Solaris 9 4/04 Release Notes

Adobe PostScript™

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Contents

Preface

The *Solaris 9 4/04 Release Notes* contain installation problem details and other information that was not available until immediately before the release of the Solaris™ 9 4/04 Operating System. To view the latest version of these release notes, see http://docs.sun.com/db/doc/817-3804.

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

Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris 9 4/04 software.

Related Books

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

- GNOME 2.0 Desktop Collection
- iPlanet Directory Server 5.1 Collection (Solaris Edition)
- *Solaris 9 Start Here*

- *Solaris 9 4/04 Installation Guide*
- *Solaris 9 4/04 Release Notes*, which are available through the following media:

    - The Solaris 9 4/04 Release and Installation Collection on the Solaris 9 4/04 Documentation CD
    - http://docs.sun.com (the most up-to-date information)

- Solaris 9 System Administrator Collection
- Solaris 9 User Collection
- Solaris (x86 Platform Edition) Hardware Compatability List
- Sun ONE Application Server 7 Collection (Solaris Edition)
- Solaris 9 4/04 About What's New Collection

For information about the Sun™ Java™ Enterprise System, see the Sun Java Enterprise System 2003Q4 at http://docs.sun.com. You can find the *Sun Java Enterprise System 2003Q4 Release Notes* at http://docs.sun.com/db/doc/816-6876

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

Related Third-Party Web Site References

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

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Accessing Sun Documentation Online

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

Ordering Sun Documentation

Sun Microsystems offers select product documentation in print. For a list of documents and how to order them, see "Buy printed documentation" at `http://docs.sun.com`.

Typographic Conventions

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

TABLE P–1 Typographic Conventions

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

Shell Prompts in Command Examples

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

TABLE P–2 Shell Prompts

Shell	Prompt
C shell prompt	`machine_name%`
C shell superuser prompt	`machine_name#`
Bourne shell and Korn shell prompt	`$`
Bourne shell and Korn shell superuser prompt	`#`

Installation Issues

This chapter describes problems that relate to the installation of the Solaris 9 4/04 Operating System.

For late-breaking Solaris installation issues that were not identified in time to be included in these release notes, refer to the *Solaris 9 4/04 Release Notes* at http://docs.sun.com/db/doc/817-3804.

The following installation bug descriptions have been added to this chapter since the Solaris 9 4/04 Beta Release Notes was published on http://docs.sun.com.

- "Solaris Web Start Installation Program Might Fail to Clean Up Packages in `Alternate Root` After a Failed or Aborted Installation (4992264)" on page 24
- "SPARC: Solaris 9 4/04 Web Start Installation Program Might Not Display Special Case Panels Properly (5002175)" on page 24
- "Update Fails When Installing a Solaris Flash Differential Archive (4997302)" on page 30

Issues You Need to Know About Before Installing Solaris 9 4/04 Software

The following are installation issues you need to be aware of before installing the Solaris 9 4/04 software.

x86: Systems With Certain ATA Hard Disk Drives Hang When Rebooted After Solaris 9 Software Installation

Installing the Solaris 9 software on systems with certain types of ATA hard disk drives results in a system hang. The system hangs when you attempt a soft reboot after the installation has completed.

This problem occurs in systems with ATA hard disk drives that implement the revert to default conditions feature of ATA/ATAPI-6 T13 specification, with respect to the Ultra DMA mode.

Such disk drives revert from Ultra DMA mode to Multiword DMA mode after the software reset, unless the behavior is disabled. The behavior is disabled by using the `SET FEATURES / Disable reverting to power-on to defaults` command.

The way the problem manifests itself depends upon the BIOS and the type of ATA hard drive that is in the system. This problem might manifest itself in one of the following ways:

- If the Ultra DMA mode is *enabled* in BIOS, and ATA hard disk drives can operate in the Ultra DMA mode, a soft reboot of the system after installation might cause the system to hang in BIOS. No error messages are displayed.

- If the Ultra DMA mode is *disabled* in BIOS, and ATA hard disk drives can operate in Ultra DMA mode, a soft reboot of the system after installation might cause the system to hang. Messages that are similar to the following warnings are displayed:

```
WARNING: /pci@0,0/pci-ide@1f,1/ide@0 (ata0):
         timeout: abort request, target=0 lun=0
WARNING: /pci@0,0/pci-ide@1f,1/ide@0 (ata0):
         timeout: abort device, target=0 lun=0
WARNING: /pci@0,0/pci-ide@1f,1/ide@0 (ata0):
         timeout: reset target, target=0 lun=0
WARNING: /pci@0,0/pci-ide@1f,1/ide@0 (ata0):
          timeout: reset bus, target=0 lun=0
```

Workaround: To correct the problem, complete the following steps:

1. If the system hangs when booted, power cycle the system by turning the power off and then on again. The system should then boot normally.

2. After the system is booted, log in to the system and become superuser.

3. Use a text editor to edit the `/platform/i86pc/kernel/drv/ata.conf` file.

   Add the following line:

   ```
   ata-revert-to-defaults=0;
   ```

The next system reboot should proceed without a hang.

x86: Solaris 9 4/04 Installation CD Partition Issue

If the Solaris Web Start 3.0 program on the Solaris 9 4/04 Installation CD is unable to locate a Solaris `fdisk` partition on a system, you must create a Solaris `fdisk` partition on your `root` disk.

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

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

- Solaris `fdisk` partition

  This partition is the typical Solaris `fdisk` partition.

- x86 boot `fdisk` partition

  This partition is a 10–Mbyte `fdisk` partition that enables x86-based systems to boot the miniroot that is placed on the newly created swap slice. The swap slice is located on the Solaris `fdisk` partition.

Note – The installation program on the Solaris 9 4/04 Installation CD creates the x86 boot partition, removing 10 Mbytes from the Solaris `fdisk` partition. This removal prevents any existing `fdisk` partitions from being altered.

This partition should not be created manually.

This requirement also prevents you from using the Solaris 9 4/04 Installation CD to upgrade from the Solaris 2.6 or Solaris 7 releases to the Solaris 9 4/04 software. For more information, refer to "Upgrade Issues" on page 27.

x86: Change in Default Boot-Disk Partition Layout

In the Solaris 9 4/04 release, the Solaris Web Start and `suninstall` installation programs use, by default, a new boot-disk partition layout to accommodate the Service partition on Sun LX50 systems. This installation program enables you to preserve an existing Service partition.

The new default includes the following partitions:

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

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

Note – If you install the Solaris 9 4/04 (x86 Platform Edition) software on a system that does not currently include a Service partition, the Solaris Web Start and `suninstall` programs do not create a new Service partition by default. If you want to create a Service partition on your system, see "x86: Service Partition Not Created by Default on Systems With No Existing Service Partition" on page 19.

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

- You want to preserve an existing Sun Linux partition on the system.
- You need to create a Solaris partition, but want to preserve other existing partitions on the disk.

Note – If your system contains an upgradable version of the Solaris software, but does not contain an x86 boot partition, you might not be able to upgrade by using the Solaris Installation CD. To upgrade a system with no x86 boot partition to the Solaris 9 4/04 release, use the `suninstall` installation program on the Solaris 9 4/04 Software 1 of 2 CD.

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

If you use the default Solaris JumpStart™ profile on the Solaris 9 4/04 media to install multiple locales on a system with a small disk, the installation might fail. This problem might occur under the following conditions:

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

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

If you install the Solaris 9 4/04 software on a system that does not currently include a Service partition, the installation program might not create a Service partition by default. If you are including a Service partition on the same disk as the Solaris partition, you must re-create the Service partition before you install the software.

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

Note – If you did not specifically preserve the Service partition when you installed the Solaris 8 2/02 software, you cannot re-create the Service partition and upgrade to the Solaris 9 4/04 release. You must perform an initial installation of the software.

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

- To use the Solaris Web Start installation program to install from the Solaris 9 4/04 Installation CD, follow these steps:

  1. Delete the contents of the disk.

  2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

     For information on how to create the Service partition, see the *Sun LX50 Server User's Manual* and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

  3. Insert the Solaris 9 4/04 Installation CD in the CD-ROM drive.

  4. Begin the installation.

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

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

     Select one of the following to continue:

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

     Please make a selection: [?]
     ```

  5. Type 1 to use the default layout.

The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

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

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   6. Complete the installation.

- To install from a network installation image or from the Solaris 9 4/04 DVD over the network, follow these steps:

   1. Delete the contents of the disk.

   2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

      For information on how to create the Service partition, see the *Sun LX50 Server User's Manual* and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

   3. Boot the system from the network.

      The Customize `fdisk` Partitions screen is displayed.

   4. To load the default boot-disk partition layout, click Default.

      The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

      For more information on booting from the network, see the *Solaris 9 4/04 Installation Guide*.

- To use the `suninstall` program to install from the Solaris 9 4/04 Software 1 of 2 CD or from a network installation image on a boot server, follow these steps:

   1. Delete the contents of the disk.

   2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

      For information on how to create the Service partition, see the *Sun LX50 Server User's Manual* and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

   3. Boot the system.

      The installation program prompts you to choose a method for creating the Solaris partition.

   4. Select the `Use rest of disk for Solaris partition` option.

      The installation program preserves the Service partition and creates the Solaris partition.

   5. Complete the installation.

For more information on booting from the network, see the *Solaris 9 4/04 Installation Guide*.

x86: Solaris Device Configuration Assistant Boot Diskette Is Not Available

The Solaris 9 Device Configuration Assistant is not delivered as a boot diskette in the Solaris 9 4/04 release. To boot the Device Configuration Assistant, choose one of the following options:

- If your system's BIOS supports CD booting from a CD, boot from the Solaris 9 4/04 (x86 Platform Edition) Installation CD, the Solaris 9 4/04 Software (x86 Platform Edition) 1 of 2 CD, or the Solaris 9 4/04 Software (x86 Platform Edition) DVD.
- If your system does not support booting from a CD, you can copy the boot-diskette image to a diskette. The boot-diskette image is available on the Solaris 9 4/04 Software (x86 Platform Edition) 2 of 2 CD.
- If your system supports Preboot Execution Environment (PXE) booting and an install image is available on the network, boot from the network.

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

For more information, see the *Solaris 9 4/04 Installation Guide*.

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

The Solaris 9 4/04 software includes a feature that enables you to install large partitions. The system BIOS must support logical block addressing (LBA). BIOS Version GG.06.13 does not support LBA access. The Solaris boot programs cannot manage this conflict. This issue can also affect other HP Vectra systems.

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

Workaround: Do not upgrade HP Vectra XU Series systems with the latest BIOS Version GG.06.13 to the Solaris 9 4/04 release. This version no longer supports these systems.

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

Bugs You Need to Know About Before Installing Solaris 9 4/04 Software

The following are installation bugs that you should be aware of before installing the Solaris 9 4/04 software.

SPARC: Upgrade Firmware on Sun Fire and Netra Servers Before Installation (4747307, 4799331)

To install the Solaris 9 4/04 software on specific Sun Fire and Netra™ servers, you must first update the firmware on the server. If you do not update the firmware before you install the Solaris 9 4/04 software, the server panics. This problem affects the following servers:

- Sun Fire 3800 server
- Sun Fire 4800 server
- Sun Fire 4810 server
- Sun Fire 6800 server
- Sun Fire V1280 server
- Netra 1280 server

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

```
panic[cpu0]/thread=140a000: BAD TRAP: type=34 rp=147e9e0
      addr=5586ee326973add3 mmu_fsr=0
```

The `ok` prompt is displayed.

Workaround: Update the firmware by applying the appropriate firmware patch.

- For Sun Fire 3800, 4800, 4810, or 6800 servers, apply one of the following patches:

    - Patch ID 112883-05 (5.14.4 firmware update)
    - Patch ID 112884-01 (5.15.0 firmware update)

- For Sun Fire V1280 or Netra 1280 servers, apply patch ID 113751-03 (5.13.0013 firmware update).

Firmware update patches are available by going to the Sunsolve℠ web site at http://sunsolve.sun.com. Be sure to download and apply the most current version of the patch.

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

If your system has a Toshiba SD-M1401 DVD-ROM drive with firmware revision 1007, the system cannot boot from the Solaris 9 4/04 DVD.

Workaround: Apply patch 111649–03, or a later version, to update the Toshiba SD-M1401 DVD-ROM drive's firmware. You can download patch 111649–03 or a later version by going to the SunSolve web site at http://sunsolve.sun.com.

Cannot Access Data on Solaris 9 4/04 DVD When Running Solaris 2.6 and Solaris 7 Software (4511090)

If your system is running the Solaris 2.6 or the Solaris 7 software, Volume Management incorrectly mounts the Solaris 9 4/04 DVD. The DVD can be mounted, but the data is inaccessible. As a result, you cannot set up an install server, perform a Live Upgrade, or access any data on the media.

Workaround: Choose one of the following workarounds:

- Apply the patches that are appropriate for your system.

Release	Patch ID
Solaris 2.6	107618-03
Solaris 7	107259-03
Solaris 2.6	107619-03
Solaris 7	107260-03

- Mount the Solaris 9 4/04 DVD manually. Do not use Volume Management to mount the DVD. Follow these steps:

  1. Become superuser.
  2. Stop Volume Management.

     ```
     # /etc/init.d/volmgt stop
     ```
  3. Mount the DVD manually.

     ```
     # mkdir /mnt1
     # mount -F hsfs -o ro /dev/dsk/c0t6d0s0 /mnt1
     ```
  4. Verify that the DVD is mounted. Then verify that the data is accessible.

```
# cd /mnt1
# ls
```

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

```
Copyright   Solaris_9
```

Installation Bugs

The following installation bugs apply to the Solaris 9 4/04 release.

Solaris Web Start Installation Program Might Fail to Clean Up Packages in `Alternate Root` After a Failed or Aborted Installation (4992264)

If the Solaris Web Start program is installing packages into an `alternate root`, and then fails or is manually aborted, the installer might not remove packages that were already installed. In addition, the installer reports that the partially installed product was uninstalled successfully.

Note – The Solaris Web Start program installs packages by invoking the `pkgadd` command. If the installer program is installing software into an `alternate root`, the program passes the `alternate root` to the `pkgadd` command by using the `-R` argument.

Installation logs might indicate that some packages were successfully installed and that some packages to be uninstalled were not found.

Workaround: After rebooting the system, manually remove the packages by using the `pkgrm` command.

SPARC: Solaris 9 4/04 Web Start Installation Program Might Not Display Special Case Panels Properly (5002175)

If you install the Solaris 9 4/04 software by using the Solaris Web Start installation program, some of the information and exit panels for the Sun [SM] 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 manifest itself during a Solaris Web Start 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 9 4/04 software has completed, manually install the SRS Net Connect software from the Solaris DVD or Software 2 of 2 CD.

Installing the SRS Net Connect software after the initial Solaris 9 4/04 software installation has completed will ensure that all panels are displayed properly.

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

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

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

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

If you install or upgrade to the Solaris 9 4/04 release on a system with multiple network interfaces, the system recognizes all system interfaces as usable. Interfaces that are not connected to the network, or that are not intended for use, appear in the output of the ifconfig -a command. Additionally, interfaces with identical Ethernet addresses might be assigned identical IP addresses. The following error message is displayed:

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

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

Workaround: Choose one of the following workarounds:

- To plumb only the configured interface, reboot the system after the initial boot.
- To assign a different IP address to each network interface, set the local-mac-address PROM variable to true in one of the following ways:

  - At the ok prompt, type the following command:

    ok **setenv local-mac-address? true**

  - In a terminal window, type the following command as superuser:

    # **eeprom local-mac-address?=true**

Installation Bug That Occurs During an Installation From Solaris 9 4/04 Software 1 of 2 CD

The following bug occurs during installation of the Solaris 9 4/04 Software 1 of 2 CD.

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

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

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

Or:

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

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

Workaround: Ignore the warning message.

Upgrade Issues

The following are installation issues that occur during an upgrade to the Solaris 9 4/04 release.

Additional Patches Are Needed to Run Solaris Live Upgrade

Correct operation of Solaris Live Upgrade requires that a limited set of patch revisions be installed for a given OS version.

Before installing or running Live Upgrade, you are required to install a limited set of patch revisions. Make sure you have the most recently updated patch list by consulting http://sunsolve.sun.com. For additional information, search for the info Doc 72099 on the SunSolve web site.

Limitation When Installing Solaris Live Upgrade Packages

If you are running the Solaris 2.6, Solaris 7, or Solaris 8 release, you might not be able to run the Solaris Live Upgrade installer. These releases do not contain the set of patches that is needed to run the Java™ 2 runtime environment.

The typical failure that results is a Java exception error. The following are messages that might be displayed:

```
InvocationTargetException in ArchiveReader constructornull
        java.lang.reflect.InvocationTargetException
                at install.instantiateArchiveReader(Compiled Code)
                at install.<init>(Compiled Code)
                at install.main(Compiled Code)
```

To run the Solaris Live Upgrade installer and install the packages, you must have the Java 2 runtime environment recommended patch cluster.

Workaround: Complete the following workaround:

■ Install the Solaris Live Upgrade packages by using the `pkgadd` command.

For step-by-step instructions, refer to Chapter 35, "Using Solaris Live Upgrade to Create a Boot Environment (Tasks)," in *Solaris 9 4/04 Installation Guide*.

■ Install the Java 2 runtime environment recommended patch cluster. The patch cluster is available on http://sunsolve.sun.com. Then, you can use the Solaris Live Upgrade installer to install the packages.

Cannot Access Storage Area Networks Through `SUNWsan` With Solaris 9 4/04 Software

If your Solaris 8 system is connected to storage area networks (SANs), check with your support engineer before you upgrade to the Solaris 9 4/04 release. Solaris 8 systems that have the `SUNWsan` package installed might require special procedures to upgrade to the Solaris 9 4/04 release. To find out if the `SUNWsan` package is installed on the system, type the following command in a terminal window:

```
# pkginfo SUNWsan
```

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

```
    system      SUNWsan       SAN Foundation Kit
```

x86: Cannot Use Solaris 9 4/04 (x86 Platform Edition) Installation CD to Upgrade x86 Systems From Solaris 2.6 or Solaris 7 Software

You cannot use the Solaris 9 4/04 (x86 Platform Edition) Installation CD to upgrade x86-based systems from the Solaris 2.6 or the Solaris 7 software to the Solaris 9 4/04 release. The upgrade cannot be performed because of the x86 boot-partition requirement.

Workaround: On x86-based systems, use the Solaris 9 4/04 Software (x86 Platform Edition) 1 of 2 CD to upgrade from the Solaris 2.6 or the Solaris 7 software to the Solaris 9 4/04 release.

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

Solaris Management Console 2.1 software is not compatible with Solaris Management Console 1.0, 1.0.1, or 1.0.2 software. If you are upgrading to the Solaris 9 4/04 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 9 4/04 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 SUNWdclnt
# pkgrm SUNWmga
# pkgrm SUNWmgapp
# pkgrm SUNWmcdev
# pkgrm SUNWmcex
# pkgrm SUNWwbmc
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmccom
```

2. Insert the Solaris 9 4/04 Software 1 of 2 CD into your CD-ROM drive. Type the
   following in a terminal window:

```
# cd /cdrom/sol_9_404_sparcia/s0/Solaris_9/Product
# pkgadd -d . SUNWmccom SUNWmcc SUNWmc SUNWwbmc SUNWmcex SUNWmcdev \
  SUNWmgapp SUNWmga SUNWdclnt SUNWlvmr SUNWlvma SUNWlvmg SUNWpmgr \
  SUNWrmui
```

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

Installation Bugs That Occur During an Upgrade

The following installation bugs occur during an upgrade to the Solaris 9 4/04 release.

Update Fails When Installing a Solaris Flash Differential Archive (4997302)

If you are installing a Solaris Flash archive, a file appears to be new and causes the
update to fail. The Solaris Flash software verifies that the files on the clone system are
an exact duplicate of the master system. The `reboot_processing` script is not
deleted at reboot. As a result, this file is recognized by the Flash software as a new file.

The following error message is displayed:

```
New files detected:  /etc/init.d/flash_reboot_processing
```

Workaround: To avoid encountering this problem, choose from one of the following workarounds:

- Delete the `flash_reboot_processing` file before you install the Solaris Flash archive on the clone system.
- When installing the differential archive, you can use the custom JumpStart `forced_deployment` keyword to force the installation. The new files that are detected on the clone are deleted during the installation, and the installation completes.
- When installing the differential archive, you can use the custom JumpStart `no_content_check` keyword in the profile to turn off file checking. The software performs no file checking, no files are deleted, and the installation completes.
- You can exclude the file when you create the differential archive. During the archive creation, this file is added to a file filter. The file is then ignored during the archive installation. Follow these steps:

  1. Boot the master system.
  2. To exclude the `/etc/init.d/flash_reboot_processing` file during the archive creation, type the following command:

     ```
     # flarcreate -n archive-name  -A unchanged-master-image-dir-x \
     /etc/init.d/flash-reboot-processing path/filename
     ```

- During the creation of a differential archive, you can use the `-M` option to switch off file checking. No file manifest is created. As a result, the files on the clone system are not checked. Follow these steps:

  1. Boot the master system.
  2. To use the `-M` option to switch off file checking, type the following command:

     ```
     # flarcreate -n archive-name -A unchanged_master_image_dir  -M path/filename
     ```

- *archive-name* – Is the name you give the archive.
- `-A` option – Is the *unchanged-master-image-dir*, which creates a differential archive by comparing a new system image with the image that is specified by the *unchanged-master-image-dir* argument.
- *path* – Is the path to the directory in which you want to save the archive file. If you do not specify a path, the `flarcreate` command saves the archive file in the current directory.
- *filename* – Is the name of the archive file.

For more information, see the *Solaris 9 4/04 Installation Guide*.

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

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

Workaround: Choose one of the following workarounds:

- Use a combined network installation image to do the installation.
- Enable the C locale by setting the environment variable on your system.
    - If you are using the Bourne shell or Korn shell, follow these steps:
        1. Set the C locale.

            ```
            # LANG=C; export LANG
            ```
        2. Begin the installation.
    - If you are using the C shell, follow these steps:
        1. Type the following:

            ```
            # csh
            ```
        2. Set the C locale.

            ```
            # setenv LANG C
            ```
        3. Begin the installation.

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

When you upgrade from the Solaris 8 software to the Solaris 9 or the Solaris 9 4/04 release, a problem is encountered when the `SUNWjxcft` package is removed. The following error message is recorded in the `upgrade_log` file:

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

Workaround: Ignore the error message.

Upgrading to Solaris 9 4/04 Release Might Disable Existing Secure Shell Daemon (`sshd`) (4626093)

If you upgrade to the Solaris 9 4/04 release on a system that is running a third-party Secure Shell, such as OpenSSH from the `/etc/init.d/sshd` daemon, the upgrade disables the existing Secure Shell daemon. During an upgrade, the Solaris 9 4/04 software overwrites the contents of `/etc/init.d/sshd`.

Workaround: Choose one of the following workarounds:

- If you do not want the Secure Shell protocol server program on your system, do not install the `SUNWsshdr` and `SUNWsshdu` packages during the upgrade.

- If you do not want the Secure Shell protocol server or client programs on your system, do not install the Secure Shell Cluster (`SUNWCssh`) during the upgrade.

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

If the `/export` directory is near full capacity when you upgrade to the Solaris 9 4/04 release, space requirements for `/export` are miscalculated. The upgrade then fails. This problem commonly occurs if a diskless client is installed. Another instance of when the problem occurs is when third-party software is installed in the `/export` directory. The following message is displayed:

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

Workaround: Before you upgrade, choose one of the following workarounds:

- Rename the `/export` directory temporarily, until the upgrade is completed.

- Temporarily comment out the `/export` line in the `/etc/vfstab` file until the upgrade is completed.

- If `/export` is a separate file system, then unmount `/export` before you perform the upgrade.

Upgrading Diskless Client Servers and Clients (4363078)

If your system currently supports diskless clients that were installed with the Solstice AdminSuite™ 2.3 Diskless Client tool, you must perform the following two steps:

1. Delete all existing diskless clients that are the same Solaris version and architecture as the server.

2. Install or upgrade to the Solaris 9 4/04 release.

For specific instructions, see the *System Administration Guide: Basic Administration*.

If you attempt to install the Solaris 9 4/04 software over existing diskless clients, the following error message might be displayed:

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

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

Installation Bug That Occurs After an Upgrade

The following installation bug occurs after you upgrade to the Solaris 9 4/04 release.

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

The WBEM Repository Common Information Model (CIM) database can be corrupted under the following conditions:

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

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

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

Workaround: Choose one of the following workarounds:

- Follow these steps to prevent the WBEM Repository from being corrupted:

  1. Become superuser.
  2. Before you apply the patch, back up the WBEM Repository.

```
# cp -r /var/sadm/wbem/logr path/logr
```

where *path* is the path to the backup WBEM Repository.

3. If the WBEM Repository is corrupted after you back out the patch, stop the WBEM server.

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

4. Restore the backup WBEM Repository.

```
# cp -rf path/logr /var/sadm/wbem/logr
```

5. Restart the WBEM server.

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

■ Follow these steps to create a new WBEM Repository:

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

---

1. Become superuser.
2. Stop the WBEM server.

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

3. Remove the files from the /logr directory.

```
# rm /var/sadm/wbem/logr/*
```

4. Remove the /notFirstTime directory.

```
# rmdir notFirstTime
```

5. Start the WBEM server.

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

6. Compile any proprietary Managed Object Format (MOF) files manually.

```
# /usr/sadm/bin/mofcomp MOF-filename
```

64–Bit Solaris Issue

The following 64–bit issue applies to the Solaris 9 4/04 release.

SPARC: Sun UltraSPARC System (`Sun4U`) Might Need Boot Flash PROM Update

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

If you want to run the 64-bit Solaris software on an UltraSPARC™ system, you might need to update the system's flash PROM firmware. The Solaris 9 4/04 installation programs enable you to add 64-bit support. This 64-bit support is selected by default when you install on Sun UltraSPARC systems. A 64-bit system only boots in the 64-bit mode by default if it has a CPU speed of 200 MHz or greater.

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

The following table lists the UltraSPARC (Sun4U™) systems that are affected and the minimum firmware versions that are needed. *System type* is the equivalent of the output of the `uname -i` command. You can determine which firmware version that you are running by using the `prtconf -V` command.

TABLE 1–1 Minimum Firmware Versions Required to Run 64–Bit Solaris Software on UltraSPARC Systems

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

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

For instructions on how to perform the flash PROM update by using the Solaris CD, refer to the Solaris 9 on Sun Hardware Collection. You can obtain the manual at http://docs.sun.com.

Documentation CD Issue

The follwoing Documentation CD issue applies to the Solaris 9 4/04 release.

Cannot Install Documentation Packages With Names Longer Than Nine Characters on Documentation Servers Running Solaris 2.6, 7, and 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.

Note – No patches exist at the time of this release for Solaris 2.6 servers.

Workaround: For instructions on how to install these patches, see the Solaris Documentation Important Information file on the documentation media, Solaris 9 4/04 Documentation CD 1 of 2, 2 of 2, or DVD. This file is located in the following directory:

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

For example, the English file on the Solaris 9 4/04 Documentation CD 1 of 2 is located in the following directory:

sol_9_doc_1of2/README/C/install_C.html

Documentation CD Installation Bugs

The following Documentation CD installation bugs apply to the Solaris 9 4/04 release.

Uninstall Mode of Solaris 9 4/04 Documentation CD `uninstaller` Utility Does Not Work Properly (4675797)

If you run the Solaris 9 4/04 Documentation CD `uninstaller` in Uninstall All mode, the `uninstaller` removes only those documentation packages that are installed by default.

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

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

If you use the Solaris 9 4/04 Documentation CD installer program with the `nodisplay` option, the verify panel might not page correctly.

Workaround: Do not specify the `nodisplay` option with the Solaris 9 4/04 Documentation CD installer program. Use the graphical user interface (GUI) mode to install the Solaris 9 4/04 Documentation CD.

Localization Issue That Occurs During Installation

The following is a Localization issue that occurs during installation of the Solaris 9 4/04 software.

Additional Related Locales Might Be Installed

When you select a locale for your installation, additional related locales might also be installed. This change in behavior occurs in the Solaris 9 4/04 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.

Localization Bugs That Occur During Installation

The following Localization bugs occur during installation of the Solaris 9 4/04 software.

Languages CD Installs All Languages By Default With Solaris Live Upgrade (4898832)

If you use Solaris Live Upgrade with multiple CDs to install the Solaris 9 4/04 release, the Languages CD installs all languages by default.

After the installation, if you log in to the system in a locale that is different than the locale you selected during installation, garbled characters might be displayed. After you log in to any of these locales, the English locale is displayed.

Workaround: During installation, select the custom install option. Uncheck any languages that you do not want to install during the Languages CD installation.

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

Upgrading to the Solaris 9 4/04 release, on a system running the Solaris 8 software with the Solaris 8 Language Supplement CD installed, results in several invalid packages. Thai, Russian, Polish, and Catalan locale packages remain on the system. These locale packages have an `ARCH=sparcall` value and are not removed during the upgrade to the Solaris 9 4/04 release.

Workaround: Before you upgrade to the Solaris 9 4/04 release, use the Solaris Product Registry application to remove the Solaris 8 Languages Supplement CD packages.

CHAPTER **2**

Solaris Runtime Issues

This chapter describes runtime issues that are known to be problems. For late-breaking Solaris runtime issues that were not identified in time to be included in these release notes, refer to the *Solaris 9 4/04 Release Notes* at http://docs.sun.com/db/doc/817-3804.

The following runtime bug descriptions have been added to this chapter since the Solaris 9 4/04 Beta Release Notes was published on http://docs.sun.com.

- "System Panic Might Occur When USB Device Is Plugged in to USB 2.0 Port (5018218)" on page 42
- "Support for Newer Digi Edgeport USB to Serial Converters Not Available in Solaris 9 4/04 OS (4900383)" on page 42
- "x86: USBA 1.0 Framework Device Driver for Universal Host Controller Interface Not Available in Solaris 9 4/04 OS (4990411)" on page 42
- "SPARC: Kernel Panics on Sun Blade 1000 and Sun Blade 2000 Systems if Power Management Is Enabled in a Diskless Client Setup (4985416)" on page 44
- "`cfgadm - l` Command Does Not List USB Devices When Run Without Superuser Privileges (4999109)" on page 47
- "x86: Universal Serial Bus Architecture Modular DeBugger Not Configured Automatically When Only New Framework Is Loaded (4982529)" on page 47
- "Problems Reading and Writing DVDs Greater Than 4-Gbytes on Solaris 9 4/04 Software (4908624, 4987026)" on page 48
- "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)" on page 55

Hardware–Related Bugs

The following hardware–related bugs apply to the Solaris 9 4/04 release.

System Panic Might Occur When USB Device Is Plugged in to USB 2.0 Port (5018218)

When certain USB devices are connected to a system by means of a USB 2.0 port, a race condition might occur. This condition might cause the system to panic.

Workaround: If the system panics, unplug the USB device, then reboot the system.

Support for Newer Digi Edgeport USB to Serial Converters Not Available in Solaris 9 4/04 OS (4900383)

The chip base for the Digi Edgeport USB-to-serial converters has recently changed, even though the new converters have retained the same model number. This change renders the newer converters unsupported in this Solaris OS release.

Support for Edgeport devices with the new chip will be available in a future Solaris release and as a patch.

Workaround: Order the device from the company, Inside Out Networks. When ordering, specify that the device will run on the Solaris OS. Ask for the older 930 unit.

For more information, go to `http://www.ionetworks.com`.

x86: USBA 1.0 Framework Device Driver for Universal Host Controller Interface Not Available in Solaris 9 4/04 OS (4990411)

The USBA 1.0 framework device driver (`usba10_uhci`) for the Universal Host Controller Interface (UHCI), is not available in the Solaris 9 4/04 release.

Running the `usbconfig` script that is available at `http://www.sun.com/bigadmin`, and specifying USBA 1.0 everywhere on systems with UHCI hardware, will bind all USB ports to the USBA 1.0 framework, with the exception of UHCI ports. This result is unexpected.

The output from the `prtconf -D` command will display the driver to which a USB host controller and its ports are bound.

Workaround: UHCI ports, if present, are still usable with the original USB framework.

Smart Card Bugs

The following Smart Card bugs apply to the Solaris 9 4/04 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*.

Common Desktop Environment (CDE) Bugs

The following CDE bugs apply to the Solaris 9 4/04 OS.

SPARC: Kernel Panics on Sun Blade 1000 and Sun Blade 2000 Systems if Power Management Is Enabled in a Diskless Client Setup (4985416)

In the Solaris 9 4/04 release, if power management is enabled in a diskless client setup on either a Sun Blade™ 1000 or a Sun Blade™ 2000 system, the kernel panics. This system panic occurs after a period of idle time.

The following error message is displayed:

```
/usr/sbin/pmconfig: /etc/power.conf line (18) failed to convert mount
point to prom name.
```

This message is also recorded in the `/var/adm/messages` file.

Workaround: To avoid this problem, follow these steps:

1. Disable power management by editing the `/etc/power.conf` file. Change the `autopm` entry from *default* to *disable*.

2. After you edit the `/etc/power.conf` file, choose from the following options:

   - Reboot the system for the changes to take effect.
   - Become superuser. Then, run the following command:

     # **/usr/sbin/pmconfig**

CDE Removable Media Auto Run Capability Removed (4634260)

The Removable Media auto run capability in the CDE desktop environment has been temporarily removed from the Solaris 9 4/04 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.

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

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

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

The following error message is displayed:

```
Segmentation Fault
```

This problem occurs in both the `C` and `ja` locales.

Workaround: Do not specify the `FontList` option when you launch `dtmail` from the command line.

CDE Mailer Appears to Hang While Displaying Email With Long Lines (4418793)

If you try to read an email message with many long lines in any of the Solaris 9 4/04 Unicode or UTF-8 locales, CDE Mailer (`dtmail`) appears to hang. The message does not display immediately.

Workaround: Choose one of the following workarounds:

- Enlarge the `dtmail` Mailbox window to accommodate 132 columns.

- Disable the Complex Text Layout feature by following these steps:

  1. Become superuser.

  2. Change directories to your system's locale directory.

     ```
     # cd /usr/lib/locale/locale-name
     ```

     In the previous example, *locale-name* refers to the name of your system's Solaris 9 4/04 Unicode or UTF-8 locale.

  3. Rename the locale layout engine category.

     ```
     # mv LO_LTYPE LO_LTYPE-
     ```

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

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

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

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

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

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

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

GNOME 2.0 Issues and Bugs

The following information pertains to the GNOME 2.0 desktop.

GNOME 2.0 Documentation

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

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

System Administration Bugs

The following System Adminstration bugs apply to the Solaris 9 4/04 release.

`cfgadm - l` Command Does Not List USB Devices When Run Without Superuser Privileges (4999109)

Normally, the `cfgadm -l` command lists all dynamically reconfigurable hardware resources on a system, including USB devices. After you install the Solaris 9 4/04 software, the `cfgadm -l` command might no longer accurately list USB devices. Or, if you add the `SUNWusb` package by using the `pkgadd` command, this command might no longer accurately list USB devices.

Workaround: Choose from the following workarounds:

- After you install the Solaris 9 4/04 software, run the `cfgadm -l` command as superuser only.
- After you install the Solaris 9 4/04 software, do not add the `SUNWusb` package by using the `pkgadd` command. Instead, install the patch that is appropriate for your system:
  - For SPARC systems, install patch 115553-07, or a later version.
  - For x86 systems, install patch 115554-08, or a later version.

x86: Universal Serial Bus Architecture Modular DeBugger Not Configured Automatically When Only New Framework Is Loaded (4982529)

The Universal Serial Bus Architecture (USBA) Modular DeBugger (`mdb`) commands might not be automatically configured on some x86 systems.

Workaround: To access the USBA `mdb` commands, run the following command to load the usba mdb module manually after starting mdb:

```
> ::load usba
```

After the usba mdb module is loaded, you can obtain a list of all the USB commands by running the following command:

```
> ::dcmds ! grep usb
```

Problems Reading and Writing DVDs Greater Than 4-Gbytes on Solaris 9 4/04 Software (4908624, 4987026)

Problems are encountered when reading and writing DVDs that are greater than 4-Gbytes on the Solaris 9 4/04 software.

Note – These problems occur on both SPARC 32-bit and x86 platforms. These problems do not occur on either of these platforms for DVDs with less than 4-Gbytes of data or on the 64–bit SPARC platform.

The same data seemingly repeats itself every 4-Gbytes. These DVDs can be mounted for reading, but some files might appear to be corrupted, while other files might be inaccessible. In addition, writes to offsets that are greater than 4-Gbytes might lead to corruption of the existing data on the DVD.

Workaround: None.

lucreate Command Fails When Mounted Storage Device Name Is a Subset of Another Mounted Storage Device or a Storage Device Used for a New Boot Environment (4912890)

When using the lucreate command to create a new boot environment, the command fails in the following instances:

- The device path for any mounted storage device is a subset of the device path for another mounted storage device.

  For example, one file system is currently mounted on /dev/md/dsk/*d1*, and another file system is currently mounted on /dev/md/dsk/*d10*.

- The device path for any mounted storage device is a subset of the device path for a storage device used as an argument to the lucreate command.

  For example, if one file system is currently mounted on /dev/md/dsk/*d10* and /dev/md/dsk/*d100* is used as an option to the lucreate command, specifying a file system for the new boot environment.

The following misleading error messages are displayed:

```
The file system creation utility /usr/lib/fs/ufsufs/mkfs is not available.

Unable to create all required file systems for boot-environment.

Cannot make file systems for boot-environment
```

Workaround: Ensure that there are no file systems in use on storage devices that have device names which are subsets of other storage devices on file systems that are also in use.

If any name ambiguity exists among the mounted file systems, rename the existing Solaris Volume Management metadevices.

In the following workaround, *d10* and *d100* are used as an example only. Other examples of ambiguous device names could be *d20* and *d200*, or *d377* and *d37*, where *d20* matches *d200*, and *d377* matches *d37*.

1. Become superuser.
2. Use the metarename command to rename one of the ambiguous metadevice names.

   # **metarename** *d10 d300*

   The metadevice *d10* is renamed to *d300*.

Note – The file system on *d10* must be unmounted before using the metarename command.

While the file system is unmounted, edit the /etc/vfstab file. Also, edit any other appropriate configuration file that contains the name of the metadevice you are renaming. Change any references of the old metadevice name to the new metadevice name.

If a process is accessing data on the file system, take the system down to single-user mode to unmount the file system. Reboot the system after making the changes.

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

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

The following errors occur when you perform these operations from the graphical user interface (GUI) or when you use smuser and smgroup, which are command-line interfaces for the console.

The console launches a new dialog box or the smuser command exits with the following error messages when operated on a User:

"The attempt to view Users or Roles has failed due to an unexpected error.

```
This was caused by the following error: CIM_ERR_FAILED."
```

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

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

Workaround: Choose from one of the following workarounds:

- To solve this problem by restarting the DNS server, follow these steps:

  1. Become superuser.

  2. Move the named.conf file to a different directory. For example:

     ```
     # mv /etc/named.conf /var/named/named.conf
     ```

  3. Restart the DNS server.

     ```
     # pkill -9 in.named
     ```

     ```
     # /usr/sbin/in.named /var/named/named.conf
     ```

- To solve this problem by restarting the WBEM server, follow these steps:

  1. Become superuser.

  2. Use a text editor to edit the
     /usr/sadm/lib/wbem/WbemUtilityServices.properties file.

     Replace the /etc/named.conf string with /tmp/*new-filename*.

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

     ---

  3. Stop WBEM server.

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

  4. Start the WBEM server

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

For more information, see the smuser(1M) and the smgroup(1M) man pages.

x86: Pressing the F4 Key During BIOS Bootup Fails to Boot the Service Partition (4782757)

You are booting a Sun LX50 which has a Service partition and the Solaris 9 4/04 (x86 Platform Edition) software is installed. Pressing the F4 function key to boot the Service partition, when given the option, causes the screen to go blank. The system then fails to boot the Service partition.

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

UltraSPARC II CP Event Message Not Always Produced (4732403)

In the Solaris 9 4/04 release, on UltraSPARC II based systems, the CP Event message that accompanies some Uncorrectable Memory Error messages is not always produced. The following systems are included:

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

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

Workaround: For the latest information, check the SunSolve[SM] web site at http://sunsolve.sun.com.

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

The Solaris WBEM Services 2.5 daemon cannot locate providers that are written to the com.sun.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
`CIMClient.close()`	`NullPointerException`
`CIMClient.execQuery()`	`CIM_ERR_QUERY_LANGUAGE_NOT_SUPPORTED`
`CIMClient.getInstance()`	`CIM_ERR_FAILED`
`CIMClient.invokeMethod()`	`XMLERROR: ClassCastException`

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

- Edit the appropriate entry in the `/etc/vfstab` file to modify the file-system mount properties, then reboot the system.

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

The following error message is displayed when memory is low:

```
CIM_ERR_LOW_ON_MEMORY
```

You cannot add more entries when the CIM Object Manager is low on memory. You must reset the CIM Object Manager Repository.

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

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

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

3. Remove the JavaSpaces™ log directory.

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

4. Restart the CIM Object Manager.

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

> **Note –** When you reset the CIM Object Manager Repository, you lose any proprietary definitions in your data store. You must recompile the MOF files that contain those definitions by using the `mofcomp` command. See the following example:
>
> # **/usr/sadm/bin/mofcomp -u root -p** *root-password your-mof-file*

Solaris Volume Manager Issue

The following Solaris Volume Manager issue applies to the Solaris 9 4/04 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 9 4/04 Installation Guide*.

Solaris Volume Manager Bugs

The following Solaris Volume Manager bugs apply to the Solaris 9 4/04 release.

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 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 `metahs -e` Command Fails on Copper Cable Storage Boxes When Failed Hot Spare Disk Has Been Swapped Out (4644106)

The `metahs -e` command might fail if you encounter the following circumstances:

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

The following message is displayed:

```
WARNING: md: d0: open error of hotspare (Unavailable)
```

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

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

Workaround: Choose one of the following workarounds:

- Follow these steps to update the device ID for the hot-spare disk in the Solaris Volume Manager state database:

  1. Become superuser.
  2. Type the following command to update the device ID for the hot-spare:

     # **metadevadm -u** *logical-device-name*

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

     # **metareplace -e** *logical-device-name*

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

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

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

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

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

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

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

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

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

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

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

If you remove and replace a physical disk from the system, and then use the `metarecover -p -d` command to write the appropriate soft partition specific information to the disk, an open failure results. The command does not update the metadevice database namespace to reflect the change in disk device identification. 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*

Networking Bug

The following Networking bug applies to the Solaris 9 4/04 release.

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

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

Workaround: Choose one of the following:

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

Security Bugs

The following Security bugs apply to the Solaris 9 4/04 release.

Unlocking CDE Screenlock Removes Kerberos Version 5 Credentials (4674474)

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

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

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

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

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

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

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

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

In the Solaris 9 4/04 release, locked accounts are treated in the same way as expired or nonexistent accounts. As a result, the `cron`, `at`, and `batch` utilities cannot schedule jobs on locked accounts.

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

Additional Software Bug

The following is an additional software bug that applies to the Solaris 9 4/04 release.

SPARC: Veritas Volume Manager Might Fail on Systems Running Solaris 9 4/04 Software (4642114)

If you try to perform various tasks with Veritas Volume Manager on a system that is running the Solaris 9 4/04 software, the following utilities might produce a core dump:

- `vxddladm addjob`
- `vxddladm addsupport`

Workaround: Follow these steps:

1. Become superuser.

2. Verify that the `/var/ld/ld.config` file and `/usr/bin/crle` utility exist on the system.

3. Type the following commands in a terminal window:

```
# /usr/bin/cp /var/ld/ld.config /var/ld/ld.config.save
# /usr/bin/crle -E LD_LIBRARY_PATH=/usr/lib
# appropriate-vxddladm-command
# /usr/bin/mv /var/ld/ld.config.save /var/ld/ld.config
```

Documentation CD Issues

The following Documentation CD issues apply to the Solaris 9 4/04 release.

iPlanet Directory Server 5.1 Documentation Links Do Not Work Properly

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

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

`SUNWsdocs` Package 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.

Documentation CD Bugs

The following Documentation CD bugs apply to the Solaris 9 4/04 release.

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

In the Solaris 9 4/04 software and other systems based on UNIX, PDF documents on the Solaris 9 4/04 Documentation 1 of 2 CD are not accessible in the following European locales:

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

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

Workaround: Choose one of the following workarounds.

- In the Solaris 9 4/04 software and other systems based on UNIX, 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 acroread
```
- For systems that are *not* based on UNIX, upgrade to Adobe Acrobat Reader 5.0 or a later version.

Removing Solaris 9 4/04 Documentation Packages Might Unexpectedly Uninstall Some Solaris 9 4/04 Documentation Collections (4641961)

Some Solaris 9 4/04 documentation collections might be unexpectedly removed from your system under the following circumstances:

1. You install both the Solaris 9 4/04 Documentation 1 of 2 and 2 of 2 CDs on your system.
2. You then use the `prodreg` utility or the Solaris 9 4/04 Documentation CD installer program to remove certain documentation packages.

The Solaris 9 4/04 Documentation CD 1 of 2 and 2 of 2 have three collections in common. If you remove the packages that contain these collections from either of the Solaris 9 4/04 Documentation 1 of 2 or 2 of 2 CD installations, the package is removed for both installations.

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

TABLE 2–1 Solaris 9 4/04 Documentation Packages Contained on Both Solaris 9 4/04 Documentation CDs

HTML Package Names	PDF Package Names	Collection Description
SUNWaadm	SUNWpaadm	Solaris 9 System Administrator Collection
SUNWdev	SUNWpdev	Solaris 9 Developer Collection
SUNWids	SUNWpids	iPlanet Directory Server 5.1 Collection

Workaround: Choose one of the following workarounds:

- If the uninstall process unexpectedly removed these documentation packages, and you want these packages on your system, reinstall the packages from the Solaris 9 4/04 Documentation 1 of 2 or 2 of 2 CDs.
- To avoid this problem, use the `pkgrm` utility to remove the packages that you want to eliminate from your system.

Localization Issue

The following is a Localization issue that applies to the Solaris 9 4/04 release.

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 9 software for this release: Estonian keyboard Type 6, French Canadian keyboard Type 6, and Polish programmers keyboard Type 5.

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

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

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

- For the Estonian Type 6 keyboard, 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.

Localization Bugs

The following Localization bugs apply to the Solaris 9 4/04 release.

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

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

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.

Sun ONE Application Server Bugs

The following Sun ONE Application Server bugs apply to the Solaris 9 4/04 release.

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

When you attempt to use the Sun ONE Application Server Administrative UI with the Solaris 9 4/04 software default browser, the following error message is displayed:

```
Unsupported Browser: Netscape 4.78

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

Note – If you are running the version of Sun ONE Application Server Administrative UI that is included in the Solaris 9 4/04 release, use Netscape 4.79 or Netscape 7.0 software.

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

Sun ONE Application Server Security Bug

The following Sun ONE Application Server Security bug applies to the Solaris 9 4/04 release.

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

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

- All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory that is available on a system.

- When application server instances and administrative server instances are started automatically, the startup script for each instance is executed as `root`. Execution of nonroot-owned instance startup scripts can give nonroot user access to the `root` user through modification of the instance-level startup scripts.

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

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

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

Execution of the `asadmin start-appserv` command causes the administration server instance and all application server instances, defined in all administrative domains, to be started during Solaris system startup. Because the system startup and shutdown scripts are executed as `root`, the startup script for each application server and administrative server instance is also executed as `root`. The instance-level startup

script is named `startserv` and is located at `instance-dir/bin/startserv`. Because instances can be owned by users other than `root`, the `startserv` scripts could be modified by the nonroot user to execute commands as the `root` user.

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

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

- If your environment does not require all application server and administrative server instances to be started as `root`, then comment out execution of the `asadmin start-appserv` and `asadmin stop-appserv` commands in the `/etc/init.d/appserv` script.

- If your environment requires starting either specific administrative domains or specific instances within one or more administrative domains, you can modify or create a script to automate that process. Note that *specific administrative domains* include the administrative server instance and all application server instances of each domain.

  Perform one of the following steps:

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

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

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

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

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

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

```
instance-b"
    ;;
'stop')
    su - usera -c "/usr/sbin/asadmin stop-instance --domain test-domain
instance-a"
    su - userb -c "/usr/sbin/asadmin stop-instance --domain test-domain
instance-b"
    ;;
```

For more information on the `startup` and `shutdown` commands that are available through the `asadmin` command-line interface, see the *Sun ONE Application Server 7 Administrator's Guide* at `http://docs.sun.com/db/prod/s1.asse`.

Sun ONE Directory Server (Formerly iPlanet Directory Server) Issues

The following issues pertains to the Sun ONE Directory Server processes and tasks.

Setup Issue

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

Schema Issues

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

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

Replication Issue

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

Server Plug-In Issues

Sun ONE Directory Server 5.1 provides the user identification number (UID) Uniqueness plug-in. By default, the plug-in is not activated. To ensure attribute uniqueness for specific attributes, create a new instance of the Attribute Uniqueness plug-in for each attribute. For more information on the Attribute Uniqueness plug-in, refer to the *iPlanet Directory Server 5.1 Administrator's Guide* at http://docs.sun.com.

The Referential Integrity plug-in is now off by default. To avoid conflict resolution loops, the Referential Integrity plug-in should only be enabled on one master replica in a multimaster replication environment. Before enabling the Referential Integrity plug-in on servers that issue chaining requests, analyze your performance resource, time, and integrity needs. Integrity checks can consume significant memory and CPU resources.

Roles and Class of Service Issue

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

Indexing Issue

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

Sun ONE Directory Server Bugs

The following Sun ONE Directory Server bugs apply to the Solaris 9 4/04 release.

Cannot Inactivate Users Through Console (4521017)

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

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

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

The newly created user or newly created role is inactivated.

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

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

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

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

Password Policy Information Is Not Synchronized Between Servers (4527608)

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

Workaround: Manage password policy information manually on each server.

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

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

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

Console Backup Done Immediately After Installation Fails (4531022)

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

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

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

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

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

For example, `/home/foo` and `/home/Foo` paths cannot coexist.

If entry `attr=foo,dc=mycompany,dc=com` exists, the server does not allow the creation of `attr=Foo,dc=mycompany,dc=com`. A corollary of this problem is when LDAP naming services are used, automount path names have to be unique, regardless of their case.

Workaround: None.

Stopping the Server During `Export`, `Backup`, `Restore`, or Index Creation Crashes the Server (4678334)

If the server is stopped during `export`, `backup`, `restore` or index creation, the server crashes.

Workaround: Do not stop the server during these types of operations.

Replication Unable to Use Self-Signed Certificate (4679442)

If you attempt to configure replication over SSL with certificate-based authentication, replication does not work if either of the following conditions exist:

■ The supplier's certificate is self-signed.
■ The supplier's certificate is only capable of behaving as an SSL server certificate that is unable to play the role of the client during an SSL handshake.

Workaround: None.

UFS File System Issue

The following UFS File System issue applies to the Solaris 9 4/04 release.

SPARC: Do Not Create a UFS File System on VxVM Volumes Greater Than 2 Tbytes in Size

If you attempt to create a UFS file system on a Veritas Volume Manager (VxVM) volume that is of 2 Tbytes or greater, you produce an error state. The outcome is a file system that is the size of the VxVM volume modulo 2 Tbytes. For example, a VxVM volume 8.4 Tbytes in size would produce a .4 Tbyte file system.

No warning message is displayed.

Workaround: None.

UFS File System Bug

The following UFS File System bug applies to the Solaris 9 4/04 release.

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

Using the `fssnap` command to create a snapshot of a UFS file system that is greater than 1 Tbyte in size is not supported in the Solaris 9 4/04 release. The following error message is displayed:

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

Workaround: None.

End-of-Software Support Statements

This chapter lists end-of-support statements. For late-breaking end-of-support statements that were not identified in time to be included in these release notes, refer to the *Solaris 9 4/04 Release Notes* at http://docs.sun.com/db/doc/817-3804.

The following end-of-software support statement has been added since the Solaris 9 4/04 Beta Release Notes was published on http://docs.sun.com.

- "Sun Java System Application Server Platform Edition 7.0 (Formerly Sun ONE Application Server 7.0 Platform Edition)" on page 93

Features Removed From the Solaris 9 Software

The following features are no longer supported in the Solaris 9 software.

`adb` Map Modifiers and Watchpoint Syntax

The `adb` utility is implemented as a link to the new `mdb` utility in this release.

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

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

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

  The `adb` command `123:456w` is specified in the `mdb` man page as `123,456:w`.

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

AnswerBook2 Server

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

`aspppd` Utility

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

`ATOK8` Japanese Input Method

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

`crash` Utility

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

The *Solaris Modular Debugger Guide* provides information for users who are making the transition from using `crash` to using `mdb`.

Crash Dump Options for Solaris `ipcs` Command

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

`cs00` Japanese Input Method

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

If you upgrade to the Solaris 9 software from a previous release, the existing public user dictionary `/var/mle/ja/cs00/cs00_u.dic` is removed.

Two Japanese input methods, `ATOK12` and `Wnn6`, are supported in the Solaris 9 software. For more information on the `ATOK12` and `Wnn6` input methods, see the *International Language Environments Guide*.

x86: `devconfig` Command

The `devconfig` command is no longer supported in this release.

x86: Device and Driver Software Support

The following table lists devices and driver software that are no longer supported in this release:

TABLE 3–1 Devices and Driver Software

Name of Physical Device	Name of Driver	Type of Card
Mylex/Buslogic FlashPoint Ultra PCI SCSI	`flashpt`	SCSI HBA
Madge Token Ring Smart 16/4, Madge Token Ring Smart 16/4 PCI BM Mk2, Madge Token Ring Smart 16/4 PCI BM Mk1, and Madge Token Ring PCI Presto	`mtok`	Network

TABLE 3–1 Devices and Driver Software   *(Continued)*

Name of Physical Device	Name of Driver	Type of Card
Compaq Integrated NetFlex-3 10/100 T PCI, Compaq NetFlex-3/P, Compaq NetFlex-3 DualPort 10/100 TX PCI, Compaq Netelligent 10 T PCI, and Compaq Netelligent 10/100 TX PCI	cnft	Network

Early Access (EA) Directory

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

Emulex MD21 Disk Controller for ESDI Drives

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

enable_mixed_bcp Tunable

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

x86: Intel 486–Based Systems

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

japanese Locale Name Alternate

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

Java Software Developer's Kit (SDK) 1.2.2

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

JDK 1.1.8 and JRE 1.1.8

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

Kerberos Version 4 Client

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

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

OpenWindows Toolkits for Developers

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

OpenWindows Environment for Users

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

Priority Paging and Related Kernel Tunables (`priority_paging/cachefree`)

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

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

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

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

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

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

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

   * set priority_paging=1
   ```

`s5fs` File System

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

`sendmail` Utility Features

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

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

Solaris Maintenance Updates

The separate patch collections provided in conjunction with the Solaris releases, the
Solaris Maintenance Updates (MUs), are no longer supported in this release.

`SUNWebnfs` Package

The `SUNWebnfs` package is no longer included on the Solaris software media.

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

`sun4d`–Based Servers

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

- SPARCserver™ 1000
- SPARCcenter 2000

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

`SUNWrdm` Package

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

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

Features That Might Be Removed in a Future Release

The following features might not be supported in a future release of the Solaris software.

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

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

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

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

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

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

`AdminTool` Command

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

Asian Short `dtlogin` Names

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

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

The Solaris 8, Solaris 9, and Solaris 9 4/04 releases provide new ISO-standard locale names, which include the following locale names:

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

`asysmem()` and `sysmem()` Interfaces

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

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

Audit Daemon Interfaces

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

- `auditsvc(2)`
- `audit_data(4)`

Device Allocation Interfaces For the Basic Security Module

The following components of the device allocation mechanism of the Basic Security Module might not be included in a future release of the Solaris 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
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_getiminor	getminor
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_mapdev	devmap_setup
ddi_mapdev_intercept	devmap_load
ddi_mapdev_nointercept	devmap_unload
ddi_prop_create	ddi_prop_update

Obsolete Interface	Preferred Interface
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
scsi_pktfree	scsi_destroy_pkt
scsi_resalloc	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}
GLOBAL_DEV	Specify 0
NODEBOUND_DEV	Specify 0
NODESPECIFIC_DEV	Specify 0
ENUMERATED_DEV	Specify 0
DDI_IDENTIFIED	not needed

Obsolete Interface	Preferred Interface
`DDI_NOTIDENTIFIED`	`not needed`

Device Management Entries in `power.conf`

The Device Management entries in the `power.conf` file might not be supported in a future release. Similar capability is provided by the Automatic Device Power Management entries in the Solaris 9 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 3–2 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

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

The following nonstandard-input key sequences for the Euro character in Solaris Unicode/UTF-8 locales might not be supported in a future release:

- Alt-E
- Alt-4
- Alt-5
- Meta-E
- Meta-4
- Meta-5

> **Note –** In the key sequences, a hyphen indicates simultaneous keystrokes. A plus sign indicates consecutive keystrokes.

The following are the recommended standard-input key sequences:

- Alt Graph-E
- Compose+C+=

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

- Ctrl-Shift-T+C+=

Federated Naming Service XFN Libraries and Commands

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

fork() Function

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

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

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

GMT Zoneinfo Time Zones

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

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

SPARC: Graphic Driver Support

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

Device	Driver
MG1,MG2	bwtwo
CG3	cgthree
SX/ CG14	sx, cgfourteen
TC	cgeight
TCX	tcx

Java Runtime Environment 1.2.2

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

Kodak Color Management System

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

Korean CID Fonts

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

Lance Ethernet (le) Drivers

le network drivers might not be supported in a future release.

`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.

Lightweight Directory Access Protocol (LDAP) Client Library

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

Obsolete Lightweight Process (LWP) Interfaces

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

- `_lwp_create`
- `_lwp_detach`
- `_lwp_exit`
- `_lwp_getprivate`
- `_lwp_makecontext`
- `_lwp_setprivate`
- `_lwp_wait`

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

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

Nameless Interface Groups Feature

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

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

Netscape 4.7x Software

Netscape™ 4.7x software might not be supported in a future release.

Netscape 6.2x and Netscape 7.0 Software

Netscape 6.2x software and Netscape 7.0 software might not be supported in a future release.

`netstat -k` Option

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

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

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.

`pam_unix` Module

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

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

Perl Version 5.005_03

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

Power Management I/O Control Commands

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

- PM_DISABLE_AUTOPM
- PM_REENABLE_AUTOPM
- PM_SET_CUR_PWR
- PM_GET_CUR_PWR
- PM_GET_NORM_PWR

The following alternative ioctls are supported in the Solaris 9 4/04 release:

- PM_DIRECT_PM
- PM_RELEASE_DIRECT_PM
- PM_GET_CURRENT_POWER
- PM_SET_CURRENT_POWER
- PM_GET_FULL_POWER

For more information on these alternative ioctls, see the ioctl(2) man page.

64-bit SPARC: ptrace Interface in libc

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

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

`sendmailvars` and the `L` and `G` `sendmail.cf` commands

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

SPARC: 64-bit Packages

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

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

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

`sdtjmplay` Desktop Java Media Player

The Desktop Java Media player, `/usr/dt/bin/sdtjmplay`, that is based on the Java Media Framework 1.1, might not be provided in a future release. Users should migrate to `/usr/bin/jmplay`, the Java Media Player that is based on the newer Java Media Framework 2.1.1 release.

The `jmplay` Java Media Player is included in the Solaris 9 8/03 and later releases. `jmplay` is also available for the Solaris 8 and earlier Solaris 9 releases, as part of the GNOME 2.0 Desktop Environment.

The GNOME 2.0 Desktop Environment is available for download by going to http://www.sun.com/gnome/.

Serial Parallel Controller (SPC) Driver

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

Solaris 32-bit `Sun4U` Kernel

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

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

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

The primary impact of these changes is to systems that rely on third-party, 32-bit kernel modules: firewalls, kernel-resident drivers, and replacement file systems, for example. These systems must be updated to use 64-bit versions of those modules.

Another impact of these changes is that UltraSPARC systems that contain UltraSPARC I processors with clocks that run at 200 MHz or lower frequencies might not be supported in a future release.

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

% **isainfo –kv**

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

% **psrinfo –v | grep MHz**

Solaris Static System Libraries

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

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

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

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

Solaris Volume Manager Transactional Volume

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

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.

Storage Interfaces

The following interfaces for device driver properties might not be supported in a future release:

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

The following device drivers might not be supported in a future release:

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

The following utility might not be supported in a future release:

- `/usr/sbin/ssaadm`

`sun4m` Hardware

`sun4m` hardware might not be supported in a future release.

Sun Java System Application Server Platform Edition 7.0 (Formerly Sun ONE Application Server 7.0 Platform Edition)

Version 7.0 of Sun Java System Application Server Platform Edition might not be supported in a future release. Similar capability is provided by Sun Java System Application Server Platform Edition 8 and compatible versions.

While most Java 2 Platform, Enterprise Edition (J2EE) applications will run unchanged in the Sun Java System Application Server Platform Edition 8, applications that use proprietary unstable APIs will require modification.

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

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

- Sun StorEdge™ A3000 system
- Sun StorEdge A3500 system
- Sun StorEdge A3500FC system

Tape Devices

The following tape devices might not be supported in a future release:

- Sun StorEdge™ DLT4700 Tape Autoloader
- Sun StorEdge L140 Tape Library
- Sun StorEdge L280 Tape Autoloader
- Sun StorEdge L400 Tape Library
- Sun StorEdge L1800 Tape Library
- Sun StorEdge L3500 Tape Library
- Sun StorEdge L11000 Tape Library

Ultra AX and SPARCengine Ultra AXmp Graphics Card

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

32-bit: X11 Static Libraries

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

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

XIL Interface

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

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

`xetops` Utility

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

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

`xutops` Print Filter

The `xutops` print filter might not be supported in a future release. Similar capability is provided by the `mp` print filter in the Solaris 9 4/04 release.

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

Documentation Issues

This chapter describes known documentation problems. For documentation issues identified too late to be included in these release notes, refer to the *Solaris 9 4/04 Release Notes* at http://docs.sun.com/db/doc/817-3804.

The following documentation issues have been added to this chapter since the Solaris 9 4/04 Beta Release Notes was published on http://docs.sun.com.

- "Document Affected: *Solaris 9 4/04 Installation Guide*" on page 95
- "Document Affected: *Sunscreen 3.2 Configuration Examples Manual*" on page 96
- "Document Affected: LDAP Naming Services Setup and Administration in *System Administration Guide: Naming and Directory Services (DNS, NIS, and LDAP)*" on page 97
- "Document Affected: Administering DHCP (Task) in *System Administration Guide: IP Services*" on page 97

Document Affected: *Solaris 9 4/04 Installation Guide*

Descriptions of naming conventions for creating RAID-1 volumes with the custom JumpStart™ installation method in the *Solaris 9 4/04 Installation Guide* are inadequate. If RAID-1 volumes are named incorrectly, the RAID-1 volume might not be created during the installation.

When you use the custom JumpStart installation method to create RAID-1 volumes (mirrors) and RAID-0 volumes (submirrors), you can let the software detect and assign volume names to mirrors, or you can assign the names in the profile. If you let the software detect the names, the software assigns the first volume number that is available. If you assign names in the profile, assign mirror names ending in zero so that the installation can use the names ending in 1 and 2 for submirrors. If you assign

numbers incorrectly, the mirror might not be created. For example, if you specify a mirror name with a number that ends in 1 or 2 (d1 or d2), the JumpStart program fails to create the mirror if the mirror name is a duplicate of a submirror's name

In the following profile example, the mirror is assigned the first volume numbers that are available. If the next available mirror ending in zero is d10, then the names d11 and d12 are assigned to the submirrors.

```
filesys                 mirror c0t0d0s1  /
```

In the following profile example, the mirror number is assigned in the profile as d30. The submirror names are assigned by the software based on the mirror number and the first available submirrors. In this example, the submirrors are named d31 and d32.

```
filesys                 mirror:d30 c0t1d0s0 c0t0d0s0  /
```

Document Affected: *Sunscreen 3.2 Configuration Examples Manual*

In the chapter, "Using High Availability (HA)", sections 1b and 4b, on pages 72 and 73, should read as follows:

- **Section 1b:**

  If it does not already exist, configure the HA heartbeat interface.

  For `bos-screen1` in this example, use the following command:

  ```
  # echo "10.0.4.1" > /etc/hostname.hme3
  ```

- **Section 4b:**

  If it does not already exist, configure the HA heartbeat interface.

  For `bos-screen2` in this example, use the following command:

  ```
  # echo "10.0.4.2" > /etc/hostname.hme3
  ```

Document Affected: LDAP Naming Services Setup and Administration in *System Administration Guide: Naming and Directory Services (DNS, NIS, and LDAP)*

References to the use of the `ldapclient` command options in the "LDAP Naming Services Setup and Administration" section of the *System Administration Guide: Naming and Directory Services (DNS, NIS, and LDAP)* are incorrect. For all Solaris 9 releases, the command syntax should be changed to the following:

Incorrect Reference	Correct Reference
`ldapclient -l`	`ldapclient list`
`ldapclient -p`	`ldapclient init` [`-a` *attribute name*]
`ldapclient -m`	`ldapclient mod`

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

Document Affected: Administering DHCP (Task) in *System Administration Guide: IP Services*

The section, "Creating DHCP Options and Macros for Solaris Installation Parameters", should include the following information regarding DHCP Vendor Options Size Limitations:

Note that the sum total of the values assigned to all the options in a macro must not exceed 255 bytes, including the option codes and length information. This limit is dictated by the DHCP protocol.

Generally, you should pass the minimum amount of vendor information needed. You should use short path names in options that require path names. If you create symbolic links to long paths, you can pass the shorter link names.

Document Affected: Using the CIM Object Manager in *Solaris WBEM Developer's Guide*

Several patches require that the CIM Object Manager be started manually, after the patches have been applied. The following is a list of those patches:

SPARC	x86
112943–08	114192–04
114503–03	114504–03
112945–20	114193–13
114711–02	114712–02

To restart the CIM Object Manager, follow these steps:

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

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

For more information about stopping and restarting the CIM Object Manager, see "Stopping and Restarting the CIM Object Manager," in the *Solaris WBEM Developer's Guide*.

Solaris 9 4/04 Operating System Patch List

The patches that are listed in this appendix have been applied to the Solaris 9 4/04 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 9 4/04 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 9 4/04 software includes a known and tested level of patches. However, patches cannot be backed out of the Solaris 9 4/04 release.

Note – The Solaris 9 4/04 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

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

4654328 4222874 4514485 4483221 4504348 4631517 4654957

- **111711-08 – SunOS 5.9: 32-bit Shared library patch for C++**

```
4618537 4619221 4660290 4668167 4679619 4680478 4686364 4709155 4710815 4302954 4698028
4699194 4704604 4708982 4745600 4747931 4749398 4749628 4750936 4756106 4794587 4797953
4806782 4820555 4851358 4825898 4828443 4853946 4856138 4861853 4886310 4884516 4894898
4918858 4876793 4919536 4864189 4945846 4949404 4951789 4953582 4953639 4965215
```

■ **111712-08 – SunOS 5.9: 64-Bit Shared library patch for C++**

```
4618537 4660290 4668167 4679619 4680478 4686364 4709155 4710815 4302954 4698028 4699194
4704604 4708982 4745600 4747931 4749398 4749628 4750936 4756106 4794587 4797953 4806782
4820555 4851358 4825898 4828443 4853946 4856138 4861853 4886310 4884516 4894898 4918858
4876793 4919536 4864189 4945846 4949404 4951789 4953582 4953639 4965215
```

■ **111722-04 – SunOS 5.9: Math Library (libm) patch**

```
4652341 4664522 4810765 4817713 4820770
```

■ **112233-12 – SunOS 5.9: Kernel Patch**

```
1101554 4114317 4115610 4201022 4203748 4254013 4259149 4336082 4352265 4354427 4357217
4360843 4371826 4375052 4382913 4390777 4396697 4401262 4407972 4409244 4412320 4416645
4417647 4419540 4425786 4462509 4466085 4466741 4466818 4469395 4473583 4479794 4484338
4487572 4488694 4490164 4491038 4495650 4496935 4498831 4500536 4502640 4504686 4507281
4509659 4511634 4512855 4519289 4520669 4520798 4521521 4521525 4522402 4524005 4524236
4525533 4527648 4532512 4533078 4533108 4533270 4533712 4592876 4613988 4614574 4617247
4618812 4619267 4619870 4622581 4623395 4625392 4627510 4627620 4629396 4629569 4630273
4630754 4631275 4631903 4633008 4633015 4633655 4634031 4634907 4636049 4636186 4637031
4638234 4638346 4638608 4638981 4639079 4639552 4640210 4640282 4640542 4640982 4641546
4641562 4642754 4643857 4644123 4644346 4644731 4644822 4645471 4647361 4648171 4648388
4649104 4649557 4649851 4650210 4651201 4652995 4653044 4653919 4653957 4655634 4656795
4657510 4658216 4659144 4659588 4659777 4659882 4659950 4660167 4661403 4661424 4661605
4662169 4662795 4662866 4663297 4664249 4664740 4664749 4664967 4666799 4666858 4667688
4667724 4669462 4669486 4670609 4671383 4672604 4672677 4672730 4672991 4673299 4673676
4674788 4675057 4675827 4675868 4676535 4676707 4677620 4678303 4678396 4680447 4681040
4682258 4682824 4682913 4682918 4683307 4683862 4684649 4686454 4686943 4687362 4687850
4688392 4688398 4688704 4689309 4691127 4691577 4691670 4692542 4693350 4693574 4694382
4694445 4694560 4695771 4695786 4696700 4697189 4697205 4697219 4697555 4697693 4698325
4698684 4699257 4699850 4700697 4701391 4701854 4702559 4703343 4703422 4704851 4704996
4705144 4707874 4708822 4709147 4709805 4711013 4711133 4711217 4711218 4711745 4712228
4712247 4712511 4712882 4713110 4713403 4713409 4713787 4714062 4714245 4714688 4714988
4715897 4716210 4716320 4717004 4717581 4718013 4718366 4718565 4719361 4719365 4719669
4720790 4721112 4721396 4722493 4722897 4723473 4725286 4725524 4726041 4729275 4729479
4729683 4730464 4731198 4732328 4734635 4735093 4736439 4736802 4737372 4737656 4738280
4739920 4740300 4740766 4740769 4742711 4743053 4744248 4744825 4745039 4745795 4746505
4747307 4747714 4748309 4748411 4748843 4749268 4749542 4749662 4749934 4754201 4756231
4756923 4756968 4757023 4757216 4757217 4757311 4757427 4757685 4757718 4759341 4759384
4760434 4761972 4762184 4762697 4763047 4763130 4763284 4763402 4763631 4763813 4764351
4764514 4764855 4766103 4768631 4769147 4769411 4770236 4771216 4772038 4772117 4772200
4772712 4772813 4772938 4773620 4775105 4775225 4776141 4776340 4779758 4779923 4780607
4780672 4780968 4781113 4781213 4784039 4784529 4785044 4785304 4785321 4785492 4785538
4786613 4788230 4788692 4788766 4789213 4789964 4790144 4790941 4791004 4791375 4791734
4791797 4792494 4793178 4793485 4793905 4794501 4794712 4795674 4796430 4797520 4797833
4797841 4798095 4798883 4799039 4799057 4799331 4799482 4799964 4801624 4802549 4803265
4803293 4803645 4804524 4804998 4805126 4805135 4805889 4806176 4806695 4806726 4807341
4808811 4808976 4809427 4809516 4810029 4810810 4812284 4812495 4815160 4816791 4816970
4819633 4820199 4820268 4820881 4821425 4821560 4822207 4822916 4823616 4823794 4824314
4824684 4824988 4825042 4825299 4826425 4827119 4827657 4828704 4828785 4829241 4829272
4830128 4830207 4830650 4831983 4832104 4832222 4832963 4833032 4833129 4834383 4834559
```

```
4836134 4836575 4836611 4837250 4837378 4838367 4839059 4840464 4841551 4841716 4842738
4843000 4844839 4845500 4845974 4846355 4846488 4847372 4847429 4848215 4848538 4849297
4849433 4850672 4852269 4852595 4853405 4854496 4854840 4854928 4855160 4855271 4855825
4856084 4856452 4857861 4857890 4858401 4858518 4858710 4860142 4860644 4860789 4861807
4863460 4863473 4865678 4867775 4869170 4869242 4870519 4870759 4872043 4872125 4872727
4872902 4873681 4874096 4874917 4875077 4876225 4876816 4876829 4880098 4880360 4880617
4881707 4882780 4883780 4884138 4884410 4527681 4650055 4656013 4660429 4671573 4707744
4718277 4759414 4771770 4779489 4782136 4792353 4819970 4843595 4844596 4848485 4852341
4868004 4937693 4901165 4926374 4919572 4920721 4951497 4885140 4885266 4886961 4887064
4888569 4888712 4891218 4891340 4891731 4892223 4892462 4892667 4893310 4895681 4896336
4896671 4899147 4899280 4899522 4900113 4900694 4901953 4902250 4902715 4903724 4904187
4904300 4904906 4905628 4907723 4910649 4912731 4914079 4915531 4915829 4918452 4921227
4921384 4922074 4922244 4924092 4926980 4933109 4934641 4935140 4935283 4936678 4937102
4939432 4940715 4945272 4948460 4950181 4955340 4960373 4964310 4976241 4984058 4984625
4998060 5005931 5010573
```

- **112540-19 – SunOS 5.9: Expert3D IFB Graphics Patch**

```
4652111 4645735 4650501 4316968 4515693 4494062 4497748 4649811 4652804 4654897 4659006
4663042 4624812 4663732 4664981 4651919 4697564 4703423 4668373 4655393 4675933 4698167
4691212 4617170 4720843 4731406 4733511 4773758 4744109 4773187 4799602 4819025 4811078
4796686 4800990 4821124 4770590 4829271 4835610 4834943 4841559 4842523 4834826 4849515
4807363 4855275 4838855 4859777 4860483 4855696 4891694 4878341 4514222 4892346 4890601
4904242 4904716 4927661
```

- **112565-16 – SunOS 5.9: XVR-1000 GFB Graphics Patch**

```
4636225 4640002 4629777 4638125 4635704 4643375 4587680 4636721 4639155 4643767 4637546
4636748 4641167 4641177 4636866 4636788 4636846 4637796 4652512 4669035 4668381 4670095
4674533 4679353 4685579 4708069 4664996 4671387 4675252 4679830 4699753 4703545 4730199
4717529 4676118 4739840 4734313 4758471 4759742 4745719 4766223 4674551 4772063 4772398
4768264 4775646 4771302 4781933 4783131 4790859 4792390 4772798 4649442 4669039 4805898
4796917 4804999 4772027 4810194 4811518 4805014 4815925 4841960 4824880 4857396 4857379
4898864 4793154 4890323 4897108 4914546 4925658 4907857
```

- **112601-09 – SunOS 5.9: PGX32 Graphics**

```
4502887 4633850 4688024 4728662 4740340 4800057 4776309 4715825 4897594 4897600 4802284
4898192 4863629
```

- **112613-04 – SunScreen 3.2: miscellaneous fixes for Solaris 9 SPARC**

```
4458205 4474065 4475718 4475976 4484731 4494052 4498719 4504550 4504560 4504562 4530873
4531796 4546483 4599245 4621944 4623384 4627419 4632254 4636508 4636511 4636514 4641757
4641855 4650187 4658497 4693028 4708402 4710480 4710493 4713896 4729278 4731099 4760976
4762492 4764370 4764373 4767244 4770205 4790511 4801062 4861572 4833684 4389132 4433735
4821206
```

- **112617-02 – CDE 1.5: rpc.cmsd patch**

```
4641721 4687131
```

- **112620-10 – SunOS 5.9: Elite3D AFB Graphics Patch**

```
4651358 4714683 4747203 4750896 4685879 4790842 4825115 4898180 4894194 4888713 4923277
4944261
```

- **112621-11 – SunOS 5.9: Creator and Creator3D: FFB Graphics Patch**

```
4663332 4651358 4714683 4747203 4750896 4685879 4649465 4790842 4779687 4798233 4898178
4894194 4885577 4923277
```

- **112622-13 – SunOS 5.9: M64 Graphics Patch**

```
4531901 4632595 4668719 4672129 4682681 4452851 4633941 4684877 4692693 4737335 4749353
4769331 4735033 4809395 4810073 4823882 4788379 4850359 4884504 4892535 4910182 4692955
4930077 4941630
```

- **112625-01 – SunOS 5.9: Dcam1394 patch**

```
4699746 4827215
```

- **112661-06 – SunOS 5.9: IIIM and X Input & Output Method patch**

```
4901772 4803378 4805181 4805730 4823672 4593130 4412147 4726723 4629783 4721656 4721661
4742096 4691874 4650804 4774826 4645171 4643078 4664772 4604634 4617694 4617691 4471922
4691871 4686165 4515546 4772485 4777933 4776987 4770994
```

- **112764-07 – SunOS 5.9: Sun Quad FastEthernet qfe driver**

```
4838454 4779492 4792488 4792493 4807151 4790953 4772916 4760845 4681502 4738051 4727494
4704689 4717401 4719739 4451757 4367043 4411205 4664588 4655451 4292608 4645631 4911012
4876420 4794828
```

- **112771-18 – Motif 1.2.7 and 2.1.1: Runtime library patch for Solaris 9**

```
4512887 4663311 4664492 4679034 4615922 4661767 4699202 4741124 4757112 4743372 4712265
4750419 4717502 4787387 4756028 4764309 4782506 4839891 4887144 4891948 4475248 4816308
4930029 4852622 4942777 4953649 4762150 4946432
```

- **112783-01 – X11 6.6.1: xterm patch**

```
4636452 4657934
```

- **112785-33 – X11 6.6.1: Xsun patch**

```
4649617 4651949 4642632 4644622 4531892 4692623 4700844 4712590 4710958 4710402 4703884
4638864 4729267 4675755 4677235 4729905 4763009 4707069 4709009 4760672 4734353 4762797
4740125 4732113 4676222 4753720 4736505 4780894 4633549 4798375 4742744 4682788 4787692
4809081 4818111 4784311 4809776 4716007 4838617 4828474 4785372 4422011 4805863 4787416
4847054 4868692 4748474 4707057 4721898 4846090 4743878 4843234 4858548 4866506 4880222
4701451 4709918 4785959 4834460 4863536 4894855 4845579 4847731 4248632 4680913 4790284
4889121 4750598 4889164 4781056 4913527 4886190 4780425 4839220 4874319 4889565 4922200
4961781 4957436 4810740 4907034 4989547 4991847
```

- **112787-01 – X11 6.6.1: twm patch**

```
4659947
```

- **112804-01 – CDE 1.5: sdtname patch**

```
4666081
```

- **112805-01 – CDE 1.5: Help volume patch**

```
4666089
```

- **112806-01 – CDE 1.5: sdtaudiocontrol patch**

```
4666089
```

- **112807-08 – CDE 1.5: dtlogin patch**

```
4667119 4648724 4750889 4761698 4807292 4720523 4768118 4687193 4864597 4840141
```

■ **112808-06 – CDE1.5: Tooltalk patch**

```
4722127 4741187 4744289 4784893 4668701 4707187 4713445 4865325 4871091 4915560
```

■ **112809-02 – CDE:1.5 Media Player (sdtjmplay) patch**

```
4663628 4731319
```

■ **112810-05 – CDE 1.5: dtmail patch**

```
4712584 4715670 4786715 4714769 4715322 4862205 4877306
```

■ **112811-01 – OpenWindows 3.7.0: Xview Patch**

```
4690979
```

■ **112812-01 – CDE 1.5: dtlp patch**

```
4646929
```

■ **112817-16 – SunOS 5.9: Sun GigaSwift Ethernet 1.0 driver patch**

```
4658962 4651090 4648346 4647988 4645885 4637950 4629291 4675241 4640855 4686107 4686121
4686126 4704372 4696480 4703803 4699088 4698533 4687821 4678583 4704413 4703839 4707612
4702980 4690650 4690643 4730696 4728208 4724811 4717637 4717385 4681554 4708816 4678908
4710796 4735212 4708099 4735224 4735240 4746230 4739846 4738499 4753634 4754360 4753629
4763533 4762837 4804568 4798684 4792519 4784093 4779486 4734902 4845437 4841922 4841619
4833497 4830725 4827852 4817746 4813252 4797403 4763498 4850591 4850593 4850596 4850598
4850601 4842533 4840375 4827599 4861928 4858668 4878966 4873132 4878072 4872163 4885316
4892531 4899721 4884801 4898660 4894783 4892527 4899720 4915383 4915384 4877395 4915216
4883900 4906860 4924976 4892948 4922948 4925585 4928320 4935473 4939954 4929138 4900973
4948197 4948202 4952687 4952213 4952649
```

■ **112834-03 – SunOS 5.9: patch scsi**

```
4628764 4656322 4656416 4883142
```

■ **112835-01 – SunOS 5.9: patch /usr/sbin/clinfo**

```
4638788
```

■ **112837-03 – SunOS 5.9: patch /usr/lib/inet/in.dhcpd**

```
4621740 4678758 4721862
```

■ **112838-09 – SunOS 5.9: pcicfg Patch**

```
4407705 4496757 4711639 4716320 4716448 4717617 4718370 4787898 4792953 4793178 4834066
4835953 4853539 4948204 5001947
```

■ **112839-07 – SunOS 5.9: libthread shared objects patch**

```
4254013 4479187 4524527 4533712 4647410 4647927 4667173 4679005 4688450 4749669 4768343
4769150 4769166 4786566 4792908 4795308 4819289 4855271 4897700
```

■ **112854-02 – SunOS 5.9: icmp Patch**

```
4511634 4647983
```

■ **112868-15 – SunOS 5.9: OS Localization message patch**

```
4658681 4685336 4706059 4681374 4733193 4734495 4736248 4775204 4767999 4809660 4831626
4804312 4817097 4841909 4881566 4896232 4909364 4907285 4938538 4949060 4951926 4960952
4652810 4977809
```

- **112874-23 – SunOS 5.9: lgroup API libc Patch**

```
1258570 4152876 4165723 4192824 4221365 4223846 4248430 4254013 4271957 4318178 4353836
4390053 4444569 4489885 4503048 4510326 4518988 4530367 4533712 4635556 4656492 4661997
4669963 4683320 4686454 4694626 4700602 4704190 4705942 4709984 4749274 4756113 4756148
4756192 4764855 4767215 4770160 4772200 4772960 4782294 4795713 4797219 4810810 4812362
4818401 4828746 4831309 4839080 4844583 4845974 4863473 4871054 4877492 4878257 4881606
4888508 4894760 4904877 4950403 4961173
```

- **112875-01 – SunOS 5.9: patch /usr/lib/netsvc/rwall/rpc.rwalld**

```
4664537
```

- **112905-02 – SunOS 5.9: ippctl Patch**

```
4644731 4647361 4712511
```

- **112906-03 – SunOS 5.9: ipgpc Patch**

```
4644731 4647361 4664957 4984625
```

- **112907-02 – SunOS 5.9: libgss Patch**

```
4197937 4220042 4642879 4829637
```

- **112908-12 – SunOS 5.9: krb5 shared object Patch**

```
4197937 4220042 4430138 4516537 4521000 4526202 4630574 4642879 4657596 4666887 4671577
4690212 4691352 4711993 4727224 4743181 4744280 4794436 4830044 4836676 4841013 4846024
4847827 4881066 4882946
```

- **112911-06 – SunOS 5.9: ifconfig Patch**

```
1148813 1240645 4075054 4327168 4341344 4396697 4417647 4425786 4475921 4479794 4488694
4532805 4532808 4532860 4559001 4587434 4592876 4635766 4637330 4637788 4639729 4648299
4648388 4660167 4661975 4673190 4676731 4685978 4688392 4688398 4688704 4690565 4694560
4699047 4701276 4705755 4726444 4728056 4728423 4775897 4777295 4803389 4804064 4804756
4808860 4828297 4834142 4836677 4859127 4865207 4929493 4959954
```

- **112912-01 – SunOS 5.9: libinetcfg Patch**

```
4396697 4417647 4425786 4479794 4592876 4648388
```

- **112913-01 – SunOS 5.9: fruadm Patch**

```
4505850
```

- **112915-02 – SunOS 5.9: snoop Patch**

```
1148813 1240645 4075054 4259149 4327168 4341344 4396697 4417647 4425786 4473583 4475921
4479794 4532805 4532808 4532860 4559001 4587434 4592876 4635766 4637330 4637788 4648299
4648388 4744248 4763631
```

- **112916-01 – SunOS 5.9: rtquery Patch**

```
1148813 1240645 4075054 4327168 4341344 4475921 4532805 4532808 4532860 4559001 4587434
4635766 4637330 4637788 4648299
```

- **112917-01 – SunOS 5.9: ifrt Patch**

```
4645471
```

■ **112918-01 – SunOS 5.9: route Patch**

```
1148813 1240645 4075054 4327168 4341344 4475921 4532805 4532808 4532860 4559001 4587434
4635766 4637330 4637788 4645471 4648299
```

■ **112919-01 – SunOS 5.9: netstat Patch**

```
4645471
```

■ **112920-02 – SunOS 5.9: libipp Patch**

```
4644731 4647361 4712511
```

■ **112921-03 – SunOS 5.9: libkadm5 Patch**

```
4197937 4220042 4642879 4727188 4831653 4836676 4838735
```

■ **112922-02 – SunOS 5.9: krb5 lib Patch**

```
4197937 4220042 4642879 4668699
```

■ **112923-03 – SunOS 5.9: krb5 usr/lib Patch**

```
4197937 4220042 4642879 4703622 4836676
```

■ **112924-01 – SunOS 5.9: kdestroy kinit klist kpasswd Patch**

```
4197937 4220042 4642879
```

■ **112925-03 – SunOS 5.9: ktutil kdb5_util kadmin kadmin.local kadmind Patch**

```
4197937 4220042 4642879 4646370 4836676
```

■ **112926-05 – SunOS 5.9: smartcard Patch**

```
4366894 4524620 4629775 4635010 4635082 4635106 4636389 4639842 4642726 4646472 4646476
4646497 4647454 4647542 4649161 4655166 4676018 4682730 4683241 4704250 4760613 4876141
```

■ **112927-01 – SunOS 5.9: IPQos Header Patch**

```
4644731 4647361
```

■ **112928-02 – SunOS 5.9: in.ndpd Patch**

```
4396697 4417647 4425786 4479794 4592876 4648388 4728204 4907462
```

■ **112929-01 – SunOS 5.9: RIPv2 Header Patch**

```
1148813 1240645 4075054 4327168 4341344 4475921 4532805 4532808 4532860 4559001 4587434
4635766 4637330 4637788 4648299
```

■ **112941-08 – SunOS 5.9: sysidnet Utility Patch**

```
4519228 4678406 4683519 4698391 4698500 4704974 4711830 4719195 4759857 4787789 4807079
4868757 4904083
```

■ **112943-09 – SunOS 5.9: Volume Management Patch**

```
4429002 4478237 4508734 4516578 4576802 4632847 4637525 4645142 4648750 4656914 4656931
4660125 4664713 4696741 4704081 4715667 4730706 4739995 4764186 4773530 4791015 4791556
4931702
```

■ **112945-24 – SunOS 5.9: wbem Patch**

```
4486297 4496120 4626762 4639638 4641801 4641818 4641851 4643267 4644880 4645051 4645080
4645105 4645146 4645315 4645581 4645811 4647508 4648811 4649058 4654765 4655882 4656941
4658145 4674537 4682188 4686244 4696284 4699585 4700539 4701067 4720857 4739720 4742164
4742960 4754758 4759233 4766098 4766971 4768461 4769053 4769612 4769791 4769795 4769860
4769889 4770013 4770017 4770024 4770027 4771207 4771466 4771469 4771476 4773485 4777931
4781761 4782465 4786712 4786891 4792126 4795642 4796483 4796491 4796519 4796556 4807821
4809906 4813116 4824518 4834362 4845276 4847816 4848759 4866907 4867928 4883742 4931702
4945068
```

- **112951-08 – SunOS 5.9: patchadd and patchrm Patch**

```
4421583 4529289 4623249 4625879 4639323 4678605 4706994 4723617 4725419 4728892 4731056
4737767 4744964 4750803 4759158 4767392 4850925 4949580 4967080 4985934
```

- **112954-05 – SunOS 5.9: uata Driver Patch**

```
4432931 4498182 4506478 4628670 4643720 4741112 4773958 4776171 4776340 4788885 4801603
4818293 4820811 4831997 4839726
```

- **112955-02 – SunOS 5.9: patch kernel/fs/autofs kernel/fs/sparcv9/autofs**

```
4471199 4631449 4865731
```

- **112958-02 – SunOS 5.9: patch pci.so**

```
4657365 4779758 4695771
```

- **112959-01 – SunOS 5.9: patch libfru**

```
4643255 4661738
```

- **112960-11 – SunOS 5.9: patch libsldap ldap_cachemgr libldap**

```
4357827 4523936 4614945 4624458 4630226 4643366 4645604 4648140 4648146 4658569 4658625
4660019 4677591 4682120 4683522 4720818 4723361 4751386 4757282 4776571 4779333 4780109
4787488 4802414 4830525
```

- **112963-12 – SunOS 5.9: linker patch**

```
4461340 4470917 4504895 4526752 4529912 4533195 4546416 4616944 4621479 4622472 4624658
4630224 4633860 4638070 4642829 4651493 4651709 4654406 4655066 4662575 4664855 4668517
4669582 4671493 4696204 4698800 4701749 4706503 4707808 4710814 4714146 4715815 4716275
4716929 4728822 4730110 4730433 4731183 4739660 4743413 4744337 4744411 4745129 4745932
4746231 4753066 4754751 4755674 4764817 4765536 4766815 4770484 4770494 4772927 4774727
4775738 4778247 4778418 4779976 4783869 4787579 4790194 4792461 4793721 4796237 4802194
4804328 4806476 4811093 4811951 4811969 4816378 4817314 4824026 4825065 4825151 4825296
4826315 4830584 4830889 4831544 4831650 4834784 4838226 4845764 4845829 4850703 4865418
4870260 4872634 4889914 4900320 4900684 4904565 4904573 4906062 4911775 4911796 4911936
4918310 4918938 4939869 4946992 4951840
```

- **112964-06 – SunOS 5.9: /usr/bin/ksh Patch**

```
4223444 4702798 4750637 4753777 4786817 4790885 4801490 4804763 4902634 4902666 4985002
```

- **112965-03 – SunOS 5.9: patch /kernel/drv/sparcv9/eri**

```
4467555 4467562 4479894 4496082 4518457 4528597 4546894 4599774 4637678 4797731 4833490
4859554 4869132
```

- **112966-03 – SunOS 5.9: patch /usr/sbin/vold**

```
4638163 4794712 4817817 4895798 4903521 4905812
```

- **112968-01 – SunOS 5.9: patch /usr/bin/renice**

4502191

- **112970-06 – SunOS 5.9: patch libresolv**

4353836 4646349 4700305 4708913 4777715 4793327 4796596 4805812 4810893 4928758

- **112971-05 – SunOS 5.9: patch kernel/fs/cachefs**

4368576 4398885 4493561 4615194 4772960 4865731

- **112972-06 – SunOS 5.9: patch libssagent.so.1 libssasnmp.so.1 mibiisa snmpdx**

4395096 4633918 4643121 4691177 4706022 4787450 4870467 4872468 4883185

- **112975-03 – SunOS 5.9: patch /kernel/sys/kaio**

4682197 4802915 4866849 4874549

- **112985-04 – SunOS 5.9: Volume Management Localization message patch**

4692900 4775188 4804590 4928522

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

4618950

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

4243984 4424387 4558909 4665297 4670382 4670414 4670468 4674435 4705713 4772471 4787413
4812764

- **113020-02 – SunOS 5.9: Fixing Asia and Thai locales related problems**

4674651 4683429 4752139

- **113021-02 – SunOS 5.9: Sync with UTF-8 and correct yesstr/nostr definition**

4660271 4752139

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

4707449

- **113026-19 – SunOS 5.9: /kernel/drv/md Patch**

1101554 4159866 4259149 4352265 4373671 4409244 4462054 4473583 4508010 4518313 4518317
4521998 4525396 4615383 4615387 4628758 4631270 4632281 4634737 4640578 4643091 4647352
4648067 4653481 4655532 4661975 4662172 4665951 4666299 4668224 4668960 4669927 4676731
4678627 4680610 4683907 4690701 4690983 4696312 4698878 4701093 4705486 4705513 4710160
4710390 4711136 4711969 4714648 4714923 4715369 4715443 4718706 4719744 4720138 4721112
4723547 4725693 4733518 4740375 4742084 4744248 4760182 4763631 4772960 4774716 4780601
4796430 4802281 4808079 4808489 4814438 4816898 4816970 4826191 4829703 4830061 4834259
4835153 4839268 4854233 4854410 4866715 4871258 4883796 4893952 4917281 4934706 4935923
4936591 4942378 4948693 4954374 5003251

- **113027-03 – SunOS 5.9: libfrureg.so.1 Patch**

4687199 4726567 4911698

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

4645622 4658416

- **113029-06 – SunOS 5.9: libaio.so.1 librt.so.1 and abi_libaio.so.1 Patch**

```
4222093 4491712 4501001 4529739 4529831 4529893 4635940 4635945 4636591 4665847 4673944
4709171 4785625 4914854
```

- **113031-03 – SunOS 5.9: /usr/bin/edit Patch**

```
4349324 4635504
```

- **113032-02 – SunOS 5.9: /usr/sbin/init Patch**

```
4503048 4662013
```

- **113033-03 – SunOS 5.9: patch /kernel/drv/isp and /kernel/drv/sparcv9/isp**

```
4521066 4657311 4661696 4672156 4682951 4729861
```

- **113038-08 – SunOS 5.9: JFP manpages patch**

```
4808428 4809083 4695070 4742031 4688476 4710452 4717366 4851824 4852478 4907337 4907341
4961965 4961971 4979314
```

- **113046-01 – SunOS 5.9: fcp Patch**

```
4529255
```

- **113049-01 – SunOS 5.9: luxadm & liba5k.so.2 Patch**

```
4334693 4622990 4716238 4820044
```

- **113068-04 – SunOS 5.9: hpc3130 patch**

```
4672995 4698278 4762081 4799299
```

- **113070-01 – SunOS 5.9: ftp patch**

```
4658282
```

- **113071-01 – SunOS 5.9: patch /usr/sbin/acctadm**

```
4696138
```

- **113072-07 – SunOS 5.9: patch /usr/sbin/format**

```
4334693 4622990 4670999 4689757 4716238 4726667 4766161 4777332 4781880 4785642 4791416
4820859 4826988
```

- **113073-05 – SunOS 5.9: ufs_log patch**

```
1101554 4138139 4330959 4409244 4651323 4785875 4794712 4807979 4807983 4815160 4817074
4825181
```

- **113074-04 – SunOS 5.9: ngdr.conf patch**

```
4654448 4712441
```

- **113075-01 – SunOS 5.9: pmap patch**

```
4660871
```

- **113076-02 – SunOS 5.9: dhcpmgr.jar Patch**

```
4643257 4673713 4687991 4731988
```

- **113077-11 – SunOS 5.9: /platform/sun4u/kernal/drv/su Patch**

```
4397794 4646641 4666211 4697226 4707716 4709299 4734045 4747008 4764445 4766657 4776340
4781075 4897539 4940982
```

■ **113085-02 – SunOS 5.9: Thai font enhancement**

```
4688066 4708093 4747781
```

■ **113086-01 – SunOS 5.9: iconv modules between zh_CN.euc and UTF-8 are**
   incompatible

```
4672806
```

■ **113087-01 – SunOS 5.9: Cannot use other fonts to display Asian characters in**
   xterm

```
4692528
```

■ **113088-01 – SunOS 5.9: SPECIAL PATCH: Safe default permission violations**

```
4671052
```

■ **113089-01 – SunOS 5.9: SPECIAL PATCH: Bad postremove script of SUNWkuxft**

```
4706829
```

■ **113090-01 – SunOS 5.9: SPECIAL PATCH: Bad postinstall script of SUNWcdft**

```
4714477
```

■ **113096-03 – X11 6.6.1: OWconfig patch**

```
4684184 4682788 4707897
```

■ **113098-04 – X11 6.6.1: X RENDER extension patch**

```
4684184 4737595 4750162 4749332 4770510
```

■ **113110-01 – SunOS 5.9: touch Patch**

```
4482571 4659955
```

■ **113113-01 – SunOS 5.9: Problem with depend file of SUNWhdcl with HK locales**
   in S9

```
4670820
```

■ **113125-01 – SunOS 5.9: missing libc_psr.so.1 symlink**

```
4704023
```

■ **113145-02 – SunOS 5.9: Naturetech /platform links are not exist**

```
4707235
```

■ **113146-03 – SunOS 5.9: Apache Security Patch**

```
4705227 4737442 4759882 4768221 4948830
```

■ **113167-01 – SunOS 5.9: JFP xhost manpage patch**

```
4700173
```

■ **113168-02 – SunOS 5.9: JFP Japanese TrueType Font**

```
4674655 4704720
```

- **113220-01 – SunOS 5.9: patch /platform/sun4u/kernel/drv/sparcv9/upa64s**

4114317

- **113222-04 – SunOS 5.9: patch /kernel/misc/nfssrv and /kernel/misc/sparcv9/nfssrv**

4531662 4658316 4683308 4716413 4747261 4757427 4759341 4852269

- **113224-01 – SunOS 5.9: efdaemon Patch**

4633009

- **113225-01 – SunOS 5.9: 2002c Timezone Patch**

4649654 4683487

- **113226-04 – SunOS 5.9: hme Driver Patch**

4364929 4370044 4725575 4789487 4846087 4893349 4905982

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

4664306

- **113240-08 – CDE 1.5: dtsession patch**

4701185 4743546 4763733 4788212 4837640 4845302 4880232 4944400

- **113244-04 – CDE 1.5: dtwm patch**

4743546 4853367 4868035 4917291 4948424

- **113273-05 – SunOS 5.9: /usr/lib/ssh/sshd Patch**

4708590 4718590 4725702 4801044 4860120 4895076 4923312

- **113277-20 – SunOS 5.9: sd and ssd Patch**

4027074 4273477 4313732 4334693 4336105 4358054 4360365 4375499 4412239 4492264 4498182
4500536 4527668 4622990 4624524 4628670 4645691 4651339 4651386 4651679 4654850 4655315
4656322 4656416 4672504 4673243 4716238 4722426 4725656 4728530 4731122 4734019 4734033
4739785 4741112 4744131 4746064 4756712 4758160 4758953 4759557 4761337 4766742 4770566
4773941 4773958 4774943 4776340 4788885 4797314 4799891 4801603 4804362 4809961 4812565
4818293 4819633 4819888 4819983 4820811 4821401 4831997 4839726 4841612 4848845 4851925
4854282 4861895 4866891 4894442 4895202 4899611 4903496

- **113278-06 – SunOS 5.9: NFS Daemon , rpcmod Patch**

4377827 4492876 4531028 4531029 4662762 4756472 4827409 4852381 4875916 4883107 4919172
4945167 5009814

- **113279-01 – SunOS 5.9: klmmod Patch**

4492876

- **113280-04 – SunOS 5.9: patch /usr/bin/cpio**

4646589 4661824 4674849 4677773 4679533 4679805 4688928 4711504 4738687 4740813 4768749
4771017 4789757 4790357 4792482 4803461 4810827 4844489 4894077

- **113281-01 – SunOS 5.9: patch /usr/lib/netsvc/yp/ypbind**

4515621

- **113318-10 – SunOS 5.9: NFS patch**

```
4044295 4407669 4427971 4465488 4519102 4658316 4664740 4680195 4725574 4736706 4747261
4757427 4768760 4774462 4816496 4865731
```

■ **113319-17 – SunOS 5.9: libnsl nispasswdd patch**

```
1226166 4152876 4156580 4192824 4248430 4353836 4390053 4517003 4648085 4668699 4680691
4684558 4690775 4691127 4700602 4710928 4727726 4738852 4753610 4756113 4757387 4765506
4767276 4772960 4825334 4828271
```

■ **113320-05 – SunOS 5.9: patch se driver**

```
4626537 4655495 4730608 4735231 4755417 4813598 4849939
```

■ **113321-06 – SunOS 5.9: patch sf and socal**

```
4451550 4492895 4589401 4643768 4657427 4772960 4805731 4956868
```

■ **113322-02 – SunOS 5.9: patch uucp**

```
4686442 4756979 4804089
```

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

```
4687515
```

■ **113327-02 – SunOS 5.9: pppd Patch**

```
4647938 4684948
```

■ **113328-02 – SunOS 5.9: tmpfs Patch**

```
4682537 4860183 4865731
```

■ **113329-05 – SunOS 5.9: lp Patch**

```
4640166 4648825 4697460 4704812 4704824 4705899 4705911 4705947 4705948 4714952 4761753
4902916 4925015 4927784
```

■ **113330-01 – SunOS 5.9: rpcbind Patch**

```
1226166 4690775
```

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

```
4683311
```

■ **113332-07 – SunOS 5.9: libc_psr.so.1 libmd5_psr.so.1 Patch**

```
4666069 4713409 4726041 4771216 4780672 4842538 4915833 4919019
```

■ **113334-03 – SunOS 5.9: udfs Patch**

```
4548887 4651869 4655796 4714259 4762254 4865731
```

■ **113335-02 – SunOS 5.9: devinfo Patch**

```
4522638 4869606
```

■ **113374-02 – X11 6.6.1: xpr patch**

```
4704388
```

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

```
4762909
```

- **113403-04 – SunOS 5.9: Tamil/Kannada/Gujarati/Bengali support**

```
4769446 4752426 4767689 4767747 4752139 4681931 4832435
```

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

```
4751190
```

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

```
4741018 4783961 4749970 4749975 4837040
```

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

```
4780217
```

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

```
4731995
```

- **113432-10 – SunOS 5.9: Fujitsu PRIMEPOWER - platform links**

```
4761257 4842538 4888179 4888265 4948727
```

- **113434-17 – SunOS 5.9: /usr/snadm/lib Library and Differential Flash Patch**

```
4313832 4385866 4391400 4501772 4642585 4654964 4655075 4658735 4660835 4707022 4718661
4723051 4724529 4733324 4734649 4744624 4750446 4753030 4759768 4760694 4761562 4761681
4763919 4767378 4767678 4768717 4793554 4801754 4812304 4826147 4827060 4832216 4834885
4846793 4862735 4888173 4889594 4889623 4904610 4945516 4963778
```

- **113446-03 – SunOS 5.9: dman Patch**

```
4640542 4697219 4704996 4707993 4807502
```

- **113447-11 – SunOS 5.9: libprtdiag_psr Patch**

```
4487110 4490112 4510864 4520798 4599397 4616050 4636540 4640542 4661192 4664349 4665239
4673645 4679229 4692005 4692053 4697219 4697505 4704996 4710160 4710161 4711217 4711218
4713409 4715664 4718737 4721200 4726041 4729275 4733895 4733898 4760403 4762548 4765183
4771216 4773830 4775419 4776134 4776340 4780968 4781113 4785498 4794822 4796798 4801542
4806961 4807724 4808786 4810029 4815744 4818004 4818739 4819633 4820126 4824390 4827612
4827672 4827687 4828270 4832753 4834149 4840725 4840813 4842171 4843701 4852595 4862012
4864535 4864707 4870759 4873815 4874917 4876816 4887975 4895681 4896555 4897925 4899522
4925049 4934617 4935587 4944925 4945033 4952525
```

- **113451-06 – SunOS 5.9: IKE Patch**

```
4508547 4628774 4628901 4653051 4666686 4667873 4671563 4673333 4673338 4687237 4704460
4731575 4739746 4741543 4742619 4745493 4745709 4752466 4804299 4823665 4832562 4840090
4842368 4890236 4919747 4919802 4927429 4930399
```

- **113456-01 – SunOS 5.9: adb modules**

```
1101554 4409244
```

- **113457-05 – SunOS 5.9: ufs headers**

```
1101554 4259149 4409244 4473583 4614574 4744248 4763631 4794712 4839059 4884138
```

- **113459-02 – SunOS 5.9: udp patch**

```
4511634 4727825
```

■ **113467-01 – SunOS 5.9: seg_drv & seg_mapdev Patch**

```
4533078 4533108 4630754 4638608 4644346 4648171
```

■ **113470-02 – SunOS 5.9: winlock Patch**

```
4533078 4533108 4630754 4638608 4644346 4648171 4712871
```

■ **113471-05 – SunOS 5.9: Miscellaneous SunOS Commands Patch**

```
4254013 4533078 4533108 4533712 4630754 4638608 4644346 4648171 4668520 4686454 4845974
```

■ **113472-01 – SunOS 5.9: madv & mpss lib Patch**

```
4533078 4533108 4630754 4638608 4644346 4648171
```

■ **113475-03 – SunOS 5.9: usr/lib/security crypt Patch**

```
4192824 4248430 4390053 4700602 4715561 4756148 4818401 4877492 4878257 4881606 4894760
4950403 4961173
```

■ **113476-12 – SunOS 5.9: usr/lib/passwdutil.so.1 pam_ldap Patch**

```
4192824 4248430 4357827 4390053 4658625 4660019 4670947 4677591 4682120 4683522 4700602
4709300 4743707 4746114 4747441 4751394 4754634 4756113 4765506 4768140 4774607 4793719
4805635 4830406 4873939 4874749 4877796 4890233
```

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

```
4712441
```

■ **113480-02 – SunOS 5.9: usr/lib/security/pam_unix.so.1 Patch**

```
4192824 4248430 4390053 4700602 4756113
```

■ **113482-02 – SunOS 5.9: sbin/sulogin Patch**

```
4192824 4248430 4390053 4700602 4960245
```

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

```
4733195
```

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

```
4733194
```

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

```
4703981 4715000
```

■ **113490-03 – SunOS 5.9: Audio Device Driver Patch**

```
4660099 4670245 4701098 4714088 4776340 4790888 4824455 4829190 4831766 4783585
```

■ **113492-04 – SunOS 5.9: fsck Patch**

```
4632750 4640210 4693730 4714988 4734635 4794712 4844927
```

■ **113493-02 – SunOS 5.9: libproc.so.1 Patch**

```
4271957 4725696 4756192 4797219
```

■ **113494-01 – SunOS 5.9: iostat Patch**

4511098 4679590

■ **113495-04 – SunOS 5.9: cfgadm Library Patch**

4433415 4665200 4672974 4810029 4828994

■ **113496-01 – SunOS 5.9: inetd Patch**

4383820

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

4735162

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

4731970 4726510

■ **113541-02 – X11 6.6.1: XKB patch**

4689365 4633549

■ **113572-01 – SunOS 5.9: docbook-to-man.ts Patch**

4649171

■ **113573-04 – SunOS 5.9: libpsvc Patch**

4487110 4640559 4660073 4661192 4718737 4796100 4801542

■ **113575-05 – SunOS 5.9: sendmail Patch**

4678365 4697068 4704672 4704675 4706596 4706608 4706632 4706660 4720281 4725387 4728227
4737586 4756570 4798135 4808977 4809539 4826809 4835344 4839833 4924036

■ **113576-01 – SunOS 5.9: /usr/bin/dd Patch**

4632818

■ **113579-04 – SunOS 5.9: ypserv/ypxfrd Patch**

4192824 4248430 4283355 4390053 4700602 4737417 4823553 4882937 4905454

■ **113580-01 – SunOS 5.9: mount Patch**

4715028

■ **113581-01 – CDE 1.5: message patch to add to /usr/dt/bin/dtlp**

4646929

■ **113584-06 – SunOS 5.9: Bug fixes for EMEA locales**

4745109 4869845 4811225 4811236 4778180 4796228 4681931 4832943 4832923 4733239 4728460
4728469 4755447 4791206 4897658 4637202 4908698 4907747 4898546 4960935

■ **113713-13 – SunOS 5.9: pkginstall Patch**

4405634 4720211 4786593 4813860 4826609 4842146 4848801 4850925 4851760 4876125 4881141
4887795 4905318 4909852 4910538 4920769 4933503 4979694

■ **113716-01 – SunOS 5.9: sar & sadc Patch**

```
4627454 4723484
```

■ **113717-06 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**

```
4712441
```

■ **113718-02 – SunOS 5.9: usr/lib/utmp_update Patch**

```
4659277 4705891
```

■ **113720-01 – SunOS 5.9: rootnex Patch**

```
4692542
```

■ **113742-01 – SunOS 5.9: smcpreconfig.sh Patch**

```
4704611
```

■ **113746-01 – SunOS 5.9: uxlibc Localization message patch**

```
4760256
```

■ **113764-03 – X11 6.6.1: keyboard patch**

```
4716868 4237479 4633549 4766231
```

■ **113789-01 – CDE 1.5: dtexec patch**

```
4759425
```

■ **113798-01 – CDE 1.5: libDtSvc patch**

```
4720526
```

■ **113799-01 – SunOS 5.9: solregis Patch**

```
4762680
```

■ **113813-02 – SunOS 5.9: Gnome Integration Patch**

```
4752366 4770721
```

■ **113839-01 – CDE 1.5: sdtwsinfo patch**

```
4729180
```

■ **113841-01 – CDE 1.5: answerbook patch**

```
4729199
```

■ **113859-03 – SunOS 5.9: Sun ONE Directory Server 5.1 patch**

```
4527608 4529402 4530466 4530509 4532320 4532757 4533706 4535845 4537169 4538268 4550044
4589224 4592931 4614559 4615165 4616579 4617085 4617521 4619976 4620546 4621920 4622371
4623119 4623199 4623308 4624693 4627760 4628444 4630124 4639310 4639408 4639560 4640273
4640724 4643122 4645544 4645887 4646301 4646350 4646392 4649319 4649615 4651972 4652031
4652859 4653016 4656657 4656846 4658787 4658810 4663658 4665564 4665571 4668480 4669525
4669879 4671360 4672889 4672914 4672960 4674387 4675387 4682961 4683476 4684519 4686213
4687038 4689805 4691101 4692956 4695152 4697500 4704039 4704635 4705641 4707395 4708296
4709128 4711201 4711202 4713256 4714196 4714358 4715065 4715955 4716340 4716745 4717121
4719564 4722987 4723630 4732352 4735062 4735919 4737978 4738221 4738639 4742083 4742450
4743633 4743796 4748399 4749234 4751092 4753087 4754469 4754595 4756215 4758387 4759670
4761010 4765575 4767182 4773751 4773823 4773920 4776001 4777358 4778128 4778154 4778334
4780230 4780807 4781823 4783910 4784168 4786154 4786475 4786504 4786547 4787220 4789601
```

```
4791877 4795280 4797685 4802963 4805734 4807803 4809504 4809846 4813355 4813998 4815733
4817676 4818005 4819399 4819710 4820037 4821198 4821289 4824825 4826265 4826843 4826863
4827569 4829894 4830417 4834508 4836446 4836491 4838624 4838863 4840786 4840960 4842620
4846165 4846332 4848325 4850717 4850722 4851870 4854827 4854898 4856290 4856329 4856331
4857614 4863001 4863706 4863943 4864622 4865435 4865525 4865653 4865859 4866060 4867299
4880352 4881181 4881653 4883250 4884416 4885686 4886421 4891116 4894995 4897873 4898449
4899320 4903397 4904414 4908443 4911023 4911678 4911711 4912539 4912664 4913176 4913984
4916248 4918912 4920323 4921426 4922595 4925223 4928129 4929089 4930098 4932782 4935077
4938445 4942664 4943975 4945548 4946487 4948365 4953750 4957279
```

- **113861-03 – CDE 1.5: dtksh patch**

```
4729959 4814825 4802900
```

- **113863-01 – CDE 1.5: dtconfig patch**

```
4732757
```

- **113868-02 – CDE 1.5: PDASync patch**

```
4653758 4705576 4642465 4783087 4815680
```

- **113896-06 – SunOS 5.9: en_US.UTF-8 locale patch**

```
4810102 4893213 4857313 4879620 4894641 4839796 4918666 4847017 4857857 4860057 4860065
4839577 4846689 4874481 4811234 4833698 4843218 4681931 4791073 4647462 4635650 4648210
4739481 4770344 4774817 4778370 4775106 4501634 4778686 4805695 4614828 4668356 4668371
4798658 4762506 4746498 4749928 4633291 4758189 4761039 4753468 4757704 4765728 4765666
4751190 4751699 4767922 4768220
```

- **113902-03 – SunOS 5.9: Asian UTF-8 iconv modules enhancement**

```
4702278 4750690 4772950
```

- **113904-03 – SunOS 5.9: 7 indic scripts support in Asian UTF-8 locales**

```
4768804 4752112 4752144 4790423 4681931
```

- **113906-01 – SunOS 5.9: Fixed some functional problems in Chinese locales**

```
4731208 4677334
```

- **113908-01 – SunOS 5.9: SPECIAL PATCH: Missing locales in SUNW_LOC for SUNWinttf**
- **113909-01 – SunOS 5.9: SPECIAL PATCH:Broken preremove script in S9U3 Asia BCP pkgs**

```
4780225
```

- **113911-01 – SunOS 5.9: BCP applications hangs with NIS in asian locales**

```
4784597
```

- **113923-02 – X11 6.6.1: security font server patch**

```
4764193
```

- **113973-01 – SunOS 5.9: adb Patch**

```
4664740
```

- **113975-01 – SunOS 5.9: ssm Patch**

```
4709170
```

- **113977-01 – SunOS 5.9: awk/sed pkgscripts Patch**

```
4737594
```

- **113978-01 – SunOS 5.9: syseventconfd Patch**

```
4737409 4745393
```

- **113981-04 – SunOS 5.9: devfsadm Patch**

```
4259149 4334693 4473583 4517655 4622990 4703964 4716238 4734853 4744248 4763631 4908675
```

- **113984-01 – SunOS 5.9: iosram Patch**

```
4721302
```

- **113993-06 – SunOS 5.9: mkfs Patch**

```
4708464 4721124 4794712 4829570 4839900 4891129
```

- **114003-01 – SunOS 5.9: bbc driver Patch**

```
4706975
```

- **114004-01 – SunOS 5.9: sed Patch**

```
4727485
```

- **114006-01 – SunOS 5.9: tftp Patch**

```
4656587
```

- **114008-01 – SunOS 5.9: cachefsd Patch**

```
1250956 4110712 4230685 4338920 4467621 4507274 4616030 4698882 4698886 4740460
```

- **114010-02 – SunOS 5.9: m4 Patch**

```
4174383 4837874
```

- **114014-08 – SunOS 5.9: libxml, libxslt and Freeware man pages Patch**

```
4634845 4665029 4668974 4702333 4708162 4768591 4781721 4787493 4793452 4806701 4822658
4822718 4833908 4839883 4839885 4870078 4876873
```

- **114016-01 – tomcat security patch**

```
4759554
```

- **114020-03 – 5.9: Synching Euro UTF-8s**

```
4773318 4788627 4846281
```

- **114037-02 – SunOS 5.9: patch for supporting Unicode3.2 & indic script**

```
4774476 4823451
```

- **114039-02 – SunOS 5.9: Bug fix for dtpad column in Euro UTF-8 locales**

```
4773166 4897744
```

- **114049-07 – SunOS 5.9: NSPR 4.1.4 / NSS 3.3.4.1**

```
4840298 4840300 4840303 4856631 4856633 4884151 4933535 4945089 4964119
```

- **114125-01 – SunOS 5.9: IKE should support hardware assist for certs and Oakley**

4666686 4673333 4687237 4704460 4739746 4745493 4745709

- **114126-02 – SunOS 5.9: todds1287 patch**

4692023 4809862

- **114127-02 – SunOS 5.9: abi_libefi.so.1 Patch**

4334693 4622990 4716238 4906621 4935076

- **114128-02 – SunOS 5.9: sd_lun patch**

4334693 4498182 4622990 4628670 4716238 4741112 4773958 4776340 4788885 4801603 4818293 4820811 4831997 4839726

- **114129-01 – SunOS 5.9: multi-terabyte disk support -libuuid patch**

4334693 4622990 4716238

- **114131-02 – SunOS 5.9: multi-terabyte disk support - libadm.so.1 patch**

4259149 4334693 4473583 4622990 4716238 4744248 4763631

- **114132-01 – SunOS 5.9: fmthard patch**

4334693 4622990 4716238

- **114133-01 – SunOS 5.9: mail Patch**

4705717

- **114135-01 – SunOS 5.9: at utility Patch**

4776480

- **114153-01 – SunOS 5.9: Japanese SunOS 4.x Binary Compatibility(BCP) patch**

4775198 4775194

- **114165-01 – CDE 1.5: SUNWsregu Localization message patch**

4762680

- **114211-01 – SunOS 5.9: WBEM Localization message patch**

4786427 4767999

- **114215-04 – SunOS 5.9: Install/admin Localization message patch**

4788175 4804609 4818688 4974126

- **114217-03 – SunOS 5.9: Install/admin Localization message patch**

4788175 4818688 4841337

- **114219-05 – CDE 1.5: sdtimage patch**

4746059 4728421 4822709 4849909

- **114221-02 – SunOS 5.9: UR bug fixes**

4791189 4789202

- **114224-02 – SunOS 5.9: csh Patch**

```
4198269 4479584
```
- **114227-01 – SunOS 5.9: yacc Patch**

```
4735960
```
- **114229-01 – SunOS 5.9: action_filemgr.so.1 Patch**

```
4714071
```
- **114233-05 – SunOS 5.9: rsm Patch**

```
4679690 4700142 4728023 4754589 4780149 4781177 4792165 4816959 4926718
```
- **114235-01 – SunOS 5.9: libsendfile.so.1 Patch**

```
4640982 4711013
```
- **114244-01 – SunOS 5.9: some characters can't be shown in GBK and GB18030 locales**

```
4771032
```
- **114249-01 – SunOS 5.9: SPECIAL PATCH:Broken preremove scripts in some of S9 pkgs**

```
4829407
```
- **114259-01 – SunOS 5.9: usr/sbin/psrinfo Patch**

```
4841716
```
- **114261-04 – SunOS 5.9: usr/platform/SUNW,Sun-Fire-V890/lib/psvcobj.conf Patch**

```
4788809 4843188 4896555 4899400 4934546 4969599
```
- **114276-02 – SunOS 5.9: Extended Arabic support in UTF-8**

```
4786458 4820267
```
- **114282-01 – CDE 1.5: libDtWidget patch**

```
4776648
```
- **114312-01 – CDE1.5: GNOME/CDE Menu for Solaris 9**

```
4748729
```
- **114321-03 – SunOS 5.9: Patch Manager Localization message patch**

```
4795479 4826155 4929385
```
- **114325-01 – SunOS 5.9: psvcobj Patch**

```
4658782
```
- **114326-03 – SunOS 5.9: /usr/lib/dcs Patch**

```
4683247 4775925 4810029
```
- **114329-01 – SunOS 5.9: /usr/bin/pax Patch**

```
4766460
```
- **114331-01 – SunOS 5.9: power Patch**

```
4776968 4785495
```

- **114332-10 – SunOS 5.9: c2audit & *libbsm.so.1 Patch**

```
4445394 4457028 4473026 4499864 4501255 4592827 4647549 4647683 4647684 4688063 4712958
4715363 4728819 4732828 4735135 4745590 4750749 4761401 4778984 4779457 4805352 4809341
4818300 4828108 4829732 4833724 4835739 4842901 4845277 4892034 4916342 4975802
```

- **114335-02 – SunOS 5.9: usr/sbin/rmmount Patch**

```
4628233 4705226 4726100
```

- **114338-01 – SunOS 5.9: todm5819 Patch**

```
4721451
```

- **114339-01 – SunOS 5.9: wrsm header files Patch**

```
4619267 4661424 4694445 4738280
```

- **114340-01 – SunOS 5.9: SUNW_filesys_rcm.so Patch**

```
4655205
```

- **114344-03 – SunOS 5.9: kernel/drv/arp Patch**

```
4715897 4777791 4914143
```

- **114349-02 – SunOS 5.9: sbin/dhcpagent Patch**

```
4118738 4259149 4473583 4721209 4744248 4763631
```

- **114352-03 – SunOS 5.9: /etc/inet/inetd.conf Patch**

```
4761190
```

- **114356-02 – SunOS 5.9: /usr/bin/ssh Patch**

```
4685658 4707786
```

- **114361-01 – SunOS 5.9: /kernel/drv/lofi Patch**

```
4302817 4331110 4335489 4342447 4348291 4361731 4389001 4446576 4477843 4505225 4526709
4628272 4649233
```

- **114363-02 – SunOS 5.9: sort Patch**

```
4641790 4725245 4817791 4851433 4897491 4913776
```

- **114369-01 – SunOS 5.9: prtvtoc patch**

```
4334693 4622990 4716238
```

- **114370-03 – SunOS 5.9: libumem.so.1 patch**

```
4518988 4694626 4709984 4766343 4928859
```

- **114371-01 – SunOS 5.9: UMEM - libumem (mdb components) patch**

```
4518988 4694626 4709984
```

- **114372-01 – SunOS 5.9: UMEM - llib-lumem patch**

```
4518988 4694626 4709984
```

- **114373-01 – SunOS 5.9: UMEM - abi_libumem.so.1 patch**

```
4518988 4694626 4709984
```

■ **114374-01 – SunOS 5.9: Perl patch**

```
4675538 4724626 4768924
```

■ **114377-04 – SunOS 5.9: Enchilada/Stiletto - BSC comms support**

```
4713409 4764078 4781113 4783538 4819633 4855020 4717667
```

■ **114378-02 – SunOS 5.9: Enchilada/Stiletto TOD driver**

```
4713409 4781113 4819633
```

■ **114380-03 – SunOS 5.9: Enchilada/Stiletto librsc support**

```
4726041 4810029 4893015
```

■ **114383-03 – SunOS 5.9: Enchilada/Stiletto - pca9556 driver**

```
4726041 4771216 4781113 4819633
```

■ **114386-02 – SunOS 5.9: todm5819p_rmc driver patch**

```
4726041 4781113 4819633
```

■ **114387-04 – SunOS 5.9: Enchilada/Stiletto - scadm support**

```
4448914 4726041 4733895 4799727 4812658
```

■ **114388-04 – SunOS 5.9: dmfe driver patch**

```
4463714 4498135 4643212 4646439 4751357 4777162 4818224 4838016 4844765 4854783 4877168
```

■ **114389-02 – SunOS 5.9: devinfo Patch**

```
4745581 4794712
```

■ **114395-03 – SunOS 5.9: [FUJITSU] todmostek patch**

```
4842538 4923171 4819633
```

■ **114470-08 – SunOS 5.9: Sun Fire V880z/XVR-4000 Graphics Patch**

```
4796037 4797704 4796973 4799777 4792452 4801660 4800526 4812003 4802530 4804995 4808067
4796917 4815925 4761925 4782193 4793942 4793943 4827241 4809512 4841825 4841963 4806680
4747098 4845198 4898864 4891631 4809518 4887691 4890323 4912940 4914546 4907857 4909722
4919873 4919888 4925363 4926113
```

■ **114473-06 – SunOS 5.9: Fujitsu CPU performance counters patch**

```
4810029 4810655 4893015 4907860 4923171 4924929 4924938 4944951 4968806
```

■ **114482-04 – SunOS 5.9: Product Registry CLI Revision**

```
4385866 4391400 4655075 4753030 4767378 4767678 4768717 4796532 4801439 4863376
```

■ **114495-01 – CDE 1.5: dtprintinfo patch**

```
4788209
```

■ **114501-01 – SunOS 5.9: drmproviders.jar Patch**

```
4712814
```

■ **114503-04 – SunOS 5.9: usr/sadm/lib/usermgr/VUserMgr.jar Patch**

```
4762502 4803524 4931702
```

- **114509-01 – SunOS 5.9: cs_CZ Locale not usable**

```
4793388
```

- **114513-03 – SunOS 5.9: patch for Japanese and English X man pages**

```
4811454 4797892 4801395 4849095 4852478
```

- **114516-01 – SunOS 5.9: patch for English sdtudctool man pages for S9UR3**

```
4808428
```

- **114520-07 – SunOS 5.9: SPECIAL PATCH: For postinstall script**

```
4786712 4809906 4834885 4825349 4824518
```

- **114538-20 – SunOS 5.9: Sun XVR-100 Graphics Accelerator Patch**

```
4820147 4820254 4821832 4822149 4822443 4823003 4824233 4827346 4827720 4827837 4832885
4792630 4812350 4820999 4829583 4856743 4856749 4857946 4850955 4855985 4857143 4858706
4860082 4865081 4857383 4868991 4893876 4897985 4898143 4902258 4908183 4910095 4916095
4910515 4919863
```

- **114555-12 – SunOS 5.9: Sun XVR-1200 Graphics Accelerator Patch**

```
4807907 4808263 4767906 4819200 4799602 4822159 4822276 4833546 4830544 4744371 4835514
4834943 4837418 4837176 4837510 4847177 4860054 4849519 4830549 4838461 4834370 4853020
4821638 4881084 4860468 4867922 4893057 4891452 4891715 4891672 4891690 4893813 4899854
4899910 4911553 4913881 4860493 4925735 4907853 4906894 4829846 4904242 4915313 4904711
4925035 4890241 4925028 4911753 4904716 4901449 4910656 4926474 4932555 4935929 4923657
4933144
```

- **114561-01 – X11 6.6.1: X splash screen patch**

```
4807285
```

- **114564-03 – SunOS 5.9: /usr/sbin/in.ftpd Patch**

```
4705192 4706072 4714534 4864687
```

- **114566-02 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**
- **114569-02 – SunOS 5.9: libdbm.so.1 Patch**

```
4668699 4825407
```

- **114571-01 – SunOS 5.9: libc.so.*.9/bcp Patch**

```
4668699
```

- **114584-01 – SunOS 5.9: i2c driver patch**

```
4720029
```

- **114586-01 – SunOS 5.9: bzip Patch**

```
4634845 4659775
```

- **114598-03 – 5.9: UTF-8 dtcm chars not appearing, dtpad too wide**

```
4787603 4418543
```

- **114600-02 – SunOS 5.9: vlan driver patch**

```
4619750 4788391 4730657 4847441
```

- **114602-02 – X11 6.6.1: libmpg_psr patch**

```
4649547 4830251
```

- **114607-02 – SunOS 5.8: SPECIAL PATCH: pkginfo replacement scripts (S9U3)**
- **114612-01 – SunOS 5.9: ANSI-1251 encodings file errors**

```
4812123
```

- **114624-02 – SunOS 5.9: SPECIAL PATCH Upgrade bug UR**

```
4826785 4819542 4708858 4895101
```

- **114633-02 – SunOS 5.9: ja_JP.UTF-8 locale patch**

```
4749205 4868872
```

- **114636-02 – SunOS 5.9: KCMS security fix**

```
4661008 4774256
```

- **114641-02 – SunOS 5.9: Japanese iconv for UTF-8 patch**

```
4706863 4671351 4671363
```

- **114654-02 – CDE 1.5: SmartCard patch**

```
4785011
```

- **114677-06 – SunOS 5.9: International Components for Unicode Patch**

```
4954656 4936232 4936244 4784646 4922414 4903197 4906617 4907166 4910918 4911499 4865107
4872194 4731597 4757662 4757683 4783065
```

- **114684-02 – SunOS 5.9: samba Patch**

```
4768591 4787493 4833908 4839883 4839885
```

- **114711-03 – SunOS 5.9: usr/sadm/lib/diskmgr/VDiskMgr.jar Patch**

```
4818306 4825948 4931702
```

- **114713-01 – SunOS 5.9: newtask Patch**

```
4798119
```

- **114716-01 – SunOS 5.9: usr/bin/rcp Patch**

```
1149636
```

- **114718-02 – SunOS 5.9: usr/kernel/fs/pcfs Patch**

```
4413261 4782709 4865731
```

- **114721-04 – SunOS 5.9: ufsrestore and ufsdump Patch**

```
4767221 4767281 4769786 4794712
```

- **114729-01 – SunOS 5.9: usr/sbin/in.telnetd Patch**

```
4798177
```

- **114731-05 – SunOS 5.9: kernel/drv/glm Patch**

```
4450607 4661880 4696162 4730256 4741149 4744095 4770492 4776340 4799457 4819026 4823893
4919566
```

- **114734-01 – SunOS 5.9: /usr/ccs/bin/lorder Patch**

```
4747253
```

- **114736-01 – SunOS 5.9: usr/sbin/nisrestore Patch**

```
4759428
```

- **114758-01 – SunOS 5.9: patch SUNW_ip_rcm.so and SUNW_network_rcm.so**

```
4836686 4847585
```

- **114818-04 – GNOME 2.0.0: libpng Patch**

```
4809087 4901822 4979460
```

- **114822-01 – GNOME 2.0.2: 64bit libpng Patch**

```
4901822
```

- **114855-01 – SunOS 5.9: /usr/kernel/drv/sppp Patch**

```
4647938
```

- **114861-01 – SunOS 5.9: /usr/sbin/wall**

```
4803267
```

- **114864-02 – SunOS 5.9: Sun-Fire-480R libpsvcpolicy_psr.so.1 Patch**

```
4616050 4661192
```

- **114875-01 – SunOS 5.9: XML library source patch**

```
4822718
```

- **114923-01 – SunOS 5.9: /usr/kernel/drv/logindmux Patch**

```
4674066
```

- **114926-02 – SunOS 5.9: kernel/drv/audiocs Patch**

```
4777298 4834087
```

- **114927-01 – SunOS 5.9: usr/sbin/allocate Patch**

```
4714170 4809341
```

- **114934-01 – SunOS 5.9: usr/platform links patch**

```
4761257
```

- **114951-03 – SunOS 5.9: FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver 1.0 Patch**

```
4817865 4837781 4837785 4837786 4837787 4837788 4837789 4917774 4917776 4917778 4951668
```

- **114963-01 – SunOS 5.9: SCRIPT patch**
- **114965-01 – SunOS 5.9: SPECIAL PATCH: For editable files only**

```
4834885 4841998
```

- **114967-02 – SunOS 5.9: FDL patch**

4892060 4892039 4796458

- **114971-02 – SunOS 5.9: usr/kernel/fs/namefs Patch**

4711164 4921637

- **114974-01 – SunOS 5.9: kernel/drv/ifp Patch**

4779757

- **114975-01 – SunOS 5.9: usr/lib/inet/dhcp/svcadm/dhcpcommon.jar Patch**

4782691

- **114994-04 – SunOS 5.9: FUJITSU PCI GigabitEthernet 2.0 patch**

4841231 4841239 4841244 4841248 4891077 4891084 4940787 4940788 4976257 4976340 4976348
4976355

- **115004-01 – SunOS 5.9: /kernel/misc/kbtrans patch**

4354427

- **115006-01 – SunOS 5.9: kernel/strmod/kb patch**

4354427

- **115008-01 – SunOS 5.9: /usr/sbin/ipqosconf patch**

4664957

- **115010-01 – SunOS 5.9: Providing Platform Support for Enchilada Tower Server**

4780968

- **115012-01 – SunOS 5.9: Sunfire-V250-Enchilada-Tower librsc patch**

4780968

- **115014-01 – SunOS 5.9: /usr/platform/SUNW,Sun-Fire-V250/sbin/scadm patch**

4780968

- **115018-01 – SunOS 5.9: patch /usr/lib/adb/dqblk**

4807983

- **115020-01 – SunOS 5.9: patch /usr/lib/adb/ml_odunit**

4794712

- **115022-02 – SunOS 5.9: quota utilities**

4794712 4807979 4817074 4905041

- **115024-01 – SunOS 5.9: file system identification utilities**

4794712

- **115026-01 – SunOS 5.9: Multiterabyte UFS file system maintenance tools**

4794712

- **115028-01 – SunOS 5.9: patch /usr/lib/fs/ufs/df**

4794712

- **115030-01 – SunOS 5.9: Multiterabyte UFS - patch mount**

4794712

- **115107-01 – SunOS 5.9: script patch for FJSVvplu pkginfo files**

4761257

- **115158-05 – X11 6.6.1: xscreensaver patch**

4841343 4838390 4849641 4871833

- **115161-01 – CDE 1.5: Addition of IFD card reader support for localization**

4852556

- **115165-03 – SunOS 5.9: usr/lib/libnisdb.so.2 Patch**

4655472 4674036 4687778 4688447 4724357 4806914 4823553

- **115172-01 – SunOS 5.9: kernel/drv/le Patch**

4105008

- **115173-01 – SunOS 5.9: /usr/bin/sparcv7/gcore /usr/bin/sparcv9/gcore Patch**

4832466

- **115177-01 – SunOS 5.9: SUNWjxmft/SUNWjxcft postinstall patch**

4851735

- **115257-02 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**
- **115258-05 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**
- **115259-01 – SunOS 5.9: patch usr/lib/acct/acctcms**

4701876

- **115284-02 – SunOS 5.9: script patch for FJSVulsa postinstall files**

4846488

- **115296-01 – SunOS 5.9: script patch for NATEvplu.u pkginfo file**

4858453

- **115315-02 – SunOS 5.9: dtlogin issues**

4854079

- **115322-01 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**
- **115330-01 – SunOS 5.9: librcm.so.1 Patch**

4775771

- **115336-02 – SunOS 5.9: /usr/bin/tar, /usr/sbin/static/tar Patch**

4481801 4662552 4697540 4756186 4864230

- **115350-01 – SunOS 5.9: ident_udfs.so.1 Patch**

4855145

- **115354-01 – SunOS 5.9: slpd Patch**

```
4471576 4767287 4837368
```

- **115381-01 – SunOS 5.9: Japanese xlibi18n patch**

```
4851271
```

- **115426-01 – SunOS 5.9: UDC support for asian locales**

```
4765005 4881642
```

- **115488-01 – SunOS 5.9: patch /kernel/misc/busra**

```
4718370 4792953 4834066 4835953 4853539
```

- **115537-01 – SunOS 5.9: /kernel/strmod/ptem patch**

```
4821833
```

- **115539-02 – SunOS 5.9: /usr/kernel/drv/fssnap Patch**

```
4769472 4905701
```

- **115542-01 – SunOS 5.9: nss_user patch**

```
4152876 4353836
```

- **115544-01 – SunOS 5.9: nss_compat patch**

```
4152876 4156580 4353836
```

- **115545-01 – SunOS 5.9: nss_files patch**

```
4152876 4353836
```

- **115553-06 – SunOS 5.9: USB Drivers and Framework Patch**

```
4419540 4507408 4655789 4660516 4662300 4665811 4702501 4706244 4723993 4735031 4735465
4737194 4756231 4757590 4765718 4769577 4776340 4778303 4781283 4782292 4783585 4783855
4785916 4786786 4788315 4790678 4798619 4800029 4800123 4801046 4804860 4806185 4810230
4811758 4812935 4824054 4824763 4827611 4827617 4828972 4829626 4831766 4831810 4834143
4836298 4836606 4838235 4839605 4841489 4844296 4844570 4844892 4845179 4847102 4847113
4847119 4847308 4847936 4852863 4854629 4858443 4860534 4865592 4869166 4869177 4869362
4869396 4875388 4875402 4875818 4876234 4876900 4879738 4879741 4879799 4881576 4881577
4881927 4883138 4885542 4889441 4889499 4889600 4889606 4891599 4891604 4894475 4896760
4898174 4898176 4899551 4900007 4900364 4904316 4904408 4905617 4915001 4916009 4916848
4917711 4920655 4935335 4955343
```

- **115559-01 – SunOS 5.9:/usr/lib/rcm/modules/SUNW_svm_rcm.so Patch**

```
4813460 4822189
```

- **115591-02 – SunOS 5.9: SPECIAL PATCH: class action replacement scripts**

```
4874869 4878696
```

- **115592-02 – SunOS 5.9: Gnome l10n message updates and bug fixes for UR5**

```
4907339 4894688
```

- **115594-02 – SunOS 5.9: Gnome l10n help updates and bug fixes for UR5**

```
4920961 4913386
```

- **115607-02 – SunOS 5.9: SPECIAL PATCH: class action replacement scripts**

4878897

- **115608-01 – SunOS 5.9: Japanese fonts patch**

4864476 4876428

- **115646-01 – SunOS 5.9: libtnfprobe shared library Patch**

4654232 4803469

- **115651-02 – SunOS 5.9: usr/lib/acct/runacct Patch**

4383138 4853917

- **115654-01 – SunOS 5.9: Some scalable ISO8859-7 Greek fonts are missing glyphs**

4750555

- **115665-05 – SunOS 5.9: Chalupa platform support Patch**

4771216 4773186 4886938 4892419 4907010 4923583 4961578 4979731 4995744 5006842 5011103

- **115667-02 – SunOS 5.9: Chalupa platform support Patch**

4771216 4784977 4858641 4860424 4860428 4882246 4886012

- **115669-01 – SunOS 5.9: UltraSPARC-IV Solaris support patch**

4810029

- **115671-01 – SunOS 5.9: mntinfo Patch**

4747261

- **115675-01 – SunOS 5.9: /usr/lib/liblgrp.so Patch**

4845974 4863473 4880116

- **115677-01 – SunOS 5.9: usr/lib/ldap/idsconfig Patch**

4632409 4823553

- **115681-01 – SunOS 5.9: usr/lib/fm/libdiagcode.so.1 Patch**

4864979

- **115683-01 – SunOS 5.9: WAN-boot header file Patch**

4259149 4473583 4744248 4763631

- **115685-01 – SunOS 5.9: sbin/netstrategy Patch**

4259149 4473583 4744248 4763631

- **115687-02 – SunOS 5.9:/var/sadm/install/admin/default Patch**

4850925

- **115689-01 – SunOS 5.9: /usr/lib/patch/patchutil Patch**

4850925

- **115693-01 – SunOS 5.9: /usr/bin/last Patch**

```
1260759
```

- **115695-01 – SunOS 5.9: /usr/lib/netsvc/yp/yppush Patch**

```
4822978 4854241 4874752 4874757 4882029 4884927 4884929
```

- **115697-01 – SunOS 5.9: mtmalloc lib Patch**

```
4782401 4831968 4846231 4848368 4851334 4856955 4873146 4873154
```

- **115706-01 – SunOS 5.9: init.wbem cannot register CimomService and WBEMLogServiceBean in s9u4_08.**

```
4878180
```

- **115713-01 – CDE 1.5: dtfile patch**

```
4629782
```

- **115734-02 – GNOME 2.0.2: Virtual File System Patch**

```
4858368 4871285
```

- **115736-01 – GNOME 2.0.2: Window Manager Patch**

```
4839485
```

- **115738-03 – GNOME 2.0.2: Base GUI Libraries Patch**

```
4884486 4858882 4861510 4871703 4875424
```

- **115740-02 – GNOME 2.0.2: Printing Technology Patch**

```
4909213 4879252 4901967
```

- **115742-02 – GNOME 2.0.2: File Search Tool Patch**

```
4909213 4858420
```

- **115744-01 – SunOS 5.9: SPECIAL PATCH: For editable files only**

```
4733324
```

- **115754-02 – SunOS 5.9: zlib security Patch**

```
4822658 4870078
```

- **115793-01 – SunOS 5.9: CDE Localization message patch**

```
4869761
```

- **115799-01 – SunOS 5.9: WBEM/WBEM SDK Localization package pkginfo patch**

```
4760092
```

- **115802-02 – SunOS 5.9: Bug fix for xscreensaver message and dtlogin locale locales**

```
4898929
```

- **115812-02 – GNOME 2.0.2: Dtlogin Integration Patch**

```
4866734 4765131
```

- **115835-01 – SunOS 5.9: Ghostscript patch**

```
4795491
```

■ **115837-01 – SunOS 5.9: SPECIAL PATCH: Alternate Root Compliance of postremove script**

```
4718760
```

■ **115847-01 – SunOS 5.9: usr/bin/admintool Patch**

```
4889623
```

■ **115878-01 – SunOS 5.9: /usr/bin/logger Patch**

```
4859519 4874048
```

■ **115920-01 – SunOS 5.9: CDE 1.5 help patch**

```
4892024
```

■ **115926-03 – SunOS 5.9: NSPR 4.1.6 / NSS 3.3.7 / JSS 3.1.2.5**

```
4885952 4886464 4888311 4903564 4933535 4945089
```

■ **115936-01 – SunOS 5.9: Bug fix for Korean translation**

```
4904741
```

■ **115949-03 – SunOS 5.9: UDC patch**

```
4899738 4934214 4963466
```

■ **115958-01 – GNOME 2.0.2: Help Database Patch**

```
4880052
```

■ **115964-01 – GNOME 2.0.2: texteditorshare Patch**

```
4901967
```

■ **115966-01 – GNOME 2.0.2: Terminal emulator Patch**

```
4901967
```

■ **115968-01 – GNOME 2.0.2: Performance meter Patch**

```
4901967
```

■ **115972-03 – CDE 1.5: dtterm libDtTerm patch**

```
4822385 4969514
```

■ **115974-01 – GNOME 2.0.2: User documentation Patch**

```
4901967
```

■ **115986-02 – SunOS 5.9: ptree Patch**

```
4757218 4912227
```

■ **115988-01 – SunOS 5.9: /usr/lib/rcm/modules/SUNW_cluster_rcm.so Patch**

```
4856242
```

■ **115992-01 – SunOS 5.9: /usr/include/limits.h Patch**

```
4731122
```

■ **115994-01 – SunOS 5.9: /usr/include/sys/time.h Patch**

4731122

■ **116006-01 – GNOME 2.0.2: Libraries Patch**

4875223 4905797

■ **116009-01 – SunOS 5.9:/platform/SUNW,Sun-Fire/kernel/drv/sparcv9/sgsbbc Patch**

4860142

■ **116012-01 – SunOS 5.9: ps utility patch**

4706669 4785109

■ **116014-02 – SunOS 5.9: /usr/sbin/usermod patch**

4742154

■ **116016-01 – SunOS 5.9: /usr/sbin/logadm patch**

4763519

■ **116039-01 – SunOS 5.9: sun4u platform links patch**

4749396

■ **116047-01 – SunOS 5.9: hsfs Patch**

4865731

■ **116049-01 – SunOS 5.9: fdfs Patch**

4865731

■ **116051-01 – SunOS 5.9: fssnap Patch**

4670300

■ **116084-01 – X11 6.6.1: font patch**

4857041

■ **116090-05 – SunOS 5.9: SPECIAL PATCH: For EDITABLE Files**
■ **116092-04 – SunOS 5.9: SPECIAL PATCH: For Script Files**
■ **116105-02 – X11 6.6.1: Freetype patch**

4795241 4939829

■ **116119-01 – SunOS 5.9: CDE Localization message patch**

4866067

■ **116121-01 – X11 6.4.1: platform support for new hardware**

4908954

■ **116157-01 – SunOS 5.9: SPECIAL PATCH: For CDE Package CAS Scripts**

4822385

■ **116178-01 – SunOS 5.9: libcrypt Patch**

```
4751585
```

■ **116180-01 – SunOS 5.9: geniconvtbl Patch**

```
4908670
```

■ **116229-01 – SunOS 5.9: libgen Patch**

```
4840237
```

■ **116231-01 – SunOS 5.9: llc2 Patch**

```
4828919 4841523
```

■ **116237-01 – SunOS 5.9: pfexec Patch**

```
4925561
```

■ **116241-01 – SunOS 5.9: keysock Patch**

```
4730920
```

■ **116243-01 – SunOS 5.9: umountall Patch**

```
4687955 4761847 4874083
```

■ **116245-01 – SunOS 5.9: uncompress Patch**

```
4668687 4914361
```

■ **116247-01 – SunOS 5.9: audit_warn Patch**

```
4503182 4650565 4845882
```

■ **116308-01 – CDE 1.5: libDtHelp patch**

```
4930117
```

■ **116334-01 – SunOS 5.9: kanji command patch**

```
4928656
```

■ **116340-02 – SunOS 5.9: gzip patch**

```
4793452
```

■ **116453-01 – SunOS 5.9: sadmind default security level vulnerability**

```
4079984
```

■ **116472-01 – SunOS 5.9: rmformat Patch**

```
4362287 4776340
```

■ **116474-01 – SunOS 5.9: libsmedia Patch**

```
4776340
```

■ **116476-01 – SunOS 5.9: pcic Driver Patch**

```
4776340
```

■ **116478-01 – SunOS 5.9: usr platform links Patch**

```
4723473 4776340
```

- **116480-01 – SunOS 5.9: IEEE 1394 Patch**

```
4358271 4498803 4620080 4719215 4723471 4723473 4743919 4776340 4780080 4780083 4799679
4891594
```

- **116484-01 – SunOS 5.9: consconfig Patch**

```
4806185
```

- **116486-01 – SunOS 5.9: tsalarm Driver Patch**

```
4870759 4874917 4876816 4899522
```

- **116488-01 – SunOS 5.9: Lights Out Management (lom) Patch**

```
4870759 4874917 4876816 4899522
```

- **116489-01 – SunOS 5.9: ttymux Patch**

```
4743801
```

- **116490-01 – SunOS 5.9: acctdusg Patch**

```
4411999 4897608
```

- **116493-01 – SunOS 5.9: ProtocolTO.java Patch**

```
4866638
```

- **116494-01 – SunOS 5.9: libdevice Patch**

```
4900007 4783585
```

- **116495-01 – SunOS 5.9: specfs Patch**

```
4878795
```

- **116498-01 – SunOS 5.9: bufmod Patch**

```
4875506
```

- **116500-01 – SunOS 5.9: SVM auto-take disksets Patch**

```
4871258
```

- **116502-01 – SunOS 5.9: mountd Patch**

```
4898991
```

- **116506-01 – SunOS 5.9: traceroute Patch**

```
4902275
```

- **116510-01 – SunOS 5.9: wscons Patch**

```
4966145
```

- **116527-01 – SunOS 5.9: timod Patch**

```
4924525
```

- **116529-01 – SunOS 5.9: smbus Patch**

```
4777162
```

- **116530-01 – SunOS 5.9: bge.conf Patch**

```
4978610
```

- **116532-01 – SunOS 5.9: mpt Patch**

```
4961578
```

- **116534-01 – SunOS 5.9: metassist Patch**

```
4966463
```

- **116536-01 – SunOS 5.9: dlcosmk Patch**

```
4984625
```

- **116636-01 – SunOS 5.9: Symlinks for fr_BE and es gnome l10n support**

```
4921134
```

- **116674-02 – GNOME 2.0.2 File Manager Patch**

```
4860816 4955976
```

- **116755-01 – SunOS 5.9: usr/snadm/lib/libadmutil.so.2 Patch**

```
4868757 4904083
```

- **116807-01 – SunOS 5.9: patch usr/sadm/lib/smc/lib/preload/jsdk21.jar**

```
4947668
```

- **116846-02 – SunOS 5.9: SCRIPT patch**

x86 Patch List

- **111713-05 – SunOS 5.9_x86: Shared library patch for C++**

```
4302954 4698028 4699194 4704604 4708982 4745600 4747931 4749398 4749628 4750936 4756106
4794587 4797953 4806782 4820555 4825898 4828443 4853946 4856138 4861853 4886310 4884516
4894898 4918858 4876793 4919536 4864189 4945846 4949404 4951789 4953582 4953639 4965215
```

- **111728-03 – SunOS 5.9_x86: Math Library (libm) patch**

```
4810765 4817713 4820770
```

- **112234-12 – SunOS 5.9_x86: Kernel Patch**

```
4115610 4166409 4201022 4203748 4254013 4259149 4334693 4336082 4352265 4354427 4357217
4371826 4375052 4390777 4401262 4407972 4412320 4419540 4445394 4457028 4466741 4466818
4469395 4473026 4473583 4475612 4490164 4491038 4498182 4499864 4501255 4504686 4509659
4520669 4533712 4614574 4617247 4622990 4627620 4628670 4630273 4631275 4640282 4640982
4641562 4647549 4647683 4647684 4649104 4653044 4653957 4657510 4659777 4659882 4660167
4662866 4663297 4664740 4664967 4666858 4667688 4667724 4671383 4672604 4672991 4675868
4676535 4683862 4686454 4687850 4688063 4688392 4688398 4688704 4689309 4694560 4695568
4695786 4697693 4698684 4699850 4700697 4701242 4705144 4708822 4711013 4712882 4712958
4713403 4714062 4714688 4715897 4716210 4716238 4716320 4718013 4718565 4721112 4722897
4723473 4725286 4728819 4729683 4730464 4731122 4732828 4735093 4735135 4736439 4736802
```

```
4737656 4740300 4740766 4740769 4741112 4742711 4744248 4745039 4745590 4747307 4747714
4748411 4748843 4749268 4749542 4749669 4750749 4754201 4757311 4757427 4757685 4759341
4761401 4762697 4763047 4763130 4763284 4763402 4763631 4763813 4764351 4764855 4769739
4770236 4771216 4772200 4772712 4772813 4773186 4773620 4773958 4775225 4776340 4778984
4779457 4781213 4783204 4784039 4784529 4784977 4785044 4785304 4785321 4786613 4788230
4788692 4788766 4788885 4789213 4789964 4790941 4791734 4793178 4793485 4794501 4794712
4795329 4795674 4796430 4797520 4797833 4797841 4798095 4799039 4799057 4799331 4802549
4803293 4803645 4804998 4805135 4805352 4805889 4806695 4808240 4808811 4809341 4809427
4809551 4810364 4810810 4812495 4815160 4816970 4818293 4818300 4818672 4819240 4820199
4820268 4820811 4821560 4822207 4824988 4825299 4826792 4827119 4828108 4828704 4829272
4829413 4829732 4831997 4832963 4833129 4833724 4835739 4836575 4837378 4838367 4839059
4839726 4840464 4841716 4842738 4844839 4845277 4845500 4845974 4846355 4846951 4847803
4849433 4850672 4852269 4853044 4854496 4854791 4854840 4854928 4855160 4855271 4856084
4856452 4857792 4858518 4859426 4859427 4860211 4860744 4860789 4863460 4863473 4865731
4867775 4869170 4870519 4872125 4872213 4874096 4875077 4875778 4876225 4876829 4879595
4880098 4880360 4881707 4884138 4884410 4885266 4888712 4891218 4891731 4892034 4893015
4893310 4893562 4896336 4897659 4899147 4900694 4902715 4903724 4904300 4904650 4905669
4912731 4914079 4915531 4916342 4918452 4921227 4926980 4927915 4935283 4935561 4936678
4939432 4945272 4951000 4951784 4955607 4955609 4955616 4955622 4961699 4966428 4967150
4969291 4969605 4970333 4971869 4975330 4975802 4978493 4979763 4979936 4984058 4984625
4985055 4989739 4994031 4998060
```

■ **112615-04 – SunScreen 3.2 miscellaneous fixes for Solaris 9_x86**

```
4475976 4484731 4531796 4599245 4621944 4636508 4636511 4636514 4710480 4710493 4713896
4729278 4731099 4760976 4762492 4764370 4764373 4767244 4770205 4790511 4801062 4861572
4833684 4389132 4433735 4821206
```

■ **112662-04 – SunOS 5.9_x86: IIIM and X Input & Output Method patch**

```
4901772 4803378 4805181 4805730 4823672 4593130 4412147 4726723 4629783 4721656 4721661
4742096 4691874 4650804 4774826 4772485 4777933 4776987
```

■ **112786-22 – X11 6.6.1_x86: Xsun patch**

```
4760672 4734353 4707069 4709009 4762797 4740125 4732113 4676222 4753720 4736505 4780894
4633549 4798375 4742744 4784311 4809776 4818111 4716007 4828474 4785372 4422011 4805863
4787416 4847054 4868692 4748474 4707057 4721898 4846090 4743878 4843234 4858548 4866506
4880222 4701451 4709918 4785959 4834460 4863536 4894855 4845579 4847731 4248632 4680913
4790284 4750598 4889164 4781056 4913527 4886190 4780425 4839220 4874319 4889565 4922200
4961781 4957436 4810740 4907034 4989547 4991847
```

■ **113099-01 – X11 6.6.1_x86: X RENDER extension patch**

```
4749332 4770510
```

■ **113107-01 – SunOS 5.9_x86: tmpfs Patch**

```
4860183 4865731
```

■ **113108-01 – SunOS 5.9_x86: udfs Patch**

```
4762254 4865731
```

■ **113109-01 – SunOS 5.9_x86: xmemfs Patch**

```
4865731
```

■ **113111-01 – SunOS 5.9_x86: touch Patch**

```
4482571 4659955
```

- **113112-01 – SunOS 5.9_x86: crypt Patch**

4756148 4818401 4877492 4878257 4881606 4894760 4950403 4961173

- **113124-01 – SunOS 5.9_x86: /kernel/drv/devinfo patch**

4869606

- **113241-08 – CDE 1.5_x86: dtsession patch**

4701185 4743546 4763733 4788212 4837640 4845302 4880232 4944400

- **113245-04 – CDE 1.5_x86: dtwm patch**

4743546 4853367 4868035 4917291 4948424

- **113375-01 – X11 6.6.1_x86: xpr patch**

4704388

- **113404-04 – SunOS 5.9_x86: Tamil/Kannada/Gujarati/Bengali support**

4769446 4752426 4767689 4767747 4752139 4681931 4832435

- **113406-02 – SunOS 5.9_x86: sync with 4751190 for th_TH.UTF-8 locales**

4751190

- **113408-03 – SunOS 5.9_x86: Added Five stroke input method support in S9UR**

4741018 4783961 4749970 4749975 4837040

- **113542-01 – X11 6.6.1_x86: XKB patch**

4633549

- **113590-06 – SunOS 5.9_x86: JFP manpages patch**

4808428 4809083 4695070 4742031 4688476 4710452 4717366 4851824 4852478 4907337 4907341
4961965 4961971 4979314

- **113633-01 – SunOS 5.9_x86: Updated video drivers and fixes**

4802189 4817182 4864003

- **113719-11 – SunOS 5.9_x86: libnsl rpc.nispasswdd Patch**

4152876 4353836 4668699 4684558 4710928 4727726 4738852 4757387 4765506 4767276 4828271
4874895

- **113765-02 – X11 6.6.1_x86: keyboard patch**

4716868 4237479 4633549

- **113790-01 – CDE 1.5_x86: dtexec patch**

4759425

- **113797-04 – CDE1.5_x86: Tooltalk patch**

4722127 4741187 4744289 4784893 4871091 4915560

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

4733239

- **113838-01 – CDE 1.5_x86: libDtSvc patch**

4720526

- **113840-01 – CDE 1.5_x86: sdtwsinfo patch**

4729180 4773801

- **113842-01 – CDE 1.5_x86: answerbook patch**

4729199

- **113846-01 – CDE 1.5_x86: sdtjmplay patch**

4731319

- **113862-03 – CDE 1.5_x86: dtksh patch**

4729959 4814825 4802900

- **113864-01 – CDE 1.5_x86: dtconfig patch**

4732757

- **113867-13 – Motif 1.2.7_x86 and 2.1.1_x86: Runtime library patch for Solaris 9**

4741124 4757112 4743372 4712265 4750419 4787387 4756028 4764309 4782506 4839891 4887144
4891948 4475248 4816308 4930029 4852622 4942777 4953649 4762150 4946432

- **113869-02 – CDE 1.5_x86: PDASync patch**

4653758 4705576 4642465 4783087 4815680

- **113870-04 – CDE 1.5_x86: dtmail patch**

4715670 4786715 4714769 4715322 4862205 4877306

- **113897-06 – SunOS 5.9_x86: en_US.UTF-8 locale patch**

4810102 4893213 4857313 4879620 4894641 4839796 4918666 4847017 4857857 4860057 4860065
4839577 4846689 4874481 4811234 4833698 4843218 4746498 4749928 4633291 4758189 4761039
4753468 4757704 4765728 4765666 4751190 4751699 4767922 4768220 4681931 4791073 4647462
4635650 4648210 4739481 4770344 4774817 4778370 4775106 4501634 4778686 4805695 4798658
4762506

- **113903-03 – SunOS 5.9_x86: Asian UTF-8 iconv modules enhancement**

4702278 4750690 4772950

- **113905-03 – SunOS 5.9_x86: 7 indic scripts support in Asian UTF-8 locales**

4768804 4752112 4752144 4790423 4681931

- **113907-01 – SunOS 5.9_x86: Fixed some functional problems in Chinese locales**

4731208 4677334

- **113910-01 – SunOS 5.9_x86: Thai font enhancement**

4747781

- **113924-02 – X11 6.6.1_x86: security font server patch**

4764193

- **113966-10 – SunOS 5.9_x86: OS Localization message patch**

```
4736248 4775204 4767999 4809660 4831626 4804312 4817097 4841909 4881566 4896232 4909364
4907285 4938538 4949060 4951926 4960952 4652810 4977809
```

- **113968-03 – SunOS 5.9_x86: Volume Management Localization message patch**

```
4775188 4804590 4928522
```

- **113969-01 – SunOS 5.9_x86: uxlibc Localization message patch**

```
4760256
```

- **113970-01 – SunOS 5.9_x86: DHCP Manager Localization message patch**

```
4733194
```

- **113974-01 – SunOS 5.9_x86: adb Patch**

```
4664740
```

- **113979-01 – SunOS 5.9_x86: syseventconfd Patch**

```
4737409 4745393
```

- **113986-08 – SunOS 5.9_x86: linker Patch**

```
4461340 4470917 4504895 4698800 4714146 4715815 4716275 4728822 4730110 4730433 4731183
4739660 4743413 4744337 4744411 4745129 4745932 4746231 4753066 4754751 4755674 4764817
4765536 4766815 4770484 4770494 4772927 4774727 4775738 4778247 4778418 4779976 4783869
4787579 4790194 4792461 4793721 4796237 4802194 4804328 4806476 4811093 4811951 4811969
4816378 4817314 4824026 4825065 4825151 4825296 4826315 4830584 4830889 4831544 4831650
4834784 4838226 4845764 4845829 4850703 4865418 4870260 4872634 4889914 4900320 4900684
4904565 4904573 4906062 4911775 4911796 4911936 4918310 4918938 4939869 4946992 4951840
```

- **113987-09 – SunOS 5.9_x86: nfs Patch**

```
4044295 4407669 4465488 4519102 4664740 4680195 4725574 4736706 4747261 4757427 4768760
4774462 4816496 4865731
```

- **113991-01 – SunOS 5.9_x86: sar & sadc Patch**

```
4627454 4723484
```

- **113994-17 – SunOS 5.9_x86: md Patch**

```
4159866 4259149 4352265 4373671 4462054 4473583 4508010 4518313 4518317 4521998 4628758
4631270 4632281 4634737 4647352 4648067 4655532 4666299 4668224 4668960 4669927 4678627
4680610 4690701 4690983 4698878 4701093 4705486 4705513 4710390 4711136 4711969 4714648
4714923 4715369 4715443 4719744 4720138 4721112 4723547 4725693 4733518 4740375 4744248
4760182 4763631 4774716 4780601 4796430 4802281 4808079 4808489 4814438 4816898 4816970
4826191 4829703 4830061 4834259 4835153 4839268 4854233 4854410 4866715 4871258 4883796
4893952 4917281 4934706 4935923 4936591 4942378 4948693 4954374 5003251
```

- **113996-02 – SunOS 5.9_x86: utmp_update Patch**

```
4659277 4705891
```

- **113998-05 – SunOS 5.9_x86: mkfs Patch**

```
4721124 4794712 4829570 4839900 4891129 4708464
```

- **113999-04 – SunOS 5.9_x86: devfsadm Patch**

```
4259149 4334693 4473583 4517655 4622990 4703964 4716238 4734853 4744248 4763631 4908675
```

■ **114002-01 – SunOS 5.9_x86: awk/sed pkgscripts Patch**

```
4435976 4737594
```

■ **114005-01 – SunOS 5.9_x86: sed Patch**

```
4727485
```

■ **114007-01 – SunOS 5.9_x86: tftp Patch**

```
4656587
```

■ **114009-01 – SunOS 5.9_x86: cachefsd Patch**

```
1250956 4110712 4230685 4338920 4467621 4507274 4616030 4698882 4698886 4740460
```

■ **114011-02 – SunOS 5.9_x86: m4 Patch**

```
4174383 4837874
```

■ **114015-08 – SunOS 5.9_x86: libxml, libxslt and Freeware man pages Patch**

```
4634845 4665029 4668974 4702333 4708162 4768591 4781721 4787493 4793452 4806701 4822658
4822718 4833908 4839883 4839885 4870078 4876873
```

■ **114017-01 – SunOS 5.9_x86: tomcat security patch**

```
4759554
```

■ **114021-03 – 5.9_x86: Synching Euro UTF-8s**

```
4773318 4788627 4846281
```

■ **114038-02 – SunOS 5.9_x86: patch for supporting Unicode3.2 & indic script**

```
4774476 4823451
```

■ **114040-02 – SunOS 5.9_x86: Bug fix for dtpad column in Euro UTF-8 locales**

```
4773166 4897744
```

■ **114050-07 – SunOS 5.9_x86: NSPR 4.1.4 / NSS 3.3.4.1**

```
4840298 4840300 4840303 4856631 4856633 4884151 4933535 4945089 4964119
```

■ **114124-05 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**

```
4712441 4805954
```

■ **114134-01 – SunOS 5.9_x86: mail Patch**

```
4705717
```

■ **114136-01 – SunOS 5.9_x86: at utility Patch**

```
4776480
```

■ **114137-04 – SunOS 5.9_x86: sendmail Patch**

```
4697068 4706596 4706608 4706632 4706660 4728227 4737586 4756570 4798135 4808977 4809539
4826809 4835344 4839833 4924036
```

■ **114145-02 – SunOS 5.9_x86: Apache Security Patch**

```
4737442 4759882 4768221 4948830
```

■ **114166-01 – CDE 1.5_x86: SUNWsregu Localization message patch**

```
4762680
```

■ **114185-01 – CDE 1.5_x86: rpc.cmsd patch**

```
4687131
```

■ **114191-04 – SunOS 5.9_x86: sysidnet Utility Patch**

```
4519228 4678406 4683519 4698391 4698500 4704974 4711830 4719195 4759857 4787789 4807079
4868757 4904083
```

■ **114192-06 – SunOS 5.9_x86: Volume Management Patch**

```
4429002 4478237 4508734 4516578 4576802 4632847 4637525 4645142 4648750 4656914 4656931
4660125 4664713 4696741 4704081 4715667 4730706 4739995 4764186 4773530 4791015 4791556
4931702
```

■ **114193-15 – SunOS 5.9_x86: wbem Patch**

```
4486297 4496120 4626762 4639638 4641801 4641818 4641851 4643267 4644880 4645051 4645080
4645105 4645146 4645315 4645581 4645811 4647508 4648811 4649058 4654765 4655882 4656941
4658145 4674537 4682188 4686244 4696284 4699585 4700539 4701067 4720857 4739720 4742164
4742960 4754758 4759233 4766098 4766971 4768461 4769053 4769612 4769791 4769795 4769860
4769889 4770013 4770017 4770024 4770027 4771207 4771466 4771469 4771476 4773485 4777931
4781761 4782465 4786712 4786891 4792126 4795642 4796483 4796491 4796519 4796556 4807821
4809906 4813116 4824518 4834362 4845276 4847816 4848759 4866907 4867928 4931702
```

■ **114194-05 – SunOS 5.9_x86: patchadd and patchrm Patch**

```
4421583 4529289 4623249 4625879 4639323 4678605 4706994 4723617 4725419 4728892 4731056
4737767 4744964 4750803 4759158 4767392 4850925 4949580 4967080 4985934
```

■ **114196-16 – SunOS 5.9_x86: /usr/snadm/lib Library and Differential Flash Patch**

```
4313832 4385866 4391400 4501772 4642585 4654964 4655075 4658735 4660835 4707022 4718661
4723051 4724529 4733324 4734649 4744624 4750446 4753030 4759768 4760694 4761562 4761681
4763919 4767378 4767678 4768717 4793554 4801754 4812304 4826147 4827060 4832216 4834885
4846793 4862735 4888173 4889594 4889623 4904610 4945516 4963778
```

■ **114199-01 – SunOS 5.9_x86: smcpreconfig.sh Patch**

```
4704611
```

■ **114200-01 – SunOS 5.9_x86: solregis Patch**

```
4762680
```

■ **114201-01 – SunOS 5.9_x86: Gnome Integration Patch**

```
4752366 4770721
```

■ **114210-07 – CDE 1.5_x86: dtlogin patch**

```
4750889 4761698 4807292 4720523 4768118 4687193 4864597 4840141
```

■ **114212-01 – SunOS 5.9_x86: WBEM Localization message patch**

```
4786427 4767999
```

■ **114216-04 – SunOS 5.9_x86: Install/admin Localization message patch**

```
4788175 4804609 4818688 4974126
```

■ **114218-03 – SunOS 5.9_x86: Install/admin Localization message patch**

```
4788175 4818688 4841337
```

■ **114220-05 – CDE 1.5_x86: sdtimage patch**

```
4746059 4728421 4822709 4849909
```

■ **114222-02 – SunOS 5.9_x86: UR bug fixes**

```
4791189 4789202
```

■ **114225-02 – SunOS 5.9_x86: csh Patch**

```
4198269 4479584
```

■ **114228-01 – SunOS 5.9_x86: yacc Patch**

```
4735960
```

■ **114230-01 – SunOS 5.9_x86: action_filemgr.so.1 Patch**

```
4714071
```

■ **114232-07 – SunOS 5.9_x86: rpcmod Patch**

```
4377827 4531028 4531029 4662762 4756472 4827409 4852381 4875916 4883107 4919172 4945167
5009814
```

■ **114234-03 – SunOS 5.9_x86: rsm Patch**

```
4679690 4700142 4728023 4754589 4780149 4781177 4792165
```

■ **114236-01 – SunOS 5.9_x86: libsendfile.so.1 Patch**

```
4640982 4711013
```

■ **114237-04 – SunOS 5.9_x86: libaio Patch**

```
4501001 4636591 4673944 4709171 4785625 4914854
```

■ **114238-01 – SunOS 5.9_x86: dhcpmgr.jar Patch**

```
4731988
```

■ **114240-02 – SunOS 5.9_x86: cachefs Patch**

```
4368576 4865731
```

■ **114241-07 – SunOS 5.9_x86: libsldap.so.1 Patch**

```
4523936 4624458 4658569 4720818 4723361 4757282 4776571 4779333 4780109 4787488 4802414
```

■ **114242-07 – SunOS 5.9_x86: passwdutil.so.1 & pam_authtok Patch**

```
4743707 4746114 4747441 4751394 4754634 4765506 4768140 4774607 4793719 4805635 4830406
4873939 4874749 4877796
```

■ **114243-07 – SunOS 5.9_x86: st driver Patch**

```
4027074 4273477 4336105 4412239 4728530 4734019 4734033 4756712 4761337 4774943 4799891
4804362 4809961 4819888 4819983 4821401 4841612 4854282 4861895 4866891 4895202 4903496
```

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

4771032

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

4752139

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

4829407

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

4854523

- **114260-01 – SunOS 5.9_x86: /usr/sbin/psrinfo Patch**

4841716

- **114262-01 – SunOS 5.9_x86: /usr/sbin/snoop Patch**

4259149 4473583 4744248 4763631

- **114263-01 – SunOS 5.9_x86: libgss.so.1 Patch**

4829637

- **114265-02 – SunOS 5.9_x86: in.dhcpd Patch**

4678758 4721862

- **114266-01 – SunOS 5.9_x86: winlock Patch**

4712871

- **114273-03 – SunOS 5.9_x86: Sun ONE Directory Server 5.1 patch**

4527608 4529402 4530466 4530509 4532320 4532757 4533706 4535845 4537169 4538268 4550044
4589224 4592931 4614559 4615165 4616579 4617085 4617521 4619976 4620546 4621920 4622371
4623119 4623199 4623308 4624693 4627760 4628444 4630124 4639310 4639408 4639560 4640273
4640724 4643122 4645544 4645887 4646301 4646350 4646392 4649319 4649615 4651972 4652031
4652859 4653016 4656657 4656846 4658787 4658810 4663658 4665564 4665571 4668480 4669525
4669879 4671360 4672889 4672914 4672960 4674387 4675387 4682961 4683476 4684519 4686213
4687038 4689805 4691101 4692956 4695152 4697500 4704039 4704635 4705641 4707395 4708296
4709128 4711201 4711202 4713256 4714196 4714358 4715065 4715955 4716340 4716745 4717121
4719564 4722987 4723630 4732352 4735062 4735919 4737978 4738221 4738639 4742083 4742450
4743633 4743796 4748399 4749234 4751092 4753087 4754469 4754595 4756215 4758387 4759670
4761010 4765575 4767182 4773751 4773823 4773920 4776001 4777358 4778128 4778154 4778334
4780230 4780807 4781823 4783910 4784168 4786154 4786475 4786504 4786547 4787220 4789601
4791877 4795280 4797685 4802963 4805734 4807803 4809504 4809846 4813355 4813998 4815733
4817676 4818005 4819399 4819555 4819710 4820037 4821198 4821289 4824825 4826265 4826843
4826863 4827569 4829894 4830417 4834508 4836446 4836491 4838624 4838863 4840786 4840960
4842620 4846165 4846332 4848325 4850717 4850722 4851870 4854827 4854898 4856290 4856329
4856331 4857614 4863001 4863706 4863943 4864622 4865435 4865525 4865653 4865859 4866060
4867299 4880352 4881181 4881653 4883250 4884416 4885686 4886421 4891116 4894995 4897873
4898449 4899320 4903397 4904414 4908443 4911023 4911678 4911711 4912539 4912664 4913176
4913984 4916248 4918912 4920323 4921426 4922595 4925223 4928129 4929089 4930098 4932782

```
4935077 4938445 4942664 4943975 4945548 4946487 4948365 4953750 4957279
```

- **114277-02 – SunOS 5.9_x86: Extended Arabic support in UTF-8**

```
4786458 4820267
```

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

```
4776648
```

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

```
4748729
```

- **114322-03 – SunOS 5.9_x86: Patch Manager Localization message patch**

```
4795479 4826155 4929385
```

- **114324-05 – SunOS 5.9_x86: pcplusmp Patch**

```
4503704 4677371 4761647 4807473 4808240 4853044 4912357 4951784
```

- **114328-02 – SunOS 5.9_x86: nss_ldap.so.1 Patch**

```
4643366 4751386 4779333 4780109 4830525
```

- **114330-01 – SunOS 5.9_x86: pax Patch**

```
4766460
```

- **114336-02 – SunOS 5.9_x86: usr/sbin/rmmount patch**

```
4628233 4705226 4726100
```

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

```
4655205
```

- **114342-04 – SunOS 5.9_x86: usr/lib/netsvc/yp/rpc.yppasswdd patch**

```
4283355 4823553 4882937 4905454
```

- **114343-04 – SunOS 5.9_x86: ksh patch**

```
4750637 4753777 4786817 4790885 4801490 4804763 4902634 4902666 4985002
```

- **114345-03 – SunOS 5.9_x86: kernel/drv/arp patch**

```
4715897 4777791 4914143
```

- **114348-04 – SunOS 5.9_x86: /usr/sbin/in.routed patch**

```
4639729 4673190 4699047 4705755 4726444 4728056 4728423 4828297 4836677 4859127
```

- **114350-02 – SunOS 5.9_x86: sbin/dhcpagent patch**

```
4259149 4473583 4721209 4744248 4763631
```

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

```
4761190
```

- **114354-05 – SunOS 5.9_x86: libresolv patch**

```
4353836 4700305 4777715 4793327 4796596 4805812 4810893 4874895 4928758
```

- **114355-02 – SunOS 5.9_x86: sort patch**

```
4641790 4725245 4817791 4851433 4897491 4913776
```

- **114357-02 – SunOS 5.9_x86: usr/bin/ssh patch**

```
4685658 4707786
```

- **114358-05 – SunOS 5.9_x86: snmpdx mibiisa libssagent.so.1 patch**

```
4691177 4706022 4787450 4870467 4872468 4883185
```

- **114362-01 – SunOS 5.9_x86: lofi patch**

```
4302817 4331110 4335489 4342447 4348291 4361731 4389001 4446576 4477843 4505225 4526709
4628272 4649233
```

- **114419-03 – SunOS 5.9_x86: Multiterabyte Disk Support - abi_libefi.so.1 patch**

```
4334693 4622990 4716238 4809406 4906621 4935076
```

- **114420-01 – SunOS 5.9_x86: multi-terabyte disk support - libuuid patch**

```
4334693 4622990 4716238
```

- **114421-02 – SunOS 5.9_x86: Multiterabyte Disk Support - libadm.so.1 patch**

```
4259149 4334693 4473583 4622990 4716238 4744248 4763631
```

- **114422-01 – SunOS 5.9_x86: Multiterabyte Disk Support - fmthard patch**

```
4334693 4622990 4716238
```

- **114423-06 – SunOS 5.9_x86: format patch**

```
4334693 4622990 4716238 4726667 4766161 4777332 4781880 4785642 4791416 4814438 4820859
4826988
```

- **114424-01 – SunOS 5.9_x86: Multiterabyte Disk Support - prtvtoc patch**

```
4334693 4622990 4716238
```

- **114427-03 – SunOS 5.9_x86: Umem - libumem.so.1 patch**

```
4518988 4694626 4709984 4766343 4928859
```

- **114428-01 – SunOS 5.9_x86: Umem - libumem patch**

```
4518988 4694626 4709984
```

- **114429-01 – SunOS 5.9_x86: Umem - llib-lumem patch**

```
4518988 4694626 4709984
```

- **114430-01 – SunOS 5.9_x86: Umem - abi-libumeme.so.1**

```
4518988 4694626 4709984
```

- **114432-11 – SunOS 5.9_x86: libthread.so.1 libc patch**

```
4152876 4165723 4221365 4223846 4254013 4271957 4353836 4479187 4489885 4518988 4524527
4530367 4533712 4656492 4669963 4679005 4686454 4688450 4694626 4705942 4709984 4749274
4749669 4756148 4756192 4764855 4767215 4768343 4769150 4769166 4772200 4782294 4783204
4786566 4792908 4795308 4795713 4797219 4810810 4812362 4818401 4819289 4828746 4831309
4839080 4844583 4845974 4855271 4863473 4871054 4874895 4877492 4878257 4881606 4888508
```

```
4893562 4894609 4894760 4904877 4950403 4951000 4955607 4955609 4955616 4955622 4961173
4961699
```

- **114433-07 – SunOS 5.9_x86: stack overflow - truss, ppgsz libproc patch**

```
4254013 4271957 4533712 4668520 4686454 4756192 4783204 4797219 4845974 4893562 4951000
4955607 4955609 4955616 4955622 4961699 4976951
```

- **114435-04 – SunOS 5.9_x86: IKE Hardware - libike Patch**

```
4666686 4667873 4671563 4673333 4673338 4687237 4704460 4731575 4739746 4742619 4745493
4745709 4752466 4804299 4823665 4832562 4840090 4842368 4890236 4919747 4919802 4927429
4930399
```

- **114436-01 – SunOS 5.9_x86: ike hardware - config.sample patch**

```
4666686 4673333 4687237 4704460 4739746 4745493 4745709
```

- **114437-02 – SunOS 5.9_x86: 6to4 router - usr/sbin/6to4relay patch**

```
4660167 4688392 4688398 4688704 4694560 4804064
```

- **114439-01 – SunOS 5.9_x86: Perl patch**

```
4675538 4724626 4768924
```

- **114440-02 – SunOS 5.9_x86: devinfo Patch**

```
4745581 4794712
```

- **114441-02 – SunOS 5.9_x86: Slot 1 DR - Hotplug**

```
4622581 4659144 4779758
```

- **114442-01 – SunOS 5.9_x86: 6to4 router - ifconfig patch**

```
4660167 4688392 4688398 4688704 4694560
```

- **114483-04 – SunOS 5.9_x86: Product Registry CLI Revision**

```
4385866 4391400 4655075 4753030 4767378 4767678 4768717 4796532 4801439 4863376
```

- **114496-01 – CDE 1.5_x86: dtprintinfo patch**

```
4788209
```

- **114502-01 – SunOS 5.9_x86: drmproviders.jar Patch**

```
4712814
```

- **114504-04 – SunOS 5.9_x86: usr/sadm/lib/usermgr/VUserMgr.jar Patch**

```
4762502 4803524 4931702
```

- **114514-03 – SunOS 5.9_x86: patch for Japanese and English X man pages**

```
4811454 4797892 4801395 4849095 4852478
```

- **114517-01 – SunOS 5.9_x86: patch for English sdtudctool man pages for S9UR3**

```
4808428
```

- **114521-07 – SunOS 5.9_x86: SPECIAL PATCH: For postinstall script**

```
4786712 4809906 4825349 4841998 4824518
```

- **114562-01 – X11 6.6.1_x86: X splash screen patch**

4807285

- **114565-03 – SunOS 5.9_x86: /usr/sbin/in.ftpd Patch**

4705192 4706072 4714534 4864687

- **114567-02 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**
- **114568-12 – SunOS 5.9_x86: usr/sadm/install/bin/pkginstall Patch**

4405634 4786593 4813860 4826609 4842146 4848801 4850925 4851760 4876125 4881141 4887795
4905318 4909852 4910538 4920769 4933503 4979694

- **114570-01 – SunOS 5.9_x86: libdbm.so.1 Patch**

4668699

- **114587-01 – SunOS 5.9_x86: bzip Patch**

4634845 4659775

- **114599-03 – 5.9_x86: UTF-8 dtcm chars not appearing, dtpad wrong size**

4787603 4418543

- **114613-01 – SunOS 5.9_x86: ANSI-1251 encodings file errors**

4812123

- **114615-04 – SUNOS 5.9_x86: s9ur,He, EMEA euro bugfixes unicode3.2**

4811236 4796228 4681931 4832943 4791206 4755447 4770382 4960935

- **114634-02 – SunOS 5.9_x86: ja_JP.UTF-8 locale patch**

4749205 4868872

- **114637-02 – SunOS 5.9_x86: KCMS security fix**

4661008 4774256

- **114642-02 – SunOS 5.9_x86: Japanese iconv for UTF-8 patch**

4706863 4671351 4671363

- **114678-06 – SunOS 5.9_x86: International Components for Unicode Patch**

4954656 4936232 4936244 4784646 4922414 4903197 4906617 4907166 4910918 4911499 4865107
4872194 4731597 4757662 4757683 4783065

- **114685-02 – SunOS 5.9_x86: samba Patch**

4768591 4787493 4833908 4839883 4839885

- **114712-03 – SunOS 5.9_x86: usr/sadm/lib/diskmgr/VDiskMgr.jar Patch**

4818306 4825948 4931702

- **114714-01 – SunOS 5.9_x86: newtask Patch**

4798119

- **114715-01 – SunOS 5.9_x86: libdb2.so.1 Patch**

```
4668699
```

■ **114717-01 – SunOS 5.9_x86: usr/bin/rcp Patch**

```
1149636
```

■ **114719-02 – SunOS 5.9_x86: usr/kernel/fs/pcfs Patch**

```
4413261 4782709 4865731
```

■ **114720-02 – SunOS 5.9_x86: kernel/misc/mixer Patch**

```
4714088 4776340 4790888 4824455 4829190
```

■ **114722-04 – SunOS 5.9_x86: ufsrestore and ufsdump Patch**

```
4767221 4767281 4769786 4794712
```

■ **114730-01 – SunOS 5.9_x86: /usr/sbin/in.telnetd Patch**

```
4798177
```

■ **114732-01 – SunOS 5.9_x86: sbin/init Patch**

```
4662013
```

■ **114733-03 – SunOS 5.9_x86: kernel/misc/ufs_log Patch**

```
4138139 4330959 4785875 4794712 4807979 4807983 4815160 4817074 4825181
```

■ **114735-01 – SunOS 5.9_x86: /usr/ccs/bin/lorder Patch**

```
4747253
```

■ **114737-01 – SunOS 5.9_x86: usr/sbin/nisrestore Patch**

```
4759428
```

■ **114759-01 – SunOS 5.9_x86: patch SUNW_network_rcm.so & SUNW_ip_rcm.so**

```
4836686 4847585
```

■ **114819-04 – GNOME 2.0.0_x86: libpng Patch**

```
4809087 4881639 4901822 4979460
```

■ **114856-01 – SunOS 5.9_x86: /usr/kernel/drv/sppp Patch**

```
4647938
```

■ **114857-01 – SunOS 5.9_x86: /usr/bin/pppd Patch**

```
4647938
```

■ **114858-04 – SunOS 5.9_x86: usr/lib/ssh/sshd Patch**

```
4718590 4725702 4801044 4860120 4895076 4923312
```

■ **114859-01 – SunOS 5.9_x86: kernel/drv/udp Patch**

```
4727825
```

■ **114860-02 – SunOS 5.9_x86: kernel/sys/kaio Patch**

```
4802915 4866849 4874549
```

- **114862-01 – SunOS 5.9_x86: /usr/sbin/wall Patch**

4803267

- **114876-01 – SunOS 5.9_x86: XML library source patch**

4822718

- **114924-01 – SunOS 5.9_x86: /usr/kernel/drv/logindmux Patch**

4674066

- **114925-03 – SunOS 5.9_x86: usr/lib/inet/in.mpathd Patch**

4685978 4775897 4777295 4803389 4808860 4834142

- **114928-01 – SunOS 5.9_x86: usr/sbin/allocate Patch**

4714170

- **114932-01 – SunOS 5.9_x86: usr/sbin/syslogd Patch**

4772471 4787413 4812764

- **114964-01 – SunOS 5.9_x86: SCRIPT patch**
- **114966-01 – SunOS 5.9_x86: SPECIAL PATCH: For editable files only**

4834885 4841998

- **114968-02 – SunOS 5.9_x86: FDL patch**

4892060 4892039 4796458

- **114972-02 – SunOS 5.9_x86: usr/kernel/fs/namefs Patch**

4711164 4921637

- **114973-02 – SunOS 5.9_x86: kernel/misc/nfssrv Patch**

4716413 4747261 4757427 4759341 4852269

- **114976-01 – SunOS 5.9_x86: usr/lib/inet/dhcp/svcadm/dhcpcommon.jar Patch**

4782691

- **114980-05 – SunOS 5.9_x86: lp Patch**

4648825 4697460 4704812 4704824 4705899 4705911 4705947 4705948 4714952 4761753 4902916
4925015 4927784

- **115003-01 – SunOS 5.9_x86: kbtrans patch**

4354427

- **115005-01 – SunOS 5.9_x86: ipqosconf patch**

4664957

- **115007-02 – SunOS 5.9_x86: ipgpc patch**

4664957 4984625

- **115011-02 – SunOS 5.9_x86: smartcard Patch**

4704250 4760613 4876141

- **115013-01 – SunOS 5.9_x86: patch if_mpadm**

4775897 4777295

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

4775897 4777295

- **115019-07 – SunOS 5.9_x86: patch boot/solaris/devicedb/master**

4762213 4762217 4842652 4846753 4853683 4857098 4862529 4874857 4875743 4882541 4883298
4883302 4910722 4919285

- **115021-02 – SunOS 5.9_x86: patch vold**

4794712 4817817 4895798 4903521 4905812

- **115023-04 – SunOS 5.9_x86: Multiterabyte UFS - patch headers**

4259149 4473583 4614574 4744248 4763631 4794712 4839059 4884138

- **115025-01 – SunOS 5.9_x86: patch dqblk**

4807983

- **115027-01 – SunOS 5.9_x86: patch ml_odunit**

4794712

- **115029-02 – SunOS 5.9_x86: quota utilities**

4794712 4807979 4817074 4905041

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

4794712

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

4794712

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

4794712

- **115035-03 – SunOS 5.9_x86: /usr/lib/fs/ufs/fsck patch**

4632750 4794712 4844927

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

4794712

- **115114-01 – SunOS 5.9_x86: Patch for assembler**

4617425 4794748 4637179 4744990 4507265 4633806 4633811 4443261 4847658 4845902 4827482
4818485 4864216 4887745 4889181 4885970 4885966 4881918

- **115159-05 – X11 6.6.1_x86: xscreensaver patch**

4841343 4838390 4849641 4871833

- **115166-03 – SunOS 5.9_x86: usr/lib/libnisdb.so.2 Patch**

4655472 4674036 4687778 4688447 4724357 4806914 4823553

- **115167-03 – SunOS 5.9_x86: usr/bin/cpio Patch**

```
4711504 4738687 4740813 4768749 4771017 4789757 4790357 4792482 4803461 4810827 4844489
4894077
```

- **115168-03 – SunOS 5.9_x86: usr/lib/security/pam_krb5.so.1 Patch**

```
4430138 4516537 4526202 4630574 4711993 4727224 4743181 4744280 4794436 4830044 4836676
4841013 4846024 4847827 4881066 4882946
```

- **115178-01 – SunOS 5.9_x86: SUNWjxmft/SUNWjxcft postinstall patch**

```
4851735
```

- **115316-02 – SunOS 5.9_x86: fixing dtlogin issues**

```
4854079
```

- **115318-01 – SunOS 5.9_x86: usr/bin/i86/gcore Patch**

```
4832466
```

- **115319-01 – SunOS 5.9_x86: /usr/lib/acct/acctcms Patch**

```
4701876
```

- **115320-07 – SunOS 5.9_x86: /kernel/drv/e1000g Patch**

```
4842659 4842664 4842697 4844546 4846753 4853683 4862529 4874857 4875743 4882541 4883298
4883302 4909863 4923658 4932422
```

- **115321-01 – SunOS 5.9_x86: isa.125/ata.bef Patch**

```
4836662
```

- **115331-01 – SunOS 5.9_x86: /usr/lib/librcm.so.1 Patch**

```
4775771
```

- **115335-01 – SunOS 5.9_x86: kernel/drv/elxl Patch**

```
4392116 4423264 4470581 4750553 4767680 4834346 4834353
```

- **115337-01 – SunOS 5.9_x86: /usr/bin/tar, /usr/sbin/static/tar Patch**

```
4481801 4697540 4756186
```

- **115351-01 – SunOS 5.9_x86: ident_udfs.so.1 Patch**

```
4855145
```

- **115353-01 – SunOS 5.9_x86: elxl.bef Patch**

```
4791458
```

- **115355-01 – SunOS 5.9_x86: slpd Patch**

```
4471576 4767287 4837368
```

- **115382-01 – SunOS 5.9_x86: Japanese xlibi18n patch**

```
4851271
```

- **115427-01 – SunOS 5.9_x86: UDC support for zh.GBK and zh_TW.BIG5 locales**

```
4765005 4881642
```

■ **115489-01 – SunOS 5.9_x86: patch /kernel/misc/busra**

```
4718370 4792953 4834066 4835953 4853539
```

■ **115501-03 – SunOS 5.9: SPECIAL PATCH: For EDITABLE files**

■ **115538-01 – SunOS 5.9_x86: ptem Patch**

```
4821833
```

■ **115540-02 – SunOS 5.9_x86: /usr/kernel/drv/fssnap patch**

```
4769472 4905701
```

■ **115543-02 – SunOS 5.9_x86: nss_compat.so.1 patch**

```
4152876 4156580 4353836 4874895
```

■ **115546-02 – SunOS 5.9_x86: nss_files.so.1 patch**

```
4152876 4353836 4874895
```

■ **115547-02 – SunOS 5.9_x86: SPECIAL PATCH: For Script Files**

```
4853683 4857098
```

■ **115551-02 – SunOS 5.9_x86: nss_user.so.1 patch**

```
4152876 4353836 4874895
```

■ **115554-07 – SunOS 5.9_x86: USB Drivers and Framework Patch**

```
4419540 4507408 4655789 4662300 4665811 4702501 4706244 4723993 4735031 4735465 4737194
4757590 4765718 4769577 4776340 4781283 4782292 4783855 4785916 4786786 4788315 4790678
4798619 4800029 4800123 4801046 4804860 4810230 4811758 4812935 4824054 4824763 4834143
4836298 4836606 4838235 4841489 4844296 4845179 4847936 4852863 4854629 4858443 4860534
4865592 4869166 4869362 4869396 4875818 4876234 4876900 4879738 4879741 4879799 4881576
4881577 4883138 4889441 4889499 4889600 4889606 4894475 4898174 4898176 4916009 4916848
4920655 4935335 4945141 4971869
```

■ **115560-01 – SunOS 5.9_x86: /usr/lib/rcm/modules/SUNW_svm_rcm.so Patch**

```
4813460 4822189
```

■ **115593-02 – SunOS 5.9_x86: Gnome l10n message updates and bug fixes for UR5**

```
4894688 4907339
```

■ **115595-02 – SunOS 5.9_x86: Gnome l10n help updates and bug fixes for UR5**

```
4913386 4920961
```

■ **115604-01 – SunOS 5.9_x86: yesstr, nostr incorrect in S9**

```
4869845 4811225
```

■ **115609-01 – SunOS 5.9_x86: Japanese fonts patch**

```
4864476 4876428
```

■ **115641-01 – SunOS 5.9_x86: SPECIAL PATCH Upgrade bug UR**

```
4708858
```

- **115647-01 – SunOS 5.9_x86: usr/lib/libtnfprobe.so.1 patch**

4654232 4803469

- **115652-02 – SunOS 5.9_x86: usr/lib/acct/runacct patch**

4383138 4853917

- **115655-01 – SunOS 5.9_x86: Some scalable ISO8859-7 Greek fonts are missing glyphs**

4750555

- **115664-01 – SunOS 5.9_x86: libpicldevtree.so.1 Patch**

4810029

- **115666-01 – SunOS 5.9_x86: libcpc.so.1 Patch**

4810029

- **115672-01 – SunOS 5.9_x86: usr/lib/adb/mntinfo Patch**

4747261

- **115676-02 – SunOS 5.9_x86: lgroup library Patch**

4845974 4863473 4880116 4912663

- **115678-01 – SunOS 5.9_x86:/usr/lib/ldap/idsconfig Patch**

4632409 4823553

- **115682-01 – SunOS 5.9_x86: diagcode Patch**

4864979

- **115684-01 – SunOS 5.9_x86: WAN-boot header file Patch**

4259149 4473583 4744248 4763631

- **115686-01 – SunOS 5.9_x86: /sbin/netstrategy Patch**

4259149 4473583 4744248 4763631

- **115688-02 – SunOS 5.9_x86: /var/sadm/install/admin/default Patch**

4850925

- **115690-01 – SunOS 5.9_x86: /usr/lib/patch/patchutil Patch**

4850925

- **115694-01 – SunOS 5.9_x86: /usr/bin/last Patch**

1260759

- **115696-01 – SunOS 5.9_x86: /usr/lib/netsvc/yp/yppush Patch**

4822978 4854241 4874752 4874757 4882029 4884927 4884929

- **115698-01 – SunOS 5.9_x86: /usr/lib/libmtmalloc.so.1 Patch**

4782401 4831968 4846231 4848368 4851334 4856955 4873146 4873154

- **115707-01 – SunOS 5.9_x86: init.wbem cannot register CimomService and WBEMLogServiceBean in s9u4_08.**

4878180

- **115714-01 – CDE 1.5_x86: dtfile patch**

4629782

- **115735-02 – GNOME 2.0.2_x86: Virtual File System Patch**

4858368 4871285

- **115737-01 – GNOME 2.0.2_x86: Window Manager Patch**

4839485

- **115739-03 – GNOME 2.0.2_x86: Base GUI Libraries Patch**

4884486 4858882 4861510 4871703 4875424

- **115741-02 – GNOME 2.0.2_x86: Print Technology Patch**

4909213 4879252 4901967

- **115743-02 – GNOME 2.0.2_x86: File Search Tool Patch**

4909213 4858420

- **115745-01 – SunOS 5.9_x86: SPECIAL PATCH: For editable files only**

4733324

- **115755-02 – SunOS 5.9_x86: zlib security Patch**

4822658 4870078

- **115794-01 – SunOS 5.9_x86: CDE Localization message patch**

4869761

- **115800-01 – SunOS 5.9_x86: WBEM/WBEM SDK Localization package pkginfo patch**

4760092

- **115801-02 – SunOS 5.9_x86: Bug fix for xscreensaver message and dtlogin locale locales**

4898929

- **115813-02 – GNOME 2.0.2_x86: Dtlogin Integration Patch**

4866734 4765131

- **115836-01 – SunOS 5.9_x86: Ghostscript patch**

4795491

- **115848-01 – SunOS 5.9_x86: usr/bin/admintool Patch**

4889623

- **115874-01 – SunOS 5.9_x86: /kernel/misc/scsi Patch**

```
4883142
```

■ **115875-01 – SunOS 5.9_x86:/kernel/drv/ncrs Patch**

```
4823893
```

■ **115879-01 – SunOS 5.9_x86: /usr/bin/logger Patch**

```
4859519 4874048
```

■ **115880-01 – SunOS 5.9_x86: /usr/bin/uucp Patch**

```
4756979 4804089
```

■ **115903-01 – SunOS 5.9_x86: czech monetary and collation incorrect**

```
4637202 4908698
```

■ **115905-02 – SunOS 5.9_x86: mexican monetary incorrect**

```
4907747
```

■ **115907-01 – SunOS 5.9_x86: catalan day incorrect**

```
4898546
```

■ **115913-01 – SunOS 5.9_x86: en_CA: yesstr and nostr are in french**

```
4897658
```

■ **115921-01 – SunOS 5.9_x86: CDE 1.5 help patch**

```
4892024
```

■ **115927-03 – SunOS 5.9_x86: NSPR 4.1.6 / NSS 3.3.7 / JSS 3.1.2.5**

```
4885952 4886464 4888311 4903564 4933535 4945089
```

■ **115937-01 – SunOS 5.9_x86: Bug fix for Korean translation**

```
4904741
```

■ **115950-03 – SunOS 5.9_x86: UDC patch**

```
4899738 4934214 4963466
```

■ **115959-01 – GNOME 2.0.2_x86: Help Database Patch**

```
4880052
```

■ **115965-01 – GNOME 2.0.2_x86: texteditorshare Patch**

```
4901967
```

■ **115967-01 – GNOME 2.0.2_x86: Terminal emulator Patch**

```
4901967
```

■ **115969-01 – GNOME 2.0.2_x86: Performance meter Patch**

```
4901967
```

■ **115973-03 – CDE 1.5_x86: dtterm libDtTerm patch**

```
4822385 4969514
```

- **115975-01 – GNOME 2.0.2_x86: User documentation Patch**

`4901967`

- **115987-02 – SunOS 5.9_x86: usr/bin/i86/ptree patch**

`4757218 4912227`

- **115989-01 – SunOS 5.9_x86: usr/lib/rcm/modules/SUNW_cluster_rcm.so patch**

`4856242`

- **115993-01 – SunOS 5.9_x86: /usr/include/limits.h Patch**

`4731122`

- **115995-01 – SunOS 5.9_x86: usr/include/sys/time.h patch**

`4731122`

- **116007-01 – GNOME 2.0.2_x86: Libraries Patch**

`4875223 4905797`

- **116013-01 – SunOS 5.9_x86: ps utility patch**

`4706669 4785109`

- **116015-01 – SunOS 5.9_x86: usr/sbin/usermod patch**

`4742154`

- **116017-01 – SunOS 5.9_x86: usr/sbin/logadm patch**

`4763519`

- **116018-01 – SunOS 5.9_x86: usr/lib/inet/in.ndpd patch**

`4728204 4907462`

- **116044-01 – SunOS 5.9_x86: krbv5 Patch (kdb5_util)**

`4836676`

- **116045-01 – SunOS 5.9_x86: krbv5 Patch (krb5kdc)**

`4836676`

- **116046-03 – SunOS 5.9_x86: krbv5 Patch (libkadm5srv.so.1)**

`4836676`

- **116048-01 – SunOS 5.9_x86: hsfs Patch**

`4865731`

- **116050-01 – SunOS 5.9_x86: fdfs Patch**

`4865731`

- **116052-01 – SunOS 5.9_x86: fssnap Patch**

`4670300`

- **116053-01 – SunOS 5.9_x86: autofs Patch**

```
4865731
```

- **116085-01 – X11 6.6.1_x86: font patch**

```
4857041
```

- **116091-12 – SunOS 5.9_x86: SPECIAL PATCH: For EDITABLE Files**

```
4503182 4650565 4686454 4845882 4865207 4929493 4963408 4904906 4989739 4994031
```

- **116093-06 – SunOS 5.9_x86: SPECIAL PATCH: For Script Files**
- **116106-02 – X11 6.6.1_x86: FreeType patch**

```
4795241 4939829
```

- **116120-01 – SunOS 5.9_x86: CDE Localization message patch**

```
4866067
```

- **116158-01 – SunOS 5.9_x86: SPECIAL PATCH: For CDE Package CAS Scripts**

```
4822385
```

- **116173-01 – SunOS 5.9_x86: tar Patch**

```
4864230
```

- **116175-02 – SunOS 5.9_x86: pam_krb5 Patch**

```
4727188 4831653 4838735
```

- **116179-01 – SunOS 5.9_x86: libcrypt Patch**

```
4751585 4840237
```

- **116181-01 – SunOS 5.9_x86: iconv patch**

```
4908670
```

- **116182-02 – SunOS 5.9_x86: network Patch**

```
4865207 4929493
```

- **116230-01 – SunOS 5.9_x86: libgen Patch**

```
4840237
```

- **116232-01 – SunOS 5.9_x86: llc2 Patch**

```
4828919 4841523
```

- **116238-01 – SunOS 5.9_x86: pfexec Patch**

```
4925561
```

- **116242-01 – SunOS 5.9_x86: keysock Patch**

```
4730920
```

- **116244-01 – SunOS 5.9_x86: umountall Patch**

```
4687955 4761847 4874083
```

- **116246-01 – SunOS 5.9_x86: uncompress Patch**

```
4668687 4914361
```
■ **116248-01 – SunOS 5.9_x86: audit_warn Patch**
```
4503182 4650565 4845882
```
■ **116250-01 – SunOS 5.9_x86: CDE Localization message patch**
```
4932022
```
■ **116309-01 – CDE 1.5_x86: libDtHelp patch**
```
4930117
```
■ **116335-01 – SunOS 5.9_x86: kanji command patch**
```
4928656
```
■ **116341-02 – SunOS 5.9_x86: gzip patch**
```
4793452
```
■ **116454-01 – SunOS 5.9_x86: sadmind default security level vulnerability**
```
4079984
```
■ **116473-01 – SunOS 5.9_x86: rmformat Patch**
```
4362287 4776340
```
■ **116475-01 – SunOS 5.9_x86: libsmedia Patch**
```
4776340
```
■ **116477-01 – SunOS 5.9_x86: pcic Driver Patch**
```
4776340
```
■ **116479-01 – SunOS 5.9_x86: vi Patch**
```
4349324
```
■ **116481-04 – SunOS 5.9_x86: mpt Patch**
```
4961578 4979731 4995744 5006842 5011103
```
■ **116483-01 – SunOS 5.9_x86: BSC comms support Patch**
```
4855020 4783538 4904300 4717667
```
■ **116485-04 – SunOS 5.9_x86: Broadcomm Gigabit Ethernet (BGE) Driver**
```
4892667 4904300 4904906 4950181 4960780 4963408
```
■ **116487-01 – SunOS 5.9_x86: libdevice Patch**
```
4945141
```
■ **116491-01 – SunOS 5.9_x86: acctdusg Patch**
```
4411999 4897608
```
■ **116496-01 – SunOS 5.9_x86: specfs Patch**
```
4878795
```

- **116497-01 – SunOS 5.9_x86: fdc Patch**

4956133

- **116499-01 – SunOS 5.9_x86: bufmod Patch**

4875506

- **116501-01 – SunOS 5.9_x86: SVM auto-take disksets Patch**

4871258

- **116503-01 – SunOS 5.9_x86: mountd Patch**

4898991

- **116504-01 – SunOS 5.9_x86: unix.so Patch**

4818672 4860211 4860744

- **116507-01 – SunOS 5.9_x86: traceroute Patch**

4902275

- **116508-01 – SunOS 5.9_x86: sulogin Patch**

4960245

- **116509-01 – SunOS 5.9_x86: dis Patch**

4783204 4893562 4951000 4955607 4955609 4955616 4955622 4961699

- **116511-01 – SunOS 5.9_x86: wscons Patch**

4966145

- **116524-01 – SunOS 5.9_x86: pam_ldap Patch**

4890233

- **116526-01 – SunOS 5.9_x86: change boot messages from Intel to x86**

4799406

- **116528-01 – SunOS 5.9_x86: timod Patch**

4924525

- **116531-01 – SunOS 5.9_x86: bge.conf Patch**

4978610

- **116535-01 – SunOS 5.9_x86: volume-command Patch**

4966463

- **116537-01 – SunOS 5.9_x86: dlcosmk Patch**

4984625

- **116637-01 – SunOS 5.9_x86: Symlinks for fr_BE and es gnome l10n support**

4921134

- **116675-02 – GNOME 2.0.2_x86: File Manager Patch**

```
4860816 4955976
```

   ■ **116756-01 – SunOS 5.9_x86: usr/snadm/lib/libadmutil.so.2 Patch**

```
4868757 4904083
```

   ■ **116769-01 – SUNOS 5.9_x86: s9ur, EMEA euro locale decimal fixes**

```
4960935
```

   ■ **116808-01 – SunOS 5.9_x86: patch usr/sadm/lib/smc/lib/preload/jsdk21.jar**

```
4947668
```

   ■ **116847-02 – SunOS 5.9_x86: SCRIPT patch**
   ■ **116908-05 – SunOS 5.9_x86: adpu320 Driver Patch**

```
4894604 4920366 4929931 4933078 4937387 4939202 4947770 4950375 4950383 4959941 4992167
```