare slice:

   # metahs -d hsp hot-spare-pool-number logical-device-name

3. Type the following command to create a new entry for the hot-spare slice at the same location with the correct device ID:

   # metahs -a hsp hot-spare-pool-number logical-device-name

**Solaris Volume Manager metadevadm Command Fails if Logical Device Name No Longer Exists (4645721)**

You cannot replace a failed drive with a drive that has been configured with the Solaris Volume Manager software. The replacement drive must be new to Solaris Volume Manager software. If you physically move a disk from one slot to another slot on a Photon, the metadevadm command fails. This failure occurs when the logical device name for the slice no longer exists. However, the device ID for the disk remains present in the metadevice replica. The following message is displayed:

Unnamed device detected. Please run `devfsadm && metadevadm -r` to resolve.

**Note** – You can access the disk at the new location during this time. However, you might need to use the old logical device name to access the slice.

**Workaround:** Physically move the drive back to its original slot.

**Solaris Volume Manager metarecover Command Fails to Update metadb Namespace (4645776)**

If you remove and replace a physical disk from the system, and then use the metarecover -p -d command to write the appropriate soft partition specific information to the disk, an open failure results. The command does not update the metadevice database namespace to reflect the change in disk device identification. This condition causes an open failure for each such soft partition that is built on top of the disk. The following message is displayed:

Open Error

**Workaround:** Create a soft partition on the new disk instead of using the metarecover command to recover the soft partition.
Note – If the soft partition is part of a mirror or RAID 5, use the metareplace command without the -e option to replace the old soft partition with the new soft partition.

```
# metareplace dx mirror or RAID 5 old_soft_partition new_soft_partition
```

Networking Bugs

**x86: e1000g Interface Might Fail Using IPv6 (4874857)**

A system with IPv6 configured on an e1000g interface might not respond to “Neighbor Solicitation” messages from a remote machine. Consequently, remote machines might not be able to communicate with the target system by using IPv6.

**Workaround:** Stop and restart the IPv6 interface by using the following steps:

1. Become superuser.
2. Shut down the IPv6 interface.
   ```
   # ifconfig e1000g0 inet6 down
   ```
3. Restart the IPv6 interface.
   ```
   # ifconfig e1000g0 inet6 up
   ```

   You can now communicate with this target system by using IPv6 from the remote system.

   The ifconfig commands shut down and restart the IPv6 interface. You can add these commands to the system’s level-3 boot scripts to automate the workaround steps.

**Configuring Multiple Tunnels Between Two IP Nodes With Filtering Enabled Might Result in Packet Loss (4152864)**

If you configure multiple IP tunnels between two IP nodes, and enable `ip_strict_dst_multihoming` or other IP filters, packet loss might result.

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

- First, configure a single tunnel between the two IP nodes. Add addresses to the tunnel by using the ifconfig command with the addif option.
- Do not enable `ip_strict_dst_multihoming` on tunnels between two IP nodes.
Security Bugs

Unlocking CDE Screenlock Removes Kerberos Version 5 Credentials (4674474)

If you unlock a locked CDE session, all your cached Kerberos version 5 (krb5) credentials might be removed. The result is you might not be able to access various system utilities. This problem occurs under the following conditions:

- In the /etc/pam.conf file, the dtssession services for your system are configured to use the krb5 module by default.
- You lock your CDE session, and then try to unlock the session.

If this problem occurs, the following error message is displayed:

```
lock screen: PAM-KRB5 (auth): Error verifying TGT with host/host-name: Permission denied in replay cache code
```

**Workaround:** Add the following non-pam_krb5 dtssession entries to the /etc/pam.conf file:

```
dtssession auth requisite pam_authtok_get.so.1
dtssession auth required pam_unix_auth.so.1
```

With these entries in the /etc/pam.conf file, the pam_krb5 module does not run by default.

**cron, at, and batch Cannot Schedule Jobs for Locked Accounts (4622431)**

In the Solaris 9 8/03 operating environment, locked accounts are treated in the same way as expired or nonexistent accounts. As a result, the cron, at, and batch utilities cannot schedule jobs on locked accounts.

**Workaround:** To enable locked accounts to accept cron, at, or batch jobs, replace the password field of a locked account (*LK*) with the string NP, for no password.

Additional Software Bug

**SPARC: Veritas Volume Manager Might Fail on Systems Running Solaris 9 8/03 Operating Environment (4642114)**

If you try to perform various tasks with Veritas Volume Manager on a system that is running the Solaris 9 8/03 operating environment, the vxddladm addjob or vxddladm addsupport utilities might produce a core dump.

**Workaround:** Follow these steps:

1. Become superuser.
2. Verify that the /var/ld/ld.config file and /usr/bin/crle utility exist on the system.
3. Type the following commands in a terminal window:
Documentation CD Issues

**iPlanet Directory Server 5.1 Documentation Links Do Not Work Properly**

In the iPlanet™ Directory Server 5.1 Collection (Solaris Edition), links titled DocHome and links between separate books do not work. If you select these links, your browser displays a Not Found error.

**Workaround:** To navigate between iPlanet Directory Server 5.1 documents on your system, go to the iPlanet Directory Server 5.1 Collection (Solaris Edition) page at http://docs.sun.com Click the link to the document you want to view.

**SUNWsdocs Package Necessary to Remove Other Documentation Packages**

If you remove the SUNWsdocs package, then try to remove other documentation packages, the removal fails. This problem occurs because the SUNWsdocs package is installed with any collection and provides the browser entry point.

**Workaround:** If you removed the SUNWsdocs package, reinstall the SUNWsdocs package from the documentation media and then remove the other documentation packages.

Documentation CD Bugs

**European Locale PDF Documents Available Only Through C Locale (4674475)**

In the Solaris 9 8/03 operating environment, and other UNIX-based systems, PDF documents on the Solaris 9 8/03 Documentation 1 of 2 CD are not accessible in the following European locales:

- de (German)
- es (Spanish)
- fr (French)
- it (Italian)
- sv (Swedish)

This problem occurs because of a limitation with Adobe Acrobat Reader. For more information on this problem, see the Adobe Technote site at http://www.adobe.com:80/support/techdocs/294de.htm.

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

- In the Solaris 9 8/03 operating environment, and other UNIX-based systems, set the environment variable LC_ALL to C acroread. For example, in the C shell, type the following command in a terminal window:
Upgrade to Adobe Acrobat Reader 5.0 or later version.

Removing Solaris 9 8/03 Documentation Packages Might Unexpectedly Uninstall Some Solaris 9 8/03 Documentation Collections (4641961)

Some Solaris 9 8/03 documentation collections might be unexpectedly removed from your system if the following occurs:

1. You install both the Solaris 9 8/03 Documentation 1 of 2 and 2 of 2 CDs on your system.
2. You then use the prodreg utility or the Solaris 9 8/03 Documentation CD installer program to remove certain documentation packages.

The Solaris 9 8/03 Documentation CD 1 of 2 and 2 of 2 have three collections in common. If you remove the packages that contain these collections from either of the Solaris 9 8/03 Documentation 1 of 2 or 2 of 2 CD installations, the package is removed for both installations.

The following table lists the packages that might be removed unexpectedly:

<table>
<thead>
<tr>
<th>HTML Package Names</th>
<th>PDF Package Names</th>
<th>Collection Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUNWaadm</td>
<td>SUNWpaadm</td>
<td>Solaris 9 System Administrator Collection</td>
</tr>
<tr>
<td>SUNWdev</td>
<td>SUNWpdev</td>
<td>Solaris 9 Developer Collection</td>
</tr>
<tr>
<td>SUNWids</td>
<td>SUNWpids</td>
<td>iPlanet Directory Server 5.1 Collection</td>
</tr>
</tbody>
</table>

Workaround: Choose one of the following workarounds:

- If the uninstall process unexpectedly removed these documentation packages, and you want these packages on your system, reinstall the packages from the Solaris 9 8/03 Documentation 1 of 2 or 2 of 2 CDs.
- To avoid this problem, use the pkgrm utility to remove the packages that you want to eliminate from your system.
Localization Issue

Hardware for Estonian Keyboard Type 6, French Canadian Keyboard Type 6, and Polish Programmers Keyboard Type 5 Not Available in Solaris 9 8/03 Operating Environment

Software support for three additional keyboard layouts have been added to the Solaris 9 software for this release: Estonian keyboard Type 6, French Canadian keyboard Type 6, and Polish programmers keyboard Type 5.

This software gives users in Estonia, Canada, and Poland greater flexibility for keyboard input by modifying standard U.S. keyboard layouts to their own language needs.

Currently, no hardware is available for the three additional keyboard layout types.

Workaround: To take advantage of this new keyboard software, modify the /usr/openwin/share/etc/keytables/keytable.map file in one of the following ways:

- For the Estonian Type 6 keyboard:
  1. Change the US6.kt entry to Estonia6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

     6     0     Estonia6.kt

  2. Add the following entries to the /usr/openwin/lib/locale/iso8859-15/Compose file:

     <scaron> : "/xa8" scaron
     <scaron> : "/xa6" scaron
     <scaron> : "/270" scaron
     <scaron> : "/264" scaron

  3. Reboot the system for the changes to take effect.

- For the French Canadian Type 6 keyboard:
  1. Change the US6.kt entry to Canada6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

     6     0     Canada6.kt

  2. Reboot the system for the changes to take effect.

- If you are using the existing Polish Type 5 keyboard layout:
1. Change the Poland5.kt entry to Poland5_pr.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

```
4 52 Poland5_pr.kt
```

**Note** – If you are using a keyboard with dip-switches, make sure the switches are set to the correct binary value for the Polish keytable entry (binary 52) before rebooting the system.

2. If you are using a standard U.S. Type 5 keyboard, change the US5.kt entry to Poland5_pr.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

```
4 33 Poland5_pr.kt
```

3. Reboot the system for the changes to take effect.

### Localization Bugs

**SPARC: Shift-U Does Not Work as Expected in Arabic Locales (4303879)**

To generate the diacritic character in Arabic locales, type the Arabic character, then Shift-U.

**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 ISO-1 equivalent.

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

Then start sorting.

### Sun ONE Application Server Bugs

**Default Browser Is Incompatible With Sun ONE Application Server 7 (4741123)**

When you attempt to use the Sun ONE Application Server Administrative UI with the Solaris 9 8/03 operating environment default browser, the following error message is displayed:
Unsupported Browser: Netscape 4.78

It is recommended that you upgrade your browser to Netscape 4.79 or
Netscape 6.2 (or later) to run the Sun One Application Server
Administrative UI. Those who choose to continue and not upgrade may
notice degraded performance or unexpected behavior.

Note – If you are running the version of Sun ONE Application Server Administrative
UI that is included in the Solaris 9 8/03 operating environment, you will need to use
Netscape 4.79 or Netscape 7.0.

Workaround: Use /usr/dt/appconfig/SUNWns/netscape instead of
/usr/dt/bin/netscape.

SPARC: Access Control List Editing Not Supported on Some Versions of
Netscape Navigator (4750616)

Sun ONE Application Server Access Control List (ACL) editing is not supported on
some versions of Netscape Navigator™. If you attempt to edit ACL entries while using
either Netscape Navigator version 6.x or Netscape Navigator version 7.x, you might
encounter intermittent problems.

For example:
- The browser window disappears.
- The ACL edit screen does not display when launched.

Workaround: Choose one of the following workarounds:
- Use the supported 4.79 version of Netscape Navigator or Microsoft Internet
  Explorer, version 6.0.
- Manually edit the ACL file. For details on ACL file formatting, see the Sun ONE
  Application Server 7 Administrator’s Guide.

Accessing an Oracle 9.1 Database With an Oracle 9.2 Client Might Cause
Data Corruption (4707531)

If you use an Oracle® 9.2 client to access an Oracle 9.1 database, data corruption might
occur when a number column follows a timestamp column.

The problem might be caused by using the ojdbc14.jar file with an Oracle 9.1
database. Applying the patch might assist in addressing the situation on Solaris 32-bit
machines, that run an Oracle 9.1 database. This JDBC™ driver is for Oracle working
with JDK™ 1.4.

Workaround: Obtain the patch that Oracle might make available from the Oracle Web
site for Bug 2199718 and apply it to your server.
SPARC: Administration Interface Reports Verifier Error When Viewing Persistence Manager Factory Resource Created From the Command Line (4733109)

A verifier error is reported for a Persistence Manager Factory resource that was created by using the command-line interface. The following error is displayed when the resource is viewed in the Sun ONE Application Server Administration interface:

ArgChecker Failure: Validation failed for jndiName: object must be non-null

Workaround: Perform the following steps to create a new Persistence Management Factory resource:
1. Create a jdbc-connection pool with data source information to connect to a database.
2. Create a jdbc-resource to make the connection pool available via a Java Naming and Directory Interface™ (J.N.D.I.) lookup.
3. Create a persistence-management resource with the jdbc-resource that was created in Step 2.

SPARC: any Value in Address Attribute of iiop-listener Element in server.xml File Is Not Supported (4743366)

The any value in the address attribute of the iiop-listener element in the server.xml file allows for listening on all interfaces that are available on a system. This support includes both IPv4 and IPv6 interfaces. However, the Sun ONE Application Server default configuration uses an address value of 0.0.0.0 in the iiop-listener element. This default configuration does not listen on IPv6 interfaces. The configuration only listens on all IPv4 interfaces on a system.

Workaround: Use the :: value in the address attribute of the iiop-listener element in the server.xml file to listen on all IPv4 and IPv6 interfaces on a system.

SPARC: Application Server Fails to Restart When Converting to an SSL-Enabled Environment (4723776)

If you attempt to restart the Sun ONE Application Server after installing a certificate and enabling security, the restart fails. A message indicates that the server failed to receive a password.

When the Secure Socket Layer (SSL) is not enabled, passwords are not cached, which results in the failure of restart. The restart command does not support the transition from non-SSL to SSL enabled mode.

Note – This problem only occurs the first time the server is restarted. Subsequent restarts work fine.

Workaround: Choose one of the following workarounds:
If you have encountered this problem. Click the Start button.

To avoid this problem, perform the following steps instead of clicking the Restart button:

1. Click the Stop button.
2. Click the Start button.

**SPARC: Application Server Might Crash During Dynamic Reloading (4750461)**

If an application has many Enterprise JavaBeans™ components, the server might crash during dynamic reloading of the application. The dynamic reloading feature is used in the development environment to quickly test minor changes to an application. The crash is caused by attempting to use more file descriptors than are available.

**Workaround:** Follow these steps:

1. Increase the file descriptors limit by adding lines, in this format, to the /etc/system file.
   - set rlim_fd_max=8192
   - set rlim_fd_cur=2048

   Depending on the size of the application, the values can be set higher or lower.
2. Reboot the system.

**Console Output Is Corrupted if the System’s Default Encoding Is Not UTF-8 (4757859)**

If the system’s default encoding is not UTF-8, the Application Server’s output might cause multibyte characters to display incorrectly.

**Workaround:** Open the server.log file in your browser.

**External Certificate Nickname Does Not Display in Administration Interface Nickname List (4725473)**

If you install an external certificate through the Sun ONE Application Administration interface, a problem is encountered when you attempt to enable SSL for the http-listener by using the certificate that is installed on the external cryptographic module. Although the installation of the certificate is successful, the certificate nickname does not display in the Administration interface.

**Workaround:** Complete the following steps:

1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.
2. Link the http-listener to the certificate that is installed on the external cryptographic module by using the asadmin command. For more information on the asadmin command, see the asadmin(1AS) man page.
# asadmin create-ssl --user admin user --password password --host host name \ 
--port port --type http-listener --certname nobody@appprealm:Server-Cert \ 
--instance instance --ssl3enabled=true \ 
--ssl3tlsciphers +rsa_rc4_128_md5 http-listener-1

The previous command establishes the link between the certificate and the server instance. The command does not install the certificate. The certificate was installed through the Administration interface.

**Note** – Although the certificate is linked with http-listener, the http-listener will be listening in non-SSL mode.

3. Enable the http-listener to listen in SSL mode. Use the following command:

```bash
# asadmin set --user admin user --password password --host host name \ 
--port port server1.http-listener.http-listener-1.securityEnabled=true
```

The previous command switches the server instance listening state from non-SSL to SSL. After you complete the previous steps, the certificate is displayed in the Administration interface.

You can now use the Administration interface to edit the http-listener as needed.

**SPARC: flexanlg Command Might Cause Open Failure Error (4742993)**

If you are running the Sun ONE Application Server software in the Solaris 9 8/03 operating environment, and you use the `flexanlg` command from `/usr/appserver/bin`, the following open failure error is displayed:

```shell
ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so:open failed: No such file or directory
killed
```

**Workaround:** Complete these steps.

1. Add the following entry to the LD_LIBRARY_PATH file:
   ```bash
   /usr/lib/mps
   ```
2. Run the `flexanlg` command.
   ```bash
   % /usr/appserver/bin/flexanlg
   ```

**IPv6-only Clients Cannot Connect to the Application Server (4742559)**

**Note** – If IPv6 is not used in your network, this problem does not apply to you.
By default, the Sun ONE Application Server 7 instances and Admin Server instances use IPv4. IPv4 is supported by all operating environments on which the Sun ONE Application Server is available. On platforms where IPv6 is supported, the Sun ONE Application Server configuration changes are required for conformance.

**Note** – If these configuration changes are to be made, you must be absolutely sure of IPv6 support. If the IPv6 related configuration is applied to a system that has only IPv4 support, Application Server instances might not start.

**Workaround:** Perform the following configuration changes:

1. Start the Admin Server.
2. Start the Admin Console by connecting to the Admin Server HTTP host or port in a browser.
3. Select the server instance to configure for IPv6, for example, server1.
4. Expand the HTTP Listeners node in the tree view.
5. Select the HTTP Listener to configure for IPv6, for example, http-listener1.
6. Change the value of the IP Address field to **ANY** in the General section.
7. In the Advanced section, change the value of the Family field to **INET6**.
   Setting the Family field to INET6 does not disable IPv4 functionality unless an IPv6 address is selected for IP address. Selecting an IP address of ANY matches any IPv4 or IPv6 address.
8. Click Save.
9. Select your server instance from the left pane.
10. Click Apply Changes.
11. Click Stop.
12. Click Start.

The server restarts and implements your changes.

**Modified Samples Are Not Updated Until Redeployed (4726161)**

If users attempt to deploy a sample more than once after making small changes and repackaging the application, the following error message is displayed:

**Already Deployed**

This issue affects most of the samples because they use the Ant utility and the common.xml file, which have the **deploy** target. Thus, this combined use mixes deployment of applications with registration of resources.

**Workaround:** Choose one of the following workarounds:
For the majority of the sample applications that use the Ant utility build.xml files, which include the common.xml file, type the following command:

% asant deploy_common

For all other sample applications, type the following commands:

% asant undeploy
% asant deploy

SPARC: Nonzero Transaction Setting Causes Slow Local Transactions (4700241)

The Local Transaction Manager does not support transactions with definite timeouts. If you set the timeout-in-seconds attribute in the transaction-service element to a value greater than 0, all local transactions are processed as global transactions. A timeout value of 0 means that the transaction manager waits indefinitely if it does not hear from a participating data source.

**Note** – If the Data source driver does not support global transactions, a local transaction might fail.

Workaround: Reset the timeout-in-seconds value to its default of 0.

Oracle JDBC Driver Optimizations Not Being Initiated (4732684)

To utilize Oracle JDBC optimizations with Container-Managed Persistence (CMP) beans, the classes12.zip must be specified in the classpath-suffix attribute of the server.xml file. Do not place the classes12.zip file in the instance/lib/ directory, the default for third-party libraries.

**Workaround:** Add the classes12.zip file to the classpath-suffix attribute of the server.xml file.

RMI-IIOP Clients Do Not Work for IPv6 Addresses Where DNS Address Lookups Fail for the IPv6 Address (4743419)

If a DNS lookup for an IPv6 address fails, clients of Remote Method Invocation-Internet Inter-ORB Protocol (RMI-IIOP) do not work for IPv6 addresses.

**Workaround:** DNS should be set up at the deployment site, in order to look up an IPv6 address.
Value in the Only show entries with Field in the View Event Log Becomes Corrupted If the Application or System Is Not Using UTF-8 Encoding (4763655)

If the user types multibyte characters in the Only show entries with field and searches the event log, the value in the Only show entries with field becomes corrupted when the search result is displayed. The problem is caused by the conversion of the message format from UTF-16 to UTF-8.

Workaround: None.

Sun ONE Application Server Security Bug

The Application Server Starts All Instances as Root Allowing Nonroot Users Root Access (4780076)

Several issues are associated with Application Server startup when the Sun ONE Application Server is installed as part of a Solaris installation:

- All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory available on a system.
- When application server instances and administrative server instances are started automatically, the startup script for each instance is executed as root. Execution of nonroot-owned instance startup scripts can give nonroot user’s access to the root user through modification of the instance-level startup scripts.

During the installation of the Sun ONE Application Server, the /etc/init.d/appserv script and symbolic links to the S84appserv and K05appserv scripts in the /etc/rc*.d/ directories are installed. These scripts cause all application server instances and administrative server instances, defined as part of the application server installation, to be started and stopped automatically during Solaris system startup and shutdown.

The /etc/init.d/appserv script contains the following section of code:

```bash
case "$1" in
  'start')
    /usr/sbin/asadmin start-appserv
    ;;
  'stop')
    /usr/sbin/asadmin stop-appserv
    ;;
```

Execution of the asadmin start-appserv command causes the administration server instance and all application server instances, defined in all administrative domains, to be started during Solaris system startup. Because the system startup and shutdown scripts are executed as root, the startup script for each application server and administrative server instance is also executed as root. The instance-level startup
The script is named startserv and is located at `instance-dir/bin/startserv`. Because instances can be owned by users other than root, the startserv scripts could be modified by the nonroot user to execute commands as the root user.

If an instance is using a privileged network port, the instance’s startserv script must be executed as root. However, `run as user` is typically set in the instance’s configuration to force the instance to run as the specified user after the instance has been initially started by the root user.

**Workaround:** Perform one of the following workarounds, depending on your environment:

- If your environment does not require all application server and administrative server instances to be started as root, then comment out execution of the `asadmin` `start-appserv` and `asadmin stop-appserv` commands in the `/etc/init.d/appserv` script.
- If your environment requires starting either specific administrative domains or specific instances within one or more administrative domains, you can modify or create a script to automate that process. Note that “specific administrative domains” include the administrative server instance and all application server instances of each domain.

Perform one of the following steps:

- Modify the `/etc/init.d/appserv` script to start the domains or instances of interest.
- Define new `/etc/rc*.d/` scripts that conform to the needs of your environment.

**Startup Considerations:** When modifying the Solaris operating environment startup scripts to automatically start either specific application server administrative domains or specific application server instances, consider the following:

- **Starting a specific domain** – If you want to start the administrative server instance and all application server instances of a specific administrative domain as the root user, modify the `/etc/rc*.d/` scripts as follows:

  ```
  case "$1" in
  'start')
   /usr/sbin/asadmin start-domain --domain production-domain
 ;;
  'stop')
   /usr/sbin/asadmin stop-domain --domain production-domain
 ;;
  esac
  ```

- **Starting a specific application server instance as a nonroot user** – Modify the `/etc/rc*.d/` scripts to use the `su` command with the `-c` option.

  ```
  case "$1" in
  'start')
   su - usera -c "/usr/sbin/asadmin start-instance --domain test-domain instance-a"
   su - userb -c "/usr/sbin/asadmin start-instance --domain test-domain
  ```
su - usera -c "/usr/sbin/asadmin stop-instance --domain test-domain instance-a"

su - userb -c "/usr/sbin/asadmin stop-instance --domain test-domain instance-b"

See the Sun ONE Application Server 7 Administrator’s Guide for more information on the startup and shutdown commands that are available through the asadmin command-line interface.

Sun ONE Directory Server (Formerly iPlanet Directory Server) Issues

Setup Issue
When typing a Distinguished Name (DN) during installation, use the UTF-8 character set encoding. Other encodings are not supported. Installation operations do not convert data from local character set encoding to UTF-8 character set encoding. Lightweight Directory Interchange Format (LDIF) files that are used to import data must also use UTF-8 character set encoding. Import operations do not convert data from local character set encoding to UTF-8 character set encoding.

Schema Issues
The schema provided with the Sun Open Net Environment (Sun ONE) Directory Server (formerly iPlanet Directory Server) 5.1 differs from the schema that is specified in RFC 2256 for the groupOfNames and groupOfUniqueNames object classes. In the schema provided, the member and uniquemember attribute types are optional. RFC 2256 specifies that at least one value for these types must be present in the respective object class.

The aci attribute is an operational attribute that is not returned in a search unless you explicitly request the attribute.

Replication Issue
Multimaster replication over a wide area network (WAN) is currently not supported.

Server Plug-In Issues
Sun ONE Directory Server 5.1 provides the user identification number (UID) Uniqueness plug-in. By default, the plug-in is not activated. To ensure attribute uniqueness for specific attributes, create a new instance of the Attribute Uniqueness plug-in for each attribute. For more information on the Attribute Uniqueness plug-in, refer to the iPlanet Directory Server 5.1 Administrator’s Guide at http://docs.sun.com.
The Referential Integrity plug-in is now off by default. To avoid conflict resolution loops, the Referential Integrity plug-in should only be enabled on one master replica in a multimaster replication environment. Before enabling the Referential Integrity plug-in on servers that issue chaining requests, analyze your performance resource, time, and integrity needs. Integrity checks can consume significant memory and CPU resources.

**Roles and Class of Service Issue**

The nsRoleDN attribute is used to define a role. This attribute should not be used for evaluating role membership in a user’s entry. When evaluating role membership, look at the nsrole attribute.

**Indexing Issue**

If virtual list view (VLV) indexes encompass more than one database, the VLV indexes do not work correctly.

**Sun ONE Directory Server Bugs**

**Cannot Inactivate Users Through Console (4521017)**

If you launch the Sun ONE Directory Server 5.1 Console and create a new user or new role as inactive, the newly created user or newly created role is not inactivated. Users and roles cannot be created through the Console as inactive.

**Workaround:** To create an inactive user or inactive role, follow these steps:

1. Create the new user or new role.
2. Double-click the newly created user or newly created role, or select the newly created user or newly created role. Click the Properties item from the Object menu.
3. Click the Account tab.
4. Click the Inactivate button.
5. Click OK.

The newly created user or newly created role is inactivated.

**Cannot Configure Directory With a Root Suffix That Contains Spaces (4526501)**

If you specify a base DN that contains a space, for example, o=U.S. Government,C=US at Sun ONE Directory Server 5.1 configuration time, the resulting DN is truncated to Government,C=US. At configuration time, the DN should be typed as o=U.S.%20Government,C=US.

**Workaround:** To correct the base DN entry, follow these steps:

1. Select the top directory entry in the left side of the navigation pane of the Servers and Applications tab on the Console.
2. Edit the suffix in the User directory subtree.
3. Click OK.

**Password Policy Information Is Not Synchronized Between Servers (4527608)**

If you update a nonmaster directory server with password policy information, the information is not replicated to all other servers. This information includes account lockouts.

**Workaround:** Manage password policy information manually on each server.

**Account Lockout Remains Effective After the User Password Is Changed (4527623)**

If Account Lockout is effective and the user password is changed, Account Lockout remains effective.

**Workaround:** Reset the `accountUnlockTime`, `passwordRetryCount`, and `retryCountResetTime` lockout attributes to unlock the account.

**Console Backup Immediately After Installation Fails (4531022)**

If you install the Sun ONE Directory Server 5.1, start the console, initialize the directory with an LDIF file, and then back up the server, the Console reports the backup was successful. However, the backup has actually failed.

**Workaround:** Perform the following tasks from the Console after you initialize the database:

1. Stop the server.
2. Restart the server.
3. Perform the backup.

**Server Ignores Case-Sensitive Syntax When Normalizing DN Attributes (4630941)**

You cannot use the LDAP naming services to create automount path names that are identical, except for case results in nonunique path names. The directory server does not allow creation of entries if the naming attribute is defined with case-sensitive syntax and an entry already exists with the same name but a different case.

**Note** – `/home/foo` and `/home/Foo` paths cannot coexist.

For example, if entry `attr=foo,dc=mycompany,dc=com` exists, the server does not allow the creation of `attr=Foo,dc=mycompany,dc=com`. A corollary of this problem is that when LDAP naming services are used, automount path names have to be unique, regardless of their case.
Workaround: None.

Stopping the Server During Export, Backup, Restore, or Index Creation Crashes the Server (4678334)
If the server is stopped during export, backup, restore or index creation, the server crashes.
Workaround: Do not stop the server during these types of operations.

Replication Unable to Use Self-Signed Certificate (4679442)
If you attempt to configure replication over SSL with certificate-based authentication, replication does not work if either of the following conditions exist:
- The supplier’s certificate is self-signed.
- The supplier’s certificate is only capable of behaving as an SSL server certificate that is unable to play the role of the client during an SSL handshake.
Workaround: None.

UFS File System Issue

SPARC: Do Not Create a UFS File System on VxVM Volumes Greater Than 2 Tbytes in Size
If you attempt to create a UFS file system on a Veritas Volume Manager (VxVM) volume that is of 2 Tbytes or greater, you produce an error state. The outcome is a file system that is the size of the VxVM volume modulo 2 Tbytes. For example, a VxVM volume 8.4 Tbytes in size would produce a .4 Tbyte file system.
No warning message is displayed.
Workaround: None.

UFS File System Bugs

Using the UFS noatime and logging Mount Options Can Result in File System Corruption (4884138)
If the UFS noatime and logging mount options are used together, the file system can become corrupted because an inode is not being written. This failure can result in the display of the following messages:
/mnt: unexpected allocated inode 1783, run fsck(1M)...
/zoot: unexpected free inode 5674, run fsck(1M)...
Workaround: Perform the following steps:
1. Determine which file systems are using the noatime and logging mount options.
% mount | grep noatime | grep logging

2. Edit /etc/vfstab to remove the noatime option from all file systems that use the logging option.

3. Unmount and run the fsck command against all the file systems that were mounted by using the logging and noatime mount options.

4. Run the fsck command against any currently unmounted file systems that were previously mounted with the logging and noatime mount options.

The fsck command might display messages that are similar to the following:

8016 DUP I=646
EXCESSIVE DUP BLKS I=7404
INCOMPLETE BLOCK COUNT I=7407
DUP/BAD I=646 OWNER=root MODE=100644
ZERO LENGTH DIRECTORY I=3807
BAD/DUP FILE I=575 OWNER=root MODE=100644
BAD/DUP DIRECTORY I=3807 OWNER=root MODE=40755
LINK COUNT DIR I=3806 OWNER=root MODE=40755
LINK COUNT FILE I=25084 OWNER=host1 MODE=100644
FREE BLK COUNT(S) WRONG IN SUPERBLK

SPARC: Using fssnap on a Multiterabyte UFS File System Does Not Work (4836824)

Using the fssnap command to create a snapshot of a UFS file system that is greater than 1 Tbyte in size is not supported in the Solaris 9 8/03 release. The following error message is displayed:

fssnap: Fatal: File system /dir/snapshot0 support large files.

Workaround: None.
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 9 8/03 Documentation CD and in the Installation Kiosk on the Solaris 9 8/03 Installation CD.

- “Netscape 4.7x” on page 77
- “Netscape 6.2x and Netscape 7.0” on page 77
- “asysmem() and sysmem() Interfaces” on page 71
- “Solaris Maintenance Updates” on page 77
- “Device Driver Path-Name Support in add_drv System Command” on page 70

Features Removed From the Solaris 9 Operating Environment

**adb Map Modifiers and Watchpoint Syntax**

The adb utility is implemented as a link to the new mdb utility in this release of the Solaris operating environment.

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

- The text output format of some subcommands is different in mdb. Macro files are formatted by using the same rules, but scripts that depend on the output of other subcommands might need to be modified.
- The watchpoint-length specifier syntax in mdb is different from the syntax that is described in adb. The adb watchpoint commands :w, :a, and :p enable an integer length (in bytes) to be inserted between the colon and the command character. In the mdb(1) man page, the count should be specified after the initial address as a repeat count.

The adb command `123:456w` is specified in the mdb man page as `123,456:w`. 
The `/m, /*m, ?m, and ?*m format specifiers are not recognized or supported by mdb.

AnswerBook2 Server
The AnswerBook2™ server is no longer included in this release. Existing AnswerBook2 servers can run on the Solaris 9 operating environment. Solaris documentation is available on the Solaris Documentation CD in online formats. All Solaris documentation is also always available at http://docs.sun.com.

aspppd Utility
The aspppd utility is no longer included in this release. Instead, use the pppd(1M) utility with Solaris PPP 4.0 utility that is included in the Solaris 9 operating environment.

ATOK8 Japanese Input Method
The ATOK8 Japanese input method is no longer supported in this release. The ATOK12 Japanese input method is included in the Solaris 9 operating environment. The ATOK12 Japanese input method provides functionality that is similar to the ATOK8, with the addition of several enhancements.

crash Utility
The crash utility is no longer supported in this release. In the Solaris 9 operating environment, the mdb(1) utility provides a function that is similar to the crash utility. The mdb utility also examines system crash dump files. The crash utility’s interface has been structured around implementation details, such as slots, that have no relation to the Solaris operating system implementation.

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

Crash Dump Options for Solaris ipcs Command
The capability of applying the ipcs(1) command to system crash dumps by using the -C and -N command-line options is no longer supported in this release. Equivalent capability is now provided by the mdb(1) ::ipcs debugger command.

cs00 Japanese Input Method
The cs00 Japanese input method is no longer supported in the Solaris 9 operating environment. Related interfaces, such as the xci interface, the Japanese Feature Package (JFP) libmle API, and the mle command, are also no longer supported in the Solaris 9 operating environment.

If you upgrade to the Solaris 9 operating environment from a previous release, the existing public user dictionary /var/mle/ja/cs00/cs00_u.dic is removed.
Two Japanese input methods, ATOK12 and Wnn6, are supported in the Solaris 9 operating environment. For more information on the ATOK12 and Wnn6 input methods, see the International Language Environments Guide.

**x86: devconfig Command**

The devconfig command is no longer supported in this release.

**x86: Device and Driver Software Support**

The following table lists devices and driver software that are no longer supported in this 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>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 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>
</tbody>
</table>

**Early Access (EA) Directory**

The name of the EA directory has been changed to ExtraValue in the Solaris 9 operating environment.

**Emulex MD21 Disk Controller for ESDI Drives**

The MD21 disk controller for ESDI drives is no longer supported in the Solaris 9 operating environment.

**enable_mixed_bcp Tunable**

The enable_mixed_bcp tunable is no longer supported in this release. In Solaris releases prior to the Solaris 9 operating environment, the /etc/system variable enable_mixed_bcp could be set to 0 to disable dynamic linking of partially statically linked SunOSTM 4.0 and compatible executables. The system used dynamic linking for these executables by default. In the Solaris 9 operating environment, dynamic linking is always used for these executables, and the enable_mixed_bcp tunable has been removed from the system. This change does not affect binary compatibility for SunOS 4.0 and compatible executables in any way.
x86: Intel 486–Based Systems

The Solaris operating environment is no longer supported on Intel 486–based systems.

Japanese Locale Name Alternate

The Japanese locale name alternate of the ja Japanese Extended UNIX Code (EUC) locale is no longer supported in this release. This locale name facilitated migration from the Solaris 1.0 release and compatible releases. You can use ja or ja_JP.eucJP as the Japanese EUC locale with the Solaris 9 operating environment. The Solaris 1.0 BCP (JLE) application and compatible versions can still run in the Solaris 9 operating environment without any changes.

Java Software Developer’s Kit (SDK) 1.2.2

Version 1.2.2 of the Java™ SDK (SUNWj2dev) is no longer included in the Solaris 9 release. Near-equivalent capability is supported by Java 2 Standard Edition, versions 1.4 and compatible versions. Current and previous versions of JDK and Java runtime environment (JRE) are available for download from http://java.sun.com.

JDK 1.1.8 and JRE 1.1.8

Version 1.1.8 of the JDK and version 1.1.8 of the JRE are no longer supported in this release. Near-equivalent capability is supported by Java 2 Standard Edition, versions 1.4 and compatible versions. Current and previous versions of JDK and JRE are available for download from http://java.sun.com.

Kerberos Version 4 Client

The Kerberos version 4 client was removed from the Solaris 8 operating environment. This client includes the Kerberos version 4 support in the kdestroy, kerbd, kinit, klist, ksrtgt, mount_nfs, and share commands. The Kerberos version 4 client also includes support in the kerberos (3KRB) library, and in the ONC RPC programming API kerberos_rpc(3KRB).

For more information, see the kdestroy(1), kinit(1), klist(1), mount_nfs(1M), and share(1M) man pages.

OpenWindows Toolkits for Developers

Development in the OpenWindows™ XView™ and OLIT toolkits is no longer supported in this release. Developers are encouraged to migrate to the Motif toolkit. Applications that were developed with the OpenWindows XView and OLIT toolkits can still run on the Solaris 9 operating environment.

OpenWindows Environment for Users

The OpenWindows environment is no longer supported in this release. The Common Desktop Environment (CDE) is the default desktop environment that is included in the Solaris 9 operating environment. Applications that use the OpenWindows XView and OLIT toolkits can still run on the Solaris 9 operating environment in CDE.
Priority Paging and Related Kernel Tunables

*(priority_paging/cachefree)*

The priority_paging and cachefree tunable parameters are not supported in the Solaris 9 release. These parameters have been replaced with an enhanced file-system caching architecture that implements paging policies that are similar to priority paging, but always enabled. Attempts to set these parameters in the `/etc/system` file result in boot-time warnings such as the following:

```
sorry, variable 'priority_paging' is not defined in the 'kernel'
sorry, variable 'cachefree' is not defined in the 'kernel'
```

If you upgrade to the Solaris 9 release or pkgadd the SUNWcsr packages, and your `/etc/system` file includes the priority_paging or cachefree parameters, the following occurs:

1. The following message is displayed if the priority_paging or cachefree parameters are set in the `/etc/system` file:

   ```
   NOTE: /etc/system has been modified since it contains references to priority paging tunables. Please review the changed file.
   ```

2. Comments are inserted in the `/etc/system` file before any line that sets priority_paging or cachefree. For example, if `priority_paging` is set to 1, this line is replaced with the following lines:

   ```
   * NOTE: As of Solaris 9, priority paging is unnecessary and has been removed. Since references to priority paging-related tunables will now result in boot-time warnings, the assignment below has been commented out. For more details, see the Solaris 9 Release Notes, or the "Solaris Tunable Parameters Reference Manual".
   * set priority_paging=1
   ```

*s5fs File System*

The *s5fs* file system is no longer supported in this release. The *s5fs* file system supports the installation of Interactive UNIX applications, which is no longer required in the Solaris operating environment.

*sendmail Utility Features*

Some features of the *sendmail* utility are no longer supported in this release. The affected features are modifications that are mostly nonstandard and specific to Sun. These features include special syntax and special semantics for V1/Sun configuration files, the remote mode feature, the `AutoRebuildAliases` option, and the three `sun-reverse-alias` features.

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

The SUNWebnfs package is no longer included on the Solaris operating environment media.

The library and documentation are available for download from http://www.sun.com/webnfs.

**sun4d-Based Servers**

The following servers that are based on the sun4d architecture are no longer supported in this release:

- SPARCserver™ 1000
- SPARCcenter 2000

Hardware options that are dependent on the sun4d architecture are no longer supported in this release.

**SUNWrdm Package**

The SUNWrdm package, which formerly contained text release notes, is no longer included on the Solaris Software CD in this release.

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

**Features That Might Be Removed in a Future Release**

**device_driver Path-Name Support in add_drv System Command**

The `add_drv` command accepts a path-name specification for the `device_driver` parameter. This feature might be removed in a future release of the Solaris operating environment.

In the Solaris 9 operating environment, the following warning message is written to STDERR when a path name is specified:

```
Warning: pathname support will be discontinued in future releases of add_drv.
```

During the installation process, warning messages that are generated by the use of the path-name specification will appear in the `install_log` file.

For more information, see the `add_drv(1M)` man page.

**AdminTool Command**

AdminTool (`admintool`), including `swmtool`, might not be supported in a future release.
Asian Short dtlogin Names

The following Asian short locale names might not be listed in the dtlogin language list in a future release:

- zh
- zh.GBK
- zh.UTF-8
- ko
- ko.UTF-8
- zh_TW

The Solaris 8, Solaris 9, and Solaris 9 8/03 releases provide new ISO-standard locale names, including:

- zh_CN.EUC
- zh_CN.GBK
- zh_CN.UTF-8
- ko_KR.EUC
- ko_KR.UTF-8
- zh_TW.EUC

asysmem() and sysmem() Interfaces

The asysmem() and sysmem() interfaces, which are exported by libadm(3lib), might not be included in a future release of the Solaris operating environment. Both interfaces are obsolete. Application developers are advised to use the sysconf(3C) library function instead.

For more information, see the sysconf(3C) man page.

Audit Daemon Interfaces

The following interfaces that are used by the Solaris audit daemon might not be supported in a future release of the Solaris operating environment:

- auditsvc(2)
- audit_data(4)

Device Allocation Interfaces For the Basic Security Module

The following components of the device allocation mechanism of the Basic Security Module might not be included in a future release of the Solaris operating environment:

- mkdevalloc(1M)
- mkdevmaps(1M)
- /etc/security/dev

Obsolete Device Driver Interfaces (DDI)

Some device driver interfaces (DDI) might not be supported in a future release of the Solaris operating environment.
The following table lists DDI interfaces that might not be supported in a future release, along with the preferred DDI interface alternatives:

<table>
<thead>
<tr>
<th>Obsolete Interface</th>
<th>Preferred Interface</th>
</tr>
</thead>
<tbody>
<tr>
<td>mmap(9E)</td>
<td>devmap(9E)</td>
</tr>
<tr>
<td>identify(9E)</td>
<td>set to nulldev(9F)</td>
</tr>
<tr>
<td>copyin(9F)</td>
<td>ddi_copyin(9F)</td>
</tr>
<tr>
<td>copyout(9F)</td>
<td>ddi_copyout(9F)</td>
</tr>
<tr>
<td>ddi_dma_addr_setup(9F)</td>
<td>ddi_dma_addr_bind_handle(9F)</td>
</tr>
<tr>
<td>ddi_dma_buf_setup(9F)</td>
<td>ddi_dma_buf_bind_handle(9F)</td>
</tr>
<tr>
<td>ddi_dma_curwin(9F)</td>
<td>ddi_dma_getwin(9F)</td>
</tr>
<tr>
<td>ddi_dma_free(9F)</td>
<td>ddi_dma_free_handle(9F)</td>
</tr>
<tr>
<td>ddi_dma_htoc(9F)</td>
<td>ddi_dma_addr[buf]_bind-handle(9F)</td>
</tr>
<tr>
<td>ddi_dma_movwin(9F)</td>
<td>ddi_dma_getwin(9F)</td>
</tr>
<tr>
<td>ddi_dma_nextseg(9F)</td>
<td>ddi_dma_nextcookie(9F)</td>
</tr>
<tr>
<td>ddi_dma_nextwin(9F)</td>
<td>ddi_dma_nextcookie(9F)</td>
</tr>
<tr>
<td>ddi_dma_segtocookie(9F)</td>
<td>ddi_dma_nextcookie(9F)</td>
</tr>
<tr>
<td>ddi_dma_setup(9F)</td>
<td>ddi_dma_*_handle(9F)</td>
</tr>
<tr>
<td>ddi_dmae_getlim(9F)</td>
<td>ddi_dmae_getattr(9F)</td>
</tr>
<tr>
<td>ddi_getminor(9F)</td>
<td>getminor(9F)</td>
</tr>
<tr>
<td>ddi_getlongprop(9F)</td>
<td>ddi_prop_lookup(9F)</td>
</tr>
<tr>
<td>ddi_getlongprop_buf(9F)</td>
<td>ddi_prop_lookup(9F)</td>
</tr>
<tr>
<td>ddi_getprop(9F)</td>
<td>ddi_prop_get_int(9F)</td>
</tr>
<tr>
<td>ddi_getproplen(9F)</td>
<td>ddi_prop_lookup(9F)</td>
</tr>
<tr>
<td>ddi_iopb_alloc(9F)</td>
<td>ddi_dma_mem_alloc(9F)</td>
</tr>
<tr>
<td>ddi_iopb_free(9F)</td>
<td>ddi_dma_mem_free(9F)</td>
</tr>
<tr>
<td>ddi_mem_alloc(9F)</td>
<td>ddi_dma_mem_alloc(9F)</td>
</tr>
<tr>
<td>ddi_mem_free(9F)</td>
<td>ddi_dma_mem_free(9F)</td>
</tr>
<tr>
<td>ddi_map_regs(9F)</td>
<td>ddi_regs_map_setup(9F)</td>
</tr>
<tr>
<td>ddi_mapdev(9F)</td>
<td>devmap_setup(9F)</td>
</tr>
<tr>
<td>ddi_mapdev_intercept(9F)</td>
<td>devmap_load(9F)</td>
</tr>
<tr>
<td>Obsolete Interface</td>
<td>Preferred Interface</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-----------------------------------------</td>
</tr>
<tr>
<td>ddi_mapdev_nointercept(9F)</td>
<td>devmap_unload(9F)</td>
</tr>
<tr>
<td>ddi_prop_create(9F)</td>
<td>ddi_prop_update(9F)</td>
</tr>
<tr>
<td>ddi_prop_modify(9F)</td>
<td>ddi_prop_update(9F)</td>
</tr>
<tr>
<td>ddi_segmap(9F)</td>
<td>see devmap(9E)</td>
</tr>
<tr>
<td>ddi_segmap_setup(9F)</td>
<td>devmap_setup(9F)</td>
</tr>
<tr>
<td>ddi_unmap_regs(9F)</td>
<td>ddi_regs_map_free(9F)</td>
</tr>
<tr>
<td>free_pktio(9F)</td>
<td>scsi_free_consistent_buf(9F)</td>
</tr>
<tr>
<td>get_pktio(9F)</td>
<td>scsi_alloc_consistent_buf(9F)</td>
</tr>
<tr>
<td>makecom_g0(9F)</td>
<td>scsi_setup_cdb(9F)</td>
</tr>
<tr>
<td>makecom_g0_s(9F)</td>
<td>scsi_setup_cdb(9F)</td>
</tr>
<tr>
<td>makecom_g1(9F)</td>
<td>scsi_setup_cdb(9F)</td>
</tr>
<tr>
<td>makecom_g5(9F)</td>
<td>scsi_setup_cdb(9F)</td>
</tr>
<tr>
<td>scsi_dmafree(9F)</td>
<td>scsi_destroy_pkt(9F)</td>
</tr>
<tr>
<td>scsi_dmaget(9F)</td>
<td>scsi_init_pkt(9F)</td>
</tr>
<tr>
<td>scsi_pktalloc(9F)</td>
<td>scsi_init_pkt(9F)</td>
</tr>
<tr>
<td>scsi_pktfree(9F)</td>
<td>scsi_destroy_pkt(9F)</td>
</tr>
<tr>
<td>scsi_resalloc(9F)</td>
<td>scsi_init_pkt(9F)</td>
</tr>
<tr>
<td>scsi_resfree(9F)</td>
<td>scsi_destroy_pkt(9F)</td>
</tr>
<tr>
<td>scsi_slave(9F)</td>
<td>scsi_probe(9F)</td>
</tr>
<tr>
<td>scsi_unslave(9F)</td>
<td>scsi_unprober(9F)</td>
</tr>
<tr>
<td>ddi.peek(c,s,l,d)(9F)</td>
<td>ddi.peek(8,16,32,64)(9F)</td>
</tr>
<tr>
<td>ddi.poke(c,s,l,d)(9F)</td>
<td>ddi.poke(8,16,32,64)(9F)</td>
</tr>
<tr>
<td>in{b,w,l}(9F)</td>
<td>ddi.get(8,16,32)(9F)</td>
</tr>
<tr>
<td>out{b,w,l}(9F)</td>
<td>ddi.put(8,16,32)(9F)</td>
</tr>
<tr>
<td>repins{b,w,l}(9F)</td>
<td>ddi.rep.get(8,16,32)(9F)</td>
</tr>
<tr>
<td>repouts{b,w,l}(9F)</td>
<td>ddi.rep.put(8,16,32)(9F)</td>
</tr>
<tr>
<td>GLOBAL_DEV</td>
<td>Specify 0</td>
</tr>
<tr>
<td>NODEBOUND_DEV</td>
<td>Specify 0</td>
</tr>
<tr>
<td>NODESPECIFIC_DEV</td>
<td>Specify 0</td>
</tr>
<tr>
<td>Obsolete Interface</td>
<td>Preferred Interface</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>ENUMERATED_DEV</td>
<td>Specify 0</td>
</tr>
<tr>
<td>DDI_IDENTIFIED</td>
<td>not needed</td>
</tr>
<tr>
<td>DDI_NOTIDENTIFIED</td>
<td>not needed</td>
</tr>
</tbody>
</table>

For more information, see the `man pages section 9: DDI and DKI Driver Entry Points` and the `man pages section 9: DDI and DKI Kernel Functions`.

**Device Management Entries in `power.conf`**

The Device Management entries in the `power.conf` file might not be supported in a future release. Similar capability is provided by the Automatic Device Power Management entries in the Solaris 9 operating environment.

For more information, see the `power.conf(4)` man page.

**Device Support and Driver Software**

The following table lists devices and driver software that might not be supported in a future release:

**TABLE 3–2 Device and Driver Software**

<table>
<thead>
<tr>
<th>Name of Physical Device</th>
<th>Name of Driver</th>
<th>Type of Card</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMI MegaRAID host bus adapter, first generation</td>
<td>mega</td>
<td>SCSI RAID</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 SMART-2/P Array Controller and Compaq SMART-2SL Array Controller</td>
<td>smartii</td>
<td>SCSI RAID controller</td>
</tr>
</tbody>
</table>

**Euro Character Input Sequences That Are Alt Key-Based and Meta Key-Based**

Support might be removed from a future release for the following nonstandard-input key sequences for the Euro character in Solaris Unicode/UTF-8 locales:

- Alt-E
- Alt-4
- Alt-5
- Meta-E
- Meta-4
- Meta-5
Note – In the key sequences, a hyphen indicates simultaneous keystrokes. A plus sign indicates consecutive keystrokes.

The recommended standard-input key sequences follow:

- Alt Graph-E
- Compose+C+=

If the keyboard has no Alt Graph or Compose key, use the following key sequence:

- Ctrl-Shift-T+C+=

Federated Naming Service XFN Libraries and Commands

The Federated Naming Service (FNS), which is based on the X/Open XFN standard, might not be supported in a future release.

fork() Function

The behavior of fork(), when not linked to the -lpthread library, might change in a future release of the Solaris operating environment. This behavior change makes Solaris threads consistent with Portable Operating System Interface (POSIX) threads.

The fork() function might be redefined to behave like fork1(). Therefore, fork() would replicate only the calling thread in the child process. This redefinition matches the current behavior of fork1() and of fork() when linked with -lpthread.

Support for applications that require the replicate-all behavior of fork() would still be provided.

GMT Zoneinfo Time Zones

The /usr/share/lib/zoneinfo/GMT[+-]* time zones might not be supported in a future release. These files might be removed from /usr/share/lib/zoneinfo. Replace usage of the zoneinfo time zones with the equivalent Etc/GMT[-+]* file.

For more information, see the zoneinfo(4) and environ(5) man pages.

SPARC: Graphic Driver Support

Software support for the following graphic devices might not be provided in a future release of the Solaris operating environment:

<table>
<thead>
<tr>
<th>Device</th>
<th>Driver</th>
</tr>
</thead>
<tbody>
<tr>
<td>MG1, MG2</td>
<td>bwtwo</td>
</tr>
<tr>
<td>Device</td>
<td>Driver</td>
</tr>
<tr>
<td>-----------</td>
<td>----------</td>
</tr>
<tr>
<td>CG3</td>
<td>cgthree</td>
</tr>
<tr>
<td>SX/ CG14</td>
<td>sx, cfourteen</td>
</tr>
<tr>
<td>TC</td>
<td>cgeight</td>
</tr>
<tr>
<td>TCX</td>
<td>tcx</td>
</tr>
</tbody>
</table>

**JRE 1.2.2**

Version 1.2.2 of the Java runtime environment (JRE) might not be supported in a future release. Similar capability is supported by Java 2 Standard Edition, version 1.4 and compatible versions. Current and previous versions of JRE are available for download from [http://java.sun.com](http://java.sun.com).

**Kodak Color Management System**

Support for the Kodak Color Management System (KCMS™) might not be available in a future release of the Solaris operating environment.

**Korean CID Fonts**

Korean CID fonts might not be supported in a future release. You can use the Korean TrueType fonts that are included in the Solaris operating environment as a replacement for Korean CID fonts.

**libXinput Library**

The `libXinput.so.0` library might not be provided in a future release of the Solaris operating environment. The `libXinput.so.0` library was provided for backward compatibility with X11R4 applications that were built by using the draft standard X Input API of Solaris 2.1 and Solaris 2.2. The X11 standard X Input Extension library, `libXi`, was integrated in Solaris 2.3.

All applications that rely on the libXi API should be built by using the libXi shared library for future compatibility and standards conformance.

**Lightweight Directory Access Protocol (LDAP) Client Library**

LDAP client library, `libldap.so.3`, might not be included in a future release. The current version of this library, `libldap.so.5`, is compliant with the [draft-ietf-ldapext-ldap-c-api-05.txt](http://tools. ietf. org/html/draft-ietf-ldapext-ldap-c-api-05.txt) revision of theldap-c-api draft from the Internet Engineering Task Force (IETF).

**Obsolete Lightweight Process (LWP) Interfaces**

The following LWP interfaces might not be supported in a future release:

- `_lwp_create`
- `_lwp_detach`
These interfaces are not part of a common model with multithreading enabled by default. The interfaces have worked as expected only when used in applications that are not linked with libthread.

For more information, see the _lwp_create(2), _lwp_detach(2), _lwp_exit(2), _lwp_getprivate(2), _lwp_makecontext(2), _lwp_setprivate(2), and _lwp_wait(2) man pages.

Solaris Maintenance Updates
The separate patch collections provided in conjunction with the Solaris releases, the Solaris Maintenance Updates (MUs), might not be made available at future releases.

Nameless Interface Groups Feature
The Nameless Interface Groups feature, enabled by ndd /dev/ip ip_enable_group_ifs, might not be supported in a future release. Use the supported IP Network Multipathing feature, which provides similar capability. IP multipathing groups can be formed by using the group keyword of the ifconfig command.

For more information, see the ndd(1M) and ifconfig(1M) man pages.

Netscape 4.7x
Netscape™ 4.7x software might not be supported in a future release of the Solaris operating environment.

Netscape 6.2x and Netscape 7.0
Netscape 6.2x software and Netscape 7.0 software might not be supported in a future release of the Solaris operating environment.

netstat -k Option
The unsupported -k option of netstat, which reports on all named kstats on the running OS instance, might be removed in a future release. Use the supported kstat command, which provides similar capability. The kstat command was introduced in the Solaris 8 operating environment.

For more information, see the kstat(1M) man page.
NIS+ Name Service Type

Network Information Service Plus (NIS+) might not be supported in a future release. Tools to aid in the migration from NIS+ to LDAP are available in the Solaris 9 operating environment. For more information, visit http://www.sun.com/directory/nisplus/transition.html

pam_unix Module

The pam_unix module might not be supported in a future release. Similar capability is provided by pam_authtok_check, pam_authtok_get, pam_authtok_store, pam_dhkeys, pam_passwd_auth, pam_unix_account, pam_unix_auth, and pam_unix_session.

For more information, see the pam_unix(5), pam_authtok_check(5), pam_authtok_get(5), pam_authtok_store(5), pam_dhkeys(5), pam_passwd_auth(5), pam_unix_account(5), pam_unix_auth(5), and pam_unix_session(5).

Perl Version 5.005_03

Perl version 5.005_03 might not be supported in a future release. In the Solaris 9 operating environment, the default version of Perl has been changed to a version that is not binary compatible with the earlier version (5.005_03). However, the earlier version of Perl is still retained for compatibility. Customer-installed modules need to be rebuilt and reinstalled against the new version. Modify any scripts that require the use of version 5.005_03 to explicitly use the 5.005_03 version of the interpreter (/usr/perl5/5.005_03/bin/perl) instead of the default version (/bin/perl, /usr/bin/perl, or /usr/perl5/bin/perl).

Power Management I/O Control Commands

The following power management I/O control (ioctl) commands might not be supported in a future release:

- PM_DISABLE_AUTOPM
- PM_REENABLE_AUTOPM
- PM_SET_CUR_PWR
- PM_GET_CUR_PWR
- PM_GET_NORM_PWR

The following alternative ioctl's are supported in the Solaris 9 8/03 operating environment:

- PM_DIRECT_PM
- PM_RELEASE_DIRECT_PM
- PM_GET_CURRENT_POWER
- PM_SET_CURRENT_POWER
- PM_GET_FULL_POWER

For more information on these alternative ioctl's, see the ioctl(2) man page.
64-bit SPARC: ptrace Interface in libc

The 64-bit version of the ptrace interface that is included in libc might not be supported in a future release. The proc interface replaces this functionality.

For more information, see the proc(4) man page.

sendmailvars and the L and G sendmail.cf commands

The sendmailvars database that is listed in nsswitch.conf(4) might not be supported in a future release. This feature could not be enabled without using the L or G sendmail.cf commands. This change brings the Sun version of sendmail into closer compliance with the version from sendmail.org.

SPARC: 64-bit Packages

The Solaris operating environment is currently delivered in separate packages for 32-bit and 64-bit components. The 64-bit packages, introduced in the Solaris 7 release, deliver the 64-bit components of the Solaris operating environment. In general, the 64-bit package name ends with the letter “x.” For example, SUNWcsl delivers the 32-bit version of the Solaris Core Libraries, and SUNWcslx delivers the 64-bit version.

In a future Solaris release, 32-bit and 64-bit components might be delivered together in a single base package. The combined package retains the name of the original 32-bit package, and the 64-bit package would no longer be delivered. For example, /usr/lib/sparcv9/libc.so.1, which is currently delivered in SUNWcslx, would be delivered in SUNWcsl and SUNWcslx would no longer be delivered.

Note – Some packages only deliver 64-bit components and have no corresponding 32-bit package. In these cases, the packages might be renamed to remove the “x” suffix. For example, SUNW1394x might become SUNW1394.

Solaris 32-bit Sun4u Kernel

Many installations of the Solaris 7, 8, and 9 software use the default 64-bit kernel to support 32-bit and 64-bit applications. Customers who use the 32-bit kernel on UltraSPARC systems should read this notice.

In the Solaris 7, 8 and 9 operating environments, all systems that are based on the UltraSPARC I and UltraSPARC II processors provide administrators the choice of booting a 32-bit kernel or a 64-bit kernel. The UltraSPARC III and later systems support only the 64-bit kernel.

In a future release of the Solaris operating environment, the 32-bit kernel might not be available for the UltraSPARC I and UltraSPARC II systems.

The primary impact of these changes is to systems that rely on third-party, 32-bit kernel modules: firewalls, kernel-resident drivers, and replacement file systems, for example. These systems must be updated to use 64-bit versions of those modules.
Another impact of these changes is that UltraSPARC systems that contain UltraSPARC
I processors with clocks that run at 200 MHz or lower frequencies might not be
supported in a future release.

To identify the system’s kernel type, use the `isainfo(1)` command.

```
isainfo -kv
```

To identify the system’s processor clock rate, use the `psrinfo(1M)` command.

```
psrinfo -v | grep MHz
```

### Solaris Static System Libraries

This announcement applies only to 32-bit static-system libraries and statically linked
utilities. 64-bit static system libraries and utilities have never been provided.

Support for 32-bit Solaris static-system libraries and statically linked utilities might not
be provided in a future release. Of particular note, support for the static C library
(`/usr/lib/libc.a`) might not be provided in a future release.

Applications that are linked with existing static system libraries might not work in a
future release. Only applications that are dynamically linked with the system libraries
that provide the Solaris application binary interface (ABI) are designed for future
compatibility.

Applications that depend on the behavior of system traps might not work in a future
release. Applications that link with libraries that depend on the behavior of system
traps, typically libraries providing substitute ABI functions, also might not work in a
future release.

### Solaris Volume Manager Transactional Volume

Solaris Volume Manager’s Transactional Volumes (trans metadevices) might not be
supported in a future release to reduce redundancy on the Solaris feature set. Similar
capability is provided by UFS Logging, included in the Solaris 8 operating
environment, and compatible versions.

### Solstice Enterprise Agents

Solstice Enterprise Agents might not be supported in a future release.

### SPC Driver

The SPC driver might not be supported in a future release.

### Standalone Router Discovery

The `/usr/sbin/in.rdisc` implementation of the IPv4 ICMP Router Discovery
protocol might not be supported in a future release of the Solaris software. A
near-equivalent version of this protocol, which is implemented as a component of
/usr/sbin/in.routed, supports an enhanced administrative interface. The /usr/sbin/in.routed component supports the implementation of Routing Information Protocol (RIP) version 2. The /usr/sbin/in.routed component also has the ability to distinguish Mobile IP advertisements from Router Discovery messages.

Storage Interfaces

The following interfaces for device driver properties might not be supported in a future release of the Solaris operating environment:

- fast-writes (pln driver property)
- priority-reserve (pln driver property)

The following device drivers might not be supported in a future release of the Solaris operating environment:

- /kernel/drv/pln
- /kernel/drv/pln.conf
- /kernel/drv/sparcv9/pln
- /kernel/drv/soc
- /kernel/drv/sparcv9/soc

The following utility might not be supported in a future release of the Solaris operating environment:

- /usr/sbin/ssaadm

sun4m Hardware

sun4m hardware might not be supported in a future release of the Solaris operating environment.

Sun StorEdge A3000, Sun StorEdge A3500, and Sun StorEdge A3500FC Systems

Software support for the following storage devices might not be provided in a future release of the Solaris operating environment:

- Sun StorEdge™ A3000 System
- Sun StorEdge A3500 System
- Sun StorEdge A3500FC System

Tape Devices

The following tape devices might not be supported in a future release of the Solaris operating environment:

- Sun StorEdge™ DLT4700 Tape Autoloader
- Sun StorEdge L140 Tape Library
- Sun StorEdge L280 Tape Autoloader
- Sun StorEdge L400 Tape Library
Ulra AX and SPARCengine Ultra AXmp Graphics Card

Support for the Ultra™ AX and the SPARCengine Ultra AXmp graphics card might not be provided in a future release of the Solaris operating environment.

32-bit: X11 Static Libraries

Static libraries in /usr/openwin/lib might not be supported in a future release of the Solaris operating environment. Support for 32-bit static libraries in /usr/openwin/lib and programs that are statically linked with those libraries might not be provided in a future release. Sixty-four-bit static libraries have never been provided.

Applications that are linked with existing static libraries in /usr/openwin/lib might not work in a future release. Only applications that are dynamically linked with the shared libraries that provide the Solaris application binary interface (ABI) are designed for future compatibility.

XIL Interface

The XIL™ interface might not be supported in a future release. An application that uses XIL causes the following warning message to be displayed:

```
WARNING: XIL OBSOLESCENCE
This application uses the Solaris XIL interface
which has been declared obsolete and may not be present in version of Solaris beyond Solaris 9.
Please notify your application supplier.
The message can be suppressed by setting the environment variable 
"_XIL_SUPPRESS_OBSOLETE_MSG."
```

xetops Utility

The xetops utility might not be supported in a future release of the Solaris operating environment. The xetops utility converts an Asian text file to a PostScript file. This conversion enables Asian characters to be printed on PostScript printers that do not have resident Asian fonts.

Similar capability is provided in the mp command, which has been enhanced to support all of the native Asian encodings with more options and functionality.

xutops Print Filter

The xutops print filter might not be supported in a future release. Similar capability is provided by the mp print filter in the Solaris 9 8/03 operating environment.

For more information, see the mp(1) man page.
CHAPTER 4

Documentation Issues

This chapter describes known documentation problems.

Documentation Errata

**Document Affected:** *Sun WBEM SDK Developers Guide*

In the Solaris CIM schema, the following classes and properties are tagged with the Deprecated qualifier:

- Solaris_LogRecord class
- Solaris_LogService class
- Solaris_LogServiceSetting class
- Solaris_LogServiceSetting class
- OptionsEnabled property in Solaris_IPProtocolEndpoint class

Use suitable alternatives to these deprecated classes and properties. Refer to the class description qualifiers to determine the correct class and the correct property alternatives.

**Document Affected:** “Writing Client Applications” in *Sun WBEM SDK Developers Guide*

“Writing a Client Program” provides information about creating WBEM clients that use the RMI protocol with the javax.com.sun.client API. If you want to connect to a server that is running the Solaris 8 operating environment, you must include the /usr/sadm/lib/wbem/cimapi.jar file in the client’s CLASSPATH. The cimapi.jar file includes the com.sun.wbem classes that are required to communicate with a server that is running the Solaris 8 operating environment.

**Document Affected:** *Sun ONE Application Server 7 Developer’s Guide*

Note – This documentation pertains to the use of indexed deployment directories.
The numbering scheme part of a deployed application’s directory name has been implemented as an indexing mechanism. This mechanism enables a developer to modify a JAR or class file associated with the deployed application. This mechanism is significant to the Windows platform because of a sharing violation error that occurs during an attempt to overwrite a loaded file, Windows places a file lock on the loaded file. The file is loaded into the server instance or the IDE during session startup. With the sharing violation error, two options are possible:

- Compile the updated class file (originally part of that JAR file) and place it first in the classpath in order to be loaded before the older classes. Then allow for the Sun ONE Application Server to reload this application (as long as reload is active).
- Update the JAR file, create a new EAR file, and redeploy the application.

**Note** – Redeployment of the application on the Solaris platform is not necessary because no file-locking constraints exist.

When changing an already deployed application on the Windows platform for IDE setup, ANT file copy, or compile or other operations, be aware of another change. A new directory is created with an incremented index number as the workaround for the file-locking constraint. For example, on the Solaris platform the J2EE application, helloworld, is deployed to the Sun ONE Application Server with the following directory structure:

```
appserv/domains/domain1/server1/applications/j2ee-apps/helloworld_1
```

A change is then to be made to a servlet that is part of this deployed application (for example, HelloServlet.java). The Sun ONE Studio IDE is started, the source file for this servlet is changed and compiled with the javac target set to the previously mentioned directory. With the source compiled in the proper location, a reload file exists for this application. The reload flag in server.xml is set to true, and with the server instance running, the changes become effective without reassembly of the application and redeployment.

For the Windows platform, the JAR or class file cannot be altered and updated because of the file-locking issue. Therefore, you can resolve this issue on Windows in one of two ways:

- Compile the changed source file and prepend the class file or JAR in the classpath in order to make the source changes effective.
- Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld.

The second option is the preferred method because this option results in the use of the incremented index number appended to the deployed application’s directory name. After a second deployment of helloworld, the directory structures would resemble the following:
The second deployment of helloworld would be deployed under helloworld_2.
Solaris 9 8/03 Operating Environment Patch List

The patches that are listed in this appendix have been applied to the Solaris 9 8/03 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 9 8/03 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 that were applied to the installed system, regardless of how they were applied. The Solaris 9 8/03 operating environment includes a known and tested level of patches. However, patches cannot be backed out of the Solaris 9 8/03 operating environment.

**Note** – The Solaris 9 8/03 operating environment contains special patches that perform tasks that are specific to the Solaris release installation images. These patches are specific to each Solaris operating environment update release and do not apply to other systems or releases of the Solaris operating environment. Do not attempt to download or install these patches on other systems or installations of the Solaris operating environment.

### SPARC Patch List

- **111703-03** – SunOS 5.9: `/usr/ccs/bin/sccs` and `/usr/ccs/bin/make patch`

  4654328 4222874 4514485 4483221 4504348 4631517 4654957

- **111711-05** – 32-bit Shared library patch for C++

  4618537 4619221 4660290 4668167 4679619 4680478 4686364 4709155 4710815 4302954 4698028 4699194 4704604 4708982 4745600 4747931 4749398 4749628 4750936 4756106 4794587 4797953
117012-05 – 64-Bit Shared library patch for C++

I111722-04 – SunOS 5.9: Math Library (libm) patch

117012-06 – SunOS 5.9: Creator and Creator3D: FFB Graphics Patch

112233-07 – SunOS 5.9: Kernel Patch

112540-14 – SunOS 5.9: Expert3D IFB Graphics Patch

112565-12 – SunOS 5.9: XVR-1000 GFB Graphics Patch

112601-07 – SunOS 5.9: PGX32 Graphics

112617-02 – CDE 1.5: rpc.cmsd patch

112620-04 – SunOS 5.9: Elite3D AFB Graphics Patch

112635-08 – SunOS 5.9: Creator and Creator3D: FFB Graphics Patch
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\begin{itemize}
  \item \textbf{112622-09} – SunOS 5.9: M64 Graphics Patch
  
  \item \textbf{112625-01} – SunOS 5.9: Dcam1394 patch
  
  \item \textbf{112661-05} – SunOS 5.9: IIM and X Input & Output Method patch
  
  \item \textbf{112764-06} – SunOS 5.9: Sun Quad FastEthernet qfe driver
  
  \item \textbf{112771-13} – Motif 1.2.7 and 2.1.1: Runtime library patch for Solaris 9
  
  \item \textbf{112783-01} – X11 6.6.1: xterm patch
  
  \item \textbf{112785-20} – X11 6.6.1: Xsun patch
  
  \item \textbf{112787-01} – X11 6.6.1: twm patch
  
  \item \textbf{112804-01} – CDE 1.5: sdtname patch
  
  \item \textbf{112805-01} – CDE 1.5: Help volume patch
  
  \item \textbf{112806-01} – CDE 1.5: sdtaudiocontrol patch
  
  \item \textbf{112807-05} – CDE 1.5: dtlogin patch
  
  \item \textbf{112808-03} – OpenWindows 3.6.3: Tooltalk patch
  
  \item \textbf{112809-02} – CDE:1.5 Media Player (sdtjmplay) patch
\end{itemize}
- 112810-04 – CDE 1.5: dtmail patch
- 112811-01 – OpenWindows 3.7.0: Xview Patch
- 112812-01 – CDE 1.5: dtlp patch
- 112817-07 – SunOS 5.9: Sun GigaSwift Ethernet 1.0 driver patch
- 112834-02 – SunOS 5.9: patch scsi
- 112835-01 – SunOS 5.9: patch /usr/sbin/clinfo
- 112836-02 – SunOS 5.9: patch scsa2usb
- 112837-01 – SunOS 5.9: patch /usr/lib/inet/in.dhcpd
- 112838-06 – SunOS 5.9: pciefg Patch
- 112839-04 – SunOS 5.9: patch libthread.so.1
- 112840-03 – SunOS 5.9: patch platform/SUNW,Sun-Fire-15000/kernel/drv/sparcv9/axq
- 112841-06 – SunOS 5.9: drmach patch
- 112854-02 – SunOS 5.9: icmp Patch
- 112868-09 – SunOS 5.9: OS Localization message patch
- 112874-15 – SunOS 5.9: patch libc
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112875-01 – SunOS 5.9: patch /usr/lib/netsvc/rwall/rpc.rwalld

112904-07 – SunOS 5.9: tcp Patch

112905-02 – SunOS 5.9: ippctl Patch

112906-02 – SunOS 5.9: ipgpc Patch

112907-01 – SunOS 5.9: libgss Patch

112908-08 – SunOS 5.9: gl_kmech_krb5 Patch

112911-04 – SunOS 5.9: ifconfig Patch

112912-01 – SunOS 5.9: libinetcfg Patch

112913-01 – SunOS 5.9: fruadm Patch

112915-01 – SunOS 5.9: snoop Patch

112916-01 – SunOS 5.9: rtquery Patch

112917-01 – SunOS 5.9: ifrt Patch

112918-01 – SunOS 5.9: route Patch
- 112919-01 – SunOS 5.9: netstat Patch
  4645471
- 112920-02 – SunOS 5.9: libipp Patch
  4644731 4647361 4712511
- 112921-01 – SunOS 5.9: libkadm5 Patch
  4197937 4220042 4642879
- 112922-02 – SunOS 5.9: krb5 lib Patch
  4197937 4220042 4642879 4668699
- 112923-02 – SunOS 5.9: krb5 usr/lib Patch
  4197937 4220042 4642879 4703622
- 112924-01 – SunOS 5.9: kdestroy kinit klist kpasswd Patch
  4197937 4220042 4642879
- 112925-02 – SunOS 5.9: ktutil kdb5_util kadmin kadmin.local kadmind Patch
  4197937 4220042 4642879 464370
- 112926-04 – SunOS 5.9: smartcard Patch
  4366894 4524620 4629775 4635010 4635082 4636389 4639842 4642726 4646472 4646476
  4646497 4647454 4647542 4649161 4655166 4676018 4682730 4683241 4760613
- 112927-01 – SunOS 5.9: IPQos Header Patch
  4644731 4647361
- 112928-01 – SunOS 5.9: in.ndpd Patch
  4396697 4417647 4425786 4479794 4592876 4648388
- 112929-01 – SunOS 5.9: RIPv2 Header Patch
  1148813 1240645 4075054 4327168 4341344 4475921 4532805 4532808 4532860 4559001 4587434
  4635766 4637330 4637788 4648299
- 112941-07 – SunOS 5.9: sysidnet Utility Patch
  4519228 4678406 4683519 4698391 4698500 4704974 4711830 4719195 4759857 4787789 4807079
- 112943-08 – SunOS 5.9: Volume Management Patch
  4429002 4478237 4508734 4516578 4576802 4632847 4637525 4645142 4648750 456914 456931
  4660125 4664713 4696741 4704081 4715667 4730706 4739995 4764186 4773530 4791015 4791556
- 112945-19 – SunOS 5.9: wbem Patch
  4486297 4496120 4626762 4639638 4641801 4641818 4641851 4643267 4644880 4645051 4645080
  4645105 4645146 4645315 4645581 4645811 4647508 4648811 4649058 4654765 4655882 4656941
  4658145 4674537 4682188 4686244 4696284 4699585 4700539 4701067 4720857 4739720 4742164
  4742960 4754758 4759233 4766098 4766971 4768461 4769053 4769921 4769795 4769860
  4769889 4770013 4770017 4770024 4771207 4771466 4771469 4773485 4777931
  4781761 4782465 4786712 4786891 4792126 4795642 4796483 4796491 4796519 4796556 4807821
  4809906 4813116 4834362 4845276 4848716 4848759

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- 112951-05 – SunOS 5.9: patchadd and patchrm Patch
  4421583 4529289 4623249 4625879 4639323 4678605 4706994 4723617 4725419 4728892 4731056
  4737767 4744964 4750803 4759158 4767392
- 112954-04 – SunOS 5.9: uata Driver Patch
  4432931 4506478 4643720 4776171
- 112955-01 – SunOS 5.9: patch kernel/fs/autofs kernel/fs/sparcv9/autofs
  4471199 4631449
- 112958-02 – SunOS 5.9: patch pci.so
  4657365 4779758 4695771
- 112959-01 – SunOS 5.9: patch libfru
  463255 4661738
- 112960-06 – SunOS 5.9: patch libssl ldap_cachemgr
  4357827 4614945 4624458 4630226 4648140 4658625 4660019 4677591 4682120 4683522 4720818 4723361 4751386 4776571
- 112961-01 – SunOS 5.9: patch platform/SUNW,Ultra-Enterprise/kernel/drv/sysctrl
  4638234
- 112963-07 – SunOS 5.9: linker patch
  4461340 4504895 4526752 4529912 4533195 4546416 4616944 4622472 4622465 4630224 4633860 4638070 4642829 4651493 4651709 4654406 4655066 4662575 4664855 4668517 4669582 4671493 4696820 4698800 4701749 4706503 4707808 4710814 4714146 4715815 4728822 4730110 4730433 4731183 4739660 4743413 4744337 4745129 4745932 4746231 4753066 4754751 4755674 4765536 4766815 4770484 4770494 4772927 4774727 4775738 4778247 4778418 4779976 4783869 4787579 4790194 4792461 4793721 4796237 4802194 4804328 4806476 4811951 4816378 4817314
- 112964-04 – SunOS 5.9: /usr/bin/ksh Patch
  4223444 4702798 4750637 4786817 4790885 4801490
- 112965-01 – SunOS 5.9: patch /kernel/drv/sparcv9/eri
  4467555 4467562 4479894 4496082 4518457 4528597 4546894 4599774 4637678
- 112966-02 – SunOS 5.9: patch /usr/sbin/vold
  4638163 4794712
- 112967-04 – SunOS 5.9: /kernel/drv/nca Patch
  4487572 4629396 4631903 4650210 4681040
- 112968-01 – SunOS 5.9: patch /usr/bin/renice
  4502191
- 112970-04 – SunOS 5.9: patch libresolv.so.2
  4646349 4700305 4708913 4777715 4793327 4796596 4805812 4810893
- 112971-04 – SunOS 5.9: patch kernel/fs/cachefs
4368576 4398885 4493561 4615194

- 112972-03 – SunOS 5.9: patch /usr/lib/libssagent.so.1 /usr/lib/libssasnmp.so.1

4395096 4633918 4643121 4691177 4787450

- 112975-02 – SunOS 5.9: patch /kernel/sys/kaio

4682197 4802915

- 112985-03 – SunOS 5.9: Volume Management Localization message patch

4692900 4775188 4804590

- 112987-01 – SunOS 5.9: patch /platform/sun4u/kernel/tod/sparcv9/todsg

4618950

- 112998-03 – SunOS 5.9: patch /usr/sbin/syslogd

4243984 4424387 4558909 4665297 4670414 4670468 4674435 4705713 4772471 4787413 4812764

- 113020-02 – SunOS 5.9: SUNW_LOC changes needed to fix install problems with Euro

4674651 4683429 4752139

- 113021-02 – SunOS 5.9: yesstr, nostr nl_langinfo() strings incorrect

4660271 4752139

- 113023-01 – SunOS 5.9: Broken preremove scripts in S9 ALC packages

4707449

- 113024-06 – SunOS 5.9: wrsm Driver Patch

4114317 4519289 4619267 4633655 4634907 4636186 4644822 4646103 4661403 4661424 4668047 4683307 4684649 4694445 4699257 4703343 4719669 4733732 4738280 4762184 4772117 4791375 4801624 4803265 4812284 4816791 4820881 4823616 4823794 4824314 4828785 4841551 4872902

- 113026-10 – SunOS 5.9: /kernel/drv/md Patch

1101554 4352265 4373671 4409244 4462054 4508010 4525396 4615381 4615387 4628758 4631270 4632281 4634737 4640578 4643091 4647352 4648067 4653481 4655532 4662172 4665951 4666299 4668224 4668960 4669927 4678627 4680610 4683907 4690701 4690983 4696312 4698878 4701093 4705486 4705513 4710390 4711136 4711969 4714648 4714923 4715369 4715443 4718706 4720138 4721112 4723547 4725693 4733518 4740375 4742084 4772960 4774716 4780601 4796430 4802281 4808079 4808489 4814438 4816970 4830061 4834259

- 113027-02 – SunOS 5.9: libfrureg.so.1 Patch

4687199 4726567

- 113028-01 – SunOS 5.9: patch /kernel/ipp/flowacct

4645622 4658416

- 113029-04 – SunOS 5.9: libaio.so.1 libr.t.so.1 and abi_libaio.so.1 Patch

4222093 4491712 4529739 4529831 4529893 4635940 4635945 4636591 4665847 4785625

- 113030-02 – SunOS 5.9: /kernel/sys/doorfs Patch

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- 113031-01 – SunOS 5.9: /usr/bin/edit Patch
- 113032-02 – SunOS 5.9: /usr/sbin/init Patch
- 113033-03 – SunOS 5.9: patch /kernel/drv/isp and /kernel/drv/sparcv9/isp
- 113038-05 – SunOS 5.9: JFP manpages patch
- 113046-01 – SunOS 5.9: fcp Patch
- 113049-01 – SunOS 5.9: luxadm & liba5k.so.2 Patch
- 113068-04 – SunOS 5.9: hpc3130 patch
- 113070-01 – SunOS 5.9: ftp patch
- 113071-01 – SunOS 5.9: /usr/sbin/acctadm Patch
- 113072-06 – SunOS 5.9: patch /usr/sbin/format
- 113073-04 – SunOS 5.9: ufs_log patch
- 113074-04 – SunOS 5.9: ngdr.conf patch
- 113075-01 – SunOS 5.9: pmap patch
- 113076-02 – SunOS 5.9: dhcpmgr.jar Patch
- 113077-06 – SunOS 5.9: /platform/sun4u/kernal/drv/su Patch
- 113085-02 – SunOS 5.9: Thai font enhancement
- 113086-01 – SunOS 5.9: iconv modules between zh_CN.euc and UTF-8 are incompatible
- 113087-01 – SunOS 5.9: Cannot use other fonts to display Asian characters in xterm
- 113088-01 – SunOS 5.9: SPECIAL PATCH: Safe default permission violations
- 113089-01 – SunOS 5.9: SPECIAL PATCH: Bad postremove script of SUNWkuxft
- 113090-01 – SunOS 5.9: SPECIAL PATCH: Bad postinstall script of SUNWcdft
- 113096-03 – X11 6.6.1: OWconfig patch
- 113098-04 – X11 6.6.1: X RENDER extension patch
- 113113-01 – SunOS 5.9: Problem with depend file of SUNWhdcl with HK locales in S9
- 113125-01 – SunOS 5.9: missing libc_psr.so.1 symlink
- 113145-02 – SunOS 5.9: Naturetech /platform links are not exist
- 113146-02 – SunOS 5.9: Apache Security Patch
- 113167-01 – SunOS 5.9: JFP xhost manpage patch
- 113168-02 – SunOS 5.9: JFP Japanese TrueType Font
- 113219-01 – SunOS 5.9: patch /platform/SUNW,Ultra-Enterprise/kernel/drv/fhc
- 113220-01 – SunOS 5.9: patch /platform/sun4u/kernel/drv/sparcv9/upa64s
- 113221-03 – SunOS 5.9: libprtdiag_psr.so.1 Patch
113222-03 – SunOS 5.9: patch /kernel/misc/nfssrv and /kernel/misc/sparcv9/nfssrv

113223-02 – SunOS 5.9: idn Patch

113224-01 – SunOS 5.9: efdaemon Patch

113225-01 – SunOS 5.9: 2002c Timezone Patch

113226-02 – SunOS 5.9: hme Driver Patch

113228-01 – SunOS 5.9: 64 bit locale links missing in Solaris 9

113240-05 – CDE 1.5: dtsession patch

113244-01 – CDE 1.5: dtwm patch

113273-02 – SunOS 5.9: /usr/lib/ssh/sshd Patch

113274-01 – SunOS 5.9: libdhcputil Patch

113275-02 – SunOS 5.9: procfs Patch

113277-11 – SunOS 5.9: sd and ssd Patch

113278-01 – SunOS 5.9: NFS Daemon Patch

113279-01 – SunOS 5.9: klmmod Patch

113280-02 – SunOS 5.9: patch /usr/bin/cpio
- 113281-01 – SunOS 5.9: patch /usr/lib/netsvc/yp/ypbind

- 113318-07 – SunOS 5.9: patch /kernel/fs/nfs and /kernel/fs/sparcv9/nfs

- 113319-11 – SunOS 5.9: patch /usr/lib/libnsl.so.1

- 113320-03 – SunOS 5.9: patch se driver

- 113321-04 – SunOS 5.9: patch sf and socal

- 113322-01 – SunOS 5.9: patch uucp

- 113323-01 – SunOS 5.9: patch /usr/sbin/passmgmt

- 113325-01 – SunOS 5.9: patch powerd

- 113326-01 – SunOS 5.9: tar Patch

- 113327-02 – SunOS 5.9: pppd Patch

- 113328-01 – SunOS 5.9: tmpfs Patch

- 113329-02 – SunOS 5.9: lp Patch

- 113330-01 – SunOS 5.9: rpcbind Patch

- 113331-01 – SunOS 5.9: usr/lib/nfs/rquotad Patch

- 113332-04 – SunOS 5.9: libc_psr.so.1 Patch

- 113334-02 – SunOS 5.9: udfs Patch

- 113335-01 – SunOS 5.9: devinfo Patch
113361-04 – SunOS 5.9: Sun Gigabit Ethernet 3.0 driver patch

113374-02 – X11 6.6.1: xpr patch

113390-01 – SunOS 5.9: CTYPE errors in "ar" locale

113391-01 – SunOS 5.9: S9: CTYPE errors in "He_IL"/"he" locales

113400-01 – SunOS 5.9: zh_CN.GBK is incomplete for 64 bit

113403-03 – SunOS 5.9: Tamil/Kannada/Gujarati/Bengali support

113405-02 – SunOS 5.9: sync with 4751190 for th_TH.UTF-8 locales

113407-03 – SunOS 5.9: Added Five stroke input method support in S9UR

113409-01 – SunOS 5.9: SPECIAL PATCH: Missing locales in SUNW_LOC in s9u3

113424-01 – CDE 1.5: message patch to add IM title in the workspace menu

113432-08 – SunOS 5.9: Introduction Fujitsu SPARC64-V platforms patch

113434-10 – SunOS 5.9: /usr/snadm/lib Library and Differential Flash Patch

113445-02 – SunOS 5.9: schpc Patch

113446-02 – SunOS 5.9: dman Patch

113447-01 – SunOS 5.9: libprtdiag_psr Patch
- 113449-02 – SunOS 5.9: gld Patch
  4667724 4747714 4772712

- 113451-03 – SunOS 5.9: IKE Patch
  4508547 4628974 4628901 46553051 4666686 4673333 4687237 4704460 4739746 4741543 4745493 4745709

- 113453-04 – SunOS 5.9: sockfs patch
  4640282 4640982 4653919 4672604 4672991 4681040 4711013 4799039

- 113454-08 – SunOS 5.9: ufs Patch
  1101554 4371826 4409244 4490164 4507281 4512855 4640210 4662795 4663287 4714988 4734635 4763047 4764514 4766103 4794712 4815160

- 113456-01 – SunOS 5.9: adb modules
  1101554 4409244

- 113457-02 – SunOS 5.9: ufs headers
  1101554 4409244 4794712

- 113459-02 – SunOS 5.9: udp patch
  4511634 4727825

- 113464-04 – SunOS 5.9: IPMP Headers Patch
  4373671 4462054 4647352 4661975 4676731 4710160 4714648 4715443 4720138 4830061 4834259

- 113467-01 – SunOS 5.9: seg_drv & seg_mapdev Patch
  4533078 4533108 4630754 4638608 4644346 4648171

- 113470-01 – SunOS 5.9: winlock Patch
  4533078 4533108 4630754 4638608 4644346 4648171

- 113471-02 – SunOS 5.9: truss Patch
  4254013 4533078 4533108 4533712 4630754 4638608 4644346 4648171

- 113472-01 – SunOS 5.9: madv & mpss lib Patch
  4533078 4533108 4630754 4638608 4644346 4648171

- 113475-02 – SunOS 5.9: usr/lib/security crypt Patch
  4192824 4248430 4390053 4700602 4715561

- 113476-05 – Obsoleted by: 113476-06 SunOS 5.9: usr/lib/pwswdutil.so.1
  pam_ldap Patch
  4192824 4248430 4357827 4390053 4658625 4660019 4670947 4677591 4682120 4683522 4700602 4709300 4743707 4747441 4751394 4754634 4756113

- 113477-02 – SunOS 5.9: SPECIAL PATCH: class action replacement scripts
  4712441

- 113480-02 – SunOS 5.9: usr/lib/security/pam_unix.so.1 Patch
113482-01 – SunOS 5.9: sbin/sulogin Patch

113483-02 – SunOS 5.9:usr/lib/netsvc/yp/rpc.yppasswd Patch

113484-02 – SunOS 5.9: WBEM SDK Localization message patch

113485-01 – SunOS 5.9: DHCP Manager Localization message patch

113488-01 – SunOS 5.9: Field Replacement Unit ID Platform & Access Library Patch

113489-04 – SunOS 5.9: sbd & sbdp Patch

113490-02 – SunOS 5.9: Audio Device Driver Patch

113492-03 – SunOS 5.9: fsck Patch

113493-01 – SunOS 5.9: libproc.so.1 Patch

113494-01 – SunOS 5.9: iostat Patch

113495-02 – SunOS 5.9: cfgadm Library Patch

113496-01 – SunOS 5.9: inetd Patch

113503-01 – SunOS 5.9: GigaSwift Ethernet 1.0 special postinstall script patch

113513-02 – X11 6.6.1: platform support for new hardware

113538-05 – SunOS 5.9: ngdr Patch

113541-02 – X11 6.6.1: XKB patch
- 113571-02 – SunOS 5.9: eFCode & fcgp2 Patch
  4495650 4692542
- 113572-01 – SunOS 5.9: docbook-to-man.ts Patch
  4649171
- 113573-02 – SunOS 5.9: libpsvc Patch
  4487110 4640559 4660073 4661192 4718737
- 113574-03 – SunOS 5.9: SUNW,Sun-Fire-880 libpsvc Patch
  4487110 4636540 4661192 4718737 4721200 4808786
- 113575-04 – SunOS 5.9: sendmail Patch
  4678365 4697068 4704672 4706596 4706608 4706632 4706650 4720281 4725387 4728227
  4737586 4756570 4798135 4808977 4809539 4826809 4835344 4839833
- 113576-01 – SunOS 5.9: /usr/bin/dd Patch
  4632818
- 113577-01 – SunOS 5.9: /usr/kernel/sched/FX Patch
  4701391
- 113578-01 – SunOS 5.9: inetboot Patch
  4670609
- 113579-01 – SunOS 5.9: ypserv/ypxfrd Patch
  4737417
- 113580-01 – SunOS 5.9: mount Patch
  4715028
- 113581-01 – CDE 1.5: message patch to add to /usr/dt/bin/dtlp
  4646929
- 113584-01 – SunOS 5.9: yesstr, nostr nl_langinfo() strings incorrect in S9
  4745109
- 113713-04 – SunOS 5.9: pkginstall Patch
  4405634 4720211 4786593 4813860 4826609 4848801 4851760
- 113716-01 – SunOS 5.9: sar & sadc Patch
  4627454 4723484
- 113717-06 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files
  4712441
- 113718-02 – SunOS 5.9: usr/lib/utmp_update Patch
  4659277 4705891
- 113720-01 – SunOS 5.9: rootnex Patch
- 113742-01 – SunOS 5.9: smcprecon.sh Patch
- 113746-01 – SunOS 5.9: uxlibc Localization message patch
- 113762-02 – X11 6.6.1: xdm patch
- 113764-02 – X11 6.6.1: keyboard patch
- 113789-01 – CDE 1.5: dtexec patch
- 113796-02 – CDE 1.5: Tooltalk patch
- 113798-01 – CDE 1.5: libDtSvc patch
- 113799-01 – SunOS 5.9: solregis Patch
- 113813-02 – SunOS 5.9: Gnome Integration Patch
- 113831-02 – SunOS 5.9: Estonian decimal point character incorrect
- 113839-01 – CDE 1.5: sdtwsinfo patch
- 113841-01 – CDE 1.5: answerbook patch
- 113859-02 – SunOS 5.9: Sun ONE Directory Server 5.1 patch
- 113861-02 – CDE 1.5: dtksh patch
- 113863-01 – CDE 1.5: dtconfig patch
- 113868-01 – CDE 1.5: PDASync patch
- 113896-03 – SunOS 5.9: en_US.UTF-8 locale patch
- 113902-03 – SunOS 5.9: Asian UTF-8 iconv modules enhancement
- 113904-03 – SunOS 5.9: 7 indic scripts support in Asian UTF-8 locales
- 113906-01 – SunOS 5.9: Fixed some functional problems in Chinese locales
- 113908-01 – SunOS 5.9: SPECIAL PATCH: Missing locales in SUNW_LOC for SUNWinttf
- 113909-01 – SunOS 5.9: SPECIAL PATCH: Broken preremove script in S9U3 Asia BCP pkgs
- 113911-01 – SunOS 5.9: BCP applications hangs with NIS in asian locales
- 113923-02 – X11 6.6.1: security font server patch
- 113964-08 – SunOS 5.9: usr/sbin/6to4relay patch
- 113973-01 – SunOS 5.9: adb Patch
- 113975-01 – SunOS 5.9: ssm Patch
- 113977-01 – SunOS 5.9: awk/sed pkgscripts Patch
- 113978-01 – SunOS 5.9: syseventconfd Patch
  4737409 4743939
- 113981-02 – SunOS 5.9: devfsadm Patch
  4334693 4517655 4622990 4703964 4716238 4734853
- 113984-01 – SunOS 5.9: iosram Patch
  4721302
- 113993-04 – SunOS 5.9: mkfs Patch
  4708464 4721124 4794712 4839900
- 114003-01 – SunOS 5.9: bbc driver Patch
  4706975
- 114004-01 – SunOS 5.9: sed Patch
  4727485
- 114006-01 – SunOS 5.9: tftp Patch
  4656587
- 114008-01 – SunOS 5.9: cachefsd Patch
  1250956 4110712 4230685 4338920 4467621 4507274 4616030 4698882 4698886 4740460
- 114010-02 – SunOS 5.9: m4 Patch
  4174383 4837874
- 114014-05 – SunOS 5.9: libxml, libxslt and Freeware man pages Patch
  4634845 4665029 4668974 4702333 4708162 4467621 4507274 4616030 4698882 4698886 4740460
- 114016-01 – tomcat security patch
  4759554
- 114020-02 – 5.9: Synching Euro UTF-8s to include Indic scripts, arabic chars
  4773318 4788627
- 114033-01 – SunOS 5.9: Fixing hebrew input method problems
  4755447
- 114037-02 – SunOS 5.9: patch for supporting Unicode3.2 & indic script
  4774476 4823451
- 114039-01 – SunOS 5.9: Bug fix for dtpad column in Euro UTF-8 locales
  4773166
- 114049-03 – SunOS 5.9: Netscape Portable Runtime(4.1.4)/Network Security System(3.3.4)
  4840298 4840300 4840303 4856631
- 114125-01 – SunOS 5.9: IKE should support hardware assist for certs and Oakley
- 114126-02 – SunOS 5.9: todds1287 patch
- 114127-01 – SunOS 5.9: abi_libefi.so.1 Patch
- 114128-01 – SunOS 5.9: sd_lun patch
- 114129-01 – SunOS 5.9: multi-terabyte disk support -libuuid patch
- 114131-01 – SunOS 5.9: multi-terabyte disk support - libadm.so.1 patch
- 114132-01 – SunOS 5.9: fmthard patch
- 114133-01 – SunOS 5.9: mail Patch
- 114135-01 – SunOS 5.9: at utility Patch
- 114153-01 – SunOS 5.9: Japanese SunOS 4.x Binary Compatibility(BCP) patch
- 114165-01 – CDE 1.5: SUNWsregu Localization message patch
- 114211-01 – SunOS 5.9: WBEM Localization message patch
- 114215-03 – SunOS 5.9: Install/admin Localization message patch
- 114217-03 – SunOS 5.9: Install/admin Localization message patch
- 114219-02 – CDE 1.5: sdtimage patch
- 114221-02 – SunOS 5.9: UR bug fixes
- 114224-01 – SunOS 5.9: csh Patch
- 114226-01 – SunOS 5.9: zsh driver Patch
- 114227-01 – SunOS 5.9: yacc Patch
- 114229-01 – SunOS 5.9: action_filemgr.so.1 Patch
- 114231-02 – SunOS 5.9: rpcmod Patch
- 114233-02 – SunOS 5.9: rsm Patch
- 114235-01 – SunOS 5.9: libsendfile.so.1 Patch
- 114244-01 – SunOS 5.9: some characters can’t be shown in GBK and GB18030 locales
- 114249-01 – SunOS 5.9: SPECIAL PATCH: Broken preremove scripts in some of S9 pkgs
- 114276-02 – 5.9: Adds extended Arabic support in UTF-8
- 114282-01 – CDE 1.5: libDtWidget patch
- 114312-01 – CDE1.5: GNOME/CDE Menu for Solaris 9
- 114321-02 – SunOS 5.9: Patch Manager Localization message patch
- 114325-01 – SunOS 5.9: psvcobj Patch
- 114326-02 – SunOS 5.9: /usr/lib/dcs Patch
- 114329-01 – SunOS 5.9: /usr/bin/pax Patch
- 114331-01 – SunOS 5.9: power Patch
- 114332-05 – SunOS 5.9: c2audit & *libbsm.so.1 Patch
- 114335-01 – SunOS 5.9: ussr/sbin/rmmount Patch
- 114338-01 – SunOS 5.9: todm5819 Patch
- 114339-01 – SunOS 5.9: wrsm header files Patch
- 114340-01 – SunOS 5.9: SUNW_filesys_rcm.so Patch
- 114344-02 – SunOS 5.9: kernel/drv/arp Patch
- 114347-01 – SunOS 5.9: etc/init.d/efcode Patch
- 114349-01 – SunOS 5.9: sbin/dhcpagent Patch
- 114352-03 – SunOS 5.9: /etc/inet/inetd.conf Patch
- 114356-01 – SunOS 5.9: /usr/bin/ssh Patch
- 114359-01 – SunOS 5.9: mc-us3 Patch
- 114360-01 – SunOS 5.9: platform/sun4u/cprboot Patch
- 114361-01 – SunOS 5.9: /kernel/drv/lofi Patch
- 114363-01 – SunOS 5.9: sort Patch
- 114369-01 – SunOS 5.9: prtvtoc patch
- 114370-02 – SunOS 5.9: libumem.so.1 patch
114371-01 – SunOS 5.9: UMEM - libumem (mdb components) patch
114372-01 – SunOS 5.9: UMEM - llib-lumem patch
114373-01 – SunOS 5.9: UMEM - abi_libumem.so.1 patch
114374-01 – SunOS 5.9: Perl patch
114375-06 – SunOS 5.9: Enchilada/Stiletto - PICL & FRUID
114376-03 – SunOS 5.9: Enchilada/Stiletto - platform links
114377-03 – SunOS 5.9: Enchilada/Stiletto - BSC comms support
114378-02 – SunOS 5.9: Enchilada/Stiletto TOD driver
114379-02 – SunOS 5.9: Enchilada/Stiletto - libprtdiag support
114380-01 – SunOS 5.9: Enchilada/Stiletto - rmc_comm/rmcadm/rmclomv/librsc support
114383-02 – SunOS 5.9: Enchilada/Stiletto - pca9556 driver
114385-03 – SunOS 5.9: Enchilada/Stiletto - pmugpio pmubus driver
114386-02 – SunOS 5.9: todm5819p_rmc driver patch
114387-02 – SunOS 5.9: Enchilada/Stiletto - scadm support
114388-02 – SunOS 5.9: dmfe driver patch
114389-02 – SunOS 5.9: devinfo doesn’t work on disks with EFI labels
- 114390-01 – SunOS 5.9: Slot 1 DR - GPTWOCFG patch
- 114391-01 – SunOS 5.9: Slot 1 DR - Hotplug Patch
- 114392-01 – SunOS 5.9: Slot 1 DR - Efcode Patch
- 114393-02 – SunOS 5.9: cpc Patch
- 114394-02 – SunOS 5.9: trapstat Patch
- 114395-03 – SunOS 5.9:
- 114418-03 – SunOS 5.9: cpr patch
- 114470-04 – SunOS 5.9: XVR-4000 Graphics Patch
- 114473-03 – SunOS 5.9: Introduction Fujitsu SPARC64-V platforms patch
- 114482-04 – SunOS 5.9: Product Registry CLI Revision
- 114495-01 – CDE 1.5: dtprintinfo patch
- 114501-01 – SunOS 5.9: drmproviders.jar Patch
- 114503-03 – SunOS 5.9: uss/sadm/lib/usrmgr/VUserMgr.jar Patch
- 114507-01 – SunOS 5.9: date problems in he_IL.UTF-8 locale
- 114509-01 – SunOS 5.9: cs_CZ Locale not usable
- 114510-01 – SunOS 5.9: Introduction Fujitsu SPARC64-V platforms patch
- 114513-03 – SunOS 5.9: patch for Japanese and English X man pages
- 114516-01 – SunOS 5.9: patch for English sdtudctool man pages for S9UR3
  4808428
- 114520-06 – SunOS 5.9: SPECIAL PATCH: For postinstall script
  4786712 4809906 4834885 4825349
- 114538-03 – SunOS 5.9: Sun XVR-100 Graphics Accelerator Patch
  4820147 4820254 4821832 4822149 4822443 4823003 4824233 4827346 4827720 4827837 4832885
- 114555-06 – SunOS 5.9: Sun XVR-1200 Graphics Accelerator Patch
  4807907 4808263 4767906 4819200 4799602 4822159 4822276 4833546 4830544 4744371 4835514 4834943 4837418 4837176 4837510 4847177
- 114561-01 – X11 6.6.1: X splash screen patch
  4807285
- 114564-01 – SunOS 5.9: /usr/sbin/in.ftpd Patch
  4714534
- 114566-02 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files
- 114569-02 – SunOS 5.9: libdbm.so.1 Patch
  4668699 4825407
- 114571-01 – SunOS 5.9: libc.so.*.9/bcp Patch
  4668699
- 114586-01 – SunOS 5.9: bzip Patch
  4634845 4659775
- 114598-01 – 5.9: UTF-8 drcm chars not appearing
  4787603
- 114602-02 – X11 6.6.1: libmpg_psr patch
  4649547 4830251
- 114607-02 – SunOS 5.8: SPECIAL PATCH: pkginfo replacement scripts (S9U3)
- 114612-01 – SunOS 5.9: ANSI-1251 encodings file errors
  4812123
- 114614-02 – SUNOS 5.9: Ar, He, es, It fixes unicode3.2
  4811236 4778180 4796228 4681931 4832943 4832923
- 114633-02 – SunOS 5.9: ja_JP.UTF-8 locale patch
  4749205 4868872
- 114636-02 – SunOS 5.9: KCMS security fix
  4661008 4774256
- 114641-02 – SunOS 5.9: Japanese iconv for UTF-8 patch

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- 114654-02 – CDE 1.5: SmartCard patch
- 114660-02 – CDE 1.5: PDASync patch
- 114677-01 – SunOS 5.9: International Components for Unicode Patch
- 114684-02 – SunOS 5.9: samba Patch
- 114711-02 – SunOS 5.9: /usr/sadm/lib/diskmgr/VDiskMgr.jar Patch
- 114713-01 – SunOS 5.9: newtask Patch
- 114716-01 – SunOS 5.9: /usr/bin/rcp Patch
- 1149636
- 114718-01 – SunOS 5.9: /usr/kernel/fs/pcfs Patch
- 114721-03 – SunOS 5.9: ufsrestore and ufsdump Patch
- 114729-01 – SunOS 5.9: /usr/sbin/in.telnetd Patch
- 114731-02 – SunOS 5.9: kernel/drv/glm Patch
- 114734-01 – SunOS 5.9: /usr/ccs/bin/lorder Patch
- 114736-01 – SunOS 5.9: /usr/sbin/nisrestore Patch
- 114818-02 – GNOME 2.0.0: libpng Patch
- 114855-01 – SunOS 5.9: /usr/kernel/drv/sppp Patch
- 114861-01 – SunOS 5.9: /usr/sbin/wall

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- 114863-01 – SunOS 5.9: /platform/sun4u/kernel/misc/forthdebug Patch
- 114875-01 – SunOS 5.9: XML library source patch
- 114923-01 – SunOS 5.9: /usr/kernel/drv/logindmux Patch
- 114926-01 – SunOS 5.9: kernel/drv/audiocs Patch
- 114927-01 – SunOS 5.9: usr/sbin/allocate Patch
- 114930-01 – SunOS 5.9: Sun-Fire-480R libprtdiag_psr.so.1 Patch
- 114934-01 – SunOS 5.9: usr/platform links patch
- 114951-01 – SunOS 5.9: FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 1.0
- 114963-01 – SunOS 5.9: SCRIPT patch
- 114965-01 – SunOS 5.9: SPECIAL PATCH: For editable files only
- 114971-01 – SunOS 5.9: usr/kernel/fs/namefs Patch
- 114974-01 – SunOS 5.9: kernel/drv/ifp Patch
- 114975-01 – SunOS 5.9: usr/lib/inet/dhcp/svcadm/dhcpcommon.jar Patch
- 114977-01 – SunOS 5.9: kernel/drv/ipsecah Patch
- 114994-01 – SunOS 5.9: FUJITSU PCI GigabitEthernet 2.0
- 115004-01 – SunOS 5.9: /kernel/misc/kbtrans patch
- 115006-01 – SunOS 5.9: kernel/strmod/kb patch
- 115008-01 – SunOS 5.9: /usr/sbin/ipqosconf patch
- 115010-01 – SunOS 5.9: Providing Platform Support for Enchilada Tower Server
- 115012-01 – SunOS 5.9: Sunfire-V250-Enchilada-Tower librsc patch
- 115014-01 – SunOS 5.9: /usr/platform/SUNW,Sun-Fire-V250/sbin/scadm patch
- 115016-01 – SunOS 5.9: patch ipmp
- 115018-01 – SunOS 5.9: patch /usr/lib/adb/dqblk
- 115020-01 – SunOS 5.9: patch /usr/lib/adb/ml_odunit
- 115022-01 – SunOS 5.9: quota utilities
- 115024-01 – SunOS 5.9: file system identification utilities
- 115026-01 – SunOS 5.9: Multiterabyte UFS file system maintenance tools
- 115028-01 – SunOS 5.9: patch /usr/lib/fs/ufs/df
- 115030-01 – SunOS 5.9: Multiterabyte UFS - patch mount
- 115071-01 – SunOS 5.9: script patch for FJVvplu pkginfo files
- 115158-04 – X11 6.6.1: xscreensaver patch
- 115161-01 – CDE 1.5: Addition of IFD card reader support for localization
- 111713-02 – Shared library patch for C++ _x86

x86 Patch List
- 111728-03 – SunOS 5.9_x86: Math Library (libm) patch
- 112234-07 – SunOS 5.9_x86: Kernel Patch
- 112662-03 – SunOS 5.9_x86: IIIM and X Input & Output Method patch
- 112786-10 – X11 6.6.1_x86: Xsun patch
- 113099-01 – X11 6.6.1_x86: X RENDER extension patch
- 113241-05 – CDE 1.5_x86: dtsession patch
- 113245-01 – CDE 1.5_x86: dtwm patch
- 113375-01 – X11 6.6.1_x86: xpr patch
- 113404-03 – SunOS 5.9_x86: Tamil/Kannada/Gujarati/Bengali support
- 113406-02 – SunOS 5.9_x86: sync with 4751190 for th_TH.UTF-8 locales
- 113408-03 – SunOS 5.9_x86: Added Five stroke input method support in S9UR
- 113542-01 – X11 6.6.1_x86: XKB patch
- 113590-03 – SunOS 5.9_x86: JFP manpages patch
- 113719-04 – SunOS 5.9_x86: libnsl & rpc.nispasswdd Patch
- 113763-02 – X11 6.6.1_x86: xdm patch
- 113765-02 – X11 6.6.1_x86: keyboard patch
113790-01 – CDE 1.5_x86: dtexec patch

113797-02 – OpenWindows_x86 3.6.3: Tooltalk patch

113832-02 – SunOS 5.9_x86: Estonian decimal point character incorrect

113838-01 – CDE 1.5_x86: libDtSvc patch

113840-01 – CDE 1.5_x86: sdtwsinfo patch

113842-01 – CDE 1.5_x86: answerbook patch

113846-01 – CDE 1.5_x86: sdtjmplay patch

113862-02 – CDE 1.5_x86: dtksh patch

113864-01 – CDE 1.5_x86: dtconfig patch

113867-08 – Motif 1.2.7_x86 and 2.1.1_x86: Runtime library patch for Solaris 9

113869-01 – CDE 1.5_x86: PDASync patch

113870-03 – CDE 1.5_x86: dtmail patch

113893-03 – SunOS 5.9_x86: Asian UTF-8 iconv modules enhancement

113903-03 – SunOS 5.9_x86: 7 indic scripts support in Asian UTF-8 locales

113907-01 – SunOS 5.9_x86: Fixed some functional problems in Chinese locales
- 113910-01 – SunOS 5.9_x86: Thai font enhancement
- 113924-02 – X11 6.6.1_x86: security font server patch
- 113966-04 – SunOS 5.9_x86: OS Localization message patch
- 113968-02 – SunOS 5.9_x86: Volume Management Localization message patch
- 113969-01 – SunOS 5.9_x86: uxlbc Localization message patch
- 113970-01 – SunOS 5.9_x86: DHCP Manager Localization message patch
- 113974-01 – SunOS 5.9_x86: adb Patch
- 113979-01 – SunOS 5.9_x86: syseventconfd Patch
- 113986-03 – SunOS 5.9_x86: linker Patch
- 113987-06 – SunOS 5.9_x86: nfs Patch
- 113988-04 – SunOS 5.9_x86: libc Patch
- 113990-02 – SunOS 5.9_x86: gl_kmech_krb5 Patch
- 113991-01 – SunOS 5.9_x86: sar & sadc Patch
- 113994-09 – SunOS 5.9_x86: md_sp Patch
- 113995-01 – SunOS 5.9_x86: doorfs Patch
  4699850
- 113996-02 – SunOS 5.9_x86: utmp_update Patch
  4659277 4705891
- 113998-03 – SunOS 5.9_x86: mkfs Patch
  4721124 4794712 4839900
- 113999-02 – SunOS 5.9_x86: devfsadm Patch
  4334693 4517655 4622990 4703964 4716238 4734853
- 114002-01 – SunOS 5.9_x86: awk & sed Patch
  4435976 4737594
- 114005-01 – SunOS 5.9_x86: sed Patch
  4727485
- 114007-01 – SunOS 5.9_x86: tftp Patch
  4656587
- 114009-01 – SunOS 5.9_x86: cachefs Patch
  1250956 4110712 4230685 4338920 4467621 4507274 4616030 4698882 4698886 4740460
- 114011-02 – SunOS 5.9_x86: m4 Patch
  4174383 4837874
- 114012-02 – SunOS 5.9_x86: sockfs Patch
  4640282 4672604 4672991 4799039
- 114015-05 – SunOS 5.9_x86: libxml, libxslt and Freeware man pages Patch
  4634845 4665029 4668974 4702333 4708162 4768591 4781721 4787493 4806701 4822718 4833908 4839883 4839885
- 114017-01 – SunOS 5.9_x86: tomcat security patch
  4759554
- 114021-02 – 5.9_x86: Synching Euro UTF-8s to include Indic scripts, arabic chars
  4773318 4788627
- 114034-02 – SunOS 5.9_x86: Fixing hebrew/arabic dtlogin/input method problems
  4755447 4770382 4791206
- 114038-02 – SunOS 5.9_x86: patch for supporting Unicode3.2 & indic script
  4774476 4823451
- 114040-01 – SunOS 5.9_x86: Bug fix for dtpad column in Euro UTF-8 locales
  4773166
- 114124-05 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files
  4712441 4805954
- 114134-01 – SunOS 5.9_x86: mail Patch
  4705717
- 114136-01 – SunOS 5.9_x86: at utility Patch
  4776480
- 114137-03 – SunOS 5.9_x86: sendmail Patch
  4697068 4706596 4706608 4706660 4728227 4737586 4756570 4798135 4808977 4809539
  4826809 4835344 4839833
- 114145-01 – SunOS 5.9_x86: Apache Security Patch
  4737442 4759882 4768221
- 114166-01 – CDE 1.5_x86: SUNWsregu Localization message patch
  4762680
- 114185-01 – CDE 1.5_x86: rpc.cmsd patch
  4687131
- 114191-03 – SunOS 5.9_x86: sysidnet Utility Patch
  4519228 4678406 4683519 4698391 4698500 4704974 4711830 4719195 4759857 4787789 4807079
- 114192-05 – SunOS 5.9_x86: Volume Management Patch
  4429002 4478237 4508734 4516578 4576802 4632847 4637525 4645142 4648750 4656914 4656931
  4660125 4664713 4696741 4704081 4715667 4730706 4739995 4764186 4773530 4791015 4791556
- 114193-12 – SunOS 5.9_x86: wbem Patch
  4486297 4496120 4626762 4639638 4641801 4641818 4641851 4643267 4644880 4645051 4645080
  4645105 4645146 4645315 4645581 4645811 4647508 4648811 4649058 4654765 4655882 4656941
  4658145 4674537 4682188 4686244 4696284 4699585 4700539 4701067 4720857 4739720 4742164
  4742960 4754758 4759233 4766098 4766971 4768461 4769053 4769612 4769791 4769795 4769860
  4769889 4770013 4770027 4771207 4771466 4771469 4773485 4777931 4781761 4782465 4786712
  4786891 4792126 4795642 4796483 4796491 4796556 4796759 4809906 4834362 4845276 4847816
  4848759
- 114194-02 – SunOS 5.9_x86: patchadd and patchrm Patch
  4421583 4529289 4623249 4625879 4639323 4678605 4706994 4723617 4725419 4728892 4731056
  4737767 4744964 4750803 4759158 4767392
- 114196-09 – SunOS 5.9_x86: /usr/snadm/lib Library and Differential Flash Patch
  4313832 4385866 4391430 4501772 4642585 4654964 4655075 4660835 4707222 4718661 4723051
  4724529 4734649 4744624 4750446 4753030 4759768 4760694 4763562 4761681 4763919 4767378
  4767678 4768717 4793554 4812304 4826147 4832216 4834885
- 114199-01 – SunOS 5.9_x86: smcpreconfig.sh Patch
  4704611
- 114200-01 – SunOS 5.9_x86: solregis Patch

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- 114201-01 – SunOS 5.9_x86: Gnome Integration Patch
- 114210-04 – CDE 1.5_x86: dtlogin patch
- 114212-01 – SunOS 5.9_x86: WBEM Localization message patch
- 114216-03 – SunOS 5.9_x86: Install/admin Localization message patch
- 114218-03 – SunOS 5.9_x86: Install/admin Localization message patch
- 114220-02 – CDE 1.5_x86: sdtimage patch
- 114222-02 – SunOS 5.9_x86: UR bug fixes
- 114225-01 – SunOS 5.9_x86: csh Patch
- 114228-01 – SunOS 5.9_x86: yacc Patch
- 114230-01 – SunOS 5.9_x86: action_filemgr.so.1 Patch
- 114232-02 – SunOS 5.9_x86: rpcmod Patch
- 114234-02 – SunOS 5.9_x86: rsm Patch
- 114236-01 – SunOS 5.9_x86: libsendfile.so.1 Patch
- 114237-02 – SunOS 5.9_x86: libaio Patch
- 114238-01 – SunOS 5.9_x86: dhcppmgr.jar Patch
- 114240-01 – SunOS 5.9_x86: cachefs Patch
- 114241-02 – SunOS 5.9_x86: libldap.so.1 Patch
  4624458 4720818 4723361 4776571

- 114242-02 – SunOS 5.9_x86: passwdutil.so.1 & pam_authptok Patch
  473707 4747441 4751394 4754634 4830406

- 114243-03 – SunOS 5.9_x86: st driver Patch
  4027074 4336105 4412239 4728530 4761337 4774943 4804362

- 114245-01 – SunOS 5.9_x86: some characters can’t be shown in GBK and GB18030 locale
  4771032

- 114248-01 – SunOS 5.9_x86: Sync with Unicode3.2 for Asia locales
  4752139

- 114250-01 – SunOS 5.9_x86: SPECIAL PATCH: Broken preremove scripts in some S9 pkgs
  4829407

- 114253-01 – SunOS 5.9_x86: SPECIAL PATCH: Broken SUNWcdft postinstall impact x86
  4854523

- 114273-02 – SunOS 5.9_x86: Sun ONE Directory Server 5.1 patch
  4529402 4532320 4532757 4533706 4535605 4535845 4550044 4558224 4615165 4616579 4617085 4617521 4619976 4622371 4623319 4623399 4624693 4630124 4639310 4639408 4640724 4643122 4645544 4645887 4646301 4646392 4649615 4656846 4658787 4658810 4663658 4665564 4665571 4668480 4672889 4672914 4672960 4674387 4682961 4684519 4687038 4691101 4692956 4697500 4527608 4530466 4530599 4538268 4592931 4615972 4622630 4628559 4659879 4675387 4689805 4695152 4704039 4705641 4708296 4711201 4711202 4714196 4715065 4715955 4719564 4722987 4732352 4735062 4735919 4737978 4738221 4742450 4743633 4743796 4748399 4749234 4753087 4754595 4756215 4758387 4761010 4765575 4767182 4773751 4776001 4777358 4778128 4778334 4778634 4780230 4781823 4783910 4786154 4786475 4786504 4787220 4795280 4795685 4802963 4809504 4653016 4656657 4709128 4713256 4714358 4716340 4717121 4723630 4742083 4754469 4759670 4773823 4786547 4791877 4669525 46834764738639 4789601 4704635 4707395 4819555 4827569

- 114277-02 – 5.9_x86: Adds extended Arabic support in UTF-8
  4820267

- 114283-01 – CDE 1.5_x86: libDtWidget patch
  4776648

- 114313-01 – CDE1.5_x86: GNOME/CDE Menu for Solaris 9_x86
  4748729

- 114322-02 – SunOS 5.9_x86: Patch Manager Localization message patch
  4795479 4826155

- 114324-03 – SunOS 5.9_x86: pcplusmp Patch

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Appendix A • Solaris 9 8/03 Operating Environment Patch List

114328-01 – SunOS 5.9_x86: nss_ldap.so.1 Patch

114330-01 – SunOS 5.9_x86: pax Patch

114336-01 – SunOS 5.9_x86: ussr/sbin/rmmount patch

114337-06 – SunOS 5.9_x86: kernel/drv/tcp patch

114341-01 – SunOS 5.9_x86: ussr/lib/rcm/modules/SUNW_filesys_rcm.so patch

114342-01 – SunOS 5.9_x86: ussr/lib/netsvc/yp/rpc.yppasswdd patch

114343-02 – SunOS 5.9_x86: ksh patch

114345-02 – SunOS 5.9_x86: kernel/drv/arp patch

114348-02 – SunOS 5.9_x86: /usr/sbin/in.routed patch

114350-01 – SunOS 5.9_x86: sbin/dhcpagent patch

114353-03 – SunOS 5.9_x86: /etc/inet/inetd.conf Patch

114354-02 – SunOS 5.9_x86: libresolv patch

114355-01 – SunOS 5.9_x86: sort patch

114357-01 – SunOS 5.9_x86: ussr/bin/ssh patch

114358-02 – SunOS 5.9_x86: ussr/lib/snmp/snmpdx patch

114362-01 – SunOS 5.9_x86: lofi patch
- 114419-02 – SunOS 5.9_x86: Multiterabyte Disk Support - abi_libefi.so.1 patch
- 114420-01 – SunOS 5.9_x86: multi-terabyte disk support - libuuid patch
- 114421-01 – SunOS 5.9_x86: Multiterabyte Disk Support - libadm.so.1 patch
- 114422-01 – SunOS 5.9_x86: Multiterabyte Disk Support - fmthard patch
- 114423-05 – SunOS 5.9_x86: format patch
- 114424-01 – SunOS 5.9_x86: Multiterabyte Disk Support - prtvtoc patch
- 114426-03 – SunOS 5.9_x86: header files patch
- 114427-02 – SunOS 5.9_x86: Umem - libumem.so.1 patch
- 114428-01 – SunOS 5.9_x86: Umem - libumem patch
- 114429-01 – SunOS 5.9_x86: Umem - llib-lumem patch
- 114430-01 – SunOS 5.9_x86: Umem - abi-libumeme.so.1
- 114431-01 – SunOS 5.9_x86: Multiterabyte Disk Support - sd & ssd patch
- 114432-02 – SunOS 5.9_x86: stack overflow - libthread.so.1 patch
- 114433-01 – SunOS 5.9_x86: stack overflow - truss patch
- 114434-01 – SunOS 5.9_x86: stack overflow - procfs patch
- 114435-01 – SunOS 5.9_x86: ke hardware - libike patch
- 114436-01 – SunOS 5.9_x86: ike hardware - config.sample patch
  4666686 4673333 4687237 4704460 4739746 4745493 4745709
- 114437-02 – SunOS 5.9_x86: 6to4 router - usr/sbin/6to4relay patch
  4660167 4688392 4688398 4688704 4694560 4804064
- 114439-01 – SunOS 5.9_x86: Perl patch
  4675538 4724626 4768924
- 114440-02 – SunOS 5.9_x86: devinfo Patch
  4745581 4794712
- 114441-01 – SunOS 5.9_x86: Slot 1 DR - Hotplug
  4659144 4779758
- 114442-01 – SunOS 5.9_x86: 6to4 router - ifconfig patch
  4660167 4688392 4688398 4688704 4694560
- 114483-04 – SunOS 5.9_x86: Product Registry CLI Revision
  4385866 4391400 4753030 4767378 4767678 4768717 4796532 4801439 4863376
- 114496-01 – CDE 1.5_x86: dtprintinfo patch
  4788209
- 114502-01 – SunOS 5.9_x86: drmproviders.jar Patch
  4712814
- 114504-03 – SunOS 5.9_x86: usad/sadm/lib/usrmgr/VUserMgr.jar Patch
  4762502 4803524
- 114514-03 – SunOS 5.9_x86: patch for Japanese and English X man pages
  4811454 4797892 4801395 4849095 4852478
- 114517-01 – SunOS 5.9_x86: patch for English sdtudctool man pages for S9UR3
  4808428
- 114521-06 – SunOS 5.9_x86: SPECIAL PATCH: For postinstall script
  4786712 4809906 4825349 4841998
- 114562-01 – X11 6.6.1_x86: X splash screen patch
  4807285
- 114563-04 – SunOS 5.9_x86: ufs patch
  4371826 4490164 4763047 4794712 4815160
- 114565-01 – SunOS 5.9_x86: /usr/sbin/in.ftpd Patch
  4714534
- 114567-02 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files
- 114568-03 – SunOS 5.9_x86: usr/sadm/install/bin/pkginstall Patch
  4405634 4786593 4813860 4826609 4848801 4851760
- 114570-01 – SunOS 5.9_x86: libdbm.so.1 Patch
  4668699
- 114587-01 – SunOS 5.9_x86: bzip Patch
  4634845 4659775
  - 114599-01 – 5.9_x86: UTF-8 dtcm chars not appearing
  4787603
  - 114613-01 – SunOS 5.9_x86: ANSI-1251 encodings file errors
  4812123
  - 114615-02 – SUNOS 5.9_x86: s9ur,He, es, it bugfixes unicode3.2
  4811236 4796228 4861931 4832943
  - 114634-02 – SunOS 5.9_x86: ja_JP.UTF-8 locale patch
  4749205 4868872
  - 114637-02 – SunOS 5.9_x86: KCMS security fix
  4661008 4774256
  - 114642-02 – SunOS 5.9_x86: Japanese iconv for UTF-8 patch
  4706863 4671351 4671363
  - 114661-02 – CDE 1.5_x86: PDASync patch
  4783087 4815680
  - 114678-01 – SunOS 5.9_x86: International Components for Unicode Patch
  4731597 4757662 4757683 4788065
  - 114685-02 – SunOS 5.9_x86: samba Patch
  4768591 4787493 4833908 4839883 4839885
  - 114712-02 – SunOS 5.9_x86: usr/sadm/lib/diskmgr/VDiskMgr.jar Patch
  4818306 4825948
  - 114714-01 – SunOS 5.9_x86: newtask Patch
  4798119
  - 114715-01 – SunOS 5.9_x86: libdb2.so.1 Patch
  4668699
  - 114717-01 – SunOS 5.9_x86: usr/bin/rcp Patch
  1149636
  - 114719-01 – SunOS 5.9_x86: usr/kernel/fs/pcfs Patch
- 114720-01 – SunOS 5.9_x86: kernel/misc/mixer Patch
- 114722-03 – SunOS 5.9_x86: ufsrestore and ufsdump Patch
- 114728-01 – SunOS 5.9_x86: mmu3* Patch
- 114730-01 – SunOS 5.9_x86: /usr/sbin/in.telnetd Patch
- 114732-01 – SunOS 5.9_x86: sbin/init Patch
- 114733-02 – SunOS 5.9_x86: kernel/misc/ufs_log Patch
- 114735-01 – SunOS 5.9_x86: /usr/ccs/bin/lorder Patch
- 114737-01 – SunOS 5.9_x86: usr/sbin/nisrestore Patch
- 114819-01 – GNOME 2.0.0_x86: libpng Patch
- 114856-01 – SunOS 5.9_x86: /usr/kernel/drv/sppp Patch
- 114857-01 – SunOS 5.9_x86: /usr/bin/pppd Patch
- 114858-01 – SunOS 5.9_x86: usr/lib/ssh/sshd Patch
- 114859-01 – SunOS 5.9_x86: kernel/drv/udp Patch
- 114860-01 – SunOS 5.9_x86: kernel/sys/kaio Patch
- 114862-01 – SunOS 5.9_x86: /usr/sbin/wall Patch
- 114876-01 – SunOS 5.9_x86: XML library source patch
- 114924-01 – SunOS 5.9_x86: /usr/kernel/drv/logindmux Patch
  4674066
- 114925-03 – SunOS 5.9_x86: usr/lib/inet/in.mpathd Patch
  4685978 4775897 4777295 4803389 4808860 4834142
- 114928-01 – SunOS 5.9_x86: usr/sbin/allocate Patch
  4714170
- 114929-03 – SunOS 5.9_x86: etc/security/bsmconv Patch
  4445394 4457028 4473026 4499864 4501255 4647683 4647684 4688063 4712958 4728819
  4732828 4735135 4745590 4761401 4778984 4805352 4809341 4818300 4833724 4835739
- 114932-01 – SunOS 5.9_x86: usr/sbin/syslogd Patch
  4772471 4787413 4812764
- 114964-01 – SunOS 5.9_x86: SCRIPT patch
  4834885 4841998
- 114966-01 – SunOS 5.9_x86: SPECIAL PATCH: For editable files only
  4796458
- 114972-01 – SunOS 5.9_x86: usr/kernel/fs/namefs Patch
  4711164
- 114973-01 – SunOS 5.9_x86: kernel/misc/nfssrv Patch
  4716413
- 114976-01 – SunOS 5.9_x86: usr/lib/inet/dhcp/svcadm/dhcpcommon.jar Patch
  4782691
- 114978-01 – SunOS 5.9_x86: kernel/drv/ipsecah Patch
  4795674
- 114980-02 – SunOS 5.9_x86: usr/lib/lp/local/lpstat Patch
  4648825 4704812 4704824 4705899 4705911 4714952 4761753
- 115003-01 – SunOS 5.9_x86: kbtrans patch
  4354427
- 115005-01 – SunOS 5.9_x86: ipqosconf patch
  4664957
- 115007-01 – SunOS 5.9_x86: ipgpc patch
  4664957
- 115009-01 – SunOS 5.9_x86: gld patch
  4747714 4772712
- 115011-01 – SunOS 5.9_x86: smartcard Patch

- 115013-01 – SunOS 5.9_x86: patch if_mpadm

- 115015-01 – SunOS 5.9_x86: patch ipmp lib

- 115017-01 – SunOS 5.9_x86: patch boot/solaris/boot.bin

- 115019-02 – SunOS 5.9_x86: patch boot/solaris/devicedb/master

- 115021-01 – SunOS 5.9_x86: patch voold

- 115023-01 – SunOS 5.9_x86: Multiterabyte UFS - patch headers

- 115025-01 – SunOS 5.9_x86: patch dqblk

- 115027-01 – SunOS 5.9_x86: patch ml_odunit

- 115029-01 – SunOS 5.9_x86: quota utilities

- 115031-01 – SunOS 5.9_x86: file system identification utilities

- 115033-01 – SunOS 5.9_x86: file system maintenance tools

- 115034-01 – SunOS 5.9_x86: /usr/lib/fs/ufs/df patch

- 115035-02 – SunOS 5.9_x86: /usr/lib/fs/ufs/fsck patch

- 115036-01 – SunOS 5.9_x86: /usr/lib/fs/ufs/mount patch

- 115159-04 – X11 6.6.1_x86: xscreensaver patch

- 115166-01 – SunOS 5.9_x86: usr/lib/libnisdb.so.2 Patch
- 115167-01 – SunOS 5.9_x86: usr/bin/cpio Patch
- 115168-01 – SunOS 5.9_x86: usr/lib/security/pam_krb5.so.1 Patch
- 115178-01 – SunOS 5.9_x86: SUNWjxmft/SUNWjxcft postinstall patch
- 115316-02 – SunOS 5.9_x86: fixing dllogin issues
- 115318-01 – SunOS 5.9_x86: usr/bin/i86/gcore Patch
- 115320-02 – SunOS 5.9_x86: /kernel/drv/e1000g Patch
- 115321-01 – SunOS 5.9_x86: isa.125/ata.bef Patch
- 115347-01 – SunOS 5.9_x86: udfs Patch
- 115351-01 – SunOS 5.9_x86: ident_udfs.so.1 Patch
- 115353-01 – SunOS 5.9_x86: elxl.bef Patch
- 115355-01 – SunOS 5.9_x86: slpd Patch
- 115547-01 – SunOS 5.9_x86: SPECIAL PATCH: For EDITABLE files
- 115623-01 – SunOS 5.9_x86: usr/snadm/lib/libpmisof.so.1 Patch