



Solaris 10 7/07 HW Release Notes



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Preface

This document describes the Solaris 10 7/07 HW operating system. For information about the Solaris 10 3/05, Solaris 10 3/05 HW1, Solaris 10 3/05 HW2, Solaris 10 1/06, Solaris 10 6/06, and Solaris 10 11/06, see the “Solaris 10 Release Notes”, Sun part number 819–7324–13.

The *Solaris 10 7/07 HW Release Notes* contain installation and runtime problem details. Also included are end-of-software support statements for the Solaris™ 10 Operating System.

Note – This Solaris release supports systems that use the SPARC® and x86 families of processor architectures: UltraSPARC®, SPARC64, AMD64, Pentium, and Xeon EM64T. The supported systems appear in the *Solaris 10 Hardware Compatibility List* at <http://www.sun.com/bigadmin/hcl>. This document cites any implementation differences between the platform types.

In this document the term “x86” refers to 64-bit and 32-bit systems manufactured using processors compatible with the AMD64 or Intel Xeon/Pentium product families. For supported systems, see the *Solaris 10 Hardware Compatibility List*.

Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris 10 software.

Related Books

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

- Java Desktop System Release 3 Solaris 10 Collection
- *Solaris 10 Start Here* card
- *Solaris 10 Installation Guide: Basic*
- *Solaris 10 Installation Guide: Network-Based Installations*
- *Solaris 10 Installation Guide: Solaris Live Upgrade and Upgrade Planning*
- *Solaris 10 Installation Guide: Advanced, JumpStart, Solaris Flash Archives and RAID-1 Volumes*

- *Solaris 10 System Administrator Collection*

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 software. 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 Sun Hardware Platform Guide*, for hardware-specific installation instructions.

Third-Party Web Site References

Third-party URLs are referenced in this document and provide additional, related information.

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Documentation, Support, and Training

The Sun web site provides information about the following additional resources:

- [Documentation \(http://www.sun.com/documentation/\)](http://www.sun.com/documentation/)
- [Support \(http://www.sun.com/support/\)](http://www.sun.com/support/)
- [Training \(http://www.sun.com/training/\)](http://www.sun.com/training/)

Typographic Conventions

The following table describes the typographic conventions that are used in this book.

TABLE P-1 Typographic Conventions

Typeface	Meaning	Example
AaBbCc123	The names of commands, files, and directories, and onscreen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with onscreen computer output	<code>machine_name% su</code> Password:
<i>aabbcc123</i>	Placeholder: replace with a real name or value	The command to remove a file is <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new terms, and terms to be emphasized	Read Chapter 6 in the <i>User's Guide</i> . A <i>cache</i> is a copy that is stored locally. Do <i>not</i> save the file. Note: Some emphasized items appear bold online.

Shell Prompts in Command Examples

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

TABLE P-2 Shell Prompts

Shell	Prompt
C shell	<code>machine_name%</code>
C shell for superuser	<code>machine_name#</code>
Bourne shell and Korn shell	<code>\$</code>
Bourne shell and Korn shell for superuser	<code>#</code>

Solaris 10 7/07 HW Issues

This chapter describes all issues that relate to the Solaris 10 7/07 HW Operating System.

Solaris 10 7/07 HW Restrictions

The Solaris 10 7/07 HW release has the following restrictions:

- The Solaris 10 7/07 HW release can only be installed on SPARC Enterprise M4000-M9000 Servers.

For more information about the SPARC Enterprise M4000–M9000 Servers, see the following:

- Sun SPARC Enterprise M4000/M5000 Servers Product Notes For XCP Version 1041
- Sun SPARC Enterprise M8000/M9000 Servers Product Notes For XCP Version 1041
- The Solaris 10 7/07 HW release does not support upgrades from the previous Solaris 10 11/06 release. The Solaris 10 7/07 HW OS should be installed freshly.
- The Solaris 10 7/07 HW release does not support upgrades to any other Solaris releases. The other Solaris Operating Systems should be installed freshly.
- The Solaris 10 7/07 HW release cannot be patched. Bug fixes might be available in a future Solaris 10 release.

Solaris 10 7/07 HW Bugs and Issues

I/O Performance Related Issues

The following bugs result in a lower than expected I/O performance using HBAs and NICs on the SPARC Enterprise M4000-M9000 servers. The fixes to these bugs might be available in a future Solaris 10 release.

6562458

This bug impacts the following cards:

- X1027A -10 GbE
- X4447A-Z —QGC

6552241

This bug impacts the following cards:

- SG-PCIE2FC-QF4
- SG-PCIE1FC-QF4

6530687

This bug impacts the following cards:

- SG-PCIE2FC-EM4
- SG-PCIE1FC-EM4
- SG-PCI2FC-EM4
- SG-PCI1FC-EM4

Runtime Issues

The following bugs are runtime issues that are known to be problems. The fixes to these bugs might be available in a future Solaris 10 release.

6566788

The system does not panic on certain uncorrectable errors in the PCIe Root Complex.

6557854

The system cannot ascertain the physical slot number for PCIe External I/O Expansion Unit.

6557246

There might be potential panic with explicit drop policy.

6555985

There might be potential panic in the `tun_wdata_v4()` slowpath case when using per-port IPsec policy.

Fixed Bugs

The following bugs referenced in the Sun SPARC Enterprise M8000/M9000 Servers Product Notes and Sun SPARC Enterprise M4000/M5000 Servers Product Notes are fixed in the Solaris 10 7/07 HW release:

6485555	6530178
6495303	6534471
6498283	6536564
6508432	6539084
6510861	6542632

Installation Issues

This chapter describes problems that relate to the installation of the Solaris 10 Operating System.

Note – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to [Appendix A](#).

General Information

This section provides general information such as behavior changes in Solaris 10 OS.

New Minimum Memory Requirement

Beginning with the Solaris 10 7/07 HW release, all x86 based systems must now have at least 256 Mbytes of RAM to run the Solaris software.

Support for Products Not Part of the Solaris OS

Although the Solaris 10 software has been tested for compatibility with previous releases, some third-party applications might not be fully ABI compliant. Contact the supplier of these applications directly for information about compatibility.

Your system might run both a Solaris OS and other products that are not part of the Solaris software. These products might be supplied by either Sun or another company. If you upgrade this system to the Solaris 10 release, make sure that these other products are also supported on the Solaris 10 OS. Depending on the status of each of these products, you can perform one of the following options:

- Verify that the existing version of the product is supported on the Solaris 10 software.
- Install a new version of the product that is supported on the Solaris 10 release. You might need to remove the previous version of the product prior to upgrading to the Solaris software. See the product documentation for more details.
- Remove the product prior to upgrading to the Solaris 10 software.

Before You Begin

This section contains critical installation issues that you need to be aware of before installing or upgrading to Solaris 10 OS. These issues might have an impact that would prevent installation or upgrades from completing successfully. If bugs in this section apply to your system, you might need to perform the recommended workarounds before you install or upgrade.

Installation Change for the Solaris Companion DVD

When you are installing the Solaris OS, the Companion DVD is not available to be installed with the Solaris installation program. Use the `pkgadd(1M)` command to install the Solaris Companion DVD. For detailed installation instructions, see the README file on the Companion DVD.

Correct Solaris Data Encryption Supplement Required for Use of Longer Key Lengths on Solaris 10 Updates

When you install the Solaris 10 7/07 HW release and you wish to access longer key lengths for use with data encryption, you must use the Solaris Data Encryption Supplement packages that corresponds to Solaris 10. The supplement is delivered in the `SUNWcry` and `SUNWcryr` packages that are available for download from:

<http://www.sun.com/download/>

To bring these packages up to the same patch level as your current update, you will have to install the appropriate patch:

- Patch ID 118562-05 or a later revision for SPARC based systems
- Patch ID 118563-04 or a later revision for x86 based systems

To determine your current patch level, use `showrev -p`.

Additional Procedures Required When Installing Patches for Solaris 10 7/07 HW Release

The following patches are applied to resolve problems that were reported in CR 6277164 and CR 6214222:

- Patch ID 119366-05 for SPARC based systems
- Patch ID 119367-05 for x86 based systems

The sections that follow provide further steps that you must perform to completely resolve the reported problems.

Resolving Issues With the GNOME Display Manager (6277164)

Note – Perform this procedure before you use the GNOME Display Manager (GDM) as your login program, or if you have already enabled GDM as your login program. Otherwise, you can skip this procedure.

When applying the patch, load new values into the GDM configuration files. Then restart the GDM application.

1. To load the new values into the configuration file, choose one of the following options.
 - Copy the `/etc/X11/gdm/factory-gdm.conf` file to the `/etc/X11/gdm/gdm.conf` file. Perform this step if you have not made any modifications to the `gdm.conf` file. Then you can start the GDM application.
 - Manually merge the differences in the `factory-gdm.conf` file into the `gdm.conf` file. Perform this step if you have modified the `gdm.conf` file and want to retain your modifications.

When merging files, copy the values for the following commands from the `factory-gdm.conf` file to the `gdm.conf` file. These commands enable you to obtain the best OS performance.

- `RebootCommand`
- `HalCommand`
- `SuspendCommand`
- `DefaultPath`
- `RootPath`
- `GraphicalTheme`

2. To restart GDM, perform the following steps:
 - a. Become superuser.
 - b. Issue the following command:

```
# svcadm disable application/gdm2-login
```

- c. In the console that is now displayed, press Return to display a command prompt.
- d. To restart GDM, issue the following command:

```
# svcadm enable application/gdm2-login
```

Sun Fire V250 Server Installation

The SUNWCXa11 software metacluster must be installed on a Sun Fire V250 Server.

NFS Version 4 Introduces New Prompt at First System Boot

Solaris 10 OS uses NFS Version 4 (NFSv4) as the default distributed file system mechanism. In NFSv4, file user and group attributes are exchanged as strings of the form “user@domain” and “group@domain,” respectively.

The domain portion of the string should be common between client and server. This information is automatically derived from the system's name service domain name. However, in certain cases, the derived domain might not match between client and server. This mismatch might typically occur in environments where either of the following circumstances is true:

- The DNS TXT record is not used.
- Multiple administrative domain boundaries are crossed.

If domain information between client and server does not match, NFSv4-accessed files might appear to be owned by “nobody.”

To ensure proper configuration, on the first system boot the system now prompts you for a domain to use for NFSv4. Answer “no” to this prompt if one of the following configurations describes your deployment:

- Your deployment utilizes the DNS TXT record to configure the NFSv4 domain.
- Your deployment has a single (flat) administrative domain.

Custom JumpStart and Advanced Installations

Environments that use the Custom JumpStart™ method to perform unattended system installations require minimal tuning to suppress the first boot prompts.

A sample script, `set_nfs4_domain`, is provided in the Solaris 10 distribution media and is located in the `${CDrom_mnt_pt}/Solaris_10/Misc/jumpstart_sample` directory. A copy of this script should be modified to set the `NFS4_DOMAIN` variable to site-specific needs and be called from within JumpStart's finish script. The target system's NFSv4 domain is therefore preconfigured as part of the JumpStart finish phase, and thus suppresses any first boot prompts.

Follow these steps to perform unattended installations:

1. Create a copy of the `set_nfs4_domain` script in the same directory as your JumpStart's `finish.sh` scripts.
2. Edit the script and set the `NFS4_DOMAIN` variable to your specific needs.
3. Edit your `finish.sh` script and append a call to `set_nfs4_domain`.
4. Perform the JumpStart installations as usual.

For further details, refer to the `sysidconfig(1M)`, `sysidtool(1M)`, `nfsmapid(1M)`, and `nfs(4)` man pages. See also the *System Administration Guide: Network Services*.

Default Size of /var File System Inadequate for Extra Value Products

The default size of the `/var` file system might be insufficient for the Extra Value products in the following situations:

- If you install any of the Extra Value products that are provided on the Solaris 10 DVD or CDs
- If the `/var` file system is located on a separate slice

You must manually specify a larger slice size for the `/var` file system.

Note – If the `/var` file system is not on a separate slice or partition, this problem does not occur.

Workaround: Choose one of the following workarounds.

- If you are using the Solaris installation program GUI, follow these steps.
 1. Begin the installation.
 2. From Select Type of Install, select Custom Install.

The Solaris installation program displays several screens that enable you to customize the software localizations, products, and disk layout that you want to install.
 3. From Lay Out File Systems, select Modify.

The disk layout screen is displayed.
 4. Type `/var` in the File System column for a specific slice, then click Apply.

The installation program suggests a default size for the `/var` file system.
 5. Edit the Size column entry for the `/var` file system to twice the disk space size.

For example, if the installation program assigns 40 Mbytes of space, change the Size value to 80.

6. Complete the installation.
- If you are using the Solaris installation program's text installer, follow these steps.
 1. Begin the installation.
 2. From Select Type of Install, select Custom Install.

The Solaris installation program displays several screens that enable you to customize the software localizations, products, and disk layout that you want to install.
 3. From Lay Out File Systems, select Auto Layout.

The disk layout screen is displayed.
 4. Type `/var` in the File System column for a specific slice.

The installation program suggests a default size for the `/var` file system.
 5. Press `F4_Customize` to customize the size of the `/var` file system.
 6. Edit the Size column entry for the `/var` file system to twice the disk space size.

For example, if the installation program assigns 40 Mbytes of space, change the Size value to 80.
 7. Complete the installation.
 - If you are using the custom JumpStart program, use the `filesys` profile keyword to set the size of the `/var` file system. The following example sets the size of the `/var` file system on slice 5 to 256 Mbytes.

```
filesys c0t0d0s5 256 /var
```

SPARC: Older Firmware Might Need Boot Flash PROM Update

On SPARC based systems, Solaris 10 OS runs in 64-bit mode only. Some Sun4U™ systems might need to be updated to a higher level of OpenBoot™ firmware in the flash PROM to run the OS in 64-bit mode. The following systems might require a flash PROM update:

- Ultra™ 2
- Ultra 450 and Sun Enterprise™ 450
- Sun Enterprise 3000, 4000, 5000, and 6000 systems

The following table lists the UltraSPARC systems and the minimum firmware versions that are required to run the 64-bit Solaris 10 OS. *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 2-1 Minimum Firmware Versions Required to Run 64-Bit Solaris Software on UltraSPARC Systems

System Type From <code>uname -i</code>	Minimum Firmware Version From <code>prtconf -V</code>
SUNW,Ultra-2	3.11.2
SUNW,Ultra-4	3.7.107
SUNW,Ultra-Enterprise	3.2.16

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

See any edition of the Solaris 8 Sun Hardware Platform Guide at <http://docs.sun.com> for instructions to perform a flash PROM update.

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 10 release, 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 10 release, 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. 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.

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

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

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

The Solaris Management Console 2.1 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.

```
# pkgrm SUNWpmgr
# pkgrm SUNWrmui
# pkgrm SUNWlvmg
# pkgrm SUNWlvma
# pkgrm SUNWlvmr
```

```
# pkgrm SUNWdc1nt
# pkgrm SUNWmga
# pkgrm SUNWmgapp
# pkgrm SUNWmcdev
# pkgrm SUNWmcex
# pkgrm SUNWwbmc
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmccom
```

2. Insert the Solaris 10 Software - 4 CD into your CD-ROM drive. Type the following in a terminal window:

```
#
# cd /cdrom/cdrom0/Solaris_10/Product
# pkgadd -d . SUNWmccom SUNWmcc SUNWmc SUNWwbmc SUNWmcex SUNWmcdev \
  SUNWmgapp SUNWmga SUNWdc1nt SUNWlvmr SUNWlvma SUNWlvmg SUNWpmgr \
  SUNWrmi
```

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

Cannot Create a Solaris Flash Archive When Solaris Zones Are Installed (6246943)

Starting with the current Solaris release, a Solaris Flash archive cannot be properly created when a non-global zone is installed. The Solaris Flash feature is not currently compatible with the Solaris containers (zones) feature.

Do not use the `flar create` command to create a Solaris Flash archive in these instances:

- In any non-global zone
- In the global zone if there are any non-global zones installed

If you create a Solaris Flash archive in such an instance, the resulting archive might not install properly when the archive is deployed.

Workaround: None.

Installation Bugs

The following bugs might occur during or after the installation of Solaris 10 OS.

Symbolic Links to `etc/default/kbd` and `etc/default/nfs` Files are Missing (6547635)

- For the Solaris OS, the keyboard layout information must be received during the installation either automatically from the keyboard hardware identification or from the user's preconfiguration. The keyboard layout information might not be received as the symbolic link to the file `etc/default/kbd` is missing. No error message is displayed.

Workaround: If the keyboard layout information is not received during the installation, the `sysidkbd` tool prompts the keyboard layout list for configuration in the first boot.

- The `NFSMAPID_DOMAIN` domain name is commented out in the `etc/default/nfs` file. If you try to access files that are commented out, the file owner is displayed as nobody. See the following example:

```
bash> cd /net/line2-w1100z/export/home/rw
/net/line2-w1100z/export/home/rw
bash> ls -lia
total 1
 5824 drwxrwxrwx  2 nobody      512 Apr 19 15:50 ./
 5824 dr-xr-xr-x  2 root         2 Apr 19 16:08 ../
 5825 -rw-r--r--  1 nobody      0 Apr 19 15:23 dingfile
 5827 -rw-r--r--  1 nobody      0 Apr 19 15:50 line2-ultra45
 5826 -rw-r--r--  1 nobody      0 Apr 19 15:26 line3-sb2k
bash>
```

No error message is displayed.

Workaround: Edit the `/etc/default/nfs` file so that `NFSMAPID_DOMAIN` domain name has the correct value.

The Linux Partition Does Not Display on the GRUB Menu After Installing the Solaris OS (6508647)

If Linux is installed on your disk and you installed the Solaris OS on a separate partition, the Linux partition does not display on the GRUB menu. No error message is displayed.

Workaround: Edit the GRUB menu's `menu.lst` file to add Linux to the GRUB menu. Perform the following steps:

1. Boot the Solaris OS.

2. Edit the `menu.lst` file at `/boot/grub/menu.lst`. For more information, see the *System Administration Guide: Basic Administration*.

SPARC: Installing a Solaris Flash Archive Causes Sun4v System to Hang (6411690)

If you use the `flarcreate` command to create a Solaris Flash archive and use the `-L pax` option, the installation of the archive hangs on a Sun4v system. The archive failure occurs during the retrieval of the archive. This failure affects the both the T1000 and T2000 models.

The following error message is displayed.

```
/pci@7c0/pci@0: Device 1c Nothing there
/pci@7c0/pci@0: Device 1d Nothing there
/pci@7c0/pci@0: Device 1e Nothing there
/pci@7c0/pci@0: Device 1f Nothing there
Probing I/O buses
Sun Fire T200, No Keyboard
Copyright 2006 Sun Microsystems, Inc. All rights reserved.
OpenBoot 4.20.4, 8184 MB memory available, Serial #000000.
Ethernet address 0:13:3f:3d:b3:13, Host ID: 000db914.
```

```
Rebooting with command: boot
Boot device: disk File and args:
Loading ufs-file-system package 1.4 04 Aug 1995 13:02:54.
FCode UFS Reader 1.12 00/07/17 15:48:16.
Loading: /platform/SUNW,Sun-Fire-T200/ufsboot
Loading: /platform/sun4v/ufsboot
ERROR: Last Trap: Memory Address not Aligned
[Exception handlers interrupted, please file a bug]
[type 'resume' to attempt a normal recovery]
{0} ok
(This hangs and will never complete)
```

Workaround: Create the archive by using the `cpio` copy option. The `cpio` option is the default. See the following example:

```
# flarcreate -n test.flar.sun4v.cpio -c
/net/server/export1/rw/test.flar.sun4v.cpio
```

Solaris Not Sending a PRLI to Tape Device (6379955)

Solaris OS is not sending Process Login (PRLI) data to the tape device during a path recovery sequence.

No error message is displayed to the user, but the problem can be identified from:

- Regular system log messages indicates a path issue, such as offline or online.
- `Cfgadm -al` command. This command shows the failed condition for the tape device.
- I/O to a tape device has ceased.

Workaround:

To recover from this situation, use the `luxadm forceLip` command to the FC host bus adapter. For example:

```
luxadm -e forceLip /dev/cfg/c99
```

c99 is the specific controller that is being used to communicate with the tape transport.

SPARC: Solaris 10 OS Installation Program Might Not Display Special Case Panels Properly (5002175)

If you install the Solaris 10 software by using the Solaris installation program, some of the information and exit panels for the SunSM Remote Services (SRS) Net Connect software might not display properly.

The installation panel frame and Cancel button are displayed, but the installation panel content is missing.

Note – This problem might also occur during a Solaris installation of other software products that are included in this Solaris OS release.

Workaround: Follow these steps:

1. Bypass the SRS Net Connect installation by clicking the Cancel button when the empty installation panel is displayed.
2. After the installation of the Solaris 10 software has completed, manually install the SRS Net Connect software from the Solaris 10 Operating System DVD or Solaris 10 Software - 2 CD.

Installing the SRS Net Connect software after the initial Solaris 10 software installation has completed ensures that all panels are displayed properly.

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.

Additional Installation Issues

This section describes issues that are related to the installation of the Solaris OS.

smosservice add Command Does Not Install Designated ARCH=all Packages (4871256)

The `smosservice add` command does not install any packages that are designated ARCH=all in the root (/) or /usr file systems. There is no error message indicating these packages were skipped. This problem exists in all Solaris OS versions, and applies to both SPARC® based and x86 based clients.

Note that the list of missing packages varies, depending on the Solaris release that you are running.

Workaround: Locate and install the missing ARCH=all packages.

For step-by-step instructions on locating and installing missing packages, see “How to Locate and Install Missing ARCH=all Packages” in *System Administration Guide: Basic Administration*.

StarOffice Patch Application Requires Additional Steps

The following patches are applied to the Solaris OS to resolve StarOffice™ problems that were reported in CR 6234855 and CR 6262830:

- For SPARC based systems
 - Patch ID 119412-06
 - Patch ID 119906-03
- For x86 based systems:
 - Patch ID 119413-06
 - Patch ID 119907-03

To completely resolve the reported problems, perform the following steps after applying the patches. These steps enable you to use StarOffice 7 Product 5 software to open, for example, those OpenDocument files that were created in StarOffice 8 software.

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


```
# update-mime-database /usr/share/mime
```
3. Log out of the system and then log in again.

StarOffice and StarSuite Software Cannot Coexist in the Same System

When you install Solaris 10 OS, either the StarOffice or the StarSuite™ software is also automatically installed, depending on which language you select. The languages and the corresponding software that these languages support are listed as follows:

Selected Language	Supported Software
Chinese, Japanese, Korean	StarSuite
Other languages	StarOffice

StarOffice and StarSuite cannot coexist in the same system. If you want to replace a software that you accidentally installed, follow these steps.

1. Insert the Solaris 10 Software - 3 CD or Solaris 10 Operating System DVD in the drive.
2. Become superuser.
3. Change to the Product directory, for example, /cdrom/cdrom0/Solaris_10/Product.

4. Replace the software.
 - To replace StarOffice with StarSuite, use the following commands:

```
# pkgrm SUNWsogm SUNWsom
# pkgadd -d . SUNWsoagm SUNWsoam
```
 - To replace StarSuite with StarOffice, use the following commands:

```
# pkgrm SUNWsoagm SUNWsoam
# pkgadd -d . SUNWsogm SUNWsom
```

Cannot Install Documentation Packages With Names Longer Than Nine Characters on Documentation Servers Running Solaris 7 or Solaris 8 Software

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 Solaris 7 or 8 software, you must first install two patches.

Workaround: For instructions on how to install these patches, see the Solaris Documentation Important Information file on Solaris 10 OS Documentation DVD. This file is located in the following directory:

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

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 10 release 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.

Solaris Runtime Issues

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

Note – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to [Appendix A](#).

Common Desktop Environment

The following bugs in Solaris 10 OS apply to the Common Desktop Environment (CDE).

Security Flaws in Firefox 2.0.0.1 (6526694)

The Firefox 2.0.0.1 web browser and derived products contain several flaws. Severe impacts of these flaws include enabling a remote attacker to execute arbitrary actions, or causing denial of service. For more information, see <http://secunia.com/advisories/24205/>. No error message is displayed.

Workaround: Upgrade to Firefox 2.0.0.3.

Printing From Some GNOME Applications Fail (6477108)

The name service switch enhancements feature causes the `papiPrintersList()` command to fail. This command is used by many GNOME applications to populate the print dialog with queue names.

No error message is displayed.

Workaround: None.

strftime(3c) Should Support GNU Extension in %-m And %-d (6448815)

The Java DS menu bar and some applications, like Evolution, incorrectly display Chinese date. The incorrect date is displayed in the %-m M %-d D format where M and D are the month and date in Chinese respectively.

Workaround: Perform the following steps:

1. Backup the `/usr/share/locale/LC_MESSAGES/gnome-panel*.mo` file.
2. Download `gnome-panel.gnome-2-16.zh_CN.po` from http://l10n.gnome.org/POT/gnome-panel.gnome-2-16/gnome-panel.gnome-2-16.zh_CN.po and save it under the `/tmp` directory.
3. Edit the file `gnome-panel.gnome-2-16.zh_CN.po` and replace all occurrences of %-m with %0m, and %-d with %e.
4. Generate a new `gnome-panel.gnome-2-16.zh_CN.po` file.

```
msgfmt -v -o gnome-panel.gnome-2-16.zh_CN.mo /tmp/gnome-panel.gnome-2-16.zh_CN.po
```

Copy the file back to the `/usr/share/locale/LC_MESSAGES/` directory.

5. Log out of the system and re-login.

Nautilus ACL MASK is Not in Sync With Group Permissions (6464485)

The Group permissions in the Permissions tab should be the same as the Mask permissions in the Access Tab, but on some occasions they appear out of sync.

Workaround: Click the Close button, and then click Reload. View the file properties again. The Group permissions and the Mask permissions will now be in sync again. The permissions are set to what you changed the Mask to in the previous step.

SMC CLI Commands Do Not Process the Solaris Trusted Extensions Options (6447833)

This bug affects management of Solaris™ Trusted Extensions by using the SMC. When the SMC command line with the `-B` toolbox option is used to pass in the Trusted Extensions options, the command is not executed. This failed execution prevents the use of the SMC CLI to manage Solaris Trusted Extensions. The following error message is displayed:

```
There was an unrecognized extended, nonstandard option specified with the -x option.
Please refer to man pages for additional information and correct syntax usage
```

Workaround: Use the SMC GUI for administration of users, roles, and profiles.

Mouse Pointer and the dtfile Icon Are Not Displayed When You Drag the dtfile Icon (6462945)

When you drag the `dtfile` icon, the icon and the mouse pointer might not be displayed. No error message is displayed.

Workaround: Add the following lines to the `/usr/dt/config/<locale>/sys.resources` file, under `#if EXT_SUN_TS OL`:

```
!! DragNDrop protocol. Other styles cause policy violation.
*DragInitiatorProtocolStyle:          DRAG_DYNAMIC
*DragReceiverProtocolStyle:          DRAG_DYNAMIC
```

SMC Updates the tnrhdb File But Does Not Run tnctl to Update the Trusted Host Cache (6471594)

When the SMC is used to manage network security templates, the `/etc/security/tsol/tnrhdb` file is updated but the `tndb` cache is not updated. Network security definitions do not take effect. No error message is displayed.

Workaround: After you modify a network entry in the SMC, manually refresh the `tndb` cache with one of the following commands:

- Modify an entry in the file scope:


```
# /usr/sbin/tnctl -H /etc/security/tsol/tnrhdb
```
- Modify an entry in the LDAP scope:


```
# /usr/sbin/tnctl -H <hostname>
```

Cannot Login Using GDM Unless Clearance is Set to `admin_high (6432114)`

The login fails when you log in to the Solaris Trusted Extensions Java Desktop Systems (Java DS) by using GDM. This failure is caused by the PAM configuration. The `pam.conf(4)` file does not contain the required entries for GDM.

On login, the following error message is displayed:

```
The system administrator has disabled access to
the system temporarily
```

Workaround: Add the following two lines to the `/etc/pam.conf` file:

```
gdm account requisite pam_roles.so.1
gdm account required pam_unix_account.so.1
```

For information about the file format, see the `pam.conf(4)` man page.

Trusted Stripe Disappears From The Screen After Resolution Change (6460624)

When you type the `/usr/X11/bin/xrander -s` command to set a smaller screen resolution, Trusted Stripe is no longer displayed. This affects the Trusted CDE Desktop but not the Trusted Java DS Desktop. No error message is displayed.

Workaround: After the resolution changes, restart the Workspace Manager. Select **windows -> Restart Workspace Manager** from the CDE workspace menu and click OK.

Secure Attention Key or Hot Key Does Not Work on x86 Systems (6486416)

The Secure Attention key or hot key, `Alt+Break`, on PC keyboards does not work on x86 systems. No error message is displayed.

Workaround: None.

Full-Screen Magnification and Keyboard Accessibility Features Not Working (6273030)

On your Java Desktop System software, you cannot set up the following:

- Full-screen magnification
- Keyboard accessibility features

Workaround: Perform the following steps:

1. Open the `/etc/X11/gdm/gdm.conf` file.
2. Depending on your system's platform, perform the following:
 - On SPARC based systems:
 - a. Look for the line in the file that begins as follows:

```
command=/usr/openwin/bin/Xsun
```

- b. Append the following modification to the line:

```
+kb +accessx -dev framebuffer1 -dev
framebuffer2
```

For example:

```
+kb +accessx -dev /dev/fbs/pfb1 -dev /dev/fbs/pfb0
```

- On x86 based systems:
 - a. Look for the line in the file that begins as follows:

```
command=/usr/X11R6/bin/Xorg
```

- b. Append the following modification to the line:

```
+kb +accessx
```

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 10 software.

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.

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.

Documentation DVD

The following Documentation DVD bugs apply to the Solaris 10 release.

SUNWsdocs Package Needed 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.

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

On systems that are running the current Solaris 10 release, PDF documents on the Solaris 10 Documentation DVD are not accessible in the following European locales:

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

Workaround: Choose one of the following workarounds.

- On x86 based platforms, set the environment variable LC_ALL to C acroread. For example, in the C shell, type the following command in a terminal window:

```
% env LC_ALL=C acreoad
```

- On SPARC based systems, upgrade to Adobe Acrobat Reader 5.0 or a later version.

File Systems

The following file system bugs apply to the Solaris 10 release.

zoneadm install Fails With a ZFS Legacy Mount (6449301)

If a non-global zone is initially configured with a ZFS file system to be mounted with the ``add fs` subcommand and specifies `mountpoint=legacy`, the subsequent zone installation fails. The following error message is displayed.

```
ERROR: No such file or directory:  
cannot mount </zones/path/root/usr/local> in non-global zone to install:  
the source block device or directory </path/local> cannot be accessed
```

Workaround: Add access to a ZFS file system after installing the non-global zone.

zpool Scrubbing Leads to Memory Exhaustion and a System Hang (6456888)

A `zpool scrub` or `resilver` operation of large amounts of data might lead to a system hang or panic. No error message is displayed.

Workaround: If the system hangs or panics, perform the following steps:

1. Reboot the system.
2. Continue the `resilver` or `scrub` operation.
3. Do not stress the system with additional load until the `resilver` or `scrub` operation completes.

ZFS and UNIX/POSIX Compliance Issues

ZFS is designed to be a POSIX compliant file system and in most situations, ZFS is POSIX compliant. However, two edge case conditions exist when ZFS does not meet the POSIX compliance tests:

1. Updating ZFS files system capacity statistics.

2. Modifying existing data with a 100 percent full file system.

Related CRs:

- 6362314
- 6362156
- 6361650
- 6343113
- 6343039

Adding ZFS Patch to a Solaris 10 7/07 HW System Causes Spurious Warning Messages (6429860)

Adding ZFS patches to a Solaris 10 7/07 HW system causes spurious warning messages from the `patchadd` command because the ZFS packages are being added to the system for the first time. The following error message is displayed:

```
The following requested patches have packages not installed on the system:  
Package SUNWzfskr from directory SUNWzfskr in patch 122641-03  
is not installed on the system.
```

```
Changes for package SUNWzfskr will not be applied to the system.
```

Workaround:

Ignore the spurious messages from the `patchadd` command.

fdisk -E Can Sweep Disk Used by ZFS Without Warning (6412771)

If you use the `fdisk -E` command to modify a disk that is used by a ZFS storage pool, the pool becomes unusable and might cause an I/O failure or system panic.

Workaround:

Do not use the `fdisk` command to modify a disk that is used by a ZFS storage pool. If you need to access a disk that is used by a ZFS storage pool, use the `format` utility. In general, disks that are in use by file systems should not be modified.

ZFS and Third-Party Backup Product Issues

The following are the issues with the Veritas NetBackup and Brightstor ARCserve Backup products.

Veritas NetBackup Does Not Back Up and Preserve Files With ZFS/NFSv4 ACLs (6352899)

The Veritas NetBackup product can be used to back up ZFS files, and this configuration is supported. However, this product does not currently support backing up or restoring NFSv4-style ACL information from ZFS files. Traditional permission bits and other file attributes are correctly backed up and restored.

If a user tries to back up or restore ZFS files, the NFSv4-style ACL information from ZFS files is silently dropped. There is no error message indicating that the ACL information from ZFS files has been dropped.

Support for ZFS/NFSv4 ACLs is under development and is expected to be available in the next Veritas NetBackup release.

Workaround 1:

As of the Solaris 10 7/07 HW release, both the `tar` and `cpio` commands correctly handle ZFS files with NFSv4-style ACLs.

Use the `tar` command with the `-p` option or the `cpio` command with the `-P` option to write the ZFS files to a file. Then, use the Veritas NetBackup to back up the `tar` or `cpio` archive.

Workaround 2:

As an alternative to using Veritas NetBackup, use the ZFS `send` and `receive` commands to back up ZFS files. These commands correctly handle all attributes of ZFS files.

BrightStor ARCserve Backup Client Agent for UNIX (Solaris) and ZFS Support

The BrightStor ARCserve Backup (BAB) Client Agent for UNIX (Solaris) can be used to backup and restore ZFS files.

However, ZFS NFSv4-style ACLs are not preserved during backup. Traditional UNIX file permissions and attributes are preserved.

Workaround: If you want to preserve ZFS files with NFSv4-style ACLs, use the `tar` command with the `-p` option or the `cpio` command with the `-P` option to write the ZFS files to a file. Then, use BAB to backup the `tar` or `cpio` archive.

ZFS GUI Should Check For `/usr/lib/embedded_su` at the Beginning of Each Wizard (6326334)

If you add the `SUNWzfs` package from a Solaris 10 7/07 HW release to a system that runs a pre-Solaris 10 6/06 release, which does not have the `embedded_su` patch, the ZFS Administration application wizards are not fully functional.

If you attempt to run the ZFS Administration application on a system without the `embedded_su` patch, you will only be able to browse your ZFS configuration. The following error message is displayed:

```
/usr/lib/embedded_su: not found
```

Workaround:

Add the `embedded_su` patch (119574-02) to the system that runs a pre-Solaris 10 6/06 release.

Fails to Sync File System on Panic (6250422)

If a host panics with file system I/O occurring to a target, which is connected by using the Solaris iSCSI software initiator, the I/O might not be able to flush or sync to the target device. This inability to flush or sync might cause file system corruption. No error message is displayed.

Workaround:

Use the journaling file system like UFS. Starting with Solaris 10, UFS logging is enabled by default. For more information about UFS, see “What’s New in File Systems?” in *System Administration Guide: Devices and File Systems*.

NFSv4 Access Control List Functions Might Work Incorrectly

NFSv4 Access Control List (ACL) functions might work improperly if clients and servers in the network are installed with different previous Solaris 10 releases. The affected ACL functions and command-line utilities that use these functions are the following:

- `acl()`
- `facl()`
- `getfacl`
- `setfacl`

For more information about these functions and utilities, see their respective man pages.

For example, errors might be observed in a network that includes the following configuration:

- A client that is running Solaris 10 Beta software
- A server that is running Solaris 10 software

The following table illustrates the results of the ACL functions in client-server configurations with different Solaris 10 releases.

Operation	Client S10 OS	Server S10 OS	Result
get ACL	S10 Beta	S10 OS	fabricated ACL *
get ACL	S10 OS	S10 Beta	works ok
set ACL	S10 Beta	S10 OS	works ok
set ACL	S10 OS	S10 Beta	Error: EOPNOTSUP

Workaround: For the NFSv4 ACL functionality to work properly, perform a full installation of the Solaris 10 OS on both the server and the client.

Access Problems Between Solaris NFSv4 Clients and NFSv4 Servers

In the current Solaris 10 version, Solaris implementation of NFSv4 Access Control Lists (ACL) is now compliant with RFC 3530 specifications. However, errors occur for NFSv4 clients that use the Solaris 10 Beta 2 or Beta 1 versions. These clients cannot create files in the NFSv4 servers that are using the current Solaris 10 release. The following error message is displayed:

```
NFS getacl failed for server_name: error 9 (RPC: Program/version mismatch)
```

Workaround: None.

Using `mkfs` Command to Create File System Might Fail on Very Large Disks (6352813)

The `mkfs` command might be unable to create a file system on disks with a certain disk geometry and whose sizes are greater than 8 Gbytes. The derived cylinder group size is too large for the 1-Kbyte fragment. The large size of the cylinder group means that the excess metadata cannot be accommodated in a block.

The following error message is displayed:

```
With 15625 sectors per cylinder, minimum cylinders
per group is 16. This requires the fragment size to be
changed from 1024 to 4096.
Please re-run mkfs with corrected parameters.
```

Workaround: Use the `newfs` command instead. Or, assign a larger fragment size, such as 4096, when you use the `mkfs` command.

File System Creation Might Fail on Small Slices (6346510)

Creating a UFS file system with the `newfs` command might fail under the following conditions:

- The size of the slice is small, approximately less than 4 Mbytes.
- The size of the disk exceeds 8 Gbytes.

The error is caused by the large-size requirement of the file system for metadata. The following warning message is displayed:

```
Warning: inode blocks/cyl group (295) >= data blocks (294) in last
        cylinder group. This implies 4712 sector(s) cannot be allocated.
/dev/rdisk/c0t0d0s6:    0 sectors in 0 cylinders of 48 tracks, 128 sectors
                    0.0MB in 0 cyl groups (13 c/g, 39.00MB/g, 18624 i/g)
super-block backups (for fsck -F ufs -o b=#) at:
#
```

Workaround: As superuser, perform one of the following workarounds:

- **Workaround 1:** Specify the number of tracks when you use the `newfs` command. Follow these steps.

1. Use the `format` command to find out the number of tracks to assign. For example:

```
# format

Searching for disks...done
AVAILABLE DISK SELECTIONS:
    0. c0t0d0 <SUN18G cyl 7506 alt 2 hd 19 sec 248>
       /pci@1f,4000/scsi@3/sd@0,0
Specify disk (enter its number):
```

In the example, the number of tracks is 19.

2. Assign the number to the file system that you create with the `newfs` command. For example:

```
# newfs -v -t 19 /dev/dsk/c0t0d0s6

newfs: construct a new file system /dev/rdisk/c0t0d0s6: (y/n)? y
mkfs -F ufs /dev/rdisk/c0t0d0s6 4712 -1 19 8192 1024 16 10 167 2048
t 0 -1 8 128 n
mkfs: bad value for nsect: -1 must be between 1 and 32768
mkfs: nsect reset to default 32
Warning: 152 sector(s) in last cylinder unallocated
/dev/rdisk/c0t0d0s6:    4712 sectors in 8 cylinders of 19 tracks,
                    32 sectors
                    2.3MB in 1 cyl groups (16 c/g, 4.75MB/g, 2304 i/g)
```



```
super-block backups (for fsck -F ufs -o b=#) at:
 32,
#
```

- **Workaround 2:** Specify the number of bytes per inode (nbpi) in the newfs command to reduce the inode density in the file system. For example:

```
# newfs -i 4096 /dev/dsk/c0t0d0s6
newfs: construct a new file system /dev/rdisk/c0t0d0s6: (y/n)? y
Warning: 1432 sector(s) in last cylinder unallocated
/dev/rdisk/c0t0d0s6: 4712 sectors in 1 cylinders of 48 tracks,
128 sectors
2.3MB in 1 cyl groups (16 c/g, 48.00MB/g, 11648 i/g)
super-block backups (for fsck -F ufs -o b=#) at:
 32,
#
```

System Crash Dump Fails on Devices Greater Than 1 TByte (6214480)

The system cannot generate a dump on a partition that is equal to or greater than 1 Tbyte in size. If such a device is on a system, the following might occur after the system boots subsequent to a system panic:

- The system does not save the dump.
- The following message is displayed:

```
0% done: 0 pages dumped, compression ratio 0.00, dump failed: error 6
```

Workaround: Configure the size of your system's dump device to less than 1 Tbyte.

Using smoservice Command to Add OS Services Results in Insufficient Disk Space Message (5073840)

If you use the smoservice command to add OS services to a UFS file system, a message that there is insufficient disk space available is displayed. This error is specific to UFS file systems on EFI-labeled disks.

Workaround: Complete the following workaround.

1. Apply the SMI VTOC disk label.
2. Re-create the file system.
3. Rerun the smoservice command.

Hardware-Related Issue and Bugs

The following hardware-related issue and bugs apply to the Solaris 10 release.

The (ZFS) ARC Allocates Memory Inside The Kernel Cage Preventing DR (6522017)

ZFS can potentially allocate kernel memory across all system boards on systems with very large memory configurations. One free system board is required for dynamic memory reconfiguration so that the memory from the board to be dynamically reconfigured can be copied to the free board. The dynamic memory reconfiguration means that you cannot dynamically reconfigure memory on systems with very large memory configurations that have ZFS running. High-end SunFire™ servers can relocate kernel pages so that this issue is avoided. These servers must have kernel page relocation (KPR) enabled for domains with more than 32 cores. No error message is displayed

Workaround: Reduce the amount of kernel memory that ZFS can allocate by setting the `zfs_arc_max` parameter in the `/etc/system` file. The following example sets the maximum size to 512 Mbytes.

```
set zfs_arc_max = 0x20000000
```

SPARC: DR: `cfgadm -c configure` Command Fails on Slot of Starcat and Silverstone (6452077)

This bug affects all existing PCI platforms with hot-pluggable slots when the customer tries to hot-plug and configure a card making a 64-bit MEM request, for example, the Crystal 2R Fibre Channel card.

No error message is displayed. However, the configuration fails and the card is not usable.

Workaround: None. Reboot the system with the card inserted in the slot, and the card is configured and ready for operation.

`mpathadm` Does Not Display Load-Balance Setting Specific to Device

The `mpathadm show logical-unit` subcommand lists the load balancing global configuration value for the Current Load Balance property. However, entries in the `csi_vhci.conf` that change the load-balance type for a specific product are not reflected in the `mpathadm` output even when the setting is active.

Registration Tool Prevents Power Management on Some Framebuffers (6321362)

If the background processes for the registration tool are left running, the Elite3D and Creator3D framebuffers stop power management. This failure reduces the power savings when the system is in a power-managed state. Under certain conditions, `sys-suspend` might also hang. No error message is displayed. The system might hang during a system suspend or resume operation.

Workaround:

Run the following command approximately 60 seconds after each login:

```
# pkill -f basicreg.jar
# pkill -f swupna.jar
```

SPARC: Sun Crypto Accelerator 4000 Board Versions 1.0 and 1.1 Not Supported in Solaris 10 OS

A new cryptographic framework is provided in Solaris 10 OS. However, versions 1.0 and 1.1 of the Sun Crypto Accelerator 4000 board's software and firmware do not utilize this framework. Consequently, these versions are not supported in the Solaris 10 OS.

The 2.0 release uses the new framework. This release is available as a free upgrade to current Sun Crypto Accelerator 4000 users who plan to use Solaris 10 OS. Because the Sun Crypto Accelerator 4000 is an export-controlled product, you must contact Sun Enterprise Services or your local sales channel to obtain the free upgrade. Additional information is available on the Sun Crypto Accelerator 4000 web page at Sun's [products site](#).

Certain USB 2.0 Controllers Are Disabled

Support for certain USB 2.0 controllers has been disabled because of incompatibilities between these devices and the EHCI driver. The following message is displayed:

```
Due to recently discovered incompatibilities with this
USB controller, USB2.x transfer support has been disabled.
This device will continue to function as a USB1.x controller.
If you are interested in enabling USB2.x support please refer
to the ehci(7D) man page.
Please refer to www.sun.com/io for Solaris Ready products
and to www.sun.com/bigadmin/hcl for additional compatible
USB products.
```

For the latest information about USB devices, see http://www.sun.com/io_technologies/USB-Faq.html.

Supported USB Devices and Corresponding Hub Configurations

This Solaris release supports both USB 1.1 and USB 2.0 devices. The following table is a summary of USB devices that work in specific configurations. Connection types can either be direct to the computer or through a USB hub. Note that USB 1.1 devices and hubs are low speed or full speed. USB 2.0 devices and hubs are high speed. For details about ports and speeds of operation, see the *System Administration Guide: Devices and File Systems*.

TABLE 3-1 USB Devices and Configurations

USB Devices	Connection Types
USB 2.0 storage devices	Direct, USB 1.1 hub, USB 2.0 hub
USB 1.1 devices except audio	Direct, USB 1.1 hub, USB 2.0 hub
USB 1.1 audio devices	Direct, USB 1.1 hub
USB 2.0 audio devices	Not supported

DVD-ROM/CD-ROM Drives on Headless Systems

Power management of interactive devices such as removable media is linked with power management of your monitor and the graphics card that drives your monitor. If your screen is active, devices such as the CD-ROM drive and diskette remain at full-power mode. These devices might switch to low-power mode on a system without a monitor. To restore power to the CD or diskette, type `volcheck` to obtain the latest status from each removable device.

Alternatively, you can disable power management on your system by using the Dtpower GUI. By disabling power management, these devices are constantly at full power.

SPARC: Power Management in Sun Expert3D and Sun Elite3D Hardware Not Working Under Certain Circumstances (6321362)

Sun Expert3D or Sun Elite3D cards in Sun Blade™ 1000 or Sun Blade 2000 workstations normally switch to low-power mode after an idle period. However, if these cards are set as the primary head in the Xserver, power management does not work. The affected cards remain at full power and no power savings are realized. No error message is displayed.

Workaround: None.

SPARC: jfca Driver for Certain Host Bus Adapters That Are Connected to Tape Devices Might Cause Errors (6210240)

The jfca driver for the following host bus adapters (HBAs) might cause system panics or I/O failures when these HBAs are connected to tape devices:

- SG-PCI1FC-JF2
- SG-PCI2FC-JF2

The jfca driver for these HBAs is prone to race conditions when certain operations are being run, and thus causes the errors. The operations are the following:

- Link reset
- Loop reset
- Switch reset
- Repeated link failures

Error messages similar to the following examples might be displayed:

- I/O failure messages

```
jfca: [ID 277337 kern.info] jfca4: Sequencer-detected error. Recover
immediately.
last message repeated 18376 times
  jfca: [ID 716917 kern.notice] jfca4: ExgWarning: SendVerify(1): SHOULD
ABORT THE ORIG I/O PKG=30007520bd8!
scsi: [ID 107833 kern.warning] WARNING:
/pci@1e,600000/SUNW,jfca@3,1/fp@0,0/st@w2100001086108
628,1 (st3):
  SCSI transport failed: reason 'timeout': giving up
```

- System panic message

```
panic[cpu1]/thread=2a100497cc0:
BAD TRAP: type=31 rp=2a1004978d0 addr=a8 mmu_fsr=0 occurred in module
"jfca" due to a NULL pointer dereference
```

Workaround: Do not connect tape devices to either the SG-PCI1FC-JF2 or SG-PCI2FC-JF2 HBA.

Contention Exists Between Certain Devices That Share the Same Bus (6196994)

A bus contention occurs if Quad Fast-Ethernet (QFE) cards share the same bus with any of the following adapters:

- Sun GigaSwift adapter
- Sun Dual Gigabit Ethernet and Dual SCSI/P adapter
- Sun Quad Gigaswift Ethernet adapter

The infinite-burst parameter of the ce driver that is used by these adapters is enabled by default. Consequently, little or no bus time is available for the QFE ports that share the same bus.

Workaround: Do not place QFE cards on the same bus as the network adapters in the list.

hat_getkpfnum() DDI Function Is Obsolete (5046984)

The `hat_getkpfnum()` DDI function is obsolete. Developers should update their device drivers to not use the `hat_getkpfnum()` DDI interface. If drivers are using `hat_getkpfnum, ()` warnings similar to the following example are displayed:

```
WARNING: Module mydrv is using the obsolete hat_getkpfnum(9F)
interface in a way that will not be supported in
a future release of Solaris. Please contact the
vendor that supplied the module for assistance,
or consult the Writing Device Drivers guide,
available from http://www.sun.com for migration
advice.
```

```
---
```

Callstack of bad caller:

```
hat_getkpfnum_badcall+93
hat_getkpfnum+6e
mydrv_setup_tx_ring+2d
mydrv_do_attach+84
mydrv_attach+242
devi_attach+6f
attach_node+62
i_ndi_config_node+82
i_ddi_attachchild+4a
devi_attach_node+4b
devi_attach_children+57
config_immediate_children+6e
devi_config_common+77
mt_config_thread+8b
```

To determine if a driver is using `hat_getkpfnum()`, consult the driver source code, or examine the driver's symbols by using `nm()`. Using the driver `mydrv` as an example, type the following syntax:

```
% nm /usr/kernel/drv/mydrv | grep hat_getkpfnum
```

For guidance about migrating drivers away from `hat_getkpfnum()`, refer to Appendix B, “Summary of Solaris DDI/DKI Services,” in *Writing Device Drivers*.

Some DVD and CD-ROM Drives Fail to Boot Solaris (4397457)

The default timeout value for the SCSI portion of the SunSwift™ PCI Ethernet/SCSI host adapter (X1032A) card does not meet the timeout requirements of Sun's SCSI DVD-ROM drive (X6168A). With marginal media, the DVD-ROM occasionally experiences timeout errors. The only exceptions are Sun Fire 6800, 4810, 4800, and 3800 systems. These systems overwrite the SCSI timeout value by means of OpenBoot PROM.

Workaround: For other platforms, use the on-board SCSI interfaces or DVD-ROM compatible SCSI adapters, such as the following examples:

- X1018A (SBus: F501-2739-xx)
- X6540A (PCI: F375-0005-xx)

iPlanet Directory Server 5.1 Issues

This section provides important information for users of iPlanet™ Directory Server 5.1 who are upgrading to the new Solaris 10 release.

Installing Directory Server 5.1

Sun Java System Directory Server 5 2005Q1 replaces iPlanet Directory Server 5.1 that was integrated in the Solaris 9 Operating System. In Solaris 10 OS, this new Directory Server can be installed as part of the Sun Java Enterprise System.

Note – For information about the Sun Java System Directory Server 5 2005Q1, refer to the documentation for the Sun Java System at <http://docs.sun.com>.

Solaris 10 OS continues to support Directory Server 5.1. You might need to install Directory Server 5.1 under the following circumstances:

- You need to recover Directory Server 5.1 data.
- You want to migrate your data to Directory Server 5 2005Q1.

In Solaris 10 release, you install the Directory Server 5.1 manually. Follow these steps:

1. Insert the Solaris 10 Software - 4 CD into your CD-ROM drive.
2. Become superuser.
3. In a terminal window, install the Directory Server.

```
# cd /cdrom/cdrom0/Solaris_10/Product/
# pkgadd -d . IPLTnls IPLTnspr IPLTnss IPLTjss IPLTpldap \
IPLTdsr IPLTdsu IPLTadmin IPLTcons IPLTadcon IPLTdscon \
IPLTadman IPLTdsman
```

To install Simplified Chinese localization packages, issue the following additional command:

```
# pkgadd -d . IPLTcdsu IPLTcadmin IPLTccons IPLTcadcon \
IPLTcdscon IPLTcadman IPLTcdsman
```

To install Japanese localization packages, issue the following additional command:

```
# pkgadd -d . IPLTjdsu IPLTjadmin IPLTjcons IPLTjadcon \
IPLTjdscon IPLTjadman IPLTjdsman
```

4. After installation is complete, configure iPlanet Directory Server 5.1. Refer to Chapter 11, “Sun ONE Directory Server Configuration,” in *System Administration Guide: Naming and Directory Services (DNS, NIS, and LDAP)*.

Migrating to the Sun Java System Directory Server 5 2005Q1



Caution – The database formats of the two Directory Server versions are incompatible. Thus, if you are a Directory Server 5.1 user, Sun recommends that you migrate your database to a database that is formatted for the Sun Java System Directory Server 5 2005Q1.

To perform a migration, both versions of the Directory Server must exist in the system that has been upgraded to the Solaris 10 OS. If you are a DS 5.1 user, but are using the compressed archive (.tar.gz) delivery format, you can skip immediately to the migration instructions in Step 2.

1. On a terminal window, check whether iPlanet Directory Server 5.1 packages are present in your system.


```
$ pkginfo | grep IPLT
```

If the following packages appear as output, then you can go to Step 2 to proceed with the migration. The output indicates that the iPlanet Directory Server 5.1 packages are in the system.

```
system IPLTadcon Administration Server Console
system IPLTadman Administration Server Documentation
system IPLTadmin Administration Server
system IPLTcons Console Client Base
system IPLTdscon Directory Server Console
system IPLTdsman Directory Server Documentation
system IPLTdsr Directory Server (root)
system IPLTdsu Directory Server (usr)
system IPLTjss Network Security Services for Java
system IPLTnls Nationalization Languages and Localization Support
system IPLTnspr Portable Runtime Interface
system IPLTnss Network Security Services
system IPLTpldap PerLDAP
$
```

If the packages do not exist, then install the iPlanet Directory Server 5.1 packages first. Refer to the 4-step procedure in the preceding section “[Installing Directory Server 5.1](#)” on page 55. After installation is complete, go to Step 2 to proceed with the migration.

2. Migrate your iPlanet Directory Server 5.1 database to the current version. For instructions, refer to the documentation collection for the Sun Java System Directory Server at http://docs.sun.com/coll/DirectoryServer_05q1.

After migrating your data, make sure you continue to back up directory data in the same way as you backed up directory data before migration. Future disaster recovery might require the migrated database.

Issues While Running Debugger

The following issues involve the kernel debugger.

SPARC: Problems With dbx Debugger While Processing 64-bit Objects (6347707)

The dbx debugger terminates with a memory access failure while processing certain 64-bit executable files and libraries. However, the problem does not affect the normal use of these 64-bit objects. An error message similar to the following example is displayed:

```
dbx: internal error: signal SIGBUS (invalid address alignment)
```

Workaround: Use either the mdb debugger or the Solaris Dynamic Tracing facility instead. These alternatives can diagnose processes that use the 64-bit objects.

System Might Loop When Master CPU Is Changed (4405263)

A system that is running the Solaris kernel debugger to debug a live system might loop with incomplete error messages. This loop occurs when the OpenBoot PROM's master CPU is changed. A system reset restores the system to operation. However, the traces of the original failure are lost. Consequently, you cannot perform a diagnosis of the fatal reset.

Workaround: When the system is at the PROM level, the OpenBoot's ok prompt is displayed. In a system with multiple CPUs, the ok prompt is preceded by a number that is enclosed in curly braces. This number indicates the active CPU in the system. To run your debug session while at the PROM level, use the following steps.

1. Raise pil to f by typing the following command:

```
{0} ok h# 0f pil!
```

2. Use the `switch-cpu` command to selectively switch from the currently active CPU to different CPUs. For example, to switch from CPU #0 to CPU #1, type the following command:

```
(0) ok 1 switch-cpu
```

The ok prompt is now preceded by the number of the CPU to which you switched.

```
{1} ok
```

3. Run your debugger.
4. At the end of your debugger session, issue a `reset-all` command to return the system to normal use.

Note – Make sure that you upgrade the system to the latest version of the OpenBoot PROM.

Localization Issues

This section describes localization issues that apply to Solaris 10 OS.

Multiple Input Method Switcher Applications Appear in Trusted Java DS

When you log in to the Trusted Java DS with UTF-8 or Asian locales, the Input Method Switcher application, `iiim-panel`, appears per label by default. Thus in multiple label environment, multiple `iiim-panel` appears, which could be confusing to the user.

No error message is displayed.

Workaround: Stop using the `iiim-panel`. Perform the following steps:

- Right-click on `iiim-panel` and select Preference. The Input Method Preference Editor, `iiim-properties`, is displayed.
- Select None or Attach to Each Application from the Input Method Status and Switcher Placement list in the General tab.
- Press Apply or Click the OK button.

Note – When Attach to each application is selected, language switcher list will not be displayed for GTK applications. You can switch input language through non-GTK applications or by running GTK applications with X Input Method instead of IIIM. For example:

```
% env GTK_IM_MODULE=xim gedit
```

Wnn8 Japanese Input Method

Wnn8 Japanese Input method cannot be used if the Wnn8 servers are not enabled.

Workaround: Enable the Wnn8 servers:

```
# svcadm enable wnn8/server
```

In addition, select Wnn8 as the Japanese Language engine by running the `iiim-properties` command.

Keyboard Shortcuts in Mozilla Ambiguous in Spanish Locale (6288620)

The keyboard shortcuts in Mozilla 1.7 are ambiguous in the Spanish (Es) locale. For example, you can use `Ctrl-S` to copy or to save. No error message is displayed.

Workaround: Use the shortcut keys assigned to user actions from the product menu.

Uninstaller Displays Strings Incorrectly in Some Locales (6487062)

This bug affects how you uninstall Solaris Trusted Extensions by using `prodreg` in locales other than C, POSIX, or any English locale. Strings are not displayed correctly in these locales when you uninstall by using `prodreg`.

No error message is displayed. The uninstaller shows placeholder strings, and buttons do not display correctly.

Workaround: Before you uninstall with `prodreg`, run the following commands:

```
# cd <Solaris_installation_media>/Solaris_10/ExtraValue/CoBundled/Trusted_Extensions
# cp -rp locale /var/sadm/tx
```

Then uninstall with `prodreg`.

Input Method Cannot Be Enabled With Primary Administrator Rights (6475081)

A user who has the Primary Administrator right can not use the input method for specific locales which prevents that user from entering characters normally. The input method status is not displayed in the workspace. No error message is displayed.

Workaround: Add the following lines to the `/etc/security/exec_attr` file:

```
Primary Administrator:solaris:cmd:::/usr/bin/csh:uid=0;gid=0
Primary Administrator:solaris:cmd:::/usr/bin/ksh:uid=0;gid=0
Primary Administrator:solaris:cmd:::/usr/bin/sh:uid=0;gid=0
```

For information about the file format, see the `exec_attr(4)` man page.

New ChuYin Input Method Not Supported in Upgrade to IIMF rev.12 (6492129)

When you upgrade the OS to the Solaris 10 6/06 or Solaris 10 11/06 release, the input method framework and individual input methods get upgraded from rev.10 to rev.12. However, ChuYin is not in the list of supported input methods. Also, you cannot use the function keys F2 and F3 to switch methods.

Workaround: Use PinYin to type traditional Chinese characters with Hanyu PinYin. Use `Ctrl+Shift` to switch input methods.

AltGr Does Not Work As Mode Switcher in Some Russian Locales (6487712)

The AltGr key does not work as a mode switcher for the Russian Xsun layout in ru_RU.KOI8-R and ru_RU.ANSI1251 locales.

Workaround 1: Switch to the ru_RU.UTF-8 or the ru_RU.ISO8859-5 locale.

Workaround 2: Use IIIMF™ instead of the Russian keyboard layout.

Arabic6.kt Keytable Does Not Contain Arabic Symbols (6463576)

The Arabic6.kt keytable does not contain any Arabic symbols.

Workaround: Use IIIME. Set the Arabic input through the gimlet switcher instead of switching to Arabic by using the Altgr key.

Arabic Text Not Appearing in ar Locales

If your x86 system is using Xorg as the default Xserver, the Arabic font (iso7759-6) does not appear in the ar locale. This error does not occur if you are using XSun instead of XOrg.

Workaround: Follow these steps.

1. As superuser, edit /usr/dt/config/Xservers.

- Uncomment or add the following line:

```
:0 Local local_uid@console root /usr/openwin/bin/Xsun :0
-nobanner -defdepth 24
```

- Comment out the following line:

```
:0 Local local_uid@console root /usr/X11/bin/Xorg :0
```

2. Reboot the system.

Alternatively, you can log in to ar_EG.UTF-8 or other UTF-8 locales.

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.

Adding Regions Fails With the `localeadm` Command (6350486)

The function to add regions in the `localeadm` command no longer works if you create a new configuration file. The Language CD is not detected when you add the following regions:

- Southern Europe
- North America
- Northern Europe

The following error message is displayed:

```
No langcd image has been found in
/cdrom/sol_10_1005_x86_4/Solaris_10/Product
```

```
No langcd image has been found in
/cdrom/sol_10_1005_x86_4 /cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4
/cdrom/sol_10_1005_x86_4
```

Please enter the path to this image/disk, or enter 'q' to quit:

Workaround: When you are prompted to create a new configuration file, select No. Instead, use the configuration file that was installed in the system.

L10N Messages Missing When Using `localeadm` Utility to Add Locales (6423974)

When the `Locale_config` configuration file is created using the DVD/net image, using the `Locale_config` file to add locales leaves many unlocalized messages on the Gnome Desktop. No error message is displayed.

Workaround 1:

Login as superuser and do the following:

1. Change to the location of the `localeadm Locale_config` file.

```
# cd /usr/sadm/lib/localeadm/
```

2. Revert to the existing `Locale_config` file bundled with the `localeadm` utility.

```
# mv Locale_config_S10.txt.old Locale_config_S10.txt
```

Workaround 2:

Re-create the `Locale_config` file by using the CD images.

SPARC: Keycode 50 Does Not Work for European Keyboard Layouts (6387317)

Keycode 50 is not working for European keyboard layouts. This problem occurs with all European `*6.kt` keytable files. All keytables assign some symbols to keycode 50, but the key does not work. No error message is displayed.

Workaround:

Edit the `*6.kt` files in the `/usr/openwin/share/etc/keytables` directory. Duplicate keycode 50 for keycode 49 in the affected `*6.kt` file. For example, add the following entry for keycode 49 to the affected keytable file:

```
49 RN XK_numbersign XK_asciitilde
```

Several Arabic Fonts Do Not Work in GNOME (6384024)

In GNOME when you select certain Arabic fonts, the characters do not display. This problem appears when you select fonts for applications, the desktop, or the window title using the GNOME font properties menu. The affected fonts include:

- Akhbar MT (Regular, Bold)
- Shayyal MT (Regular, Bold)
- Naskh MT (Regular, Bold)

No error message is displayed.

Workaround:

Use any of the newly delivered Kacst family of fonts to display Arabic characters in GNOME applications.

Unable to Switch Input Language on Session-Saved Applications (6360759)

Multiple language input is supported in UTF-8 locales, but the language switch is not working with session-saved applications where mouse button 1 is clicked first after login. This problem occurs with the Java Desktop System (Java DS). No error message is displayed.

Workaround:

Click mouse button 1 on the backgroundworkspace or Launch Menu before clicking any application.

Keyboard Shortcuts in Mozilla in ES Locale Are Unusual and Ambiguous (6288620)

The keyboard shortcuts in Mozilla 1.7 are unusual, especially in Spanish locale. For example, Ctrl-S is being used for copying as well as for saving. No error message is displayed.

Workaround:

Identify the shortcut keys assigned to user actions from menu in the product.

Migration Note to UTF-8 locales

When migrating to UTF-8 locales, the files affect the method that you use to import or export data.

Microsoft Office Files

Microsoft Office files are encoded in Unicode. StarOffice applications can read and write the Unicode encoded files.

HTML Files

HTML files authored using HTML editors such as Mozilla Composer, or HTML files saved by a web browser, usually contain a charset encoding tag. After exporting or importing, you can browse such HTML files with the Mozilla Navigator web browser, or edit the files with Mozilla Composer, according to the encoding tag in the HTML file.

Fixing Broken HTML File

Some HTML files might be displayed in garbage characters. This problem is typically due to the following reasons:

- The charset encoding tag is incorrect.
- The charset encoding tag is missing.

To find the charset encoding tag in the HTML file, perform the following actions:

1. Open the file with Mozilla.
2. Press Ctrl-i, or click View to open the View menu.
3. Click Page Info.

The charset information is in the bottom of the General tab, for example:

```
Content-Type text/html; charset=us-ascii
```

If the string `charset=us-ascii` does not match the actual encoding of the file, the file might appear broken. To edit the encodings of the HTML file, perform the following actions:

1. Open the file with Mozilla Composer.
2. Open the File menu.
3. Select Save as Charset.
4. Choose the correct encoding. Mozilla Composer automatically converts the encoding and the charset tag as appropriate.

Emails Saved As Portable Format

Modern mails are tagged with the MIME charset tag. The Email and Calendar application accepts MIME charset tags. You do not need to perform any encoding conversion.

Plain Text Files

Plain text files do not have a charset tag. If the files are not in UTF-8 encoding, encoding conversion is needed. For example, to convert a plain text file encoded in Traditional Chinese big5 to UTF-8, execute the following command:

```
iconv -f big5 -t UTF-8 inputfilename
```

```
> outputfilename
```

You can also use the File System Examiner for the encoding conversion.

You can use the Text Editor to read and write character encoding text automatically or by specifying an encoding explicitly when opening or saving a file.

To start Text Editor, click Launch, then choose Applications->Accessories->Text Editor.

File Names and Directory Names

If file names and directory names using multibyte characters are not in UTF-8 encoding, encoding conversion is needed. You can use File System Examiner to convert file and directory names and the contents of plain text files from legacy character encodings to UTF-8 encoding. Refer to the online Help for File System Examiner for more information.

To start File Systems Examiner, click Launch, then choose Applications->Utilities->File System Examiner.

When you access non-UTF-8 file or directory names on Microsoft Windows via SMB using File Manager, you can access the non-UTF-8 file or directory names without encoding conversion.

Launching Legacy Locale Applications

For applications that are not ready to migrate to Unicode UTF-8, you can create a launcher on a front panel to start the application in legacy locales. You can also launch the applications directly from the command line. Perform the following steps to create a launcher for an application.

1. Right-click on the panel where you want to place the launcher.
2. Choose Add to Panel->Launcher.
3. Use the following format to type the entry in the Command field in the Create Launcher dialog:

```
env LANG=locale LC_ALL=  
locale application name
```

For example, if you want to launch an application called `motif-app` from `/usr/dt/bin` in the Chinese Big5 locale, enter the following text in the Command field of the Create Launcher:

```
env LANG=zh_TW.BIG5 LC_ALL=zh_TW.BIG5 /usr/dt/bin/motif-app
```

4. Click OK to create the launcher on the panel.

When you need to run CLI (command line interface) applications which are specific to a legacy locale, open a Terminal window in the legacy locale first and then run the CLI applications in the same Terminal window. To open a Terminal window in a legacy locale, enter the following command:

```
eng LANG=locale LC_ALL=locale GNOME-TERMINAL --disable-factory.
```

Instead of opening a new Terminal window in a legacy locale, you can switch the locale setting from UTF-8 to a legacy locale in the current Terminal window by changing the encoding the Set Character Encoding menu in the Terminal window. Then you must also set the LANG and LANG environment variables to the current shell.

Hardware for Estonian Keyboard Type 6, French Canadian Keyboard Type 6, and Polish Programmers Keyboard Type 5 Not Available

Software support for three additional keyboard layouts has been added to the Solaris OS: 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, make the following changes:
 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, make the following changes:
 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, make the following changes:
 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.

Cannot Print Documents in Portable Document Format (6239307, 6218079)

On all locales, the Document Viewer cannot print localized files that are in Portable Document Format (PDF).

Workaround: Choose one of the following workarounds:

- On SPARC based systems, use the Acrobat Reader to print localized PDF files.
- On x86 based systems, use StarOffice to create and then print PDF files.

Special Keyboard Keys Do Not Work (5077631)

Special keys on the left of the keyboard do not work on European keyboard mappings. This problem affects all European locales.

Workaround: Use shortcut keys instead of the special keyboard keys. The following example lists shortcut keys and the corresponding functions:

- Ctrl-Z - Undo
- Ctrl-C - Copy
- Ctrl-V - Paste
- Alt-Tab allows you to switch between windows.

Modifier Keys Do Not Function Correctly (4996542)

On all locales, the Alt key and the Shift key might not function as modifier keys when you use the Internet/Intranet input method. For example, the Shift-arrow key combination might not allow you to select text. Instead, the combination might insert Latin characters.

Workaround: Use a different input method, for example, Default. To switch input methods, right-click on an object and select Input method.

Chinese and Korean Characters Are Printed In a Box (4977300)

The postscript printer does not bundle Chinese or Korean fonts. Consequently, in Chinese or Korean locales, if you attempt to print from the Mozilla browser, the characters are printed within a box. The Common UNIX Printer System (CUPS) needs to convert the Mozilla postscript fonts before a file can be printed.

Workaround: Perform the following steps.

1. Click Launch => Preferences => Printers.
2. Right-click the PostScript printer icon, then select Properties.
3. Click the Advanced tab.
4. Set the Ghostscript pre-filtering to Convert to PS level 1.

Sort Capability in the European UTF - 8 Locales Does Not Function Correctly (4307314)

The sort capability 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.IS08859-1
# export LC_COLLATE
```

Then start sorting.

Networking Issues

The following networking bugs apply to the Solaris 10 release.

File libmd.so.1 Not Found (6541703)

The symbolic link between /lib/libmd.so and /lib/libmd.so.1 is missing.

The following error message is displayed:

```
libmd.so: not found
```

Workaround: Log in as a superuser. Type the following command on the command line to manually add the symbolic link:

```
ln -s /lib/libmd.so.1 /lib/libmd.so
```

Login Fails on iSCSI Target With Two Portals and One Bad Portal (6476060)

If an iSCSI target or an array returns more than one IP address as part of its send target response, the initiator takes into account only the last address in the list and not the first one, as it used to prior to this release. As a result, if the last IP address is bad or invalid, the connection to this target fails.

Workaround: Return the different target portal group tags (TPGT) for each entry in its send target response. The initiator tries to establish a connection to all the IP addresses so that the connection succeeds.

System Domain of Interpretation Is Not Configurable (6314248)

The system Domain of Interpretation (DOI) is not configurable. When the SMC is used to create a new trusted network template, the SMC sets the DOI to 0 and Solaris Trusted Extensions does not function correctly. Various error messages are displayed.

Workaround: Set the DOI to 1 using the SMC.

Memory Leaks with ECC and RSA Cipher Suites (6421471)

Memory leak in NSS with ECC and RSA cipher suites might cause a system hang or system panic. The out of memory error message is displayed.

Workaround: Install the following patches:

- Patch ID 119213-09 for SPARC based systems.
- Patch ID 119214-09 for x86 based systems.

iSCSI Initiator Does Not Handle LUN Address Reporting Properly (6377485)

The Solaris iSCSI software initiator does not support logical units with a LUN greater than 255. No error message is displayed.

Workaround:

Change the logical unit numbers of the target device to less than 255.

Wrong MAC Address is Displayed When There is More Than One Ethernet Card (6316245)

When you register to a Solaris 10 7/07 HW OS for remote update management using the Sun Update Connection, your system information is displayed. If your system has more than one Ethernet card, the same MAC address is displayed for all the Ethernet cards. No error message is displayed.

Workaround: None.

SPARC: RTM_IFINFO Message Has Different Sizes on 32-bit and 64-bit Compilations

Sixty-four-bit programs that create PF_ROUTE sockets and parse the contents of RTM_IFINFO messages in the `if_msghdr_t` structure might work incorrectly unless they are recompiled.

IP Forwarding Disabled by Default in Solaris 10 OS

In this Solaris release, IP forwarding is disabled by default. This setting applies to both IPv4 and IPv6 regardless of other system configurations. Systems with multiple IP interfaces that formerly forwarded IP packets by default no longer have this automatic feature. To enable IP forwarding in multihomed systems, administrators must manually perform additional configuration steps.

Workaround: The command `routeadm` enables IP forwarding. The configuration changes that are the result of `routeadm` usage persist across system reboots.

- To enable IPv4 forwarding, type `routeadm -e ipv4-forwarding`.
- To enable IPv6 forwarding, type `routeadm -e ipv6-forwarding`.
- To apply the enabled IP-forwarding configuration to the currently running system, type `routeadm -u`.

For more information about IP forwarding, see the `routeadm(1M)` man page.

Generic LAN Driver Version 3 Fails to Set Field Length of Logical Link Control Frames (6350869)

The Generic LAN Driver Version 3 (GLDv3) incorrectly sets the field length of Logical Link Control (LLC) frames. Consequently, protocols such as AppleTalk that are dependent on LLC do not function correctly. No error message is displayed. The problem affects the following network interface controllers:

- bge
- e1000g
- xge

Workaround: None.

Zone Not Booting When IP Address Belongs to a Failed IP Network Multipathing Group (6184000)

A zone can be configured so that the zone's IP address becomes part of an IP Network Multipathing (IPMP) group. The configuration process is documented in “How to Extend IP Network Multipathing Functionality to Shared-IP Non-Global Zones” in *System Administration Guide: Solaris Containers-Resource Management and Solaris Zones*.

If all the network interfaces in the IPMP group fail, a zone does not boot if it has an IP address that is part of the IPMP group.

The following example illustrates the result if you attempt to boot the zone.

```
# zoneadm -z my-zone boot
zoneadm: zone 'my-zone': bge0:1:
could not set default interface for multicast: Invalid argument
zoneadm: zone 'my-zone': call to zoneadmd failed
```

Workaround: Repair at least one network interface in the group.

Intermittent Errors Might Occur With the Use of DataDigests (5108515)

Internet SCSI (iSCSI) targets might report cyclic redundancy check (CRC) errors if DataDigests are enabled. User applications that update input/output buffers after transmitting to the iSCSI initiator might cause a miscalculation of the CRC. When the target responds with a CRC error, the iSCSI Initiator retransmits the data with the correct DataDigest CRC. Data integrity is maintained. However, data transfer performance is affected. No error message is displayed.

Workaround: Do not use the DataDigest option.

ATM LANE Subnets for IPv4/IPv6 Might Not Complete Initialization (4625849)

During system boot, multiple instances might not connect to their LAN Emulation (LANE) instance if more than eight LANE instances are on a single adapter. This bug does not appear at multiuser level.

Workaround: To reinitialize your SunATM network, perform the following steps:

1. Verify the problem by issuing a `lanes tat -a` command.

Instances that are not connected have Virtual Circuit Identifier (VCI) values of 0 to the LAN Emulation Server (LES) and Broadcast and Unknown Address Server (BUS).

2. Stop and restart your SunATM network.

```
# /etc/init.d/sunatm stop
# /etc/init.d/sunatm start
```

3. Reset netmasks or any other network setup for the SunATM interfaces.

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 Issues

The following security issues applies to the Solaris 10 release.

Nonpassword Logins Fail With pam_ldap Enabled

After the account management PAM module for LDAP (`pam_ldap`) is enabled, users must have passwords to log in to the system. Consequently, nonpassword-based logins fail, including those logins that use the following tools:

- Remote shell (`rsh`)
- Remote login (`rlogin`)
- Secure shell (`ssh`)

Workaround: None.

Incorrect Parameters Might Cause Panic in Sun StorEdge T3 (4319812)

A Sun StorEdge™ T3 system might panic if an application uses the HTTP interface to send tokens with out-of-range parameters.

Service Management Facility

This section describes issues that involve the Service Management Facility of Solaris 10 OS. For more information about this new feature in the Solaris OS, see “Solaris Service Manager” in *Solaris 10 7/07 HW What's New*.

Print Services Have Offline Settings by Default (5100134)

When a host has no local printers configured, two print services, `ipp-listener` and `rfc1179`, are set to offline by default. These services are automatically moved to online after local printers are configured on the host. The default offline settings of these services do not indicate an error. Therefore, no user intervention is required.

Workaround: None.

keyserv Daemon Disables Some File System Services (5084183)

On systems that do not use Network Information Service (NIS) or NIS+ name service, the NFS and autofs services are disabled. The failure is due to these services' dependency on the keyserv daemon. The keyserv daemon relies on the RPC domain name, which is not set on systems that do not use NIS or NIS+. Consequently, the failure of the keyserv daemon causes the NFS and autofs services to become disabled.

Workaround: To enable the services, perform the following steps:

1. Become superuser.
2. Issue the following commands:

```
# svcadm disable network/rpc/keyserv
# svcadm disable -t network/nfs/client:default
# svcadm enable network/nfs/client:default
# svcadm disable -t network/nfs/server:default
# svcadm enable network/nfs/server:default
# svcadm disable -t network/rpc/gss:ticotsord
# svcadm enable network/rpc/gss:ticotsord
```

Login Prompts Sometimes Appear Before File Systems Are Mounted (5082164)

During system startups, sometimes the login services such as console or ssh logins start before remote file systems and naming services become available. Consequently, the user name might not be recognized or the user's home directory might not be available.

Workaround: If the error occurs, wait for a few seconds and then log in again. Alternatively, log in from a local account to view the system state.

Smart Card

The following Smart Card bugs apply to Solaris 10 OS.

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 was terminated.
2. Become superuser.
3. Kill the `dtsession` process by typing the following in a terminal window.

```
# 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 which 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*.

Solaris Commands and Standards

The following section describes behavior changes in certain commands and standards in Solaris 10 OS.

Failed Unconfigure Command `cfgadm` Might Succeed Later Without Notice (6483258)

Sometimes the `cfgadm -c unconfigure` command fails because of pending I/Os. With the changed kernel, the command is retried offline. The `cfgadm`'s unconfigure command might, however, succeed later without any notice to the user.

Workaround: Run the `cfgadm -al` command.

Bash 2.0.5b No Longer Sets Some Environment Variables

Solaris 10 OS includes Bash 2.0.5b. This shell no longer automatically exports the following variables to the environment:

- `HOSTNAME`

- HOSTTYPE
- MACHTYPE
- OSTYPE

This new behavior applies even if the shell assigns default values to these variables.

Workaround: Export these variables manually.

New `ln` Utility Requires `-f` Option

The behavior of `/usr/bin/ln` has changed to adhere to all of the standards from SVID3 through XCU6. If you use the `ln` command without the `-f` option to link to an existing target file, the link is not established. Instead, a diagnostic message is written to standard error, and the command proceeds to link any remaining source files. Finally, the `ln` command exits with an error value.

For example, if file `b` exists, the syntax `ln a b` generates the following message:

```
ln: b: File exists
```

This behavior change affects existing shell scripts or programs that include the `ln` command without the `-f` option. Scripts that used to work might now fail in Solaris 10 OS.

Workaround: Use the `-f` option with the `ln` command. If you have existing scripts that execute the link utility, make sure to modify these scripts to comply with the command's new behavior.

New `tcsh` Rejects `setenv` Variable Names That Use a Dash or an Equals Sign

In Solaris 10 OS, `tcsh` has been upgraded to version 6.12. This version no longer accepts environment variables whose names use a dash or an equals sign. Scripts that contain `setenv` lines and that work in earlier Solaris versions might generate errors in the current Solaris 10 release. The following error message is displayed:

```
setenv: Syntax error
```

For more information, refer to the `tcsh` man page for the Solaris 10 OS.

Workaround: Do not use the dash or equals sign in names for environment variables.

STDIO `getc` Family EOF Condition Behavior Change

Applications that were built in strict standard C conformance mode are affected by the behavior changes of certain library functions. An example is applications that were compiled by using the `cc -Xc` or `c89` compilation mode. The behavior has changed for the following library functions:

- `fgetc()`
- `fgets()`
- `fgetwc()`
- `fgetws()`
- `getc()`
- `getchar()`
- `gets()`
- `getwc()`
- `getwchar()`
- `getws()`

A formal interpretation of the 1990 C Standard requires that after an end-of-file condition is set, no more data is returned from the file on subsequent input operations. The exception is if the file pointer is repositioned or the error and end-of-file flags are explicitly cleared by the application.

The behavior for all other compilation modes remains unchanged. Specifically, the interfaces can read additional newly written data from the stream after the end-of-file indicator has been set.

Workaround: Call `fseek()` or `clearerr()` on the stream to read additional data after the EOF condition has been reported on the stream.

Output Columns of the `ps` Command Have Been Widened

Due to larger UIDs, processor ids, and cumulative execution time, the columns of the `ps` command output have been widened. Customer scripts should not assume fixed output columns.

Workaround: Scripts should use the `-o` option of the `ps` command.

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

Command `ping -v` Does Not Work on IPv6 Addresses (4984993)

The command `ping -v` fails when the command is applied to addresses that use Internet Protocol version 6 (IPv6). The following error message is displayed:

```
ping: setsockopt IPV6_RECVRTHDRDSTOPTS Invalid argument
```

Workaround: None. To obtain the same ICMP packet information that `ping -v` provides, use the `snoop` command.

Solaris Volume Manager

The following Solaris Volume Manager bugs apply to the Solaris 10 release.

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 10 Installation Guides.

Solaris Volume Manager `metassist` Command Fails in Non-English Locales (5067097)

In non-English locales, the Solaris Volume Manager `metassist` command might fail to create volumes. For example, if `LANG` is set to `ja` (Japanese), the following error message is displayed:

```
xmlEncodeEntitiesReentrant : input not UTF-8  
Syntax of value for attribute read on mirror is not valid  
Value "XXXXXX"(unknown word) for attribute read on mirror  
is not among the enumerated set  
Syntax of value for attribute write on mirror is not valid
```

Value "XXXXXX" (Parallel in Japanese) for attribute write on mirror is not among the enumerated set
metassist: XXXXXX (invalid in Japanese) volume-config

Workaround: As superuser, set the LANG variable to LANG=C.

For the Bourne, Korn, and Bash shells, use the following command:

```
# LANG=C; export LANG
```

For the C shell, use the following command:

```
# setenv LANG C
```

Volume Creation Fails in Systems With Unformatted Disks (5064066)

Creating Solaris Volume Manager volume configurations with the `metassist` command might fail if an unformatted disk is in the system. The following error message is displayed:

```
metassist: failed to repartition disk
```

Workaround: Manually format any unformatted disks before you issue the `metassist` command.

Hot Spares Do Not Work Correctly When Solaris Volume Manager RAID-1 (Mirror) or RAID-5 Volumes Are Created in Disk Sets Built on Soft Partitions (4981358)

If you create a Solaris Volume Manager RAID-1 (mirror) or RAID-5 volume in a disk set that is built on top of a soft partition, hot spare devices do not work correctly.

Problems that you might encounter include, but are not limited to, the following:

- A hot spare device might not activate.
- A hot spare device status might change, indicating the device is broken.
- A hot spare device is used, but resynced from the wrong drive.
- A hot spare device in use encounters a failure, but the broken status is not reported.

Workaround: Do not use this configuration to create a Solaris Volume Manager RAID-1 or RAID-5 volume in disk sets.

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 Sun StorEdge A5x00, 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 metadvice 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 metadvice database namespace to reflect the change in disk device identification. The 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
```

Sun Java Desktop System

This section describes issues that apply to the Sun Java Desktop System (Java DS) in the Solaris 10 OS.

Email and Calendar

This section describes issues related to Email and Calendars.

Problems With Using Multiple Attachments (6260583)

If you drag and drop email messages to a new email message body, the content of the new email message is corrupted.

Workaround: To send multiple attachments, perform the following steps:

1. Select the messages you want to attach.
2. On the Menu bar, choose Action => Forward => Attached.

Alternatively, you can press Ctrl-J to send the messages.

Problem With Changing Authentication Type (6246543)

After you change the authentication type for the incoming mail server, Email and Calendar might not work correctly.

Workaround: Restart Email and Calendar.

Incomplete List of Contacts in Contact Folder (5088514)

After you import an LDAP Data Interchange Format file containing several contacts, only some of the contacts are displayed in your contact folder. This is a display problem only. Email and Calendar has imported all the contacts.

Workaround: Restart Email and Calendar.

Login Issues

This section describes login issue.

Login Error Message

You might encounter the following error message when you log in to a Java Desktop System session:

Could not look up internet address for hostname.
 This will prevent GNOME from operating correctly.
 It may be possible to correct the problem by adding
 hostname to the file /etc/hosts

Workaround: Ensure that your hostname is set up correctly in the /etc/hosts file. Perform the following steps:

1. Set the hostname in the /etc/hosts file as follows:

```
127.0.0.1 localhost loghost hostname
localhost.localdomain
```

hostname is the name of your system.

2. Ensure that your hostname is listed in the /etc/nodename file. This file must also contain the following line:

```
127.0.0.1 localhost loghost hostname
localhost.localdomain
```

\$PATH issues (6247943)

When you log into Java Desktop System Release 3, your \$PATH is set incorrectly to the following:

```
/usr/bin::usr/dt/bin:/usr/openwin/bin:/bin:
/usr/ucb:/usr/openwin/bin:/usr/dt/bin
```

Workaround: Remove the following from your \$PATH:

- /usr/openwin/bin:
- /bin:
- ::

The resulting path should be similar to the following example:

```
/usr/bin:/usr/dt/bin:/usr/ucb:/usr/openwin/bin:/usr/dt/bin
```

Remote Connection Problems (6203727)

If you use dtlogin remote connection, you cannot connect to the GNOME Display Manager from certain systems.

Workaround: When you are prompted to select the remote login, specify the IP address instead of the hostname.

Help System

Wrong Help Window Opened For Volume Control (6253210)

If you use the Yelp browser to open the online help for Volume Control, the help file for the Keyboard Accessibility panel application is opened instead.

Workaround: None.

Online Help Freezes (5090731)

If you open an application's online help and no help files exist for that application, an error dialog box is displayed. Unless you click OK, the online Help system freezes and you cannot open the online help of other applications that you start subsequently.

Workaround: You must click the OK button in the error dialog box.

Mozilla Browser

Cannot Print Certain Documents From the Mozilla Browser

You cannot print documents from the Mozilla browser if the documents contain Unicode characters that are not in the Basic Multilingual Plane (BMP).

Workaround: None.

Cannot Specify User Preferences for Roaming Access in Mozilla Browser (6200999)

In the Mozilla browser, you can specify that User Preferences should be transferred to and from the Roaming Access server. You specify your Roaming Access option by following these steps:

1. On the browser, click Edit and select Preferences.
2. Select Roaming User, then select Item Selection.
3. On the right panel, select User Preferences.

However, the selection of User Preferences does not take effect.

Workaround: None.

Keyboard Shortcuts Fail (6192644)

In the Mozilla browser, you enable caret browsing by pressing F7. When caret browsing is enabled, the keyboard shortcut Ctrl-Home brings you to the beginning of the web page that you are browsing. However, this keyboard shortcut does not work when you browse certain sites such as www.yahoo.com and www.mozilla.org.

Workaround: Disable caret browsing by pressing F7.

System-Level Issues

User Preferences Not Fully Compatible

User preferences in your home account for an earlier version of the GNOME Desktop might be partly incompatible with the version on the Java DS Release 3.

Workaround: Reset your preferences. Perform the following steps:

1. Log out of the Java Desktop System.
2. Click Session and choose Failsafe terminal.
3. Log in.
4. In the failsafe terminal window, enter the following commands:

```
% gnome-cleanup exit
```

5. Log in again.

Your GNOME preferences are now reset.

GNU Image Manipulation Program Missing From the Graphics Menu (6209566)

The GNU Image Manipulation Program (GIMP) is not available in the Graphics menu.

Workaround: Perform the following steps.

1. Open a terminal window.
2. Edit the `/usr/share/applications/gimp-2.0.desktop` file.
3. Change the Exec and TryExec lines to add the full path to the GIMP binary:

```
TryExec=/usr/sfw/bin/gimp2.0  
Exec=/usr/sfw/bin/gimp-remote-2.0 %u
```

Problems With Online Registration of StarOffice 7 Software (6208829)

You might be unable to complete the online registration of the StarOffice 7 software if the software cannot find Mozilla on the system. The software must be able to locate the Email and Calendar application to successfully send documents.

Workaround: Add `/usr/sfw/bin` to your PATH. Perform the following steps.

1. Open a terminal window.

2. Issue the following command:

```
% export PATH=/usr/sfw/bin:$PATH
```

3. To start the StarOffice software, issue the following command:

```
% soffice
```

4. Complete the StarOffice registration procedure.

Problems With Sound Recorder

The slide bar and the side counter do not work when the Sound Recorder is recording a new .wav file.

Workaround: None.

Volume Control Option Not Working

The option in the Volume Control panel application that enables you to start the Volume Control desktop applications does not work.

Workaround: None.

Outdated List of Allowed Applications for Solaris OS (6267922)

In the Solaris software, you restrict application launching by setting to true the `/desktop/gnome/lockdown/restrict_application_launching` gonf key. This setting allows only certain applications to appear on the Launch menu where you can start these applications. The allowed applications are listed in the `/desktop/gnome/lockdown/allowed_applications` gonf key.

Currently, the list includes applications that are outdated and are no longer included in the Java Desktop System software. Moreover, the list also contains references to certain applications with incorrect directory locations. Consequently, if you restrict application launching, certain key applications such as Mozilla or StarOffice do not appear on the Launch menu.

Workaround: Perform the following steps.

1. Become superuser.
2. Remove the `~/ .gconf/desktop/gnome/lockdown` directory if the directory exists.

```
# rm -rf ~/ .gconf/desktop/gnome/lockdown
```

3. Log out of the system and then log in again.

Problems When Using Keyboard Indicator (6245563)

Using the keyboard indicator might make the keyboard unusable when you switch between X servers.

Workaround: None. Do not use the Keyboard Indicator.

Certain View Options Might Cause File Manager to Fail (6233643)

The File Manager might fail if you use the following View options:

- View as Catalog
- View as Image Collection

Depending on the View options that you use, the following error messages might be displayed:

- Error:

`The application nautilus has quit unexpectedly`

- Error:

`The Catalog view encountered an error while starting up`

- Error:

`The Image Collection view encountered an error while starting up`

Workaround: None. Every time these problems occur, restart File Manager or click the Restart Application button on the crash dialog box.

CD Quality, Lossless Mode Fails at Start of Recording (6227666)

If you use the Sound Recorder multimedia application in CD Quality, Lossless mode, the application fails when recording starts. The following error message is displayed:

`The Application "gnome-sound-recorder" has quit unexpectedly.`

Workaround: Perform the following steps.

1. Become superuser.

2. Issue the following command:

```
# GCONF_CONFIG_SOURCE=xml::/etc/gconf/gconf.xml.defaults
/usr/bin/gconftool-2 --makefile-install-rule
/etc/gconf/schemas/gnome-audio-profiles.schemas
```

In addition, existing users must perform the following steps.

1. If the `gnome-audio-profiles-properties` application is running, stop the application by closing the application window.
2. If the profile `cdlossless` exists in `~/.gconf/system/gstreamer/audio/profiles`, remove the profile.

```
% rm ~/.gconf/system/gstreamer/audio/profiles/cdlossless
```

3. Log out of the system and then log in again.

Cannot Delete Files Outside of Home Directory (6203010, 5105006)

You can only delete files from your own home directory file system.

Workaround: To delete files outside your home directory file system, open a terminal window and use the command line.

Problems Creating Certain Types of Archives (5082008)

You cannot use Archive Manager to create the following types of archives:

- .arj
- .lha
- .bzip
- .lzop
- .zoo

Workaround: None.

System Administration

This section describes system administration bugs in Solaris 10 OS.

iSCSI Target Coredumps When Running JIST Test Suite (6550844)

When running the JIST read/write/compare load test with 10 threads as part of the entrance test for Amber Road, the iscsi target coredumps. This might cause the JIST test to fail with data compare errors. Sometimes the JIST might run successfully, but a new core file is generated.

Workaround: None.

ZFS Administration Window Fails To Launch (6549565)

Type the URL <https://localhost/:6789.2> in a Firefox browser and log in as the root user. When you click the ZFS Administration link, the ZFS Administration window does not start. The following error message is displayed:

```
setSelectionComponentState is not defined
https://localhost:6789/zfs/zfsmodules/Header
openOrClose: TreeFrame is not defined
https://localhost:6789/zfs/zfsmodules/CloseFrame.jsp
```

Workaround: None.

smosservice Command Fails (6545660)

The smosservice command fails after displaying that the file `/usr/snadm/lib/libspmizones.so` does not exist. The following error message is displayed:

```
Failed to load library "libspmizones.so".
ld.so.1: java: fatal: libspmizones.so: open failed:
No such file or directory.
```

Workaround: Create a soft link to `libspmizones.so` and then execute the smosservice command. Use the following command to create the link:

```
ln -s /usr/snadm/lib/libspmizones.so.1 /usr/snadm/lib/libspmizones.so
```

lucreate : zone Feature Does Not Work on Whole Root Zones (6526238)

The `lucreate : zone` feature does not work on whole root zones when a whole root non-global zone in the parent boot environment has a dedicated filesystem. Bits of the dedicated filesystem in the whole root zone will not be copied to the target zone in the alternate boot environment. The following error message is displayed:

```
Creating shared file system mount points.  
Copying root of zone havana-z1>.  
Copying /tests> in zone havana-z1>.  
egrep: syntax error
```

This message essentially means that you have a partially created whole root zone in the newly created boot environment.

Workaround: Copy the bits of the whole root zone's dedicated filesystem manually to the target zone in the alternate boot environment.

Solaris is Unable to Handle Mode Switches Between Legacy and AHCI Modes for the SATA Controller (6520224)

In systems which have an AHCI compliant SATA controller, the BIOS setup typically enables the controller to be set in either AHCI, legacy, or RAID modes. Solaris supports AHCI and legacy modes.

The SATA mode setting in BIOS must not be changed after an initial Solaris installation. The SATA mode setting must also not be changed before or after a Solaris upgrade. If the SATA mode BIOS setting is modified after installing Solaris, the system will reset and fail to boot without indicating what led to the failure.

Workaround: If boot failure is encountered as a result of changing the BIOS setting, revert back to the original setting in order to boot Solaris.

Possible Error With 32-bit Applications Getting File System State on Large File Systems (6468905)

When run on large file systems, for example ZFS, applications using `statvfs(2)` or `statfs(2)` to get information about the state of the file system exhibit an error. The following error message is displayed:

Value too large for defined data type

Workaround: Applications should use `statvfs64()` instead.

Solaris Trusted Extensions Administration Tools Display Incorrect Labels (6478436)

Solaris Trusted Extensions administration tools such as the Solaris Management Console (SMC) and `tninfo` might not display the `ADMIN_LOW` or `ADMIN_HIGH` labels. Instead the administration tools might incorrectly display labels like `PUBLIC` and `CNF : RESTRICTED`.

This incorrect display of labels can result in misconfigured systems. For example, the SMC might incorrectly display `PUBLIC` for a zone when the actual default label is `ADMIN_LOW`. Because of incorrect label display the zone fails to boot.

The error is because the default label view is `EXTERNAL` when it should be `INTERNAL`. This causes `ADMIN_LOW` to be promoted to the minimum user label and `ADMIN_HIGH` to be demoted. As a result, the administration tools incorrectly display the lowest and highest labels defined instead of correctly displaying `ADMIN_LOW` and `ADMIN_HIGH`.

Workaround: Perform the following steps:

1. Install Solaris Trusted Extensions but do not reboot the system.
2. Edit your `label_encodings` file. The default `label_encodings` file is `/etc/security/tsol/label_encodings`. Add the following line in the `LOCAL DEFINITIONS` section:

```
Default Label View is Internal;
```

Using `patchadd` With the `-R` Option To Specify an Alternative Root Path From Systems That Are Not Zones Aware Should Be Restricted (6464969)

On systems running a Solaris release that is not zones aware, using `patchadd -R`, or any command that accepts the `-R` option to specify an alternate root path for a global zone that has non-global zones installed, will not work.

In contrast with the error message that is displayed by using the `luupgrade [-t, -T, -p, -P]` command, no error message regarding the use of appropriate command-level restrictions is displayed in this instance.

There is no indication that the `-R` option did not work. As a result of the failure of the command, Solaris 10 packages or patches are not installed on any of the installed non-global zones.

This problem occurs while installing and uninstalling packages or patches.

Note – The `-R` option works if the alternate boot environment has configured non-global zones, but no installed non-global zones. However, to avoid a potential problem, or if you are not sure whether there are any installed non-global zones used as the alternate root path, restrict the use of the `-R` option in all instances.

For more information, see the following man pages :

- `patchadd(1M)`
- `patchrm(1M)`
- `pkgadd(1M)`
- `pkgrm(1M)`

Workaround 1: Upgrade the OS to at least the Solaris 10 1/06 release.

If you are running the Solaris 10 3/05 release, install the following patches to enable the use of commands that accept the `-R` option to create an alternate root path:

- Patch ID 119254-19 for SPARC based systems
- Patch ID 119255-19 for x86 based systems

Workaround 2: Restrict the use of the `patchadd -R` command or any command that accepts the `-R` option to create an alternate root path.

Instead, boot the alternate root, for example, the Solaris 10 release, as the active OS. Then install and uninstall the Solaris 10 packages and patches without using the `-R` option.

Upgrade to Solaris 10 7/07 HW or Changing Specific Device Configurations Might Break PCI/PCIe Hotplug Administration (6466526)

The `cfgadm` command displays ApIds that might be incorrect or inconsistent with the format that is specified in the `cfgadm_pci(1M)` man page. This inconsistency occurs under the following circumstances:

- Upgrading to the Solaris 10 7/07 HW release
- Swapping hardware of PCI or PCI Express (PCIe) attachment points at the same physical location. For example, replacing an expansion chassis at the same location.

No specific error message is displayed. However, the `cfgadm` command might display one of the following:

- An incorrectly formatted ApId which might work

- A correctly formatted ApId which might not work

If the ApId does not work, then the `cfgadm` command will display a corresponding error message.

Workaround: Remove all PCI and PCIe links under the `/dev/cfg` directory and then run the command, `devfsadm -C`. The PCI and PCIe links are displayed as ApIds in:

```
cfgadm -s "select=class(pci)"
```

smoservice or smdiskless Is Broken Due to wbem Issues (6378956)

The `smoservice` or `smdiskless` command might not work because of a dependency on JDK™ 1.5 release.

The following error message is displayed:

```
/usr/sadm/bin/smoservice list -u <user> -p <password> Exception in thread "main"
java.lang.UnsupportedClassVersionError:
com/sun/management/viperimpl/console/BaseConsoleOptionsManager
(Unsupported major.minor version 49.0)
at java.lang.ClassLoader.defineClass0(Native Method)
    at java.lang.ClassLoader.defineClass(ClassLoader.java:539)
    at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:123)
    at java.net.URLClassLoader.defineClass(URLClassLoader.java:251)
    at java.net.URLClassLoader.access$100(URLClassLoader.java:55)
    at java.net.URLClassLoader$1.run(URLClassLoader.java:194)
    at java.security.AccessController.doPrivileged(Native Method)
    at java.net.URLClassLoader.findClass(URLClassLoader.java:187)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:289)
    at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:274)
    at java.lang.ClassLoader.loadClass(ClassLoader.java:235)
    at java.lang.ClassLoader.loadClassInternal(ClassLoader.java:302)
```

Workaround:

Set the `JAVA_HOME` variable to point to a JDK 1.5 installation.

```
# JAVA_HOME=/usr/java
```

Sun Patch Manager Tool 2.0 Not Compatible With Previous Versions

A system that runs the Sun Patch Manager Tool 2.0 can manage remote systems that run Patch Manager Tool, including Sun Patch Manager Tool 1.0.

However, a system with an earlier version of Patch Manager Tool cannot manage remote systems that run Patch Manager Tool 2.0. Earlier versions include the following:

- Sun Patch Manager Base Software 1.x
- Sun Patch Manager Tool 1.0

Note – Common Information Model/Web Based Enterprise Management (CIM/WBEM) support for Patch Manager Tool does not exist in the Solaris 8 OS. Consequently, remote management with Patch Manager does not apply to Solaris 8 systems.

Sun Remote Services Net Connect Supported Only in the Global Zone

Sun Remote Services (SRS) Net Connect is supported only in the global zone. Error messages are displayed if you perform one of the following actions:

- You install SRS Net Connect in a local zone.
- SRS Net Connect is installed in the global zone at the time a local zone is created.

The error messages are as follows:

```
*** package SUNWcstu failed to install -  
interactive administration required:
```

```
Interactive request script supplied by package  
pkgadd: ERROR: request script did not complete successfully
```

```
Installation of SUNWcstu was suspended (interaction required).  
No changes were made to the system.
```

```
*** package SUNWfrunc failed to install -  
interactive administration required:
```

```
Interactive request script supplied by package  
pkgadd: ERROR: request script did not complete successfully
```

```
Installation of SUNWfrunc was suspended (interaction required).  
No changes were made to the system.
```

Workaround: Ignore the error messages.

Error or Warning Messages Might Be Displayed While Installing Non-global Zones With the `zoneadm` Command

While installing a non-global zone by using the `zoneadm` command, error or warning messages might be displayed during package installation. The messages are similar to the following example:

```
Preparing to install zone zone1.
Creating list of files to copy from the global zone.
Copying 2348 files to the zone.
Initializing zone product registry.
Determining zone package initialization order.
Preparing to initialize 790 packages on the zone.
Initialized 790 packages on zone.
Zone zone1 is initialized.
```

```
Installation of the following packages generated errors:
SUNWjhrt SUNWmcc SUNWjhdev SUNWnsb SUNWmcon SUNWmpatchmgr
```

```
Installation of the following packages generated warnings:
SUNWj3rt SUNWmc SUNWwbmc SUNWmga SUNWdclnt SUNWlvma SUNWlvmg
SUNWrmui SUNWdoc SUNWpl5m SUNWpmgr
```

Problems about package installation are also recorded in `/export/zone1/root/var/sadm/system/logs/install_log` which contains a log of the zone installation.

Workaround: None.

Note – The non-global zone can still be used even though these messages have been reported. Issues with package installation existed in earlier Solaris Express and Solaris 10 Beta releases. However, no notification about these problems was being generated. Beginning with this Solaris release, these errors are now properly reported and logged.

SPARC: Error Messages Displayed During Dynamic Reconfiguration (6312424)

During dynamic reconfiguration (DR), error messages might be displayed. The messages are displayed if you perform DR while input and output operations are active on devices that are in

the DR path. After the messages are displayed, the input and output operations are retried and eventually succeed. The following is a sample that is displayed:

```
Jul 28 12:23:19 qame10-a scsi: [ID 107833 kern.warning] WARNING:
/ssm@0,0/pci@19,700000/SUNW,qlc@2,1/fp@0,0/ssd@w2100000c5056fa13,0 (ssd6):
Jul 28 12:23:19 qame10-a      transport rejected fatal error
Jul 28 12:22:08 qame10-a scsi: [ID 107833 kern.warning] WARNING:
/ssm@0,0/pci@19,700000/SUNW,qlc@2,1/fp@0,0/ssd@w2100000c5056f9a7,0 (ssd36):
Jul 28 12:22:08 qame10-a      SCSI transport failed: reason 'timeout':
retrying command
```

Workaround: None. Ignore the error messages.

Error Messages Displayed by pkgchk After You Remove Patches for Zones (6267966)

The patchadd and patchrm commands work improperly in non-global zones with inherited file systems. Consequently, in those zones, the pkgchk command might generate error messages about packages under the following circumstances:

1. In the global zone, you apply patches for the Solaris 10 zone system by using the patchadd command.
2. You use the patchrm command to remove patches that you just recently applied.
3. In a non-global zone with inherited file systems, you check with the pkgchk command for information about a package in any of the removed patches.

The following sample message is displayed when the pkgchk command is used on SUNWcsu under the circumstances previously listed.

```
# pkgchk SUNWcsu
ERROR: /usr/lib/inet/certdb
    modtime <04/26/05 10:55:26 PM> expected <01/23/05 01:48:24 AM> actual
    file size <36012> expected <42152> actual
    file cksum <37098> expected <19747> actual
ERROR: /usr/lib/inet/certlocal
    modtime <04/26/05 10:55:26 PM> expected <01/23/05 01:48:24 AM> actual
    file size <44348> expected <84636> actual
```

Workaround: None. The errors are harmless. Ignore the error messages.

Race Condition Between EF/kcfd and IPsec Algorithm Availability (6266083)

Systems with the Solaris 10 3/05 HW1 release might cause problems with IPsec. This problem might occur on a freshly installed system or a system that imports a large number of new Service Management Facility (SMF) manifests during the boot. After these booting conditions, IPsec, which is part of `svc:/network/initial:default`, might be initialized prior to the encryption framework, which is part of `svc:/system/cryptosvc:default`. Because authentication or encryption algorithms are not available, creation of IPsec security associations might fail with an error message such as the following:

```
PF_KEY error: type=ADD, errno=22:
Invalid argument, diagnostic code=40:
Unsupported authentication algorithm
```

For example, this error might occur when using DR on a Sun Fire E25K system, which involves IPsec services.

Workaround: Before performing operations that use IPsec services, perform the following steps after a boot that imports a large number of new SMF manifests:

1. Issue this command after booting:

```
ipsecalgs -s
```

2. If `/etc/inet/secret/ipseckeys` exists on the system, also issue this command:

```
ipseckey -f /etc/inet/secret/ipseckeys
```

Now you can perform actions that create IPsec security associations, such as using DR on a Sun Fire E25K system.

This procedure needs to be repeated only when a large number of new SMF manifests are imported during the boot.

Solaris Product Registry Administration Utility Fails to Launch in a Zone (6220284)

If you attempt to launch the Solaris Product Registry administration utility in a zone, the attempt fails. During the zone installation, `productregistry`, the Solaris Product Registry database, is not duplicated in the zone. Consequently, the utility cannot run in a zone.

Workaround: As superuser, copy the `productregistry` database to the zone.

```
# cp /var/sadm/install/productregistry zone_path/var/sadm/install/
```

In the previous command, *zone_path* is the path to the root directory of the zone that you created.

Cannot Delete Existing Diskless Clients From the System (6205746)

If you use the `smdiskless` command to delete a diskless client, the command fails. The diskless client is not removed from the system databases. The following error message is displayed:

```
Failing with error EXM_BMS.
```

Workaround: Unshare the `/export` partition before adding the client.

Net Connect 3.1.1 Installation Fails (6197548)

Installation of Net Connect 3.1.1 fails if you select the product at the beginning of a full Solaris 10 installation. This failure occurs when you are installing by using the Solaris 10 Operating System DVD. At the completion of the OS installation, the following error message is recorded in the Net Connect install log in `/var/sadm/install/logs/`:

```
Installation of SUNWSRSPX failed.  
Error: pkgadd failed for SUNWsrspx  
Install complete. Package: SUNWsrspx
```

Workaround: After the OS installation is completed, follow these steps:

1. Insert the Solaris 10 Operating System DVD or the Solaris 10 Software - CD 4.
2. Change to the directory of the Net Connect product.
3. Run the Net Connect installer.

Note – To download the latest version of the Sun Net Connect software and release notes, go to the Sun Net Connect portal at <https://srsnetconnect.sun.com>.

SPARC: smoservice delete Command Does Not Successfully Remove All Directories (6192105)

If you use the `smoservice delete` command to remove a diskless client service, the command does not successfully remove all the service directories.

Workaround: Follow these steps.

1. Make sure that no clients exist that use the service.

```
# unshare /export/exec/Solaris_10_sparc.all
# rm -rf /export/exec/Solaris_10_sparc.all
# rm -rf /export/exec/.copyofSolaris_10_sparc.all
# rm -rf /export/.copyofSolaris_10
# rm -rf /export/Solaris_10
# rm -rf /export/share
# rm -rf /export/root/templates/Solaris_10
# rm -rf /export/root/clone/Solaris_10
# rm -rf /tftpboot/inetboot.sun4u.Solaris_10
```

2. Remove the following entry from the `/etc/bootparams` file.

```
fs1-24 boottype=:os
```

Note – Remove this entry only if this file server does not provide functions or resources for any other services.

3. Remove the following entry from the `/etc/dfs/dfstab` file.

```
share -F nfs -o ro /export/exec/Solaris_8_sparc.all/usr
```

4. Modify the `/var/sadm/system/admin/services/Solaris_10` file.

- If the file server is not Solaris_10, delete the file.
- If the file server is Solaris_10, remove all entries after the first three lines. The deleted lines indicate the service `USR_PATH` and `SPOOLED ROOT` packages in `/export/root/templates/Solaris_10` and the supported platforms.

patchadd **Command Does Not Support Installing Patches From an NFS Server (6188748)**

If you use the `patchadd` command to install patches across the NFS from another system, the command fails. The following example shows a `patchadd` operation that failed and the error message that is displayed:

```
Validating patches...
```

```
Loading patches installed on the system...
```

```
[...]
```

```
Loading patches requested to install.
```

```
[...]
```

```
Checking patches that you specified for installation.
```

```
[...]
```

```
Approved patches will be installed in this order:
```

```
[...]
```

```
Checking local zones...
[...]
Summary for zones:
[...]
Patches that passed the dependency check:
[...]

Patching global zone
Adding patches...

Checking installed patches...
Verifying sufficient filesystem capacity (dry run method)...
Installing patch packages...

Patch Patch_ID has been successfully installed.
See /var/sadm/patch/Patch_ID/log for details
Patch packages installed:
  SUNWroute
[...]

Adding patches...
The patch directory
  /dev/.SUNW_patches_0111105334-1230284-00004de14dcb29c7
cannot be found on this system.

[...]

Patchadd is terminating.
```

Workaround: Manually copy all of the patches to be installed from the NFS server to the local system first. Then use the `patchadd` command to install the patches from the directory on the local system where the patches were copied.

lucreate **Command Does Not Create RAID-1 Volumes (5106987)**

If you use the `lucreate` command to create RAID-1 volumes (mirrors) that do not have device entries in the `/dev/md` directory, the command fails. You cannot mirror file systems with the `lucreate` command unless you first create the mirrors with Solaris Volume Manager software.

Workaround: Create the mirrored file systems with Solaris Volume Manager software, then create the new boot environment with the `lucreate` command.

For more information about the `lucreate` command, see the `lucreate(1M)` or *Solaris 10 11/06 Installation Guide: Solaris Live Upgrade and Upgrade Planning*.

For more information about how to create mirrored file systems with Solaris Volume Manager software, see *Solaris Volume Manager Administration Guide*.

SPARC: Stopping the System by Using Keyboard Sequences Might Cause a System Panic (5061679)

If you attempt to stop the system by pressing keyboard sequences such as Stop-A or L1-A, the system might panic. An error message similar to the following example is displayed:

```
panic[cpu2]/thread=2a100337d40: pcisch2 (pci@9,700000):  
consistent dma sync timeout
```

Workaround: Do not use keyboard sequences to force the system to enter OpenBoot PROM.

Using the `ipfs` Command With `-W` Option Fails (5040248)

The `ipfs` command saves and restores information about the state of the Network Address Translation (NAT) and packet-filtering state tables. This utility prevents network connections from being disrupted if the system reboots. If you issue the command with the `-W` option, `ipfs` fails to save the kernel state tables. The following error message is displayed:

```
state:SIOCSTGET: Bad address
```

Workaround: None.

`kill -HUP` Does Not Always Cause the Agent to Reread the `snmpd.conf` Configuration File (4988483)

After modifying the contents of `snmpd.conf`, you can issue the command `kill -HUP snmp Process ID`. This command stops the `snmp` process. The command then sends a signal to the System Management Agent's master agent (`snmpd`) to reread `snmpd.conf` and implement the modifications that you introduced. The command might not always cause the master agent to reread the configuration file. Consequently, using the command might not always activate modifications in the configuration file.

Instead of using `kill -HUP`, restart the System Management Agent after adding modifications to `snmpd.conf`. Perform the following steps:

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

```
# /etc/init.d/init.sma restart
```

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.wbem.provider` 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
```

Note – 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 Common Information Model (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:

Method Invocation	Error Message
<code>CIMClient.close()</code>	<code>NullPointerException</code>

Method Invocation	Error Message
<code>CIMClient.execQuery()</code>	<code>CIM_ERR_QUERY_LANGUAGE_NOT_SUPPORTED</code>
<code>CIMClient.getInstance()</code>	<code>CIM_ERR_FAILED</code>
<code>CIMClient.invokeMethod()</code>	<code>XMLERROR: ClassCastException</code>

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.

```
# 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 `-o 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.

System-Specific Issues

This chapter describes issues specific to Sun midrange and high-end servers. Current Sun servers are part of the Sun Fire system family. Older servers are part of the Sun Enterprise system family.

Note – The Sun Validation Test Suite release notes are now a separate document and can be found at <http://sun.com>.

Note – Some of the issues and bugs in this chapter have been fixed in subsequent Solaris 10 releases. If you have upgraded your Solaris software, certain issues and bugs in this chapter might no longer apply. To see which bugs and issues no longer apply to your specific Solaris 10 software, refer to [Appendix A](#).

Dynamic Reconfiguration on Sun Fire High-End Systems

This section describes major domain-side DR bugs on the following Sun Fire high-end systems that run the Solaris 10 software:

- Sun Fire 25K
- Sun Fire 20K
- Sun Fire 15K
- Sun Fire 12K

For information about DR bugs on Sun Management Services, see the *SMS Release Notes* for the SMS version that is running on your system.

Known Software and Hardware Bugs

The following software and hardware bugs apply to Sun Fire high-end systems.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the `/rplboot` directory.
2. Shut down NFS services.

```
# sh /etc/init.d/nfs.server stop
```

3. Shut down Boot Server services.

```
# sh /etc/init.d/boot.server stop
```

4. Perform the DR detach operation.
5. Restart NFS services.

```
# sh /etc/init.d/nfs.server start
```

6. Restart Boot Server services.

```
# sh /etc/init.d/boot.server start
```

Deleteboard Shows Leakage Error (4730142)

Warnings might be displayed when a DR command is executing on a system that is configured with the SunSwift PCI card, Option 1032. These warnings appear on domains that are running either the Solaris 8, Solaris 9, or Solaris 10 software. The following warning is an example:

```
Aug 12 12:27:41 machine genunix: WARNING:  
vmem_destroy('pcisch2_dvma'): leaked
```

These warnings are benign. The Direct Virtual Memory Access (DVMA) space is properly refreshed during the DR operation. No true kernel memory leak occurs.

Workaround: To prevent the warning from being displayed, add the following line to `/etc/system`:

```
set pcisch:pci_preserve_iommu_tsb=0
```

GigaSwift Ethernet MMF Link Fails With CISCO 4003 Switch After DR Attach

The link fails between a system with a Sun GigaSwift Ethernet MMF Option X1151A and certain CISCO switches. The failure occurs when you attempt to run a DR operation on such a system that is attached to one of the following switches:

- CISCO WS-c4003 switch (f/w: WS-C4003 Software, Version NmpSW: 4.4(1))
- CISCO WS-c4003 switch (f/w: WS-C4003 Software, Version NmpSW: 7.1(2))
- CISCO WS-c5500 switch (f/w: WS-C5500 Software, Version McpSW: 4.2(1) and NmpSW: 4.2(1))

This problem is not seen on a CISCO 6509 switch.

Workaround: Use another switch. Alternatively, you can consult Cisco for a patch for the listed switches.

Dynamic Reconfiguration on Sun Fire Midrange Systems

This section describes major issues that are related to DR on the following Sun Fire midrange systems:

- Sun Fire E6900
- Sun Fire E4900
- Sun Fire E6800
- Sun Fire E4810
- Sun Fire E4800
- Sun Fire E3800

Minimum System Controller Firmware

Table 4–1 shows acceptable combinations of Solaris software and System Controller (SC) firmware for each Sun Fire midrange system to run DR.

Note – To best utilize the latest firmware features and bug fixes, run the most recent SC firmware on your Sun Fire midrange system. For the latest patch information, see <http://sunsolve.sun.com>.

TABLE 4-1 Minimum SC Firmware for Each Platform and Solaris Release

Platform	Solaris Release	Minimum SC Firmware
Sun Fire E6900/E4900 with UltraSPARC IV+	Solaris 10 3/05 HW1 (a limited release) or Solaris 10 1/06	5.19.0
E6900/E4900 without UltraSPARC IV+	Solaris 9 4/04	5.16.0
Sun Fire 6800/4810/4800/3800	Solaris 9 4/04	5.16.0
Sun Fire 6800/4810/4800/3800	Solaris 9	5.13.0

You can upgrade the system firmware for your Sun Fire midrange system by connecting to an FTP or HTTP server where the firmware images are stored. For more information, refer to the README and Install.info files. These files are included in the firmware releases that are running on your domains. You can download Sun patches from <http://sunsolve.sun.com>.

Known DR Software Bugs

This section lists important DR bugs.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the /rplboot directory.
2. Shut down NFS services.

```
# sh /etc/init.d/nfs.server stop
```

3. Shut down Boot Server services.

```
# sh /etc/init.d/boot.server stop
```

4. Perform the DR detach operation.
5. Restart NFS services.

```
# sh /etc/init.d/nfs.server start
```

6. Restart Boot Server services.

```
# sh /etc/init.d/boot.server start
```

Cannot Unconfigure cPCI Board With a Disabled Port 0 (4798990)

On Sun Fire midrange systems, a CompactPCI (cPCI) I/O board cannot be unconfigured when Port 0 (P0) on that board is disabled. This problem exists in Solaris 10 and Solaris 9 software. It also exists in Solaris 8 software that has one or more of the following patches installed:

- Patch ID 108528–11 through 108528–29
- Patch ID 111372–02 through 111372–04

The error also occurs only during DR operations that involve cPCI boards. An error message similar to the following example is displayed:

```
# cfgadm -c unconfigure N0.IB7
cfgadm: Hardware specific failure: unconfigure N0.IB7: Device
busy:/ssm@0,0/pci@1b,700000/pci@1
```

N0.IB7 is a CompactPCI I/O Board with P0 disabled.

Workaround: Disable the slots instead of Port 0.

Sun Enterprise 10000 Release Notes

This section describes issues that involve the following features on the Sun Enterprise 10000 server:

- System Service Processor requirement
- Dynamic reconfiguration (DR)
- InterDomain Networks (IDNs)
- Solaris Operating System on Sun Enterprise 10000 domains

Note – The Solaris 10 software can be run on individual domains within a Sun Enterprise 10000 system. However, the Sun Enterprise 10000 System Service Processor is not supported by this release.

System Service Processor Requirement

The SSP 3.5 software is required on your System Service Processor (SSP) to support the Solaris 10 software. Install the SSP 3.5 on your SSP first. Then you can install or upgrade to the Solaris 10 OS on a Sun Enterprise 10000 domain.

The SSP 3.5 software is also required so that the domain can be properly configured for DR Model 3.0.

Dynamic Reconfiguration Issues

This section describes different issues that involve dynamic reconfiguration on Sun Enterprise 10000 domains.

DR Model 3.0

You must use DR 3.0 on Sun Enterprise 10000 domains that run the Solaris OS beginning with the Solaris 9 12/03 release. DR model 3.0 refers to the functionality that uses the following commands on the SSP to perform domain DR operations:

- `addboard`
- `moveboard`
- `deleteboard`
- `showdevices`
- `rcfgadm`

You can run the `cfgadm` command on domains to obtain board status information. DR model 3.0 also interfaces with the Reconfiguration Coordination Manager (RCM) to coordinate the DR operations with other applications that are running on a domain.

For details about DR model 3.0, refer to the *Sun Enterprise 10000 Dynamic Reconfiguration User Guide*.

DR and Bound User Processes

For this Solaris release, DR no longer automatically unbinds user processes from CPUs that are being detached. You must perform this operation before initiating a detach sequence. The drain operation fails if CPUs are found with bound processes.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the `/rplboot` directory.
2. Shut down NFS services.

```
# sh /etc/init.d/nfs.server stop
```

3. Shut down Boot Server services.

```
# sh /etc/init.d/boot.server stop
```

4. Perform the DR detach operation.

- Restart NFS services.

```
# sh /etc/init.d/nfs.server start
```

- Restart Boot Server services.

```
# sh /etc/init.d/boot.server start
```

Enabling DR 3.0 Requires an Extra Step in Certain Situations (4507010)

The SSP 3.5 software is required for a domain to be properly configured for DR 3.0. After upgrading your SSP to SSP 3.5, when DR 3.0 is enabled on the domain, run the following command:

```
# devfsadm -i ngdr
```

InterDomain Networks

For a domain to become part of an InterDomain Network, all boards with active memory in that domain must have at least one active CPU.

OpenBoot PROM Variables

Before you issue the boot net command from the OpenBoot PROM prompt (OK), verify that the local-mac-address? variable is set to false. This setting is the factory default setting. If the variable is set to true, you must ensure that this value is an appropriate local configuration.



Caution – A local-mac-address? that is set to true might prevent the domain from successfully booting over the network.

In a netcon window, you can use the following command at the OpenBoot PROM prompt to display the values of the OpenBoot PROM variables:

```
OK printenv
```

To reset the local-mac-address? variable to the default setting, use the setenv command:

```
OK setenv local-mac-address? false
```

Dynamic Reconfiguration on Sun Enterprise Midrange Systems

This section contains the latest information about dynamic reconfiguration (DR) functionality for the following midrange servers that are running the Solaris 10 software:

- Sun Enterprise 6x00
- Sun Enterprise 5x00
- Sun Enterprise 4x00
- Sun Enterprise 3x00

For more information about Sun Enterprise Server Dynamic Reconfiguration, refer to the *Dynamic Reconfiguration User's Guide for Sun Enterprise 3x00/4x00/5x00/6x00 Systems*. The Solaris 10 release includes support for all CPU/memory boards and most I/O boards in the systems that are mentioned in the preceding list.

Supported Hardware

Before proceeding, make sure that the system supports dynamic reconfiguration. If your system is of an older design, the following message appears on your console or in your console logs. Such a system is not suitable for dynamic reconfiguration.

```
Hot Plug not supported in this system
```

The following I/O boards are not currently supported:

- Type 2 (graphics)
- Type 3 (PCI)
- Type 5 (graphics and SOC+)

Software Notes

This section provides general software information about DR.

Enabling Dynamic Reconfiguration

To enable dynamic reconfiguration, you must set two variables in the `/etc/system` file. You must also set an additional variable to enable the removal of CPU/memory boards. Perform the following steps:

1. Log in as superuser.
2. Edit the `/etc/system` file by adding the following lines:

```
set pln:pln_enable_detach_suspend=1
set soc:soc_enable_detach_suspend=1
```


3. To enable the removal of a CPU/memory board, add this line to the file:

```
set kernel_cage_enable=1
```

Setting this variable enables the memory unconfiguration operation.

4. Reboot the system to apply the changes.

Quiesce Test

You start the quiesce test with the following command:

```
# cfgadm -x quiesce-test sysctrl0:slot number
```

On a large system, the quiesce test might run for up to a minute. During this time no messages are displayed if `cfgadm` does not find incompatible drivers.

Disabled Board List

Attempting to connect a board that is on the disabled board list might produce an error message:

```
# cfgadm -c connect sysctrl0:slotnumber
```

```
cfgadm: Hardware specific failure: connect failed:
board is disabled: must override with [-f][-o enable-at-boot]
```

To override the disabled condition, two options are available:

- Using the force flag (`-f`)

```
# cfgadm -f -c connect sysctrl0:slot number
```

- Using the enable option (`-o enable-at-boot`)

```
# cfgadm -o enable-at-boot -c connect sysctrl0:slot
number
```

To remove all boards from the disabled board list, choose one of two options depending on the prompt from which you issue the command:

- From the superuser prompt, type:

```
# eeprom disabled-board-list=
```

- From the OpenBoot PROM prompt, type:

```
OK set-default disabled-board-list
```

For further information about the `disabled-board-list` setting, refer to the “Specific NVRAM Variables” section in the *Platform Notes: Sun Enterprise 3x00, 4x00, 5x00, and 6x00 Systems* manual. This manual is part of the documentation set in this release.

Disabled Memory List

Information about the OpenBoot PROM `disabled-memory-list` setting is published in this release. See “Specific NVRAM Variables” in the *Platform Notes: Sun Enterprise 3x00, 4x00, 5x00, and 6x00 Systems* in the Solaris on Sun Hardware documentation.

Unloading Detach-Unsafe Drivers

If you need to unload detach-unsafe drivers, use the `modinfo` line command to find the module IDs of the drivers. You can then use the module IDs in the `modunload` command to unload detach-unsafe drivers.

Self-Test Failure During a Connect Sequence

Remove the board from the system as soon as possible if the following error message is displayed during a DR connect sequence:

```
cfgadm: Hardware specific failure: connect failed: firmware operation error
```

The board has failed self-test, and removing the board avoids possible reconfiguration errors that can occur during the next reboot.

The failed self-test status does not allow further operations. Therefore, if you want to retry the failed operation immediately, you must first remove and then reinsert the board.

Known Bugs

The following list is subject to change at any time.

Network Device Removal Fails When a Program Is Holding the Device Open (5054195)

If a process is holding open a network device, any DR operation that would involve that device fails. Daemons and processes that hold reference counts stop DR operations from completing.

Workaround: As superuser, perform the following steps:

1. Remove or rename the `/rplboot` directory.

2. Shut down NFS services.

```
# sh /etc/init.d/nfs.server stop
```

3. Shut down Boot Server services.

```
# sh /etc/init.d/boot.server stop
```

4. Perform the DR detach operation.

5. Restart NFS services.

```
# sh /etc/init.d/nfs.server start
```

6. Restart Boot Server services.

```
# sh /etc/init.d/boot.server start
```

Memory Interleaving Set Incorrectly After a Fatal Reset (4156075)

Memory interleaving is left in an incorrect state when a Sun Enterprise5 x500 server is rebooted after a fatal reset. Subsequent DR operations fail. The problem only occurs on systems with memory interleaving set to min.

Workaround: Choose one of the following options:

- To clear the problem, manually reset the system at the OK prompt.
- To avoid the problem, set the NVRAM memory-interleave property to max.

The second option causes memory to be interleaved whenever the system is booted. However, this option might be unacceptable because a memory board that contains interleaved memory cannot be dynamically unconfigured. See [“Cannot Unconfigure a CPU/Memory Board That Has Interleaved Memory \(4210234\)”](#) on page 115.

Cannot Unconfigure a CPU/Memory Board That Has Interleaved Memory (4210234)

To unconfigure and subsequently disconnect a CPU board with memory or a memory-only board, first unconfigure the memory. However, if the memory on the board is interleaved with memory on other boards, the memory cannot currently be unconfigured dynamically.

Memory interleaving can be displayed by using the `prtdiag` or the `cfgadm` commands.

Workaround: Shut down the system before servicing the board, then reboot afterward. To permit future DR operations on the CPU/memory board, set the NVRAM memory-interleave property to min. See also [“Memory Interleaving Set Incorrectly After a Fatal Reset \(4156075\)”](#) on page 115 for a related discussion about interleaved memory.

Cannot Unconfigure a CPU/Memory Board That Has Permanent Memory (4210280)

To unconfigure and subsequently disconnect a CPU board with memory or a memory-only board, first unconfigure the memory. However, some memory cannot currently be relocated. This memory is considered permanent.

Permanent memory on a board is marked “permanent” in the `cfgadm` status display:

```
# cfgadm -s cols=ap_id:type:info
Ap_Id Type Information
ac0:bank0 memory slot3 64Mb base 0x0 permanent
ac0:bank1 memory slot3 empty
ac1:bank0 memory slot5 empty
ac1:bank1 memory slot5 64Mb base 0x40000000
```

In this example, the board in slot3 has permanent memory and so cannot be removed.

Workaround: Shut down the system before servicing the board, then reboot afterward.

cfgadm Disconnect Fails When Running Concurrent cfgadm Commands (4220105)

If a `cfgadm` process is running on one board, an attempt to simultaneously disconnect a second board fails. The following error message is displayed:

```
cfgadm: Hardware specific failure:
disconnect failed: nexus error during detach: address
```

Workaround: Run only one `cfgadm` operation at a time. Allow a `cfgadm` operation that is running on one board to finish before you start a `cfgadm` disconnect operation on a second board.

End-of-Software Support Statements

This chapter lists end-of-software support statements.

Note – The Solaris 10 OS media kit contains not only the Solaris 10 OS software, but also an extensive set of bonus software. The information provided on <http://www.sun.com/service/serviceplans/solaris/10/> lists the components of the Solaris 10 OS media kit. It also shows the support provided for these components under the SunSpectrum program and Sun Software Support contracts.

Features That Might Be Removed in a Future Release

The following features might not be supported in a future release of the Solaris software.

Gnopernicus

Gnopernicus, the Java DS Screen Reader might not be available in a future Solaris release. Users should use the Orca Screen Reader instead.

Xsun Server

The Xsun server for the X Window System might not be available in a future Solaris release. Users should migrate to the Xorg server.

Features such as Display Postscript (DPS) and X Image Extension (XIE) that are available in Xsun but not in Xorg might no longer be included.

Mobile IP

Mobile IPv4, the feature described in the `mipagent(1M)` man page, might not be included in a future Solaris release.

Common Desktop Environment

The Common Desktop Environment (CDE) might not be available in a future Solaris release. Users should migrate to the Java Desktop System.

CDE Image Viewer

CDE's Image Viewer `sdtimage` might not be available in a future Solaris release. Users should migrate to GNOME Open `gnome-open`, to open image files.

Sun Java System Calendar Server Client Applet

The Sun Java System Calendar Server client applet, `NowApplet`, might not be available in a future Solaris release.

DARPA Trivial Name Server

The DARPA trivial name server, `in.tnamed(1M)`, might not be available in a future Solaris release. The Internet domain name server `named(1M)` provides similar functionality.

I2O Intelligent I/O

The I2O intelligent I/O driver framework and all corresponding drivers might not be supported in a future Solaris release. This includes the `i2o_bs(7D)`, and `i2o_scsi(7D)` drivers and all I2O related functionality.

GNOME Viewer for PDF and PostScript Files

The GNOME viewer for PDF and PostScript™ files, might not be available in a future Solaris release. A replacement application is expected to enable viewing of PDF and PostScript files.

The Graphical Smartcard Admin Interface

The graphical Smartcard admin interface `sdtsmartcardadmin(1M)` may not be available in future Solaris releases. The same functionality is available in the `smartcard(1M)` command.

iButton Smartcard

The Dallas Semiconductor iButton Java Card Smartcard and OpenCard Framework (OCF) terminal driver, as described in `ocf_ibutton(7d)` might not be supported in future Solaris releases. Users should migrate to other Smartcard devices that are supported by `libpcscLite(3lib)`.

Cyberflex Smartcard

The Cyberflex Smartcard might not be supported by the `pam_smartcard(5)` and `smartcard(1m)` commands in future Solaris releases. Users should migrate to other Smartcard devices and cards that are supported by `libpcscLite(3lib)`.

PAM Smartcard

The PAM Smartcard module `pam_smartcard(5)` might not be available in future Solaris releases.

OCF/SCF Smartcard Framework

The OCF/SCF Smartcard framework may not be available in a future Solaris releases. The functionality of `ocfserv(1M)` will be provided by `pcscd(1M)`. The card provisioning functionality of `smartcard(1M)` will be provided by `muscletool(1M)`. The driver configuration functionality provided by `smartcard(1M)` is generally not necessary with `pcscd(1M)`, however, when required system administrators can edit the `reader.conf(4)` file.

SCF Smartcard APIs

The SmartCard Framework (SCF) interfaces exported by `libsmartcard` and `smartcard.jar` may not be available in future Solaris releases. These interfaces are now obsolete. New C applications should be written to use the PS/SC interfaces exported from `libpcscLite(3lib)`. There is no planned replacement for the SCF Java interfaces at this time.

Remote Program Load Server Funtionality

The Remote Program Load (RPL) server functionality available through `rpld(1M)` and `rpld.conf(4)` may not be available in a future release of Solaris.

Transition From `ipge` to `e1000g` NIC Driver as the Default Ethernet Driver for Sun4V Systems

The `ipge` driver and all its `SUNWipge` packages for Sun4V systems might not be available with a future release of Solaris. Starting with the Solaris 10 7/07 HW release, Ontario and other SPARC based platforms transition from `ipge` to `e1000g` drivers. The `e1000g` driver will be the default Ethernet driver for all Sun platforms that use Intel 1G chipsets.

Solstice Enterprise Agents Support

The following Solstice Enterprise Agents™ (SEA) agents, libraries, and packages might not be supported in a future Solaris release:

- SEA-based SNMP master agent and sub agents
- `libssagent` and `libssasnmp` libraries
- `SUNWsacom`, `SUNWsasnm`, `SUNWmibii` packages

The System Management Agent (SMA) provides similar functionality for the aforementioned sources.

Mozilla 1.X Support

The Mozilla™ 1.X software might not be supported in a future Solaris release. Equivalent software is expected to be available in a future release.

Standard Type Services Framework Support

Standard Type Service Framework (STSF) might not be available in a future Solaris release.

This includes the following:

- `libST` and `libXst` libraries
- `xstls` command
- `stfsloader` service
- XST extension to Xsun and Xorg servers

You can find this functionality in one of the following alternative sources:

- `libX11`
- `libXft2`

SPARC: jfca Driver Support

The JNI Fibre Channel Adapter (jfca) driver might not be available in a future Solaris release.

For more information, see the `jfca(7D)` man page.

zic -s Option Support

The `-s` option in the `zic` command might not be available in a future Solaris release.

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

Removable Volume Management Support

The volume management daemon (`vold`), volume management file system (`volfs`), and the associated volume management commands might not be included in a future Solaris release.

Automatic mounting and unmounting of removable media will continue to be supported.

For more information, see the `vold(1M)` and `volfs(7FS)` man pages.

64-bit SPARC: Dual Basic Rate ISDN Interface and Multimedia Codec Chips

T5900FC Dual Basic Rate ISDN Interface (DBRI) and associated multimedia codec chips might not be supported in a future Solaris release. In addition, device drivers written for these devices might not be supported.

SPARC: Certain Drivers Might Not be Supported in a Future Solaris Release

The following drivers might not be supported in a future Solaris release:

- `SUNWrtvc`: Device driver for the SunVideo™ real-time video capture and compression card
- `SUNWdial`: Streams module for the Dials and Buttons devices
- `SUNWdialh`: Header files for the Dials and Buttons devices

Automated Security Enhancement Tool Support

The checksum functionality provided by Automated Security Enhancement Tool (ASET) in the `/usr/aset` directory might not be available in a future Solaris release.

You can find this functionality in one of the following alternative sources:

- The basic audit reporting tool, `bart`, in Solaris 10 OS
- The Solaris Security Toolkit found at <http://www.sun.com/software/security/jass/>
- The Solaris Fingerprint Database found at <http://sunsolve.sun.com/pub-cgi/show.pl?target=content/content7>

Asian Short `dtlogin` Names

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

- `zh`
- `ko`
- `zh_TW`

Beginning with Solaris 8 release, new ISO-standard locale names have been provided, including the following locale names:

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

Audit Daemon Interfaces

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

- `auditsvc(2)`
- `audit_data(4)`

Cfront Runtime Support Library

The library `libc.so.3` is the runtime support library for programs that are compiled by the Cfront C++ compiler C++ 3.0. Neither the compiler nor programs that are created by the compiler run on Solaris 10 OS. The library might not be supported in a future release of Solaris.

Configuration Assistant's fp Plug-in Hardware Options

The following options of the configuration administration's (cfgadm) fp plug-in might not be supported in a future Solaris release:

- show_FCP_dev
- unusable_FCP_dev

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 software:

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

Obsolete Device Driver Interfaces

Some device driver interfaces (DDI) might not be supported in a future release.

The following table lists the DDI interfaces that might not be supported, along with the preferred DDI interface alternatives.

Obsolete Interface	Preferred Interface
mmap	devmap
identify	set to nulldev
copyin	ddi_copyin
copyout	ddi_copyout
ddi_dma_addr_setup	ddi_dma_addr_bind_handle
ddi_dma_buf_setup(9F)	ddi_dma_buf_bind_handle
ddi_dma_curwin	ddi_dma_getwin
ddi_dma_free	ddi_dma_free_handle
ddi_dma_htoc	ddi_dma_addr[buf]_bind-handle
ddi_dma_movwin	ddi_dma_getwin

Obsolete Interface	Preferred Interface
ddi_dma_nextseg	ddi_dma_nextcookie
ddi_dma_nextwin	ddi_dma_nextcookie
ddi_dma_segtocookie	ddi_dma_nextcookie
ddi_dma_setup	ddi_dma_*_handle
ddi_dmae_getlim	ddi_dmae_getattr
ddi_getlongprop	ddi_prop_lookup
ddi_getlongprop_buf	ddi_prop_lookup
ddi_getprop	ddi_prop_get_in
ddi_getproplen	ddi_prop_lookup
ddi_iopb_alloc	ddi_dma_mem_alloc
ddi_iopb_free	ddi_dma_mem_free
ddi_mem_alloc	ddi_dma_mem_alloc
ddi_mem_free	ddi_dma_mem_free
ddi_map_regs	ddi_regs_map_setup
ddi_prop_create	ddi_prop_update
ddi_prop_modify	ddi_prop_update
ddi_segmap	see devmap
ddi_segmap_setup	devmap_setup
ddi_unmap_regs	ddi_regs_map_free
free_pktiopb	scsi_free_consistent_buf
get_pktiopb	scsi_alloc_consistent_buf
makecom_g0	scsi_setup_cdb
makecom_g0_s	scsi_setup_cdb
makecom_g1	scsi_setup_cdb
makecom_g5	scsi_setup_cdb
scsi_dmafree	scsi_destroy_pkt
scsi_dmaget	scsi_init_pkt
scsi_pktalloc	scsi_init_pkt

Obsolete Interface	Preferred Interface
scsi_pktfree	scsi_destroy_pkt
scsi_realloc	scsi_init_pkt
scsi_resfree	scsi_destroy_pkt
scsi_slave	scsi_probe
scsi_unslave	scsi_unprobe
ddi_peek{c,s,l,d}	ddi_peek{8,16,32,64}
ddi_poke{c,s,l,d}	ddi_poke{8,16,32,64}
in{b,w,l}	ddi_get{8,16,32}
out{b,w,l}	ddi_put{8,16,32}
repins{b,w,l}	ddi_rep_get{8,16,32}
repouts{b,w,l}	ddi_rep_put{8,16,32}

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 10 software.

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 5-1 Device and Driver Software

Name of Physical Device	Name of Driver	Type of Card
AMI MegaRAID host bus adapter, first generation	mega	SCSI RAID
Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI	cpqncr	SCSI HBA
Compaq SMART-2/P Array Controller and Compaq SMART-2SL Array Controller	smartii	SCSI RAID controller

Form and Menu Language Interpreter

The Form and Menu Language Interpreter (FMLI) commands are obsolete and might not be supported in a future Solaris release. The obsolete commands include the following:

- `/usr/bin/fmli`
- `/usr/bin/vsig`

Host Files in `/etc/net/ti*`

The host files in `/etc/net/ti*` are no longer consulted in the Solaris Operating System, though these files remain in the Solaris software. In a future Solaris release, these host files might be entirely removed.

Java 2 Platform, Standard Edition 1.4

Java 2 Platform, Standard Edition (J2SE Platform) 1.4 might not be included in a future Solaris release. J2SE 5.0 software, the default Java version in the Solaris 10 OS, is a compatible replacement for J2SE 1.4 technology.

Kerberos Ticket Lifetime Parameters in `krb5.conf`

The Kerberos Ticket Lifetime parameters, `max_life` and `max_renewable_life`, might no longer be supported in a future release of the Solaris OS. These parameters are in the `appdefaults` section of the `/etc/krb5/krb5.conf` file. Instead of these parameters, use `max_lifetime` and `renew_lifetime` in the `libdefaults` section of `/etc/krb5/krb5.conf`.

Korean CID Fonts

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

Legacy or Traditional Non-UTF-8 Locales

Sun is adopting Unicode for character encoding. Therefore, except for `zh_CN.GB18030` and `C` locales, non-UTF-8 locales might be removed as the Java Desktop System login locale in a future Solaris release.

Functions in the CPU Performance Counters Library (libcpc)

Hardware performance counters enable the measurement of many different hardware events that are related to CPU behavior. The following functions in the CPU Performance Counters library (libcpc) might not be supported in a future Solaris OS release:

cpc_access	cpc_bind_event
cpc_count_sys_events	cpc_count_usr_events
cpc_event_accum	cpc_event_diff
cpc_eventtostr	cpc_getcciname
cpc_getcpuref	cpc_getcpuver
cpc_getnpsc	cpc_getusage
cpc_pctx_bind_event	cpc_pctx_invalidate
cpc_pctx_rele	cpc_pctx_take_sample
cpc_rele	cpc_seterrfn
cpc_shared_bind_event	cpc_shared_close
cpc_shared_open	cpc_shared_rele
cpc_shared_take_sample	cpc_strtoevent
cpc_take_sample	cpc_version
cpc_walk_names	

New functions have been added to the library in Solaris 10 OS. Developers who have code that utilizes the interfaces in the preceding list should instead use the following corresponding new functions:

cpc_open	cpc_close
cpc_set_create	cpc_set_destroy
cpc_set_add_request	cpc_set_request_preset
cpc_buf_create	cpc_buf_destroy
cpc_bind_curlwp	cpc_bind_pctx
cpc_bind_cpu	cpc_unbind

cpc_set_sample	cpc_buf_sub
cpc_buf_add	cpc_buf_copy
cpc_buf_zero	cpc_buf_get
cpc_buf_set	cpc_buf_hrttime
cpc_buf_tick	cpc_walk_requests
cpc_walk_events_all	cpc_walk_events_pic
cpc_walk_attrs	cpc_enable
cpc_disable	cpc_caps
cpc_nplic	cpc_cpuref
cpc_cciname	cpc_seterrhdlr

See the `cpc(3CPC)` man page for details.

libXinput Library

The `libXinput.so.0` library might not be provided in a future release of the Solaris software. 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.

Network Information Service Plus (NIS+) Name Service Type

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 software. For more information, visit <http://www.sun.com/directory/nisplus/transition.html>.

nstest Test Program

The `ns test` is an interactive DNS test program to construct and send DNS queries. This program might no longer be supported in a future Solaris OS release. The same functionality that is provided by this test program is available by using the `dig` and `nslookup` commands.

Perl Version 5.6.1

Perl version 5.6.1 might not be supported in a future Solaris OS release. Perl version 5.8.4, the default version in the Solaris 10 OS, is not binary compatible with Perl version 5.6.1. However, the earlier version is still retained in this Solaris release. Customized modules that are installed by the customer must be rebuilt and reinstalled to use Perl version 5.8.4. Modify any scripts that require the use of version 5.6.1 to specifically use version 5.6.1 of the interpreter instead of version 5.8.4. The interpreters of the respective Perl versions are located in the following directories:

Perl 5.6.1 /usr/perl5/5.6.1/bin/perl

Perl 5.8.4 /bin/perl, /usr/bin/perl, or /usr/perl5/bin/perl

Solaris Management Console Patch Tool (Patch Manager)

The Solaris Management Console patch tool, Patch Manager, might not be available in a future release.

Solstice Enterprise Agents

Solstice Enterprise Agents 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.

Sun Fire Link Interfaces

The Sun Fire Link Interfaces might no longer be supported in a future Solaris release.

Sun Java Desktop System Applications

The following applications in the Java DS, Release 3, might be removed from a future release.

- Sun Java Calendar Preview
- GNOME Keyboard Layout Switcher
- Java DS Diagram Editor
- Java DS Java Text Editor
- Java DS Java Dictionary
- Java DS Disk Analyzer
- Java DS Mr. Project

Token Ring and Fiber Distributed Data Interface Device Types

Support for token ring (DL_TPR) and Fiber Distributed Data Interface (FDDI) device types in generic LAN driver (GLD) might be removed in a future Solaris release. After the removal is implemented, drivers for token ring or FDDI that rely on this support in GLD cease to function. However, other drivers or applications that do not use this support are not affected. To test whether a driver relies on GLD, run the following script:

```
#!/bin/sh
#
# Test a driver binary for use of GLD
#
for file
do
    /usr/ccs/bin/nm $file | /bin/awk '
    /\|gld_register$/      { isgld=1; }
    END {
        if (isgld)
            print file, "uses GLD";
        else
            print file, "does not use GLD";
        }' file=$file
done
```

For more information about generic LAN driver, see the `gld(7D)` man page as well as “Writing Device Drivers”.

WBEM-based Dynamic Reconfiguration

The feature known as WDR - Web-Based Enterprise Management Dynamic Reconfiguration - might not be supported in a future release of the Solaris Operating System. WDR is currently supported on Sun Fire midrange and high-end systems.

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. 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.

Documentation Issues

This chapter describes known issues that are related to documentation.

System Administration Guide: Naming and Directory Services (NIS+)

Starting with the Solaris 10 7/07 HW release, the Solaris OS does not have two separate hosts files. The `/etc/inet/hosts` file is now a single hosts file that contains both IPv4 and IPv6 entries. You need not maintain IPv4 entries in two hosts files that always require synchronization. For backward compatibility, the `/etc/inet/ipnodes` file is replaced with a symbolic link of the same name to the `/etc/inet/hosts` file. For more information, see the `hosts(4)` man page. NIS clients and servers can communicate using either IPv4 or IPv6 RPC transports.

Discontinuation of Swedish Documentation

Starting with the Solaris 10 7/07 HW release, documents will not be translated into Swedish. For all the latest information, see the English documents on <http://docs.sun.com/>.

Application Server Documentation Refers to Derby Database Instead of Java DB

Application Server documentation refers to the Java DB database as “Derby.” Replace all references to “Derby” with Java DB. The database is installed to `/usr/appserver/javadb`.

Documents on the Software Supplement CD

Beginning with Solaris 10 Operating System, the Supplement CD no longer exists. The documents that were formerly supplied on the Supplement CD can now be found at <http://docs.sun.com>. The rest of the CD's contents reside elsewhere in the Solaris kit or on Sun Microsystems' web site.

System Administration Guide: Basic Administration

This section describes corrections to specific chapters in the System Administration Guide: Basic Administration.

Note – Beginning with the Solaris 10 1/06 release, this section no longer applies to the Solaris documentation.

Managing Diskless Clients (Tasks)

In Step 4 of “How to Add a Diskless Client,” the command to verify whether a diskless client has been added should read as follows:

4. Verify that the diskless clients were installed.

```
# /usr/sadm/bin/smdiskless list -H host-name:898 --
```

Solaris 10 Start Here and Solaris 10 Installation Guides

Note – Beginning with the Solaris 10 1/06 release, this section no longer applies to the Solaris documentation.

The Solaris 10 Start Here and Solaris 10 Installation Guides incorrectly indicate that Sun Java Enterprise System is installed by default in the Solaris 10 release. To install Sun Java Enterprise System with the Solaris 10 OS, you must perform a custom installation.

The following documents incorrectly state that Sun Java Enterprise System is installed by default during a Solaris 10 installation.

Solaris 10 Installation Guide: Basic Installations

- Planning for a Solaris Installation From CD or DVD Media (Tasks) — Checklist for Installation
- Installing With the Solaris Installation Program (Tasks)
 - Step 9 of SPARC: To Install or Upgrade With the Solaris Installation Program
 - Step 17 of x86: To Install or Upgrade With the Solaris Installation Program

Solaris 10 Installation Guide: Network-Based Installations

- Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software
- Gathering Information Before Installation or Upgrade (Planning)
 - Checklist for Installation
 - Checklist for Upgrading

Solaris 10 Installation Guide: Solaris Live Upgrade and Upgrade Planning

- Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software
- Gathering Information Before Installation or Upgrade (Planning) — Checklist for Upgrading

Solaris 10 Installation Guide: Custom JumpStart and Advanced Installations

See Solaris Installation and Upgrade (Roadmap) — Task Map: Installing or Upgrading the Solaris Software.

Solaris 10 Start Here

See Install the Solaris 10 OS.

Solaris 10 Documentation and Man Pages

The company S2io has changed its name to Neterion. All references to S2io in the Solaris 10 documentation and man pages should read Neterion.

Table of Integrated Bug Fixes in the Solaris 10 Operating System

The tables in this appendix list bugs in these Release Notes that have been fixed in the Solaris 10 OS. For bugs that no longer apply to your Solaris 10 OS, refer to the table that corresponds to the specific release that you are using.

Note – The tables are only partial lists. Other fixed bugs in the operating system that were not previously documented in the Release Notes are excluded from these tables. For a complete list, refer to the Solaris 10 Operating System Patch List. The Patch List identifies bugs that have been fixed by specific patches that were applied to the current release. The list includes bugs that have not been documented in the Release Notes.

Fixed and Integrated Bugs

TABLE A-1 Bugs Fixed in the Solaris 10 OS Software

CR Number	Title
6495454	Trusted Stripe Crashes When Users Change Roles
6481697	Auxilliary Window Fails to Open With Asian And Wnn Input Methods
6467756	Some Compose Key Inputs Do Not Work on GTK Applications
6463842	Japanese 106 keyboard Cannot Be Set Through <code>kdmconfig</code>
6444457, 6444791	Upgrade of System With Zones Installed Fails
6438372	Input Method Switcher Does Not Work in Trusted Java DS Environment
6429880	Deadkeys Not Working With GTK Applications on Xsun in EMEA UTF-8 Locales
6421216	<code>ufsrestore</code> Does Not Use <code>acl_set()</code> For Setting ACLs

TABLE A-1 Bugs Fixed in the Solaris 10 OS Software (Continued)

CR Number	Title
6414648	Overlapping Devices Might be Added to a ZFS Storage Pool
6397893	Creating a Solaris Flash Archive Fails When the End User Solaris Software Group is Installed
6388988	IIIMF Packages Might Not be Installed
6377106	Java Problem Prevents Accessibility Environment for Speech From Setting Up Correctly
6372197	After Installing the OS with a Solaris Flash Archive, Problem With Displaying Console
6371273	LUN Numbers Greater Than 256 Are Treated Differently by 2-Gbyte and 4-Gbyte QLogic HBAs
6363449	BIOS Hangs on Reboot After Using ZFS on Sun Ultra 20 or Sun Fire X2100
6363262	Numerous Mozilla Menu Entries Are Garbled in the Russian Locale
6358227	Postinstallation Problems With Whole Root Zone, Diskless Client, and Solaris Live Upgrade
6351923	Time Settings Might Cause Key Combinations to Fail to Start Assistive Technologies in the Sun Java Desktop System
6350819	Problem With Choosing a Terminal Type When Installing Solaris 10 1/06 Software
6348316	Systems With Multiple CPUs Might Hang During Installation or System Boot
6346843	Bulgarian Locale Uses Russian Character Map
6346204	Undetected Write Errors in NFSv4 Client With Full File System
6340714	Launch Menu Cannot Be Opened With Ctrl-Esc
6336069	Error Occurs When You Upgrade a Solaris Live Upgrade Boot Environment With CD or DVD Media
6334517	Problems With dtlogin When Using UTF-8 Locales
6329929	Problems Configuring Preferences With the GNOME On-Screen Keyboard
6329642	Loadkeys Warnings Appear When System Is Booted From Solaris OS DVD
6319383	Some Language Input Does Not Work Correctly on Non-U.S. Keyboard Layouts
6314583	Serbian Locale Uses Russian Character Map
6303564	SUNWceuow Package Improperly Upgraded if Symbolic Links to Solaris OS Are Changed
6301627	Reinitializing Link on a Server in a Storage Area Network Causes Logical Unit Number on All Servers to Reset
6300863	Solaris Install Launcher Exiting Causes Reboots

TABLE A-1 Bugs Fixed in the Solaris 10 OS Software (Continued)

CR Number	Title
6288488	du Reports Wrong Size Information on RAID-Z
6222925	Installation Fails When You Install Solaris Flash Archive on Empty Boot Environment With Solaris Live Upgrade
6215527	Login Process Might Hang in Certain Asian Non-UTF-8 Locales
6214222	Resolving Issues With AccessKeyMouseListeners
6221374	svccfg import Subcommand Does Not Refresh Dependent Services
6219932	Compose Key Sequences Might Not Work When You Use X Keyboard Extension in Some Locales
6219176	pat chadd Fails to Reapply Patches to Newly Installed Packages
6218158	Java Error Messages Are Displayed After a Solaris 10 OS Installation
6216195	Non-Global Zones Created After Patching Global Zones Are Not Accessible by Remote Login Services
6215847	Solaris 10 Installation Disc Ejects When You Install the Solaris Flash Archive
6215739	Solaris GUI Installation Program Fails If You Configure Nonprimary Interface and Enable DHCP
6211279	Desktop Icons Invisible on Second Desktop System
6209619	Using USB 2.0 Hubs With USB 1.x Devices Might Cause System Panic
6209092	kdmconfig Program Runs Twice After Initial Installation
6208656	Solaris Installation GUI Might Fail When You Install Solaris Flash Archive
6204987	EHCI Driver Unusable in Certain Motherboards
6204976	Problems When Saving Attachments With Localized Content
6203680	Using FireWire-1394 Storage Devices Might Cause System Panic
6200924	Pausing USB Audio Devices During Play or Record Operation Might Cause System Deadlock
6192995	Default C Library Might Cause Boot Failure When You Install Solaris Flash Archives
6189823	localeadm -l Does Not List Installed Korean Locale Packages
6173972	Some Keyboard Keys Not Functioning With Num Lock Key On
5090222	SPARC: GigaSwift Fast and Gigabit Ethernet Devices With Revision IDs Lower Than 32 Might Cause System Panic
5087588	Installation Logs Might Be Incomplete or Inaccurate

TABLE A-1 Bugs Fixed in the Solaris 10 OS Software (Continued)

CR Number	Title
5077933	Devices Not Immediately Available in Fabric Zones in a Storage Area Network
5062026	SPARC: Panics That Occur During Suspend and Resume Cycles Might Cause the System to Hang
5062018	Systems With Active Kernel Debugger Might Panic During Suspend/Resume Cycles
5042573	Some UTF-8 Locales Are Unavailable in the Common Desktop Environment Login Service
5042195	Only Part of the Disk Is Usable by <code>fdisk</code> or <code>format</code> Commands
5030842	Some Systems With USB 2.0 Hardware Might Hang or Panic
4992478	Permissions for Mount Points Not Preserved in Created Boot Environment
4937266	Cannot Type Multibyte Characters in Text Editor 2.9.1
4915974	Solstice DiskSuite Configurations Not Converted to Solaris Volume Manager Format When You Upgrade With Solaris Live Upgrade
4720192, 6215918	<code>/dev</code> and <code>/devices/pseudo</code> Permissions Set Incorrectly After Installation
4704046	Error Messages Might Be Seen When Installing Solaris By Using a Network Image
4640568	Systems With Multiple Interfaces Recognize All Interfaces as Usable After Installation or Upgrade
4506562	Solaris Bandwidth Manager Sometimes Causes System Panic During DR Operations
2136811	Need Itinerary so That Interrupted <code>scrub</code> or <code>resilver</code> Doesn't Have to Restart
Issue	Login Screen Marks UTF-8 Locales as Recommended

Solaris 10 Operating System Patch List

The patches that are listed in this appendix have been applied to the Solaris 10 Operating System 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 10 OS 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 10 software includes a known and tested level of patches. However, patches cannot be backed out of the Solaris 10 release.

Note – The Solaris 10 software contains special patches that perform tasks that are specific to the Solaris release installation images. These patches are specific to each Solaris software release and do not apply to other systems or releases of the Solaris software. Do not attempt to download or install these patches on other systems or installations of the Solaris OS.

SPARC Patch List

- **117465-02 – SunOS 5.10: fwtmp Patch**
6180974
- **118367-04 – SunOS 5.10: csh Patch**
6209912 6230795 6282038 6307905 6311438 6314637 6336149
- **118560-02 – SunOS 5.10: usr/bin/telnet patch**
6234932 6317227

- **118566-01 – SunOS 5.10: patch usr/sbin/ping**

6222209

- **118666-12 – JavaSE 5.0: update 12 patch (equivalent to JDK 5.0u12)**

5036554 6190373 6191896 6206442 6300533 6316313 6317248 6331483 6358747 6381526 6394747
6395346 6398636 6401956 6405138 6405147 6406822 6415321 6418004 6419112 6433689 6448717
6448787 6449486 6449933 6456276 6457066 6463096 6464051 6464154 6466058 6469606 6469663
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6234909 6237671 6238128 6247771 6250165 6250473 6261499 6261509 6261510

■ **118667-12 – JavaSE 5.0: update 12 patch (equivalent to JDK 5.0u12), 64bit**

5036554 6190373 6191896 6206442 6300533 6316313 6317248 6331483 6358747 6381526 6394747
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6518092 6519527 6520670 6523518 6523707 6524112 6525690 6526421 6530336 6539661 6541843
6542335 6542419 6557659 4744057 4818488 4855795 5008498 5076772 5082374 6186524 6189161
6220825 6231529 6264013 6267625 6291992 6293795 6304817 6306218 6306625 6307570 6315235
6318302 6323299 6323688 6328467 6330315 6332120 6333613 6339493 6350066 6354718 6358532
6359106 6359434 6369448 6369510 6374321 6374419 6382144 6382788 6386537 6388456 6395581
6396586 6396591 6396594 6399321 6401952 6404388 6405538 6406801 6406821 6407414 6409194
6409286 6411322 6412288 6417341 6417395 6419145 6420226 6420685 6421297 6423370 6424631
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4653090 4699981 4778281 4842599 4916620 4977599 4994629 4994705 5002251 5030922 5038724
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5086424 5089317 5109224 6180936 6183734 6186280 6190413 6192376 6207824 6209695 6212440
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5101391 5102490 5109602 6174596 6176318 6176814 6178395 6186747 6191542 6192422 6194668
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6214132 6218454 6218682 6218987 6220064 6222034 6223691 6224591 6225440 6225605 6226269
6227033 6227583 6228585 6231186 6231936 6232039 6232513 6232607 6233169 6234804 6237349
6237552 6237654 6240586 6241743 6243108 6243400 6244063 6250286 6250517 6252770 6254466
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6181598 6181784 6182685 6189106 6189594 6195099 6206216 6206839 6207079 6207830 6208366
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5079742 5084004 5084812 5086089 5087395 5087826 5088701 5088703 5089312 5089429 5090555
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6179014 6179233 6182630 6183297 6184225 6184713 6184715 6184718 6185342 6185483 6186650
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6201884 6201952 6202061 6203504 6205320 6205321 6205414 6205494 6206764 6207138 6207322
6209613 6210721 6211220 6212165 6214159 6214166 6214369 6214784 6215407 6216277 6219639
6220829 6221563 6222071 6222449 6224433 6224438 6225348 6233287 6219668

- **118676-03 – SunOS 5.10: patch for Solaris make and sccs utilities**

6208430 5037057 6470071

- **118683-01 – SunOS 5.10: Patch for assembler**

5069118 5071178 5079903 5093350 5090509 6192963 6236017 6253736

- **118705-01 – SunOS 5.10: XVR-1000 GFB Graphics Patch**

4949649 6270426

- **118706-01 – SunOS 5.10: Creator and Creator3D: FFB Graphics Patch**

6240103

- **118707-04 – SunOS 5.10: Expert3D IFB Graphics Patch**

6239859 6278448 6297322 6266390 6319759

- **118708-15 – SunOS 5.10: Sun XVR-1200 and Sun XVR-600 Graphics Accelerator Patch**

6202655 6205888 6210235 6244529 6248620 6250233 6260241 6266390 6278448 6279278 6293254
6297322 6311081 6319362 6364976 6368913 6440714 6466799 6521995

- **118711-02 – SunOS 5.10: M64 Graphics Patch**

4950414 6269998

- **118712-18 – SunOS 5.10: Sun XVR-100 Graphics Accelerator Patch**

5098578 6182271 6214907 6260233 6282798 6282999 6302266 6307293 6345888 6350133 6373835
6377359 6385527 6398532 6452445 6459541 6460135 6467135 6480033 6491858 6503731 6509359
6510862 6513956 6353495 6519094 6537205 4789274 6541438 6532084 6534637 6555601 6546037
6548222 6545708 6545680 6564685 6559125

- **118718-01 – SunOS 5.10: Generic Framebuffer configuration Graphics Patch**

6534154

- **118735-01 – SunOS 5.10: patch usr/sbin/rpc.nisd_resolv**

6220055

- **118777-09 – SunOS 5.10: Sun GigaSwift Ethernet 1.0 driver patch**

4722784 4763926 4770635 6214285 6216131 6218302 6223263 6227233 6236474 6238254 6251174
 6255365 6255394 6261657 6266901 6266985 6273441 6277650 6279238 6280692 6304571 6310502
 6342672 6342675 6345632 6356079 6358618 6358633 6385683 6388242 6390978 6434341 6438569
 6401602 6428623 6493290 6451235 6501309 6460221 6515306

- **118814-01 – SunOS 5.10: patch platform/sun4u/kernel/tod/sparcv9/todsg**

6226428 6228652 6228655 6230025

- **118815-05 – SunOS 5.10: awk nawk patch**

5004023 5040318 5074811 5090114 6195584 6320514 6337300 6368966 6446725

- **118824-01 – SunOS 5.10: patch usr/bin/sparcv9/sort**

6178339

- **118830-01 – SunOS 5.10: hme patch**

5005976 5076750 6235003 6240490

- **118833-36 – SunOS 5.10: kernel patch**

1156383 1236941 4034947 4063945 4108775 4117562 4165223 4256818 4294701 4316952 4352289
 4387797 4419428 4471706 4486878 4500618 4511681 4521202 4599450 4621371 4626861 4634519
 4636944 4638717 4644326 4670406 4691277 4712059 4727117 4745648 4763363 4782952 4792021
 4796051 4799697 4818196 4818484 4841261 4845958 4849565 4853554 4855218 4872386 4873353
 4875624 4880976 4885996 4886293 4892666 4898397 4905227 4908967 4909247 4913952 4915681
 4921452 4923208 4927518 4928000 4931229 4932869 4934259 4938301 4939546 4951608 4954646
 4954703 4961433 4967732 4968226 4972826 4995852 4997994 5004247 5004374 5004701 5005976
 5007714 5007726 5010267 5013200 5016956 5016975 5016998 5017041 5017095 5018506 5019542
 5023079 5023670 5024476 5029967 5031470 5034470 5036894 5039369 5039974 5041567 5042195
 5042855 5042924 5044015 5045382 5046450 5047630 5049969 5052723 5058075 5061331 5062145
 5062435 5062645 5065608 5066548 5067964 5068886 5070446 5073604 5076027 5076357 5076548
 5076976 5079311 5080443 5080821 5081575 5083133 5083170 5084073 5084264 5084421 5084452
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 6198614 6198766 6198890 6198953 6199406 6199444 6200071 6200160 6200295 6200896 6200924
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6226326 6226332 6226345 6226357 6226421 6226426 6226428 6226441 6226445 6226484 6226756
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6235044 6235086 6235318 6235348 6235370 6235959 6236000 6236038 6236072 6236182 6236253
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6415573 6415576 6415739 6416196 6416482 6416759 6416794 6416873 6417261 6417377 6417482
6417484 6417933 6417978 6418027 6418270 6418368 6418634 6419029 6420136 6420234 6420709
6420741 6421200 6421216 6421512 6421515 6421970 6422106 6422168 6422398 6422560 6423041
6423093 6423120 6423162 6423201 6423586 6423595 6423747 6424093 6424180 6424201 6424460
6424554 6424857 6425086 6425111 6425438 6425467 6425501 6425514 6425740 6425808 6425828
6425832 6425909 6426013 6426194 6426449 6426757 6427002 6427067 6427081 6427119 6427271
6427503 6427559 6428335 6428416 6428769 6428786 6428839 6429440 6429516 6429822 6429952
6429978 6430121 6430143 6430436 6430765 6431140 6431503 6431599 6431976 6432451 6432459

6432463 6432807 6432811 6432964 6432967 6433264 6433296 6433331 6433406 6433408 6433603
6433679 6433680 6433717 6434208 6434725 6435618 6435649 6435689 6435779 6435847 6435857
6435911 6436166 6436195 6436387 6436499 6436524 6436526 6436551 6436553 6436776 6436800
6436837 6436993 6437520 6437641 6437682 6438116 6438186 6438229 6438388 6438600 6439022
6439102 6439370 6440060 6440121 6440499 6440599 6440717 6440749 6441820 6441823 6441930
6441933 6443017 6443255 6443286 6443912 6444295 6444346 6444691 6445128 6445633 6445825
6446530 6446569 6447377 6447394 6447452 6447717 6447875 6448124 6448371 6448732 6449280
6450048 6450052 6450133 6450292 6450411 6450583 6450585 6450683 6451064 6451124 6451125
6451412 6451557 6452046 6452084 6452582 6452642 6452685 6452787 6452797 6453203 6453375
6453554 6453641 6453659 6453706 6453820 6454253 6454481 6454690 6455303 6455399 6455799
6456477 6456528 6456875 6457319 6457407 6458103 6458137 6458440 6458668 6460200 6460204
6460310 6460383 6460403 6460433 6461596 6461882 6462242 6462287 6462649 6462893 6463756
6464311 6464426 6464822 6465453 6465639 6466286 6466368 6466962 6467573 6467860 6469461
6469866 6470233 6471117 6471451 6471600 6472110 6474295 6474678 6474725 6474969 6476359
6479421 6479545 6479936 6480369 6480845 6480913 6480922 6481189 6481557 6481618 6481919
6483403 6483435 6483507 6484006 6484500 6484977 6486353 6492373 6492425 6493018 6493749
6493753 6493850 6494031 6494303 6499690 6499758 6500872 6501537 6503144 6503153

- **118842-01 – SunOS 5.10: dada patch**

5005976 6235003 6240490

- **118872-04 – SunOS 5.10: ksh patch**

4402737 6208198 6261715 6264121 6277643

- **118884-01 – SunOS 5.10: atomic.h patch**

4954703

- **118918-24 – SunOS 5.10: Solaris Crypto Framework patch**

4691624 4721729 4920408 4925453 4926742 4931202 5039273 5059459 5059461 5062050 5067502
5072858 5100567 6181926 6192431 6195428 6195934 6197268 6197284 6198116 6199119 6200215
6204887 6211857 6215509 6215816 6216772 6217866 6220814 6222467 6223863 6223866 6223869
6228384 6231739 6231978 6249979 6250168 6250963 6252894 6253484 6262344 6264344 6264379
6271754 6274680 6276483 6276609 6278459 6278572 6278578 6280574 6286372 6287425 6287428
6288840 6296920 6314217 6332420 6336131 6336517 6342468 6345493 6352877 6355571 6355597
6357426 6358078 6359179 6360218 6364043 6368332 6372133 6372169 6372587 6373525 6376993
6379529 6394953 6399680 6405871 6408419 6427002 6427559 6439285 6474874 6480958 6484163

- **118945-01 – SunOS 5.10: Sun Gigabit Ethernet 3.0 driver patch**

6238162 5019183 6240487

- **118959-03 – SunOS 5.10: patch usr/bin/lastcomm and usr/bin/acctcom**

5040580 6200474 6227221 6329114

- **118965-02 – X11 6.8.0: Xorg**

6366603 6489660

- **118981-03 – SunOS 5.10: Sun Quad FastEthernet qfe driver**

6238254 6267267 6268767 6293226 6347707 6297366

- **119042-10 – SunOS 5.10: svccfg & svcprop patch**

6197520 6217410 6221374 6222202 6231947 6251841 6287888 6296112 6299709 6351779 6355665
6367481 6397719 6461381

- **119059-29 – X11 6.6.2: Xsun patch**

4751462 4915967 5016163 6191917 6212502 6216985 6217588 6219170 6219932 6219947 6224159
6226717 6226733 6227843 6228875 6247062 6248417 6248445 6248453 6255133 6265045 6265414
6265634 6269938 6270914 6276115 6277903 6278131 6279680 6280222 6297797 6310310 6311410
6314490 6316436 6319348 6326551 6334067 6338085 6340191 6346811 6347707 6353678 6359918
6361567 6366490 6370100 6370739 6373433 6376462 6377194 6377837 6378024 6378204 6383556
6387317 6395871 6397502 6426793 6450316 6453362 6458107 6465805 6502073 6482736 6245381
6506010 6488392 6487187 6501702 6477636 6525814 6489660 6534483 6526191 6538280 6538290
6535201 6542279 6496385 6457530 6473929 6513118 6552230

- **119063-01 – SunOS 5.10: libXpm patch**

6231515 6241936

- **119065-01 – SunOS 5.10: fc-cache patch**

6205323

- **119070-04 – SunOS 5.10: Netra-CP2300 Patch**

6197206 6213630 6233445

- **119079-13 – SunOS 5.10: Script Patch**

6210697 6223059 6226968 6233613 6238277 6242365 6243456 6256312 6273106 6302827 6324123
6326533 6231947 6251841 6222202 6217410 6344138

- **119081-25 – SunOS 5.10: CD-ROM Install Boot Image Patch**

4393815 4649122 4692667 4713660 4716085 4719125 4789211 4947796 5009917 5047412 5064512
6178185 6198783 6215847 6215918 6218158 6221702 6222925 6242499 6252385 6252388 6254694
6288726 6290082 6297948 6297950 6301206 6313099 6314149 6319439 6320965 6323208 6323294
6323511 6329642 6331510 6332093 6332722 6336267 6340350 6340354 6341482 6342039 6343072
6344771 6347051 6349235 6350819 6351213 6354062 6355905 6356711 6364583 6367162 6369598
6372101 6372197 6373211 6374024 6376794 6390503 6395264 6406788 6407201 6413159 6422730
6425215 6425221 6426207 6431490 6432478 6436821

- **119088-10 – SunOS 5.10: SPECIAL PATCH: qlc Script Patch to replace package scripts**

6210934 6236343 6292280 6292987 6303297 6320936 6321523 6428334 6430552 6439910 6458629
6520427

- **119090-24 – SunOS 5.10: Sun iSCSI Device Driver and Utilities**

5094124 5094370 6173739 6173912 6186291 6204742 6206029 6206568 6207172 6207973 6208490
6211472 6211499 6211560 6211924 6212031 6212320 6213484 6213487 6213490 6213516 6214405
6214546 6215262 6216983 6218751 6219608 6220407 6220773 6221284 6221432 6221842 6221880
6222630 6224359 6224866 6226740 6226933 6228489 6230319 6231086 6231706 6233206 6233384
6235292 6236260 6236271 6236375 6239078 6239185 6239207 6240818 6240849 6240911 6241611
6242847 6244250 6244358 6245161 6247445 6249424 6249509 6250036 6251575 6254172 6254222
6255629 6257030 6258672 6259522 6259737 6261483 6261560 6261627 6261669 6262279 6262413
6263279 6263322 6263646 6267539 6267543 6268840 6268934 6271727 6274744 6275410 6276026
6278190 6280621 6282455 6282646 6282686 6284875 6285462 6287318 6288103 6290500 6292453
6293219 6296381 6296407 6296971 6297371 6297390 6298546 6299456 6300099 6300259 6303184
6304963 6306146 6311820 6314187 6314196 6326608 6338487 6340791 6341375 6343904 6344551
6348170 6354973 6357322 6358044 6361661 6361861 6368406 6368415 6370257 6371828 6374756
6375178 6375740 6376509 6377013 6377485 6377558 6378143 6378566 6379890 6380321 6380424
6381723 6382994 6383602 6383806 6388390 6390196 6390387 6391839 6394294 6396274 6396333
6398514 6412468 6416687 6418591 6423706 6449666 6468489 6476717

- **119092-10 – SunOS 5.10: SPECIAL PATCH: iSCSI Script Patch to replace package scripts**

5094124 6207973 6213487 6239078 6251575 6380424 6394294 6418007 6449666 6484779

- **119115-29 – Mozilla 1.7 patch**

6177442 6221725 6211632 6192644 6200999 6200994 5077554 6200990 6202289 6224482 6225441
6228782 6216830 6224900 6234566 6245856 6247811 6247837 6247838 6247849 6248466 6248468
6248516 6248547 6248557 6248594 6248613 6249777 6249778 6255667 6248548 6249776 6259266
6259860 6259866 6259873 6259902 6260571 6260573 6269887 6261013 6281357 6271958 5015369
6251128 6267169 6281360 6282170 6282190 6284465 6287117 6258444 6297209 6297215 6297218
6297219 6297231 6191277 6200696 6200705 6282893 6297174 6297242 6317624 6318009 6334587
6334619 6339970 6249857 6254398 6352958 6360106 6369969 6384953 6412730 6415128 6415131
6415133 6415135 6415138 6415142 6415143 6424493 6424545 6424548 6424551 6424560 6424563
6424567 6424568 6424573 6424574 6424577 6424579 6391562 6461074 6415123 6447020 6447021
6458750 6458753 6458754 6499438 6488248 6447022 6508400 6508398 6458752 6508395 6514036
6447023 6508397

- **119117-36 – Evolution 1.4.6 patch**

6204976 6201742 6218068 6182553 6206223 6216041 6231010 6222258 6251188 6262120 6272983
6259214 6249871 6253417 6279337 6297294 6299994 6303111 6182358 6198500 6206245 6221676
6300019 5099374 5106735 6306915 6226019 6312129 6321792 6323770 6335859 6306791 6305171
6210993 6221680 6211080 6301782 6330472 6330479 4992018 6335855 6346038 6349674 5054558
6350965 6342113 6336425 6367678 6369109 6381422 6380083 6300007 6354689 6375476 6376155
6389050 6369082 6374285 6367965 6336385 6327483 6330477 6414603 6307047 6430888 6439788
6458897 6445216 6465437 6469628 6391724 6290981 6475882 6432279 6401341 6455354 6469753
6402585 6420534 6513199 6520675 6398627 6527123 6526936 6431169 6531957 6535815

- **119130-33 – SunOS 5.10: Sun Fibre Channel Device Drivers**

4368092 4704353 4792071 4961555 4976582 4998402 5077933 5091288 5091773 5094714 6198588
6205269 6207101 6207184 6207845 6210934 6214931 6215726 6216326 6216743 6220173 6221242
6225769 6227340 6227562 6233352 6233800 6235327 6235886 6238787 6250038 6254848 6258722

6260549 6261607 6270092 6276354 6279071 6279108 6283597 6286318 6288500 6288908 6290618
6292280 6292446 6292987 6295169 6296383 6298259 6298288 6300113 6304555 6306254 6311175
6311314 6313089 6316063 6317420 6317985 6319731 6320936 6321523 6323973 6325525 6326293
6326600 6326602 6326608 6328146 6328827 6329995 6330800 6331949 6337290 6341027 6342934
6343904 6344143 6345310 6346519 6349983 6350809 6355378 6356559 6360849 6361031 6366792
6371273 6373288 6374654 6378014 6378371 6379312 6379866 6379955 6380370 6381878 6381991
6385531 6386247 6387150 6388097 6390139 6390636 6390807 6390817 6390862 6391226 6394475
6395930 6399058 6402322 6402861 6410934 6411995 6418616 6420986 6429517 6430552 6439492
6439910 6442233 6450711 6452811 6454469 6459762 6465379 6467850 6468249 6468584 6480827
6484172 6487389 6499451

- **119143-02 – SunOS 5.10: patch lib/libinetutil.so.1**

6220609

- **119201-25 – SunOS 5.10: OS Localization message patch**

6232516 6218356 6210085 6209742 6237404 6255735 6278006 6270754 6284429 6305523 6309435
6336898 6375499 6426585 6453980 6459737 6468576 6476637 6481488 6493239 6513057 6513953
4987330 6495344 6339580 6413124 6549999 6555236

- **119213-14 – NSS_NSPR_JSS 3.11.7: NSPR 4.6.7 / NSS 3.11.7 / JSS 4.2.5**

6237228 6237231 6243892 6243894 6243895 5045171 6243896 6243900 6243905 6243907 6243909
6243913 6243915 6243916 6243918 6250799 6250801 6250802 6250803 6250807 6250808 6250812
6250814 6250816 6251104 6258052 6258053 6258055 6258056 6258057 6258061 6258062 6258064
6258066 6260111 6260658 6302177 6333604 6326988 6326994 6326998 6327000 6327002 6242112
6327004 6327009 6327013 6253118 6327014 6327018 6210080 6327020 6327021 6315463 6341685
6341687 6264996 6330310 6350173 6359866 6362932 4689266 6377957 6407468 6406845 6374429
6416004 6419586 6419590 6421471 6442985 6442986 6442988 6442990 6442993 6427037 6442994
6442995 6464665 6464668 6464671 6464756 6464673 6464677 6464680 6464767 6465317 6464683
6468441 6464752 6228370 6464757 6468410 6464759 6464762 6464764 6464766 6467643 6468495
6467033 6491238 6488060 6493492 6507762 6507627 6423970 6524565 6524651 6555587 6555589
6547236 6555590 6555588 4926429 6524809 6560823

- **119246-25 – SunOS 5.10: Manual Page updates for Solaris 10**

4932187 5089292 6424431 6452917 6491763 6492618 6538327 6544176 6557110 6557112 6557731
6558182 6558358 6558681 6559533 6559690 6559994 6560000 6560031 6560094 6561564 6561845
6561918 6562127 6562146 6562338 6562932 6562934 6563782 6564661 6565744 6565885 6567011
6567825 6568313 6268608 6453513 6458491 6475435 6482082 6513975 6522984 6533164 6535992
6540050 6542210 6542816 6543148 6543600 6545132 6548232 6549988 6553040 6553637 6553723
6554074 6554385 6554386 6554678 6555440 6556655 6557048 6557148 6266902 6273127 6338497
6385791 6385971 6391765 6412518 6416817 6416818 6416819 6416820 6425220 6427533 6450655
6452152 6452155 6458191 6487476 6488510 6489948 6495673 6497299 6500495 6500937 6502175
6502404 6509209 6509210 6509211 6516528 6516941 6519017 6524213 6528262 6534254 6542182
6542231 6542939 6543218 6546441 6546542 6546624 6546944 4931322 6241808 6245190 6258487
6266829 6267417 6268843 6272871 6317196 6320929 6338390 6358338 6361814 6365553 6372304
6372826 6377539 6378187 6385114 6385124 6388644 6390018 6399662 6399678 6399709 6401804
6403266 6405492 6406490 6406492 6406495 6407952 6409890 6411356 6412111 6415277 6415986

6435935 6437070 6439807 6442908 6444237 6444624 6445051 6446130 6448584 6450656 6450747
6451287 6452144 6452893 6452894 6454335 6457472 6458397 6463250 6464141 6465609 6466130
6466235 6466280 6466287 6469452 6469454 6472741 6473259 6474652 6474985 6475438 6477234
6477245 6478458 6478824 6478827 6480002 6480385 6480386 6480434 6480469 6481405 6481938
6482205 6482671 6483704 6483803 6484552 6485850 6486500 6488253 6488307 6489928 6491406
6491572 6492113 6492458 6493191 6495676 6495679 6495931 6497199 6497298 6497301 6498406
6500043 6506790 6507155 6507237 6508226 6509208 6509310 6509521 6510047 6510071 6510409
6510677 6510803 6511579 6512137 6513606 6513987 6515153 6515820 6517197 6517522 6517571
6517572 6518353 6518739 6519747 6520229 6520667 6521197 6521341 6521982 6522335 6522386
6525807 6526228 6526286 6528767 6529731 6530458 6531333 6532855 6533129 6534335 6534397
6534444 6534458 6534481 6539624 6540257 6541651 6542568 6450425 6478952 6480976 6482739
6284176 6477044 6477048 5087481 6323754 6360199 6396033 6434153 6434194 6453380 6466844
6471509 6471941 6472034 6343735 6349173 6349176 6368000 6376459 6390015 6393131 6395051
6401024 6405529 6407987 6417482 6417484 6422342 6430651 6432304 6432982 6445234 6445848
6447394 6447804 6452787 6453820 6460197 6464875 6465710 6466031 6467496 6468605 6266413
6288724 6326478 6327879 6335080 6352894 6361027 6365341 6366230 6376482 6378067 6382980
6385484 6385494 6385502 6385507 6385509 6385511 6387364 6390465 6391010 6393938 6393943
6393944 6395119 6395131 6395132 6395133 6395134 6396279 6396285 6396904 6396906 6397171
6397884 6398396 6398493 6406100 6406596 6408477 6412645 6414144 6426047 6426471 6427149
6428601 6432963 6437503 6438376 6439003 6442367 6443517 6444550 6445174 6445233 6452661
6452797 6453361 6453375 6453658 6453669 6454284 6457913 6458208 6458687 6459135 6459750
6460323 6460550 6461386 6461574 6462038 6462372 6463744 6465629 6186484 6248837 6262702
6315539 6315541 6340509 6343529 6351530 6353091 6379984 6380387 6380411 6385142 6392184
6400962 6404826 6407957 6410349 6414900 6417201 6417748 6417925 6419172 6419899 6420763
6421512 6422121 6422166 6422168 6423729 6423869 6423891 6427607 6429952 6429978 6431019
6433593 6433601 6438116 6438336 6439605 6439855 6441097 6441367 6442447 6445753 6446000
6446545 6447244 6447870 6447932 6448542 6449218 6450428 6450467 6451041 6451072 4918616
6260536 6361909 6388875 6399169 6400540 6402326 6403818 6410372 6410607 6410629 6413329
5074864 6227556 6241231 6297480 6357814 6367083 6368344 6377211 6390674 6399720 6401869
6405191 5000242 5048768 6248370 6251550 6264241 6265527 6273549 6309942 6309950 6309954
6309959 6309966 6335374 6360471 6369297 6378785 6378792 6378795 6378798 6387596 6389748
6392088 6392094 6394580 6395226 6395794 6396295 6397873 6398254 6398715 6401571 6202570
6213474 6230447 6248553 6278103 6282636 6324208 6336865 6337579 6338117 6339732 6341066
6341867 6342730 6342739 6343592 6344010 6348739 6350275 6358301 6380325 6385850 6386135
6387327 6389147 6389721 6389863 6391131 6394491 6394575 4901741 5010904 5046150 5057188
5079401 6198346 6206711 6222499 6224791 6228270 6237890 6268924 6291156 6296648 6305677
6314222 6326636 6329967 6333670 6338414 6338426 6338428 6338435 6340085 6340800 6340921
6341018 6341603 6341728 6342497 6342919 6345681 6345917 6345921 6346244 6346881 6347426
6348073 6348185 6348236 6349474 6349904 6350722 6350982 6353408 6353413 6353415 6353927
6354469 6355110 6355449 6357973 6358663 6359325 6359338 6359342 6360329 6362109 6366627
6366665 6369177 6370094 6370876 6372481 6372487 6374108 6374650 6375299 6375473 6375593
6376576 6379147 6382231 6382311 6382966 6383180 6384009 6384027 6384095 6237607 6238503
6264591 6291976 6328991 6335997 6337445 6339859 6341814 6341845 6343184 4754411 6211237
6226954 6231497 6232483 6237082 6259813 6290845 6294809 6294811 6294812 6296740 6297786
6301361 6306533 6308447 6309398 6319339 6324864 6328540 6328541 6329060 6330016 6330062
6330188 6330671 6331047 6331055 6331331 6331841 6332029 6332677 6337869 6338057 6339627
6204577 6221309 6241099 6242990 6248877 6255008 6258334 6258339 6286409 6288555 6309363
6313868 6317846 6318461 6320393 6321596 6322368 6322669 6322739 6322863 6323460 6323484

6324148 6324248 6324420 6324858 6325356 5032018 5044715 6213568 6219083 6227560 6227561
6239801 6240066 6266903 6270406 6284937 6291991 6293104 6298241 6300498 6300514 6301501
6302861 6303663 6304180 6305130 6305702 6305923 6306228 6306246 6306391 6306499 6309411
6310305 6312151 6316296 2123343 2123344 2125584 5107445 6176645 6192812 6218160 6219867
6229028 6231508 6236743 6239205 6247514 6248484 6249686 6249689 6249985 6259275 625178
6280439 6281184 6289748 6289985 6291968 6292324 6293276 6293905 6293994 6295135 6295164
6295455 6295501 6295606 6295883 6295885 6295972 6298238 6299871 6301701 6302598 6175259
6186292 6213557 6219322 6244794 6247949 6256977 6259276 6267730 6268875 6274065 6275116
6275182 6275486 6276860 6277917 6278481 6279864 6279996 6178430 6199201 6215789 6227520
6242411 6242412 6245230 6247046 6248312 6249005 6249691 6259032 6259382 6260165 6261039
6261047 6262466 6263124 6266052 6266054 6266570 6267911 6270039 6270071 6271056 6274141
2123236 5087622 6190827 6196727 6209285 6218778 6222501 6225497 6235402 6241181 6247652
6251475 6252447 6253481 6256136 5090875 6207391 6212233 6217156 6217716 6222749 6227376
6242519 6242876 6243333 6244894 6245209 6245842 6246422 6247757 6250396 6250515 2122825
2122940 5008956 5038387 5043371 5046429 5069521 5095891 5096574 5104556 5108949 6182303
6193595 6194741 6195276 6195547 6198061 6200093 6201988 6202122 6205275 6208084 6209281
6210273 6211790 6211903 6212029 6212232 6212654 6212836 6213475 6213502 6213507 6213536
6214276 6214973 6215139 6215474 6215475 6216789 6216851 6217406 6218320 6218842 6218986
6219657 6219660 6219661 6219671 6220014 6220161 6220729 6220859 6221541 6221589 6221625
6221733 6221891 6222153 6222369 6222447 6222663 6222727 6223264 6223570 6224890 6225126
6225266 6225304 6225337 6225421 6225486 6225503 6225575 6225624 6225693 6229095 6229654
6229957 6230305 6230958 6231259 6231325 6231382 6231455 6231505 6231794 6232091 6233524
6233764 6233884 6233891 6233909 6234453 6235323 6236959 6236965 6237101 6237254 6237389
6237405 6237708 6237832 6237835 6238687 6240599 6240819 6241622 6243286

■ **119252-19 – SunOS 5.10: System Administration Applications Patch**

4358280 4592896 4649122 4692667 4698357 4760117 4921333 4952774 4964874 5009917 5101364
5110062 6179110 6198291 6211620 6221551 6252385 6252388 6265069 6298572 6311509 6342179
6343364 6386531 6404878 6421783 6438773 6439322 6445230 6460674 6493882 6518670 6520766
6547635 6549254

■ **119254-38 – SunOS 5.10: Install and Patch Utilities Patch**

4908553 4967419 4991875 5045607 6188748 6206255 6210622 6216195 6216798 6216809 6217206
6219176 6220578 6221954 6224740 6224767 6225041 6226770 6226930 6231818 6233011 6233738
6236231 6236796 6236855 6236866 6239875 6240894 6241052 6241431 6241944 6242607 6243480
6244125 6245446 6245715 6248984 6251452 6251466 6252385 6252388 6256515 6262677 6263190
6265069 6266241 6271791 6274438 6275530 6275557 6276148 6277096 6278325 6279485 6284610
6285073 6288746 6290368 6290429 6290432 6292233 6292269 6292275 6293397 6296187 6297336
6303564 6304174 6304176 6304222 6306319 6307548 6309013 6313848 6315157 6315316 6318864
6319430 6319570 6320238 6321376 6323208 6324392 6328091 6331277 6334066 6335342 6337009
6337644 6340114 6342245 6344531 6344916 6345121 6347534 6348813 6349319 6351408 6351428
6352966 6354346 6355320 6355604 6360157 6362706 6363226 6364817 6369639 6370540 6371040
6371745 6373045 6374972 6380672 6386697 6387091 6387771 6388931 6388959 6389929 6391503
6392825 6397413 6401302 6406934 6407037 6412965 6421944 6425837 6435846 6438808 6438813
6440750 6444650 6445261 6452983 6455767 6456317 6467398 6479483 6480462 6499744 6500813
6502541 6513106 6513566 6527309 6527819 6534160

■ **119262-07 – SunOS 5.10: Patch for Central European Region locale issues**

6222362 6227384 6255292 6249315 6338196 6347707 6336555 6318932 6403522 6346087 6309622
6280189 6395212 6316938 6435355 6484316 6521445

- **119276-09 – SunOS 5.10: Patch for Northern Europe Region locale issues**

6227384 6255292 6276095 6249315 6338196 6347707 6318932 6375175 6403522 6346087 6280189
6394467 6395212 6316938 6484316 6521445

- **119278-15 – CDE 1.6: dtlogin patch**

4383440 5046689 6209544 6211096 6234179 6240729 6247943 6263134 6267572 6289158 6300285
6327614 6328101 6332653 6334271 6334517 6340843 6342881 6362895 6386254 6405883 6405981
6409991 6416269 6432396 6445129 6460250 6465777 6524040 6537588 6537603

- **119280-13 – CDE 1.6: Runtime library patch for Solaris 10**

6209386 6255303 4750419 6262671 6241938 6347707 6382405 6360671 6401791 6401561 6403918
6426804 6416269 6405981 6487366 6464045 6487031 6489613 6548554 6548563

- **119282-01 – CDE1.6: GNOME/CDE Menu for Solaris 10**

6224922

- **119284-01 – CDE 1.6: sdtwsinfo patch**

6215091

- **119286-01 – CDE 1.6: dtterm libDtTerm patch**

6219941

- **119309-03 – SunOS 5.10: PGX32 Graphics**

6231238 6222319 6218355 6256782

- **119313-13 – SunOS 5.10: WBEM Patch**

4872697 5006767 5016983 6183058 6212927 6235892 6242775 6252385 6252388 6255908 6265069
6361917 6378956 6383511 6389712 6396510 6407617 6468951 6480462 6500334 6524944

- **119315-10 – SunOS 5.10: Solaris Management Applications Patch**

4418366 4770830 5080683 5092418 6192017 6196606 6242775 6327965 6361917 6378956 6383511
6396510 6407617 6413085 6478291 6569127

- **119317-01 – SunOS 5.10: SVr4 Packaging Commands (usr) Patch**

6202830

- **119368-05 – GNOME 2.6.0: Printing Technology Patch**

5083233 6200941 6263422 6231341 6305090 6347224 6418897

- **119372-02 – GNOME 2.6.0: GNOME common development tools and libraries Patch**

6230101 6200654

- **119397-06 – SunOS 5.10: Patch for North America Region locale issues**

6227384 6255292 6249315 6338196 6347707 6318932 6354302 6346087 6280189 6395212 6316938
6484316

- **119399-06 – SunOS 5.10: Patch for Central American Region locale issues**

6228240 6255292 6249315 6338196 6318932 6354302 6346087 6280189 6395212 6316938 6484316

- **119401-08 – SunOS 5.10: Patch for Western Europe Region locale issues**

6227384 6255292 6249315 6338196 6380900 6318932 6375175 6403522 6346087 6280189 6305220
6394467 6395212 6316938 6484316

- **119404-06 – SunOS 5.10: Patch for South American Region locale issues**

6228240 6255292 6249315 6338196 6318932 6354302 6346087 6280189 6395212 6316938 6484316

- **119407-08 – SunOS 5.10: Patch for Eastern Europe Region locale issues**

6228243 6228192 6255292 6249315 6338196 6347707 6346843 6314583 4944311 6367674 6383002
6399124 6375175 6403522 6346087 6280189 4997058 6395212 6316938 6505106 6484316

- **119410-05 – GNOME 2.6.0: Gnome Applets Patch**

6205402 6245563 6207273 6393698 6393714 6393724 6393731 6405059 6404437 6402894 6232275

- **119414-14 – GNOME 2.6.0: Gnome Accessibility Libraries Patch**

6192805 6205225 6182499 6182502 6217152 6192693 6205004 6216843 6226723 6228329 6260441
6283137 6315241 4768049 6347858 6340516 6358227 6386230 6199929 6407595 6431039 6377106
6437617 6468296 6486458 6534092

- **119416-01 – GNOME 2.6.0: Gnome Text-To-Speech Engine Patch**

6216843 6226723 6228329

- **119418-03 – GNOME 2.6.0: Gnome On-screen Keyboard Patch**

5109895 6200712 6211656 6223576 6405961 6364326 6329929

- **119420-01 – SunOS 5.10: Thai locale patch**

6235012

- **119470-11 – SunOS 5.10: Sun Enterprise Network Array firmware and utilities**

5046910 5076769 5079007 6201060 6204512 6234959 6235886 6247521 6250956 6250957 6274205
6285969 6309346 6339658 6347707 6384885 6395087 6397672 6494611 6534722

- **119534-12 – SunOS 5.10: Flash Archive Patch**

4947796 4956004 5031468 5081174 6216373 6225430 6256048 6267370 6301206 6306712 6322333
6323294 6330261 6382817 6416737 6445230 6452449

- **119538-12 – GNOME 2.6.0: Window Manager Patch**

6200511 6182510 6227065 6204338 6393698 6393714 6393724 6393731 6405059 6404437 6402894
6455491 6433759 6424031 6424017 6459957 6404286 6406972 6468212 6407497

- **119540-06 – GNOME 2.6.0: Gnome Dtlogin configuration Patch**

6197950 6248517 6214486 6206909 6492870 6532300

- **119544-03 – GNOME 2.6.0: Gnome streaming media framework Patch**

6226060 6227666 6226597

- **119546-08 – APOC 1.2: APOC Configuration Agent Patch**

6241546 6257229 6258281 6278047 6293945 6313943 6363692 6386010 6389918 6387976 6391134
6388397 6414406 6417504 6417522 6417539 6391879 6527487 6527489 6506513

- **119548-09 – GNOME 2.6.0: Gnome Multi-protocol instant messaging client Patch**

6217610 4990149 6268932 6269430 6328008 6199135 6333181 6465423 6481367 6437316 6547723

- **119555-04 – SunOS 5.10: Software to support QLogic Ultra3 SCSI host bus adapters**

4895884 6219159 6220200 6343904 6415097

- **119570-01 – SunOS 5.10: lw8 Patch**

5090037

- **119574-02 – SunOS 5.10: su patch**

6213281 6219721 6219774 6243480

- **119578-30 – SunOS 5.10: FMA Patch**

4818484 5062645 5076562 5083131 5087929 5090037 6181364 6183842 6198521 6202015 6202564
6202643 6213277 6216286 6216754 6218246 6218463 6219101 6220169 6222529 6223178 6223348
6224293 6225875 6229087 6232309 6237801 6237913 6239573 6240456 6244989 6249531 6253955
6254303 6254397 6256371 6263078 6264225 6264415 6266851 6273144 6276462 6277362 6278369
6278378 6278442 6279063 6281100 6281113 6284455 6295417 6298484 6298972 6298974 6298981
6313638 6314073 6315039 6317871 6320584 6321736 6322749 6323319 6323322 6323393 6323532
6323554 6324536 6325530 6326958 6328921 6330180 6330644 6331093 6332245 6333184 6333617
6335522 6335549 6336193 6337809 6338081 6338653 6342066 6342977 6345621 6345894 6345936
6346926 6351025 6356155 6359264 6361055 6362043 6362164 6365742 6365743 6366206 6366821
6367031 6367044 6367047 6367049 6367051 6367053 6367061 6367063 6367069 6367070 6367073
6367075 6367985 6368526 6369190 6369961 6370284 6370798 6370802 6371490 6373071 6373879
6377319 6378766 6379498 6381022 6384727 6385007 6385516 6388986 6389646 6389650 6390114
6390205 6390211 6390232 6390296 6390617 6391117 6393362 6395385 6397762 6397830 6398325

6398388 6399875 6406417 6409768 6411192 6414182 6416496 6416735 6419218 6419771 6421627
6421650 6421659 6422221 6422560 6423975 6424520 6424523 6425600 6426009 6426514 6428381
6428843 6429361 6430015 6430823 6430825 6434164 6437467 6438703 6441262 6441859 6446309

- **119583-01 – SunOS 5.10: memory classification header file patch**

4818484 6198521 6253955

- **119598-08 – GNOME 2.6.0: Gnome Screen Reader and Magnifier Patch**

6205770 6191352 6207171 5083128 6205765 6202337 6200573 6186020 5095976 6315934 6202897
6193299 6239339 6240135 6373775 6340786 6380184 6434160 6468296

- **119601-11 – SunOS 5.10: Patch for European Region JDS messages**

6250683 6296998 6274401 6186577 6263015 6176784 6180730 4929548 4957762 6308186 6336423
6342833 6382651 6408317 6454615 6457091 6401474 6467056 6527359 6287987 6179511 6546801
6461902 6493973 6526362

- **119603-07 – SunOS 5.10: Patch for Asian Region JDS messages**

6250683 6263015 6176784 4932571 6308186 4957762 6294274 6297892 6312176 6336423 6408317
6454615 6461902 6493973 6526362

- **119605-07 – SunOS 5.10: Patch for Japanese JDS messages**

6250683 6263015 6176784 6308186 6336423 6408317 6454615 6461902 6493973 6526362

- **119648-03 – SunOS 5.10: vlan driver patch**

5097913 6216827 6421519 6313896

- **119703-09 – SunOS 5.10: Patch for localeadm issues**

6293965 6192791 6286551 6189823 6252055 6249315 6338196 6339465 6350486 6384012 6390202
6412760 6221121 6221131 6416912 6430375 6430484 6408147 6423974 6237192 6423979 6339607
6197142 6526633

- **119721-02 – SunOS 5.10: usr/lib/efcode/sparcv9/interpreter patch**

6251093 6281038

- **119728-03 – SunOS 5.10: FJSV,GPUU platform fmd.conf patch**

6249544 6265507 6369580 6392462

- **119757-07 – SunOS 5.10: Samba patch**

4768591 5080288 5100732 6174211 6179361 6185348 6217228 6218964 6248115 6248953 6254372
6267187 6310561 6332751 6344828 6345488 6362017 6379618 6401467 6406753 6408839 6412838
6444725 6446200 6447666 6464952 6482687 6506636 6518705 6521788 6556138 6557101 6563383
6564928

- **119764-05 – SunOS 5.10 : ipmitool patch**

6209442 6266203 6266225 6344396 6397856 6433094

- **119766-02 – SunOS 5.10 : SunFreeware man pages patch**

6209442 6266203 6266225

- **119771-02 – SunOS 5.10: Asian CCK locales patch**

6246438 6357520 6452120 6477325

- **119783-03 – SunOS 5.10 : bind patch**

6192028 6226796 6308420 6350145 6361078 6414518 6422073 6461587 6461591 6532492

- **119797-14 – SunOS 5.10: CDE Localization message patch**

6259957 6299116 6279262 6309630 6375502 6345512 6382640 6395838 6402802 6228181 6472278
6496814 6523248 6533231 6537588

- **119810-04 – SunOS 5.10: International Components for Unicode Patch**

4785261 6217550 6354379 6410112 6511431

- **119812-04 – X11 6.6.2: Freetype patch**

6229445 6292556 6425531 6466790 6539893 6542352

- **119814-16 – SunOS 5.10: OS Japanese manpages patch**

6262660 6261964 6317482 6373667 6396026 6443861 6474177 6548283 6362324

- **119844-06 – SunOS 5.10: Patch for Southern Europe Region locale issues**

6255292 6249315 6338196 6347707 6315127 6336555 6318932 6375175 6403522 6346087 6280189
6395212 6316938 6484316

- **119845-05 – SunOS 5.10: Patch for Australasia Region locale issues**

6255292 6249315 6338196 6318932 6346087 6280189 6395212 6316938 6484316

- **119876-05 – SunOS 5.10: FJSV,GPUU platform links patch**

6265507 6285132 6343503 6348606 6369580

- **119890-03 – GNOME 2.6.0: search tool Patch**

6253916 5072526 6234957

- **119900-03 – GNOME 2.6.0: Gnome libtiff - library for reading and writing TIFF Patch**

6203747 6321957 6377231 6412202

- **119903-02 – OpenWindows 3.7.3: Xview Patch**

4459703 6444095

- **119906-10 – Gnome 2.6.0: Virtual File System Framework patch**

5068327 6199955 6200485 6205707 6243455 6234855 6262830 6177074 6408294 6179500 6463564
6470281 6552805 6477272

- **119955-05 – CDE 1.6: Tooltalk Runtime patch for Solaris 10**

6206423 6235250 6347707 6328571 6257227 6548554 6548563

- **119963-08 – SunOS 5.10: Shared library patch for C++**

6242459 6244128 6244223 6253345 6300352 6283644 6244286 6274396 6304703 6326163 6339010
6393170 6406049 6319635 6421790 6432346

- **119974-08 – SunOS 5.10: fp plug-in for cfgadm**

6223856 6259488 6336260 6347707 6444373 6445889 6494611 6463935 6475039 6476151

- **119986-03 – SunOS 5.10: clri patch**

4913439 6194015 6421970

- **119988-01 – SunOS 5.10: sed patch**

4865669

- **120011-11 – SunOS 5.10: kernel patch**

1085341 1236941 1248254 1253974 4034947 4063945 4069191 4157198 4261677 4304959 4317114
4338634 4369168 4396195 4406529 4412959 4508683 4516075 4521202 4529113 4614772 4629135
4631155 4652746 4667251 4691104 4691624 4696964 4705220 4728609 4740951 4754856 4765561
4768758 4795652 4797442 4799697 4804793 4825216 4840845 4863327 4865670 4873799 4875480
4875636 4882852 4892188 4892867 4894692 4900516 4912568 4927198 4931229 4932150 4937832
4952533 4954703 4963280 4963285 4963287 4963315 4963361 4963362 4963365 4963368 4963372
4964162 4966416 4970365 4970475 4970596 4970603 4971371 4971789 4974005 4978063 4978517
4979596 4979830 4981132 4984263 4986360 4987141 4991139 4994285 4996426 4997903 5002139
5004247 5004701 5005887 5007891 5008923 5009112 5019131 5022506 5022513 5023347 5024997
5026227 5027528 5028908 5033325 5033725 5039325 5039559 5039974 5040248 5041214 5046881
5048068 5049028 5049946 5053609 5057154 5057756 5062168 5062645 5063193 5067964 5068886
5076562 5080012 5080843 5081834 5083131 5083593 5085664 5087929 5090022 5094575 5094589
5094814 5096736 5096886 5097644 5099921 5103071 5108961 6180161 6181364 6181751 6181773
6183842 6186472 6188656 6188861 6193493 6194576 6196062 6196716 6197234 6197410 6197606
6198296 6198523 6199119 6199500 6201153 6201866 6202015 6202359 6202564 6203833 6204066
6205056 6207181 6207403 6207705 6207974 6208638 6208976 6209214 6211662 6211845 6213631
6214106 6214460 6214687 6214698 6214824 6215000 6215066 6215509 6215817 6216286 6216464
6216522 6217454 6217718 6217870 6217899 6218014 6218030 6218168 6218378 6218993 6219101
6219146 6219276 6219389 6219636 6220012 6220119 6220136 6220169 6220366 6221091 6221396
6221553 6221584 6222025 6222046 6222477 6222529 6222935 6223178 6223353 6223370 6223375
6223674 6223908 6224192 6224685 6224806 6225323 6225601 6226428 6226635 6226862 6227744
6227969 6228013 6228358 6228652 6228655 6228760 6229087 6229145 6229583 6230025 6230033

6230146 6231291 6231450 6231466 6231467 6231468 6231612 6231905 6231964 6232253 6232309
6232648 6232671 6232870 6233613 6234525 6235141 6235271 6235357 6236011 6236015 6236019
6236023 6236029 6236885 6236895 6237001 6237196 6237363 6237411 6237801 6238177 6238277
6238962 6239551 6239739 6239838 6239840 6239984 6240363 6240605 6240909 6241740 6241782
6241837 6242059 6242262 6242434 6242768 6242993 6243434 6243770 6244042 6244217 6244343
6244408 6244411 6244642 6245233 6245378 6245401 6245935 6246898 6247126 6248163 6248414
6248700 6248745 6249025 6249135 6249718 6249813 6250211 6252216 6253744 6253934 6254029
6254145 6254191 6254431 6254960 6255593 6256157 6256312 6256372 6256581 6258318 6258804
6258976 6259341 6259973 6259998 6260523 6260724 6261002 6261084 6261685 6261894 6262086
6262333 6262573 6263096 6264137 6264225 6264487 6264573 6264753 6265017 6265403 6265417
6265494 6265542 6265569 6265737 6266155 6266365 6266851 6266870 6266950 6266978 6267684
6267748 6267828 6268124 6268224 6268229 6268916 6269042 6269046 6269200 6269422 6269601
6269607 6269805 6270212 6270215 6270225 6272558 6272568 6272993 6273003 6273316 6274184
6274647 6274653 6274668 6274840 6274877 6275585 6275597 6276101 6276515 6276916 6276925
6276979 6277961 6278018 6278068 6278192 6278442 6278983 6280209 6280390 6281100 6281113
6281202 6281206 6281236 6281585 6281772 6281951 6282049 6282121 6282214 6282641 6282866
6283165 6283570 6283655 6284455 6284640 6284864 6284880 6284968 6285539 6285735 6286167
6286434 6286625 6287497 6288029 6288488 6289221 6289517 6289595 6290613 6291378 6292050
6292076 6292874 6292928 6293006 6293271 6293332 6294795 6295037 6295417 6295554 6295588
6295662 6295808 6296681 6297849 6298425 6298438 6298484 6298972 6298974 6298981 6299045
6299048 6299091 6299480 6299947 6300246 6300280 6300853 6301080 6301082 6301083 6301084
6301086 6301087 6301088 6301091 6301500 6301942 6302167 6302778 6302802 6302827 6303236
6303398 6303418 6303593 6303594 6303764 6303770 6304206 6304467 6304566 6304815 6304960
6305400 6305443 6305465 6305641 6305794 6305824 6306370 6306667 6306668 6307146 6307274
6307457 6307498 6307539 6307568 6307994 6308413 6308632 6308796 6308939 6308948 6308953
6308974 6309410 6309430 6309681 6310003 6310079 6310083 6310438 6311010 6311020 6311037
6311268 6311713 6311947 6311952 6311956 6311958 6311960 6311963 6311975 6311976 6312034
6312329 6312678 6312914 6313012 6313214 6313488 6313519 6313638 6313668 6313670 6313929
6314073 6314098 6314433 6314444 6314484 6314996 6315028 6315033 6315034 6315035 6315037
6315087 6315190 6315975 6316660 6316708 6317027 6317107 6317350 6318308 6318536 6319069
6320437 6320438 6320439 6320440 6320443 6320445 6320447 6320449 6320651 6320871 6320980
6321016 6321244 6321272 6321353 6321414 6321540 6321858 6322005 6322205 6322258 6322272
6322672 6322760 6323319 6323322 6323393 6323531 6323554 6323578 6324149 6324319 6324582
6324924 6324927 6325373 6325408 6325885 6326077 6326078 6326173 6326497 6326505 6326531
6326584 6326650 6326664 6326737 6326764 6326796 6326834 6327032 6327139 6327926 6328144
6328222 6328758 6329025 6329114 6330081 6330111 6330766 6330782 6330787 6331093 6331159
6331216 6331246 6331916 6331963 6332245 6332338 6332347 6332352 6332476 6332721 6332949
6333081 6333184 6333617 6333693 6333857 6334208 6334300 6334512 6334655 6335025 6335370
6335522 6335549 6337221 6337298 6337437 6337595 6338002 6338081 6338136 6338289 6338331
6338386 6338570 6338653 6339368 6339712 6339759 6339778 6340028 6340196 6340621 6340650
6340770 6340814 6341429 6341569 6342781 6342823 6342977 6343055 6343157 6343419 6343741
6344186 6345056 6345158 6345226 6345552 6345560 6345690 6345758 6345809 6346183 6346926
6347364 6348180 6348407 6348585 6349088 6349228 6349494 6349906 6349987 6350027 6350216
6350217 6350219 6350221 6350223 6350224 6350225 6350255 6350960 6351092 6351165 6351221
6351310 6351354 6351805 6351840 6351954 6352224 6352821 6353030 6353371 6353438 6353492
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6356708 6357600 6357764 6357949 6358718 6359116 6359179 6359264 6359306 6359805 6359831
6359850 6360218 6360437 6360442 6360749 6360764 6360864 6360928 6361478 6361949 6362044

6362047 6362334 6362338 6362641 6362855 6363303 6363393 6363495 6363503 6364267 6364447
6364643 6365335 6365741 6365742 6365743 6366097 6366244 6366301 6366758 6366821 6366825
6366883 6367031 6367044 6367046 6367047 6367049 6367051 6367053 6367057 6367061 6367063
6367067 6367068 6367069 6367070 6367073 6367075 6367103 6367222 6367520 6367840 6367959
6367985 6368078 6368142 6368315 6368524 6368526 6368529 6368630 6368690 6368751 6368763
6368850 6369094 6369116 6369408 6369582 6369648 6369763 6369771 6369961 6370137 6370154
6370284 6370454 6370506 6370693 6370798 6370802 6370963 6371490 6371671 6371877 6371967
6372082 6372151 6372620 6373071 6373233 6373298 6373322 6373357 6373697 6373978 6374138
6374560 6374596 6374606 6375481 6375797 6375841 6376283 6376555 6376743 6376800 6376848
6377319 6377362 6377640 6378297 6378364 6378676 6378766 6378979 6379249 6379285 6379341
6379498 6379529 6379717 6379905 6379909 6380322 6380434 6380470 6380913 6381022 6381059
6381288 6381319 6381344 6381543 6382945 6383188 6383225 6384263 6384324 6384371 6384565
6384727 6384962 6385004 6385007 6385042 6385349 6385436 6385479 6385516 6385609 6385726
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6388946 6388986 6389056 6389264 6389273 6389326 6389646 6389650 6389931 6390004 6390074
6390114 6390119 6390205 6390232 6390239 6390248 6390296 6390378 6390410 6390449 6390617
6390709 6390838 6391051 6391117 6391121 6391249 6391591 6391605 6391685 6391774 6391893
6392059 6392166 6392223 6392438 6392467 6392513 6392589 6392656 6392748 6393109 6393251
6393356 6393362 6393431 6393490 6393525 6393796 6393895 6394197 6394273 6394546 6394554
6395124 6395385 6395837 6395902 6395954 6396823 6397007 6397052 6397053 6397146 6397148
6397256 6397762 6397830 6397847 6397853 6397915 6398161 6398506 6398893 6399242 6399888
6399897 6399915 6399963 6399981 6400068 6400662 6400664 6400675 6400688 6400758 6400763
6401068 6401219 6401400 6401506 6401695 6401817 6401916 6402114 6402533 6402556 6402600
6402653 6402737 6402781 6402814 6403267 6403510 6403995 6404017 6404051 6404171 6404207
6404280 6404290 6404310 6404315 6404563 6404654 6404729 6404765 6404877 6405012 6405233
6405330 6405338 6405380 6405400 6405658 6405773 6405777 6405807 6405927 6405929 6405932
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6409758 6410027 6410294 6410433 6410878 6411163 6411190 6411400 6411683 6411790 6412077
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6419826 6419880 6420135 6420204 6420272 6420438 6420985 6421202 6421883 6421886 6421992
6422023 6422488 6422929 6422933 6423051 6423412 6423486 6423747 6423808 6424132 6424466
6424543 6424550 6424554 6424653 6424735 6424822 6424853 6424883 6425012 6425063 6425111
6425322 6425335 6425736 6425740 6425930 6426048 6426129 6426172 6426469 6426542 6426755
6426760 6426868 6426934 6426980 6427002 6427444 6427559 6427784 6428008 6428204 6428347
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6431982 6432394 6432428 6432471 6433208 6433264 6433292 6433406 6433408 6433451 6433511
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6435943 6436000 6436283 6436303 6436325 6436336 6436364 6436368 6436514 6436524 6436526
6436760 6436800 6436841 6436853 6436999 6437173 6437366 6437409 6437466 6437472 6437734
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6439102 6439370 6439774 6439953 6440121 6440123 6440263 6440338 6440415 6440499 6440515

6440592 6440684 6440743 6441349 6441384 6441577 6441878 6442165 6442252 6442443 6442804
6442821 6442921 6443020 6443201 6443338 6443585 6443592 6443679 6443849 6443858 6443891
6444031 6444087 6444147 6444346 6444620 6444691 6444692 6444746 6445128 6445172 6445356
6445492 6445680 6445751 6445761 6445769 6445772 6445821 6446060 6446309 6446503 6446512
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6447631 6447701 6447715 6447800 6447838 6447914 6448006 6448139 6448141 6448184 6448326
6448371 6448515 6448544 6448732 6448747 6448919 6448999 6449033 6449272 6449278 6449337
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6450749 6450816 6451061 6451124 6451146 6451198 6451217 6451382 6451412 6451427 6451494
6451727 6451741 6451781 6451860 6452077 6452372 6452420 6452474 6452591 6452685 6452786
6452923 6453026 6453090 6453157 6453172 6453304 6453410 6453470 6453594 6453678 6453732
6453862 6454066 6454140 6454158 6454375 6454420 6454551 6454629 6455124 6455174 6455228
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6455591 6456284 6456365 6456379 6456412 6456456 6456465 6456573 6456626 6456642 6456830
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6457865 6457918 6457970 6458006 6458028 6458058 6458059 6458128 6458158 6458218 6458281
6458309 6458323 6458410 6458571 6458595 6458614 6458638 6458639 6458668 6458678 6458683
6458691 6458704 6458781 6458962 6458970 6459301 6459500 6459708 6459866 6459954 6460043
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6461223 6461268 6461278 6461283 6461311 6461365 6461424 6461427 6461438 6461522 6461609
6461633 6461757 6461784 6461988 6462114 6462124 6462151 6462174 6462185 6462189 6462355
6462462 6462530 6462638 6462748 6462995 6463069 6463140 6463144 6463219 6463226 6463348
6463349 6463350 6463364 6463482 6463524 6463536 6463788 6463857 6463917 6463920 6464106
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6465594 6465623 6465634 6465639 6466047 6466078 6466208 6466248 6466257 6466329 6466340
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6469790 6469830 6469900 6469902 6469929 6469953 6470042 6470060 6470132 6470348 6470374
6470489 6470504 6470725 6470732 6470764 6470782 6470870 6470966 6471094 6471255 6471322
6471359 6471363 6471429 6471677 6471679 6471712 6471718 6471923 6471974 6472019 6472021
6472061 6472171 6472230 6472255 6472389 6472843 6473179 6473215 6473237 6473297 6473299
6473349 6473418 6473457 6473618 6473639 6473775 6473791 6473925 6473996 6474029 6474091
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6476273 6476279 6476321 6476339 6476437 6476457 6476506 6476516 6476517 6476543 6476663
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6477746 6477900 6477912 6478028 6478137 6478246 6478353 6478363 6478388 6478675 6478928
6478974 6478999 6479024 6479036 6479209 6479451 6479473 6479497 6479498 6479553 6479563
6479638 6479675 6479721 6479724 6479756 6479813 6479822 6479828 6479863 6479888 6479912
6480230 6480245 6480255 6480505 6480516 6480626 6480627 6480790 6480791 6480815 6480849
6480901 6480903 6480942 6480959 6481313 6481326 6481387 6481460 6481563 6481603 6481731
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6483975 6484044 6484106 6484194 6484558 6484731 6484743 6484763 6484895 6485057 6485164
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6485781 6485943 6485955 6486288 6486343 6486390 6486397 6486404 6486415 6486465 6486472
6486496 6486513 6486515 6486575 6486651 6486746 6486893 6486952 6487273 6487284 6487360
6487440 6487493 6487521 6487534 6487719 6487770 6487857 6487908 6487958 6488115 6488124
6488370 6488547 6488636 6488652 6488665 6488812 6488843 6488985 6489058 6489095 6489149
6489152 6489169 6489363 6489393 6489459 6489548 6489593 6489651 6489671 6489687 6489714
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6493146 6493179 6493200 6493272 6493605 6493625 6493672 6493685 6493750 6493833 6493923
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6496346 6496347 6496350 6496356 6496357 6496359 6496365 6496374 6496416 6496424 6496648
6496740 6496754 6496763 6496941 6497211 6497563 6497625 6497668 6497698 6497789 6498161
6498164 6498264 6498283 6498305 6498408 6498483 6498635 6498830 6498986 6499244 6499328
6499454 6499459 6499476 6499483 6499493 6499670 6499804 6499865 6499891 6499997 6500027
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6501789 6502193 6502201 6502268 6502598 6502647 6502648 6502649 6502676 6502745 6502748
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6503790 6503810 6503812 6503848 6503922 6503997 6504039 6504058 6504130 6504195 6504199
6504229 6504386 6504424 6504688 6504702 6504958 6505181 6505189 6505225 6505266 6505360
6505361 6505445 6505472 6505570 6505625 6505658 6505765 6505896 6505933 6506356 6506506
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6510807 6510852 6510853 6510861 6511088 6511393 6511442 6511578 6511583 6511600 6511976
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6516265 6516581 6516610 6516629 6516642 6516660 6516668 6516755 6516929 6517019 6517390
6517451 6517846 6517852 6517883 6518224 6518397 6518432 6518531 6518710 6518780 6519043
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6526404 6526418 6526814 6526815 6526874 6526896 6526932 6527020 6527134 6527265 6527301
6527325 6527403 6527494 6527632 6527676 6527710 6528180 6528274 6528546 6528668 6528692
6528758 6528890 6528972 6529081 6529109 6529406 6529447 6529454 6529767 6530040 6530134
6530178 6530288 6531453 6531474 6532056 6532442 6533511 6533554 6533562 6533769 6533836
6533868 6533914 6534102 6534147 6534183 6534269 6534449 6534471 6534624 6535016 6535224
6535506 6535564 6535712 6535743 6535824 6536454 6536641 6537357 6537358 6537512 6538001
6538049 6538410 6538844 6539337 6539449 6539482 6539615 6539844 6539905 6540669 6541014
6541025 6541094 6541671 6541703 6541766 6542408 6542621 6542632 6542658 6543001 6543436
6543658 6544618 6544832 6545015 6545032 6545187 6545387 6545556 6545833 6546644 6547155
6547651 6548196 6548711 6548762 6549112 6549689 6550086 6550762 6551395 6552083 6552788
6553151 6553296 6553331 6553350 6553352 6553649 6553905 6554095 6554938 6555071 6555465

6555525 6555550 6555977 6556036 6556443 6556695 6556697 6556698 6559832 6560567 6561413
6564502 6564556

- **120038-01 – SunOS 5.10: sadc patch**

6257191

- **120044-01 – SunOS 5.10: psrset patch**

6248421

- **120056-02 – SunOS 5.10: hpc3130 Patch**

6249526 6283570

- **120061-02 – SunOS 5.10: glm patch**

5026812 5091622 6208932 6258111 6350993

- **120062-01 – SunOS 5.10: localedef Patch**

6274427 6287593

- **120064-01 – SunOS 5.10: stdio_iso.h Patch**

6266832

- **120094-12 – X11 6.6.2: xscreensaver patch**

6237901 6267306 6228023 6203951 4806728 4818062 6368558 6368607 6369021 6346056 6232241
6333226 6417168 5015296 6256520 6373797 6423730 5077974 5083155 6240938 6450019 6456499
6388473 6406200 6395649 6461887 6478362 6478841 6451477

- **120099-08 – APOC 1.2: Sun Java(tm) Desktop System Configuration Shared Libraries**

6265312 6278049 6293945 6363692 6387982 6406269 6442745 6512760 6527486

- **120101-01 – SunOS 5.10: libsmmedia patch**

6240296

- **120128-02 – SunOS 5.10: xargs patch**

6203159 6323628

- **120195-02 – SunOS 5.10: patch schpc sc_gptwocfg gptwo_pci**

5076027 6252214

- **120199-10 – SunOS 5.10: sysidtool Patch**

4716085 5110062 6194680 6220706 6239897 6268847 6404131 6404878 6421783 6438773 6439322
6445230 6555501

- **120201-03 – X11 6.8.0: Xorg client libraries patch**

6248315 6366603 6347707 6504462 6489660

- **120222-20 – SunOS 5.10: Emulex-Sun LightPulse Fibre Channel Adapter driver**

6248456 6248899 6252273 6252308 6252633 6252767 6264417 6273321 6273949 6275529 6276730
6277406 6281068 6281270 6281938 6284688 6286283 6286352 6290648 6291133 6296689 6299387
6300078 6301627 6312068 6314407 6319648 6323974 6325753 6329384 6329972 6331152 6333054
6333059 6336547 6339616 6339679 6339682 6340896 6340901 6342203 6343904 6344012 6348810
6350753 6364395 6381360 6383122 6385881 6386425 6392218 6400647 6408870 6436873 6443455
6447084 6462658 6467485 6468515 6469813 6469819 6482048 6482413 6482541 6482617 6482630
6483985 6484005 6488246 6490673 6497681 6510934 6512195 6513802 6514128 6526703 6535567
6535797 6540057 6544085 6553876 6561873

- **120224-06 – SunOS 5.10: SPECIAL PATCH: Emulex-Sun Fibre Channel Adapter driver**

6267262 6325753 6333054 6333059 6340896 6340901 6447084 6466086 6513802

- **120235-01 – SunOS 5.10: Live Upgrade Zones Support Patch**

6275557

- **120256-01 – SunOS 5.10: hci1394 Patch**

6260567 6286705

- **120272-12 – SunOS 5.10: SMA patch**

6191915 6243363 6243366 6244918 6247942 6298133 6299309 6314112 6314978 6347707 6349493
6349495 6349499 6349501 6367337 6368319 6408492 6420118 6426297 6438781 6441943 6472768
6473670 6487782 6490830 6494645 6496216 6498228 6503504 6536316 6553315 6540271

- **120274-01 – SunOS 5.10: SPECIAL PATCH: For postinstall File**

6191915

- **120282-02 – GNOME 2.6.0: Gnome CD Player Utility Patch**

5053909 6210011 6387160

- **120284-05 – GNOME 2.6.0: GNOME CORBA ORB and component framework**

6235648 6238754 6295858 6440951 6466464 6542835

- **120286-02 – GNOME 2.6.0: Gnome text editor Patch**

4937266 6355577 5092704 6347229

- **120288-03 – GNOME 2.6.0: Gnome terminal Patch**

6241338 6242857 6303664 6430930

- **120292-01 – SunOS 5.10 : mysql patch**
6258187
- **120294-01 – SunOS 5.10 : mysql man patch**
6258187
- **120311-02 – SunOS 5.10: FRESHBIT ONLY PATCH: For deletes file**
6178746
- **120329-02 – SunOS 5.10: rexec patch**
6245588 6371429
- **120335-04 – SunOS 5.10: Sun Update Connection Client Localization**
- **120338-05 – SunOS 5.10: Asian CCK locales patch**
6279310 6285930 6347707
- **120344-01 – SunOS 5.10: SPECIAL PATCH: Common Fibre Channel HBA API Library Script Patch**
6202863 6239116
- **120346-08 – SunOS 5.10: Common Fibre Channel HBA API and Host Bus Adapter Libraries**

6202863 6210435 6223854 6239116 6288908 6306254 6334772 6336260 6347707 6405584 6443728
6486601 6494611 6520054 6534722 6544955

- **120348-02 – SunOS 5.10: Fibre Channel HBA Port utility**
6380685 6494611
- **120410-21 – SunOS 5.10: Internet/Intranet Input Method Framework patch**

6362324 6439551 6439552 6380740 6388754 6389513 6373635 6404462 6429880 6433315 6436040
6443828 6418820 6461075 6463540 6456236 6449856 6400652 6458335 6503085 6521711 6303084
6319383 6368739 6468167 6519571 6501702 6467756 6458025 6566160 6531459 6446303 6538703
6542344 6562940 6562961

- **120412-06 – SunOS 5.10: Simplified Chinese locale patch**
6362324 6388988 6394129
- **120414-17 – SunOS 5.10: Asian CCK locales patch**

4916340 5024604 6263482 6267785 6285934 6299102 6362324 6433155 6388988 6412046 6462957
6446836 6432120 6474087 6501702 6394129 6521643

- **120416-06 – SunOS 5.10: SPECIAL PATCH: class action scripts patch**

6362324 6399243 6415636 6388988 6216641

- **120450-01 – SunOS 5.10: get_netmask Utility Patch**

4218092

- **120452-01 – SunOS 5.10: SPECIAL PATCH: For editable files only**

5006767

- **120454-02 – GNOME 2.6.0: Gnome Apoc GConf Adapter Patch**

6281517 6397519

- **120456-01 – GNOME 2.6.0: Gnome image viewer Patch**

6288517

- **120458-01 – GNOME 2.6.0: Gnome configuration Patch**

6293945

- **120460-11 – GNOME 2.6.0: Gnome libs Patch**

6242857 5087948 5088844 6216594 6306889 6301837 6231341 6305090 6347224 6348450 6394047
6393698 6393714 6393724 6393731 6405059 6404437 6402894 6428130 6375968 6471890 6521773

- **120462-08 – SunOS 5.10: FUJITSU PCI GigabitEthernet 2.0 patch**

6263610 6314180 6314192 6326340 6328936 6389287 6389294 6389298 6411854 6411855 6411856
6489608 6489609 6489610 6536495

- **120543-09 – SunOS 5.10: Apache 2 Patch**

6222168 6228840 6257414 6283480 6301799 6367565 6373222 6378495 6419373 6423037 6452767
6453503 6461151 6482942 6487586 6502023 6528378

- **120560-02 – SunOS 5.10: sun4u platform links patch**

6297712 6342066 6377979

- **120618-01 – SunOS 5.10: mailx patch**

6233613 6237411

- **120690-01 – SunOS 5.10: SPECIAL PATCH : For depend File**

6299541

- **120704-01 – SunOS 5.10 : smartcard man patch**

6310070

- **120706-02 – SunOS 5.10: XIL 1.4.2 Loadable Pipeline Libraries**

6255091 6357678

- **120719-02 – SunOS 5.10 : SunFreeware gzip patch**

6283819 6294656 6454453 6470484

- **120732-01 – SunOS 5.10 : libusb patch**

5033202 6251518 6251836 6272172

- **120737-01 – SunOS 5.10: FX patch**

6251636

- **120739-03 – GNOME 2.6.0: GNOME PDF Viewer based on Xpdf**

6219093 6294547 6418897

- **120741-01 – SunOS 5.10: seg_map header file patch**

6264443

- **120746-01 – SunOS 5.10_sparc, SUNWswmt patch**

6314804

- **120753-05 – SunOS 5.10: Microtasking libraries (libmtsk) patch**

4640927 5105585 6176541 6224639 6266200 6281454 6284576 6292619 6308531 6315352 6347707
 6321653 6337239 6352080 6358139 6364604 6383140 6406413 6420938 6452506 6465769 6510918
 6513016 6518824 6525745

- **120807-01 – SunOS 5.10: rpc.mdcommd patch**

6290815

- **120811-05 – SunOS 5.10: FUJITSU PCI Fibre Channel Driver 3.0 patch**

6320887 6320888 6320889 6320890 6320891 6390434 6390438 6390442 6458277 6503309 6503310
 6532173 6532174 6532175 6532176

- **120812-18 – OpenGL 1.5: OpenGL Patch for Solaris**

6319713 6329031 6304867 6310706 6325241 6320884 6318796 6331251 6331516 6336456 4898884
 6182277 6319762 6337931 6370332 6372166 6378129 6331508 6315618 6334385 6364166 6374033
 6377389 6378207 6381610 6390277 6395879 6390026 6395712 6401397 6406474 6407746 6416582
 6406701 6393151 6422606 6422765 6423678 6426814 6424131 6425010 6439494 6450137 6450143
 6441146 6448080 6425711 6456988 6453221 6461379 6231225 6460443 6466601 6465810 6457370
 6480786 6484429 6480397 6497288 6499862 6502759 6505039 6511101 6513834 6505769 6524712
 6532426 6525525 6532662 6532832 6532296 6541065 6544600

- **120815-01 – SunOS 5.10: dmfe patch**

5067101

- **120816-01 – SunOS 5.10: at and batch Patch**

6208425

- **120825-01 – SunOS 5.10: SPECIAL PATCH: FJSVpiclu depend file**

6318307

- **120830-05 – SunOS 5.10: vi and ex patch**

6208422 6219736 6219754 6320769 6320774 6320778 6320781 6320783

- **120837-01 – SunOS 5.10: SPECIAL PATCH: For DEPEND Files**

6213629 6317245

- **120873-06 – SunOS 5.10: xscreensaver localization message patch**

6203951 6316915 6388099 6404846 6417480 6549999

- **120889-01 – SunOS 5.10: librac patch**

6297767

- **120900-04 – SunOS 5.10: libzonecfg Patch**

6200896 6218854 6328286 6346201 6400792

- **120928-19 – SunOS 5.10: Sun XVR-2500 Graphics Accelerator Patch**

6205581 6234713 6238000 6265574 6265643 6305850 6307350 6307629 6309117 6314730 6316467
6320112 6325762 6327283 6334385 6334397 6336633 6336694 6336810 6337380 6338638 6339673
6342123 6344057 6345188 6345789 6351522 6356543 6356574 6358136 6359124 6359915 6360556
6368899 6376512 6384945 6386449 6389874 6391204 6397140 6400329 6401206 6401718 6406755
6407749 6409222 6417196 6419816 6425030 6429587 6432929 6437009 6441945 6441948 6443032
6444128 6448736 6456348 6457370 6462826 6466702 6467437 6467917 6468098 6472489 6474345
6474946 6475656 6476422 6476913 6480938 6485625 6487912 6489637 6492275 6492450 6493283
6494723 6497290 6499868 6504362 6502754 6503777 6503937 6505477 6505758 6513976 6518056
6529547 6525525 6527310 6536145 6540768 6527785 6543724 6548221 6554065 6553082 6540228
6556634

- **120932-01 – Solaris 10 U1: Live Upgrade to S10U1 fails due to checkinstall script**

6320417

- **120934-01 – Solaris 10 U1: Live Upgrade to S10U1 fails due to SUNWcccr postinattall**

6320433

- **120984-01 – SunOS 5.10: nss_user.so.1 Patch**

- 6235336
- **120988-01 – SunOS 5.10: grpck Patch**
- 6221968
- **120992-02 – SunOS 5.10: nfs_clnt.h and nfs4_clnt.h Patch**
- 6266836 6282389
- **120994-01 – SunOS 5.10: elf_amd64.h Patch**
- 6236594
- **121002-03 – SunOS 5.10: pax patch**
- 6300407 6324879 6383586
- **121004-03 – SunOS 5.10: sh patch**
- 6277636 6388209 6471812
- **121012-02 – SunOS 5.10: traceroute patch**
- 6238818 6290611 6290623 6291147 6291879 6298211 6298351
- **121036-01 – Gnome 2.6.0: base libraries patch**
- 6215709
- **121061-01 – SunOS 5.10: motd Patch**
- 6222495
- **121081-06 – SunOS 5.10: Connected Customer Agents 1.1.0**
- 6450206 6410428 6304558 6319108 6300369 6395708 6392682
- **121095-01 – GNOME 2.6.0: GNOME EXIF tag parsing library for digital cameras**
- 6257383
- **121104-02 – Adobe Acrobat Reader patch**
- 6300634 6333477 6338781 6526702
- **121118-12 – SunOS 5.10: Sun Update Connection System Client 1.0.9**

4985449 4986258 5002316 5022653 5023766 5029322 5031178 5066299 5075120 6236910 6238567
6241235 6242319 6253356 6266869 6273655 6276248 6282393 6283475 6285415 6286401 6290732
6301964 6302734 6303345 6303347 6304050 6304752 6304766 6305271 6305349 6309151 6311346
6311982 6315572 6316079 6316614 6316714 6317612 6318386 6320362 6326062 6326563 6327311
6327736 6327855 6328282 6329912 6330775 6331302 6331953 6334463 6334470 6335197 6336315
6336989 6337321 6337356 6340355 6340362 6341454 6350073 6350209 6350232 6354986 6355539

6355862 6356114 6356149 6358651 6359761 6360451 6360929 6361188 6361487 6362146 6362166
6362828 6362887 6363403 6363941 6364454 6364707 6366823 6367722 6370198 6372108 6372139
6372274 6372515 6372563 6373939 6373946 6374784 6376004 6377932 6378893 6381063 6381140
6381322 6382007 6382999 6383012 6383176 6383224 6383315 6383653 6384634 6385661 6385673
6386168 6386364 6389805 6390448 6391266 6393075 6395034 6395316 6395874 6398238 6398433
6399218 6401173 6401777 6402500 6404859 6404885 6406720 6407897 6407904 6408365 6408544
6408613 6409482 6410140 6410531 6410538 6410539 6410542 6410544 6410545 6411679 6414005
6414159 6414343 6414657 6416609 6418687 6425987 6426181 6427463 6427757 6429333 6429336
6429338 6429340 6429345 6429347 6430654 6431846 6431851 6433481 6433486 6433494 6434792
6436114 6437060 6437063 6437159 6439023 6440031 6440033 6444021 6448807 6448994 6449018
6453526 6455598 6455636 6455708 6456391 6460262 6461126 6469364 6469367 6469373 6471052
6471054 6478319 6478621 6479276 6481338 6484611 6484928 6488481 6491530 6491895 6504320
6504405 6507691 6508361 6508369 6508654 6508927 6508931 6509899 6510573 6511377 6511378
6511386 6537598 6503919 6426874 6450709 6465132 6517375 6520882 6525982 6513981 6546183

- **121128-01 – SunOS 5.10: lofs patch**

5034470

- **121130-01 – SunOS 5.10: librcm.so.1 patch**

5103374

- **121133-02 – SunOS 5.10: zones library and zones utility patch**

6200896 6317239 6328286 6329667 6339404 6346201 6393109 6400792 6415764

- **121136-01 – Adobe Acrobat Reader patch**

6300634

- **121239-02 – SunOS 5.10: libgss patch**

5008950 6203833 6410987

- **121265-03 – SunOS 5.10: libc_psr_hwcap1.so.1 patch**

6315997 6325559 6485804

- **121286-04 – SunOS 5.10: libfru.so.1 and libfrureg.so.1 patch**

6309900 6325788 6374002 6430721

- **121296-01 – SunOS 5.10: fgrep Patch**

6295261

- **121306-02 – SunOS 5.10: SPECIAL PATCH: For package level scripts only**

6323208 6336160

- **121308-10 – SunOS 5.10: Solaris Management Console Patch**

5016983 5090761 6179516 6183058 6365746 6365758 6378956 6383511 6389712 6396510 6407617
6434217 6434535 6461461 6513080

- **121336-04 – SunOS 5.10: FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 1.0 patch**

6342915 6342916 6342918 6398480 6489598 6551872 6551873

- **121337-01 – SunOS 5.10: tlimod patch**

6328296

- **121394-01 – SunOS 5.10: aio_impl.h patch**

4954646 6183621

- **121428-08 – SunOS 5.10: Live Upgrade Zones Support Patch**

5015838 6221561 6242607 6264796 6381089 6400541 6516904 6562966 6568343

- **121430-16 – SunOS 5.8 5.9 5.10: Live Upgrade Patch**

4873203 4992478 5015838 5106987 6221561 6221609 6224940 6252385 6252388 6253700 6263351
6264796 6265069 6284550 6286969 6297948 6297950 6317386 6319706 6319769 6320330 6322850
6322867 6322962 6328587 6332091 6335531 6336069 6336160 6339728 6347732 6357186 6365289
6367766 6381089 6390111 6395264 6398112 6405123 6411522 6411937 6420644 6432846 6468979
6473085 6474504 6477349 6480573 6497684 6508829 6523497 6523534 6526238 6543062 6553162
6561786

- **121453-02 – SunOS 5.10: Sun Update Connection Client Foundation**

6322616 6348676 6325141 6325580 6325603 6324926 6325021 6319981 6324894 6316500 6288010
6288194 6288300 6289010 6293659 6297756 6298489 6299025 6300171 6300219 6300355 6300794
6302650 6303352 6303587 6304558 6304563 6304786 6306155 6260830 6315572 6314437 6314341
6316780 6342800

- **121463-08 – GNOME 2.6.0: Gnome Accessibility Libraries Patch**

6347858 6340516 6358227 6386230 6431039 6377106 6437617 6534092 6554390

- **121487-01 – CDE 1.6: dtmail patch**

6337697

- **121549-01 – SunOS 5.10: SPECIAL PATCH: FJSVdrdr.us r.mainfest file**

6231947

- **121556-01 – SunOS 5.10: SUNW,Netra-CP3010 platform patch**

6237913 6313078

- **121557-01 – SunOS 5.10: SUNW,Netra-CP3010 usr/platform patch**

6237913 6336317

- **121558-01 – SunOS 5.10: SUNW,Netra-CP3010 platform patch**

6237913

- **121559-01 – SunOS 5.10: Netra-CP3010 libprtdiag_psr patch**

6237913 6336317

- **121561-04 – SunOS 5.10: keymap patch**

6277193 6361984 6362506 6366101 6381421 6452685

- **121575-01 – SunOS 5.10: SPECIAL PATCH: For package level scripts only**

6345097

- **121580-01 – SunOS 5.10: daktari and cherrystone header files patch**

6240925

- **121606-02 – GNOME 2.6.0: Python patch**

6199942 6247860 6318436 6318475 6340077 6484954

- **121620-02 – SunOS 5.10: Patch for mediaLib in Solaris**

6359985 6347707 6397621

- **121667-02 – SunOS 5.10 : pilot-link header patch**

6321205 6334598

- **121669-01 – SunOS 5.10: SunFreeware pilot-link man pages patch**

6321205

- **121671-01 – GNOME 2.6.0: SPECIAL PATCH for SUNWPython package**

6199942 6247860 6318436 6318475 6340077

- **121675-09 – SunOS 5.10: Japanese Input System ATOK patch**

6362324 6373667 6409794 6424740 6432726 6441936 6497081

- **121677-04 – SunOS 5.10: Japanese Input System Wnn patch**

6362324 6443559 6427007 6396016 6396007 6459245

- **121679-02 – SunOS 5.10: SPECIAL PATCH: Japanese Input System Wnn patch**

6362324

- **121721-01 – SunOS 5.10: SVM header files patch**

6263122

- **121734-07 – SunOS 5.10: patch to support addition of new UTF-8 locales**

6303757 6314560 6338821 4937197 6326805 6380372 6400651 6404973 6425697 6447274 6509175
6285387

- **121778-12 – SunOS 5.10: Script Patch**

4920408 4931229 5026812 6229153 6232332 6287428 6301944 6336517 6340983 4108775 6338660
6338653 6303973 6426899 6434795 6345641

- **121780-11 – SunOS 5.10: SPECIAL PATCH: For EDITABLE Files**

4831622 4920408 4931229 6178604 6232332 6301944 6353217 6313684 4108775 6299476 6338653
6403183 6377502 6427081 6426899 6345641

- **121870-01 – X11 6.6.2: xterm patch**

6315492

- **121923-01 – Gnome 2.6.0: GNOME CD Burner patch**

6210267

- **121944-02 – SunOS 5.10: libpsvcpolicy and libpsvcpolicy_psr patch**

6214188 6250164 6286821 6337779 6439953 6466844

- **121946-01 – SunOS 5.10: Error processing FRU tree: IO error patch**

6325788

- **121947-01 – SunOS 5.10: New Keyboards software needed**

6217588

- **121953-02 – SunOS 5.10: Localization patch for new EMEA FIGGS locales**

6321422 6388015

- **121975-01 – CDE 1.6: Xsession patch**

6354282

- **121977-03 – CDE 1.6: Dtlogin patch**

6309633 6386254 6537603 6537588

- **122005-01 – SunOS 5.10 : SunFreeware growisofs man pages**

6346516

- **122009-01 – SunOS 5.10: SunFreeware cdrtools patch**

6251877 6318184

- **122011-01 – SunOS 5.10: SunFreeware cdrtools man pages patch**

6251877 6318184

- **122021-01 – SunOS 5.10: SPECIAL PATCH: For depend File**

6251877 6318184

- **122031-01 – SunOS 5.10: cgsix Patch**

6246748

- **122083-02 – SunOS 5.10: fsck mirrored patch**

5044015 6273536 6331370

- **122085-01 – SunOS 5.10: nispasswd patch**

6225117

- **122087-01 – SunOS 5.10: LTC1427-connected fan device driver patch**

6176554

- **122119-05 – SunOS 5.10: Patch for Arabic Fonts**

6346091 6377955 6380993 6403522 6458616

- **122130-03 – SunOS 5.10: Patch to update SUNWlocaledefsrc files**

6345525 6432211 6316938 6484316 6435355 6505106

- **122172-06 – SunOS 5.10: swap swapadd isaexec patch**

6194015 6338653 6363824 6415521 6421970 6426755 6426760

- **122174-03 – SunOS 5.10: dumpadm patch**

6194015 6338653 6421970

- **122180-01 – SunOS 5.10: Patch for North African locale issues**

6348993

- **122204-02 – GNOME 2.6.0: configuration framework Patch**

6310437 6502229

- **122208-01 – GNOME 2.6.0: Removable Media Patch**

6207027

- **122210-01 – GNOME 2.6.0: GNOME Media Player Patch**

6370445

- **122212-19 – GNOME 2.6.0: GNOME Desktop Patch**

4788904 4899270 5011528 5028758 5032088 5037390 5037397 5054339 5054519 5056390 5072848
 5088581 5108742 6174227 6174239 6179500 6191372 6193275 6195818 6197950 6200000 6200326
 6200485 6202413 6202416 6203727 6205402 6208184 6209566 6210443 6211279 6214222 6214486
 6217648 6218072 6218831 6222326 6225051 6230090 6230098 6232275 6232578 6234837 6234894
 6237403 6238031 6239595 6239962 6244269 6247833 6248517 6250742 6251220 6253594 6255199
 6255964 6261299 6262830 6267922 6271501 6273175 6277164 6291127 6298139 6303219 6303664
 6312736 6312879 6314534 6317578 6324700 6340714 6340716 6347227 6347360 6354209 6363035
 6363752 6371901 6385401 6389444 6393698 6393714 6393724 6393731 6398671 6402088 6402894
 6404437 6405059 6405923 6418344 6421852 6424152 6424743 6426293 6426326 6429887 6432728
 6440923 6446935 6450436 6451420 6455491 6456363 6457141 6458563 6459430 6437405 6446780
 6404286 6464949 6464582 6457350 6456258 6406972 6472442 6427706 6354812 6486295 6491244
 6411797 6502936 6451577 6515121 6555135

- **122225-01 – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files**

6381140

- **122231-01 – SunOS 5.10 Sun Connection agents, transport certificate update**

6379777

- **122239-01 – SunOS 5.10: Apache 2 mod_perl Perl cgi patch**

6289386

- **122255-04 – SunOS 5.10: etc/flash/precreation/caplib patch**

5062145 6261859 6297798 6357980 6370222 6370368 6371413 6376429 6376682 6428121 6446353

- **122259-01 – SunOS 5.10: SunFreeware gnu esp ghostscript patch**

6333285 6343050 6360710 6360803

- **122261-01 – SunOS 5.10: SunFreeware ghostscript man pages patch**

6333285 6343050 6360710 6360803

- **122263-01 – SunOS 5.10: SPECIAL PATCH: fp plug-in for cfgadm**

6319165

- **122363-02 – SunOS 5.10: fru_container.conf and libfruaccess.so.1 patch**

6365800 6439953

- **122376-01 – SunOS 5.10: prex patch**

6403612

- **122408-01 – SunOS 5.10: libmtmalloc patch**

6217567

- **122416-05 – SunOS 5.10: SPECIAL PATCH: class action scripts patch**

6318539 6487776 6550329 6556126 6482783 6567235

- **122418-01 – SunOS 5.10: Fix Garbled Message Issues for Ru**

6363262

- **122422-03 – SunOS 5.10: add missing locale files for Mozilla**

6387991 6403436 6419527 6418839

- **122424-01 – SunOS 5.10: Mozilla default bookmarks patch**

6412687

- **122470-02 – Gnome 2.6.0: GNOME Java Help Patch**

6364981 6434498

- **122487-06 – SunOS 5.10: Patch for Middle Eastern Region locale issue**

6380993 6403522 6411975 6395212 6316938 6484316 6565869

- **122515-01 – SunOS 5.10: boston platform patch**

6313684 6342066

- **122517-03 – SunOS 5.10: Sun Fire V215/V245 platmod patch**

6313684 6328752 6342066 6360332 6372133 6405176 6455769

- **122525-03 – SunOS 5.10: Sun Fire V445 patch**

6313684 6328752 6342066 6365052 6372133 6373525 6405176 6455769

- **122537-02 – SunOS 5.10: libpiclcnvmon.so.1 patch**

6394558 6439953

- **122640-05 – SunOS 5.10: zfs genesis patch**

6276934 6280668 6285992 6322005 6322205 6335370 6338081 6338386 6338653 6341429 6343608
6365101 6381344 6392291 6393003 6393443 6395670 6396049 6396628 6397071 6397267 6398177
6398380 6398622 6398664 6398713 6399272 6399301 6399767 6399899 6399918 6399930 6400742
6402388 6402569 6402598 6403294 6405008 6406959 6407365 6407366 6407367 6407377 6407444
6407635 6407791 6407842 6408482 6409927 6410371 6410698 6410700 6410709 6410711 6410836
6411780 6413125 6413573 6413731 6416101 6420920 6422565 6423046 6424405 6426323 6435700

- **122669-01 – Evolution 1.4.6: Cryptographic Library patch**

6316976

- **122675-01 – SunOS 5.10 : SunFreeware samba man pages patch**

4768591 6174211 6332751 6344828 6362017 6379618

- **122700-02 – GNOME 2.6.0: Gnome libs CAS Patch**

6348450 6394047 6399245

- **122735-01 – CDE 1.6: backdrops patch**

6385021

- **122754-01 – SunOS 5.10: Exacct catalogue patch**

5076562 5083131 6181364 6183842 6202015 6216286 6219101 6220169 6221584 6222529 6223178
 6229087 6229583 6230033 6232253 6232309 6237801 6255593 6264225 6265569 6266851 6267828
 6272568 6281100 6281113 6282049 6284455 6286625 6295417 6298484 6298972 6298974 6298981
 6305465 6307994 6309430 6310438 6313638 6313668 6313670 6314073 6322672 6323319 6323322
 6323393 6323554 6328144 6331093 6332245 6333184 6333617 6335522 6335549 6342823 6342977
 6346926 6354842 6356155 6359264 6359850 6363503 6365335 6365742 6365743 6366758 6366821
 6366825 6367031 6367044 6367046 6367047 6367049 6367051 6367053 6367057 6367061 6367063
 6367067 6367068 6367069 6367070 6367073 6367075 6367222 6367985 6368526 6368690 6369961
 6370284 6370798 6370802 6371490 6372151 6373071 6376283 6377319 6377640 6378297 6378676
 6379498 6381022 6383188 6384565 6384727 6385004 6385007 6385479 6385516 6388986 6389646
 6389650 6390114 6390119 6390205 6390232 6390296 6390617 6390709 6391117 6391121 6391774
 6392166 6392223 6392467 6393356 6393362 6395385 6397762 6397830 6398161

- **122761-01 – SunOS 5.10: Sun Update Connection Bootstrapper**

6390372 6323830 6350505

- **122763-01 – SunOS 5.10: SunVideo 1.4 procedural patch**

6398974

- **122860-04 – SunOS 5.10: SCN Update Manager localization patch**

6407430 6453773 6460262 6542867

- **122911-07 – SunOS 5.10: Apache 1.3 Patch**

6298425 6308127 6325738 6423033 6452767 6501938 6502023 6528378 6540271 6550227

- **122958-02 – GNOME 2.6.0: RealPlayer media application**

6382797 6383322 6383359 6383367 6377814 6450213

- **123003-03 – SunOS 5.10: SAM module patch**

6509847 6316308 6417985 6444027 6444779 6445882

- **123005-05 – SunOS 5.10: Basic Registration Update**

6302968 6316245 6334932 6367975 6398507 6399623 6399760 6440989 6444883 6437572 6448823
6449808 6452877 6450286 6468537 6480357 6462733 6428301 6434413 6449413 6448995

- **123011-01 – SunOS 5.10: BR desktop icon patch**

6398507 6421950
- **123015-01 – SunOS 5.10: ps patch**

6284623
- **123121-02 – SunOS 5.10: libwsreg.so.1 Patch**

6415472 6426965
- **123123-02 – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files**

6423146
- **123132-01 – SunOS 5.10: more patch**

4268038
- **123140-01 – SunOS 5.10: SPECIAL PATCH: For package level scripts only**

6415472
- **123144-01 – GNOME 2.6.0: Gnome RealPlayer CAS Patch**

6414069
- **123162-02 – GNOME 2.6.0: Gnome Java Run Time Patch**

6226929 6411153
- **123186-02 – SunOS 5.10: NIS yp utilities patch**

6254605 6261290 6316946 6332906
- **123194-01 – SunOS 5.10: cron patch**

6270017
- **123252-01 – SunOS 5.10: platform/SUNW,Netra-T2000 patch**

6378766
- **123259-12 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch**
- **123271-01 – SunOS 5.10: iwscn patch**

6347629
- **123301-01 – SunOS 5.10: i2c_svc patch**

- 6396416
- **123319-01 – SunOS 5.10: sysacct patch**
- 6367316
- **123322-01 – SunOS 5.10: pwconv patch**
- 6379530
- **123326-01 – SunOS 5.10: tail patch**
- 6354078
- **123328-01 – SunOS 5.10: expr patch**
- 6354064
- **123332-01 – SunOS 5.10: tftp and in.tftpd patch**
- 6301318
- **123358-02 – SunOS 5.10: jumpstart and live upgrade compliance patch**
- 6372009 6433495 6445971
- **123360-01 – SunOS 5.10: usr/sbin/prtfru patch**
- 6382587
- **123494-04 – X11 6.6.2: fontconfig patch**
- 6355580 6405629 6477134 6447517
- **123520-01 – SunOS 5.10: basename & dirname patch**
- 6210677
- **123526-01 – SunOS 5.10: libcurses patch**
- 4503183 5027709 5089079
- **123535-01 – APOC 1.2: depend patch**
- 6388397
- **123590-05 – SunOS 5.10: PostgreSQL patch**
- 6429619 6452302 6511000 6520656 6539158 6539196 6540256 6546373
- **123611-02 – X11 6.6.2: Trusted Extensions patch**
- 6395871 6435331

- **123628-01 – SunOS 5.10: SPECIAL PATCH: fp Script Patch to replace install components**
6385531
- **123630-01 – SunOS 5.10: HTTP proxy settings patch**
6428301 6431004 6431011 6431282 6434415 6437572
- **123647-01 – SunOS 5.10: gcc library .la patch**
6220191
- **123661-04 – SunOS 5.10: Basic Registration Localization**
6442747 6442794 6453942 6451466
- **123836-01 – SunOS 5.10: ATA driver patch**
6421427
- **123872-02 – SunOS 5.10_sparc, SPECIAL PATCH: For Script Files**
6450350 6466183
- **123893-03 – SunOS sparc : Common Agent Container (cacao) runtime 2.1 upgrade patch 03**

6556883 6526343 6524977 6436145 6426278 6410164 6283710 6369806 6384513 6280032 6337616
6339748 6344715 6345608 6347540 6348540 6355795 6370572 6379150 6395715 6403788 6405728
6414544 6421891 6426615 6437886 6441536 6442702

- **123908-01 – SunOS 5.10: ar patch**
6382170 6391407 6398391
- **123912-02 – SunOS 5.10: ppriv patch**
6186472 6394554 6402114 6403267 6429516 6474295
- **123915-01 – SunOS 5.10: libcfgadm.so.1 patch**
6374522
- **123938-01 – GNOME 2.6.0: GNU Transport Layer Security Library Patch**
6473089
- **124093-02 – SunOS 5.10: SPECIAL PATCH: For package level scripts only**
6438773 5016983
- **124141-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch**

- **124149-04 – SunOS 5.10: Sun XVR-300 Graphics Accelerator Patch**
6480033 6491858 6509359 6510862 6515331 6525065 6524532 6521344 6525750
- **124153-01 – SunOS 5.10: Solaris Management Applications Localization patch**
6465514
- **124166-01 – SunOS 5.10 : SPECIAL PATCH: Script patch for 120272-06**
- **124171-06 – SunOS 5.10: SCN Base cacao module patch**
6460977 6469551 6485617 6515667 6527874
- **124179-01 – SunOS 5.10: Sun Update Connection Bootstrapper Localization**
6465268
- **124188-02 – SunOS 5.10: Trusted Solaris Attributes Patch**
6396510 6481568
- **124235-01 – SunOS 5.10: libpam.so.1 patch**
6439960
- **124237-01 – SunOS 5.10: ftp patch**
6319844
- **124256-01 – SunOS 5.10: md_mirror patch**
6226297
- **124325-01 – SunOS 5.10: rcm modules patch**
4659930
- **124337-01 – SunOS 5.10: FUJITSU PCI Fibre Channel Driver 3.0 miniroot patch**
6474425
- **124363-01 – SunOS 5.10: /usr/bin/stardict patch**
6465248
- **124393-05 – CDE 1.6: Dtlogin smf patch**
6200922 6444304 6389083 6463474 6460522 6506600 6523702 6505800
- **124395-01 – CDE1.6: dtaction patch**
6405981
- **124397-02 – CDE1.6: libDtWidget patch**

6489090 6502114

- **124399-01 – CDE1.6: dtfile patch**

6405981

- **124401-01 – CDE1.6: dtpad patch**

6405981

- **124403-01 – CDE1.6: dtstyle patch**

6405981

- **124405-01 – CDE1.6: sdtfprop patch**

6405981

- **124442-01 – SunOS 5.10: ssh patch**

6450490

- **124444-01 – SunOS 5.10: mountd patch**

4613875

- **124457-01 – X11 6.6.2: xdm patch**

6388471 6423858 6398796

- **124628-03 – SunOS 5.10: CD-ROM Install Boot Image Patch**

5110062 6272742 6438773 6439322 6445230 6450040 6467841 6472014 6473406 6476699 6480302
6481557 6560182

- **124630-12 – SunOS 5.10: System Administration Applications, Network, and Core Libraries Patch**

5110062 6242499 6264796 6272742 6293738 6342179 6386531 6395264 6402258 6411706 6429460
6438773 6439322 6445230 6451634 6459254 6476699 6481557 6489022 6489035 6493801 6493882
6500334 6517303 6517679 6520994 6545660 6549601 6553162

- **124924-01 – SunOS 5.10: vold patch**

6435055

- **124939-03 – SunOS 5.10 5.10_x86: JDMK 5.1 patch**

4703798 4704415 4850779 4984695 5057532 5065264 5066653 5079479 6174229 6183128 6192124
6199899 6238234 6239400 6286631 6298662 6305089 6313432 6318653 6353661 6354426 6409684
6454450 6496038 6215610 6227678 6295821 6335967 4997225 6195791 5051899 6273684 4960301
5044821 5066835 5072890

- **124943-01 – SunOS 5.10: SunFreeware gzip man pages patch**

6454453 6470484

- **124997-01 – SunOS 5.10: /usr/bin/tip patch**

4706048

- **124999-01 – SunOS 5.10: mc-us3 driver patch**

6469394

- **125022-01 – SunOS 5.10: usr/sbin/sar patch**

6298631

- **125045-01 – X11 6.6.2: Xft patch**

6261221

- **125075-01 – SunOS 5.10: svc-volfs patch**

6377400

- **125081-07 – SunOS 5.10: mpt driver patch**

6222114 6222334 6317677 6368089 6400982 6408660 6418521 6430773 6435512 6457857 6459470
6473039 6477688 6477713 6495303 6502249 6527781 6528737 6532593

- **125095-13 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch**
- **125097-12 – SunOS 5.10: SPECIAL PATCH: For EDITABLE files**
- **125166-04 – SunOS 5.10: Qlogic ISP Fibre Channel Device Driver**

4647659 6305710 6388297 6451795 6468823 6491276 6495756 6520427 6565491

- **125167-01 – SunOS 5.10: gssd patch**

6253622

- **125169-01 – SunOS 5.10: ktk_t_warnd patch**

6380982

- **125171-02 – SunOS 5.10: dad driver patch**

6431969 6545564

- **125172-01 – SunOS 5.10: llc2 driver patch**

6433791 6466066

- **125174-02 – SunOS 5.10: tl driver patch**

6452679 6460268

- **125176-02 – SunOS 5.10: rmc_comm Patch**

6428213 6476814

- **125184-04 – SunOS 5.10: Sun Fibre Channel Device Drivers**

6335574 6389200 6401604 6460562 6461752 6463248 6478332 6485282 6500633 6517026 6518348
6526457 6532746

- **125196-05 – SunOS 5.10: SUNWcry patch**

4691624 4721729 4925453 4926742 5039273 5062050 5067964 6188861 6195428 6199119 6211857
6215509 6215816 6220814 6222467 6226862 6230146 6242993 6245378 6249979 6252894 6253744
6256312 6262344 6264344 6271754 6276483 6278572 6278578 6286167 6286372 6292874 6331488
6345493 6358078 6368332 6372133 6372169 6372587 6373525 6379529 6427002 6427559 6449294
6458639 6464106 6466370 6467218 6476279 6476772 6483054

- **125202-01 – SunOS 5.10: n2piupc driver feature patch**

6466249 6507462

- **125211-01 – SunOS 5.10: SunFreeware zlib patch**

6464983

- **125213-02 – SunOS 5.10 : SunFreeware zlib man pages patch**

6464983 6522852

- **125215-02 – SunOS 5.10: SunFreeware wget patch**

6215177 6542839

- **125217-01 – SunOS 5.10: SunFreeware wget man pages patch**

6215177

- **125275-01 – SunOS 5.10 5.10_x86: JDMK 5.1 patch**

6454450

- **125279-03 – CDE1.6: dtsession patch**

6494012 6547678 6556383

- **125281-02 – CDE1.6: sdtimage patch**

6483532

- **125285-02 – SunOS 5.10: Japanese font patch**

6462327 6526947

- **125287-01 – SunOS 5.10: Japanese X locale update**

6501702 6521655

- **125293-02 – SunOS 5.10: Japanese iconv patch**

6461920 6461923 6534195 6545843

- **125312-01 – SunOS 5.10: SPECIAL PATCH: For 120719-02 patch**
- **125314-01 – SunOS 5.10: SPECIAL PATCH: For 123590-02 patch**
- **125317-01 – SunOS 5.10: SPECIAL PATCH: For 125215-01 patch**
- **125332-01 – JDS 3: Macromedia Flash Player Plugin Patch**

6491186

- **125367-02 – SunOS 5.10: /etc/passwd, /etc/group, /etc/shadow feature patch**

6438076 6535217 6544686 6544691

- **125369-07 – SunOS 5.10: Fault Manager patch**

4979014 6193463 6193662 6195325 6239835 6252904 6255063 6268345 6279682 6293593 6321477
6324053 6333178 6342696 6343294 6343361 6345661 6346507 6347217 6349862 6349876 6350627
6354315 6362846 6365557 6365571 6365629 6365633 6365645 6369762 6371203 6371683 6372207
6372709 6373293 6376848 6376946 6379529 6380684 6381172 6382913 6382917 6382925 6382930
6384772 6388410 6390177 6393267 6396916 6399876 6399927 6400607 6404180 6404436 6405256
6408988 6410884 6411355 6411941 6414703 6414871 6414938 6417265 6417268 6418474 6419724
6419833 6421101 6421336 6421449 6421451 6422759 6424822 6426365 6426478 6427002 6427559
6427994 6429072 6432953 6434201 6434264 6437505 6438237 6440121 6440395 6443847 6443849
6444564 6445128 6445887 6446415 6448718 6449001 6449076 6450416 6451677 6452185 6456918
6457153 6457970 6457992 6458982 6459000 6462237 6464740 6466248 6467144 6468723 6473807
6473811 6473819 6473916 6473918 6476548 6476919 6477382 6477385 6477426 6477430 6477442
6477446 6477453 6477456 6477461 6480629 6480930 6481208 6482512 6485057 6486965 6486977
6490519 6491720 6491762 6491773 6493219 6494939 6495169 6496337 6496714 6496757 6496850
6498181 6498195 6498201 6499304 6502204 6502549 6502660 6502949 6504751 6505708 6506108
6506208 6506622 6509315 6509757 6510226 6510228 6510717 6511726 6512947 6513538 6513804
6516824 6518718 6518722 6518796 6519375 6519408 6520142 6520375 6520386 6520501 6520901
6521246 6521861 6521864 6521869 6526909 6527547 6528153 6528685 6529553 6530948 6536452
6536564 6539019 6556594 6560061

- **125378-01 – SunOS 5.10: timezones feature patch**

6226357 6348147 6380398 6440139 6497364 6512648

- **125380-01 – SunOS 5.10: /sbin/init and /usr/sbin/audit feature patch**

6370615 6377862 6378200 6426085

- **125382-01 – SunOS 5.10: qcn driver feature patch**

6465368 6489365

- **125388-01 – SunOS 5.10: SNIA Multipath Management API and Multipathing Utilities**

6468489

- **125398-03 – SunOS 5.10: SPECIAL PATCH: Japanese CAS scripts update for ZONE**

6487934 6533196 6556095

- **125414-01 – SunOS 5.10: SIP feature patch**

6461142 6480199 6481951 6484530

- **125416-01 – SunOS 5.10: UFS utilities feature patch**

1260290 4063945 4215923 4471706 4775289 4799697 4836779 4845221 4857410 4872089 4890510
5004701 5086715 5096886 6175186 6184783 6198523 6208131 6217870 6223375 6240363 6245090
6250211 6256157 6256372 6262573 6264883 6265542 6277961 6284968 6303398 6312941 6312946
6312949 6312954 6322005 6322205 6332352 6335370 6337437 6338081 6338386 6338653 6341429
6345690 6346183 6351165 6354381 6354997 6355634 6360864 6362641 6365138 6367777 6367948
6379909 6381344 6389326 6389488 6421216 6427134 6433679 6438911 6498206 6507293

- **125418-01 – SunOS 5.10: in.telnetd feature patch**

6246102 6523815 6524404

- **125420-01 – SunOS 5.10: scp feature patch**

6460274 6466048

- **125474-01 – X11 6.8.0: Xorg client libraries patch**

6424870

- **125480-01 – SunOS 5.10: libaio patch**

6497333

- **125482-02 – SunOS 5.10: cryptmod and r-commands patch**

6378797 6458110 6476400

- **125484-02 – SunOS 5.10: nfssrv patch**

6421340 6462751 6356282 6359546 6365221 6449532

- **125490-02 – SunOS 5.10: nfsmapid patch**

6231897 6243099 6268829 6276074 6442422 6477808 6534968

- **125531-01 – Gnome 2.6.0: File System Examiner Patch**

6444322

- **125533-01 – Gnome 2.6.0: Trusted Extension Runtime Patch**

6515776 6484418 6520725 6487689 6504459 6499185 6495454 6487704 6487643 6488675 6534384
6534359

- **125535-02 – Openwindows 3.7.3: SPECIAL PATCH: CAS scripts patch for ZONE**

6546216 6556140

- **125721-03 – X11 6.6.2: SPECIAL PATCH: CAS scripts patch for ZONE**

6511222 6465304 6533151 6551011

- **125725-02 – X11 6.6.2: xinerama patch**

6489136 6550481 6551520

- **125731-01 – SunOS 5.10: XML and XSLT libraries patch**

6193876 6418670

- **125733-01 – SunOS 5.10: SPECIAL PATCH: For 125731-01. SCRIPT patch**

- **125735-01 – SunOS 5.10: SPECIAL PATCH: For 123590-03 patch**

- **125892-01 – SunOS 5.10: cdrw patch**

5097578 6226041 6237805 6237817 6239665 6297848 6327126 6346283 6372024 6373496 6374677
6383886 6416089 6426744

- **125894-01 – SunOS 5.10: cut patch**

6449809

- **125896-01 – SunOS 5.10: mail.local patch**

6476317

- **125898-01 – SunOS 5.10: locator patch**

6347537 6487057

- **125899-01 – SunOS 5.10: stmsboot patch**

6314953 6451134 6479921 6511472

- **125902-01 – SunOS 5.10: uucico patch**

6500236

- **125905-01 – SunOS 5.10: keytables patch**

6521752

- **125952-04 – Sun Java Web Console 3.0.2: Support for Application Server 8.2 EE**

6516483 6486816 6491335 6496980 6498276 6498951 6505096 6514835 6515895 6515930 6519616
6521511 6529094 6519423 6527115 6531703 6526812 6534701 6540441 6515994 6534421 6534399
6563091 6563667

- **125978-06 – SunOS 5.10: SPECIAL PATCH: For package level scripts only**

6264796 6480573 6386531 6474558 4745537 6555501

- **126117-01 – CDE 1.6: DtPower patch**

6341099

- **126119-01 – CDE 1.6: sys-suspend patch**

6395883

- **126121-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch**

- **126123-01 – CDE 1.6: SPECIAL PATCH: For SCRIPT patch**

- **126206-03 – SunOS 5.10: zebra ripd patch quagga**

6268590 6268595 6524504 6553389

- **126212-01 – SunOS 5.10: SPECIAL PATCH: depend files patch**

6480370 6517773

- **126258-02 – SunOS 5.10: in.ftpd patch**

5073203 6239487 6501388

- **126260-01 – SunOS 5.10: logadm patch**

4824041 5107935 6369440 6448850 6497726

- **126262-01 – SunOS 5.10: prctl patch**

6201729

- **126363-01 – SunOS 5.10: X Window System changes - Solaris Trusted Extensions**

6481697 6499786 6505706 6486416

- **126365-02 – SunOS 5.10: CDE Desktop changes - Solaris Trusted Extensions**

6363278 6395845 6433584 6451691 6465966 6467055 6472270 6487195 6504080 6535584 6535882
6550677 6552669

- **126421-01 – SunOS 5.10: format patch**

6375238 6382698

- **126423-01 – SunOS 5.10: bootadm patch**

6256649 6351677 6375429 6389053 6401926 6402084 6414179 6415092 6419989 6429888 6440562
6441220 6460097

- **126425-01 – SunOS 5.10: fsckall patch**
6431414
- **126427-01 – SunOS 5.10: se driver patch**
6470598 6535714
- **126428-01 – SunOS 5.10: e1000g patch**
6428335 6454256 6458975 6458990 6459125 6459175 6460844 6461277 6464716 6479343
- **126430-01 – SunOS 5.10: libcurses patch**
6494168
- **126432-01 – SunOS 5.10: ntwd driver patch**
6500505
- **126434-02 – SunOS 5.10: raidctl patch**
6508590 6519009 6539602
- **126440-01 – SunOS 5.10: rm patch**
6296436 6399959 6479906
- **126442-01 – SunOS 5.10: ac97.h patch**
6301905 6444365 6469613
- **126448-03 – SunOS 5.10: Trusted Extensions labeld, chk_encodings, txzonemgr, zoneunshare, zoneshare patch**
6478436 6479819 6483528 6490114 6504776 6519494 6525116 6544174 6552207 6555057
- **126450-01 – SunOS 5.10 Trusted Extensions add_allocatable patch**
6530616
- **126530-01 – SunOS 5.10: SNIA Multipath Management API Libraries and scsi_vhci driver**
6514145
- **126538-01 – SunOS 5.10: i.manifest and r.manifest patch**
6209178 6494213
- **126540-01 – SunOS 5.10: libumem patch**

6308756 6317793 6341280 6385367 6410523

- **126542-01 – SunOS 5.10: snmpdx and mibiisa patch**

6227115 6228341 6275006 6277029 6411493

- **126544-01 – SunOS 5.10: snmpdx manifest patch**

6461434

- **126546-01 – SunOS 5.10: Bash patch**

6231865

- **126585-02 – SunOS 5.10: auto_ef patch**

6531900 6533747 6533757 6547913

- **126630-01 – SunOS 5.10: tcsh patch**

6513408

- **126639-06 – SunOS 5.10: SPECIAL PATCH: For SCRIPT patch**

- **126647-01 – SunOS 5.10: InfiniBand header files patch**

6552251

- **126649-01 – SunOS 5.10: sulogin patch**

6189407

- **126651-01 – SunOS 5.10: tar patch**

6205524

- **126653-01 – SunOS 5.10: md patch**

6322048

- **126655-01 – SunOS 5.10: poll driver patch**

6422458

- **126657-01 – SunOS 5.10: timex patch**

6451790 6524847

- **126659-01 – SunOS 5.10: flowacct patch**

6509271

- **126661-01 – SunOS 5.10: rpcsec patch**

6273779 6554841

- **126663-01 – SunOS 5.10: acebus and ebus driver patch**

6512401

- **126665-01 – SunOS 5.10: su driver patch**

5104883 6222697 6300839 6334314 6362844 6365805 6387359 6403830 6470835 6522110

- **126666-01 – SunOS 5.10: prtdiag patch**

6523309

- **126681-03 – SunOS 5.10: Install and Patch Utilities Patch**

6218542 6293738 6315512 6322837 6406489 6412093 6412140 6412749 6412765 6413788 6433028
6489022 6497684 6527309 6532654 6534160 6556250

- **126738-02 – SunOS 5.10: Patch for European Region TJDS messages**

6482943 6492997 6507541 6570643

- **126740-02 – SunOS 5.10: Patch for Asian Region TJDS messages**

6482943 6492997 6507541 6570643

- **126742-01 – SunOS 5.10: Patch for Japanese TJDS messages**

6482943 6492997 6507541

- **126897-01 – SunOS 5.10: Fault Manager Patch**

6349862 6365629 6365633 6365645 6369762 6371683 6379529 6381172 6393267 6408988 6410884
6411941 6414703 6414871 6414938 6417265 6417268 6418474 6419724 6421336 6421451 6427002
6427423 6427559 6432953 6434264 6439235 6440121 6445128 6445887 6448956 6449001 6449076
6449954 6450734 6451146 6460405 6461124 6461148 6465541 6471117 6482512 6498305

- **126916-01 – SunOS 5.10: Trusted Extensions pam.conf modified patch**

6563180

- **126918-01 – SunOS 5.10: TRUSTED EXTENSIONS SCRIPT PATCH**

6563180

- **126969-01 – Test IDR for OPL PSR**

6477720 6472377 6473508 6533110

- **127032-01 – IDR to restrict PSR release.**

