



# Solaris 7 Maintenance Update 4 Release Notes

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Sun Microsystems, Inc.  
901 San Antonio Road  
Palo Alto, CA 94303-4900  
U.S.A.

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# Introduction

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The *Solaris 7 Maintenance Update 4 Release Notes* explain how to install the Solaris™ 7 Maintenance Update™ 4 (MU4) software, a set of patches that have been tested together and packaged for easy installation. These release notes are for system administrators installing the MU4 software. If you need more information on general procedures for system administration, refer to the *Solaris 7 System Administration Guide*.

The Solaris 7 MU4 applies to all systems running Solaris 7 software and to all Solaris 7 locales. The installation automatically updates previously installed patches without regressing any patches that are resident on your system.

Maintenance updates are primarily designed to update the Solaris operating software to a known, tested patch-level. If you want to apply a particular patch, and only that patch, you should do so through your normal support channels.

The Solaris 7 MU4 contains bug fixes and performance improvements. If you intend to upgrade your hardware, use the Solaris 7 11/99 CD rather than the MU4 CD.

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**Note** - The name of this product is Solaris 7 MU4, but code and path or package path names may use Solaris 2.7 or SunOS™ 5.7. Always follow the code or path as it is written in this document.

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# Installing the Solaris 7 Maintenance Update 4

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This chapter describes how to install your Solaris 7 MU4 software on a standalone system or on a diskless client or Solstice™ AutoClient™ system from a server. If you want to install the Solaris 7 MU4 software as part of a customized JumpStart™ (automatic installation) process, refer to the *Solaris Advanced Installation Guide*.

---

## Time Considerations

The Solaris 7 MU4 installation procedure takes much less time than it takes to install the MU4 patches individually. The Solaris 7 MU4 installation time varies depending on:

- CPU speed of your machine
- `install_mu` option you select
- Transfer speed of the CD-ROM drive, hard drive, or network you use to access the `install_mu` code and patch set

If you install the MU4 with the backout option disabled, installation will proceed more quickly. However, you will not be able to back out any of the patches MU4 delivers.

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## Requirements

The MU4 may only be installed on a system running the Solaris 7 operating environment. In a client/server environment, the MU4 can only be applied to a client if both the client and server are running the Solaris 7 operating environment.

Space requirements per file system vary depending on:

- Whether you select the back out option
- The location of the back out directory when saving backout data
- The disk partitions and the space available in each file system versus the patch disk space needed per file system
- Your system's locale
- Whether some of the Maintenance Update patches are already installed on your system
- Whether you are patching a client, a server, or a service area

The `install_mu` script performs a space analysis for you and reports the space needed per file system, including back out space if applicable. The space calculations take several minutes to complete.

The `install_mu` script does not proceed if it determines that space is lacking in one or more file systems. Although the patch installation space needed is calculated fairly precisely, the back out data space need is estimated and the reported need may be higher than the actual need.

If you are certain that you have enough space to apply the patch set (and back out data if desired) and you want to bypass the space calculation, run `install_mu` with the `-f` option.

---

## Installing Maintenance Update 4 on a Standalone System

Solaris 7 MU4 software can only be installed if both the system running `install_mu` and the target systems are already running Solaris 7.

It is best to reboot your system in single-user mode before installing MU4 because MU4 applies patches to system libraries. Individual systems in a multi-user system will be unstable if any processes have mapped to an unpatched version of a library and later attempt to map to different sections of the old library.

In single-user mode, network services are not available. If the MU4 image is on the network rather than on a CD, you must copy the MU4 image from the network to your local system before booting your system in single-user mode.

If it is not possible to reboot the system in single-user mode or if you do not have enough disk space to make a local copy of the MU4 image, you will need to install MU4 using NFS in multi-user mode. In this case, you should have the system in as quiet a state as possible, without users logged on or running jobs.

---

**Note** - Be sure that you have backed up your system's operating system before proceeding.

If a system shares a service area with any diskless clients or Solstice AutoClient systems, you need to invoke `install_mu` again with the `-R` option for each client using the service area. Failure to do so makes the client unstable because patches have not been applied correctly.

---

To install the Solaris 7 MU4 software:

1. **Make sure that no important user or system processes are running.**
2. **Exit the current session.**  
The CDE login screen appears.
3. **Click the Options button and select Command Line Login.**  
The system prompts you to log in.
4. **Type your login name as `root` and enter the root password:**

```
login: root
password: root password
```

5. **Reboot in single-user mode. From the root shell prompt, type:**

```
# reboot -- -s
```

---

**Note** - Changing the run level from multi-user mode to single-user mode with the `shutdown` or `init` command might leave the `vold` process running. This may cause problems mounting the MU4 CD in single-user mode.

---

## 6. Enter the root password.

Check that the system displays the following message and is now in system maintenance mode.

```
Entering System Maintenance Mode

Sun Microsystems Inc. SunOS 5.7 Generic October 1998
#
```

- If you are running `install_mu` from the CD, go to Step 7 on page 6.
- If you are running `install_mu` from a local copy of the MU4 image, go to Step 8 on page 6.

## 7. To mount the MU4 CD, place the CD in the drive and from the root shell prompt, type:

```
# mount -o ro -F hsfs /dev/dsk/c0t6d0s0 /cdrom
```

---

**Note** - In some cases the CD-ROM drive may be on a controller other than `c0` or a target other than `t6`, which would require a different path to the CD-ROM device. Check with your system administrator if you have questions about mounting the CD-ROM drive.

---

## 8. Run `install_mu`.

- From a local copy of the MU4 image, type:

```
# cd local_directory
# ./install_mu any desired options
```

- From the MU4 CD, type:

```
# cd /cdrom
# ./install_mu any desired options
```

The following options can be used on the command line.

TABLE 2-1 Command Line Options for `install_mu`

Option	Description
<code>-d</code>	Specifies that patches will not be backed up. Using this argument decreases the time it takes to install the software, but it also prevents you from backing out individual patches. Cannot be specified with <code>-B</code> option.
<code>-p patchdir</code>	Specifies directory that includes all the patches.
<code>-q</code>	Disables the display of dots that indicate <code>install_mu</code> activity.
<code>-B backoutdir</code>	Specifies that the back out data is saved in the indicated directory. Cannot be specified with the <code>-d</code> option.
<code>-f</code>	Force installation of patch set without checking for sufficient disk space. Using this option saves time, but you should only use it if you are certain that you have enough space.
<code>-R rootdir</code>	Specifies an alternate root directory. Use to apply MU4 to clients whose package system information files are located in a directory tree starting in the specified <code>rootdir</code> . Cannot be specified with the <code>-S</code> option.
<code>-S servicedir</code>	Specifies an alternate service directory. Use to apply MU4 to a service area for clients of a different operating system or architecture than the server. Cannot be specified with the <code>-R</code> option.

When the installation is complete, the following message appears:

```
install_mu completed successfully.
```

- If you see this message, go to Step 9 on page 8.

- If you encounter any errors, go to Chapter 5.

**9. Identify the Solaris release running on your system by typing:**

```
# cat /etc/release
```

You will see a display showing the Solaris platform version and date.

```
Solaris 7 s998_21a12b SPARC
Copyright 1998 Sun Microsystems, Inc. All Rights Reserved.
Assembled 06 October 1998
```

Compare the Solaris platform version and date displayed to the table below to determine if you need to install special patches.

	October 1998	January 1999	April 1999	July 1999
<b>SPARC</b>	Yes, install special patches	No, do not install special patches	No, do not install special patches	No, do not install special patches
<b>Intel</b>	Yes, install special patches	Yes, install special patches	No, do not install special patches	No, do not install special patches

- If you must install special patches, go to “Installing Special Patches” on page 12 to complete the installation.
- If you do not need to apply special patches, go to Step 10 on page 8 to complete the installation.

**10. Reboot the system by typing:**

```
# sync ; reboot
```

You are then prompted for a login.

---

**Note** - It is very important that you reboot your system after installing MU4 to prevent the library conflict problem.

---

**11. Type your login name and password:**

```
login: login
password: password
```

---

## Installing on a Diskless Client or Solstice AutoClient from a Server

You can install the Solaris 7 MU4 software on a diskless client or Solstice AutoClient system from a server that is in multiuser mode. However, you cannot run `install_mu` before you add a client. While it is possible to install the MU4 software in multiuser mode, it is best to reboot your system in single-user mode before installing MU4. Refer to *Solaris 7 Installation Library* for details on using the Solstice™ AdminSuite™ product.

You need to decide whether to use `admclientpatch` or `install_mu` to install the Solaris 7 MU4 software in a client/server environment. Use the following table and discussion to decide which method to use.

**TABLE 2-2** Differences Between `admclientpatch` and `install_mu`

	<code>admclientpatch</code>	<code>install_mu</code>
Patching speed	Slower	Faster
Service area handling	Automatic	Manual
Ease of patching	More involved	Simple
Integration with AdminSuite	Complete	None

`admclientpatch` is an AdminSuite utility that manages the installation and removal of a collection of patches on a set of managed clients. Applying the MU patch set via `install_mu` bypasses the AdminSuite product's patch management process and makes it more difficult to manage the patch set shared by multiple

clients. This is a concern if the number of clients is large or if patches other than those in the MU set are installed or removed.

`admclientpatch` automatically patches client service areas. With `install_mu`, each client needs to be patched with the `-R` option, then `install_mu` must be executed with the `-S` option for each service area. If there are multiple clients that share a single service area, you only need to run `install_mu` once with the `-S` option. This procedure ensures that both the service area and root area of a client remain consistent.

`install_mu` patches clients more quickly because it bypasses the `admclientpatch` patch management process and because `admclientpatch` removes older revisions of patches before applying newer ones. In environments with few clients and service areas, `install_mu` may be a good way to patch clients and service areas.

`install_mu` may be easier to use because it recognizes the MU set of patches. The MU distribution patch directory contains a file (`.order`) that lists all of the patches it will apply in the correct order, considering patch requirements. To patch clients with `admclientpatch`, write a script that reads the `.order` file, applies the patches to the `admclientpatch` spool area, and then invokes `admclientpatch` to install the patches to the clients. You will find the `.order` file:

- On a local copy of the MU4 image in the `local_directory/Solaris_7_MU4/platform/Patches` directory
- On the MU4 CD in the `/cdrom/Solaris_7_MU4/platform/Patches` directory

where `platform` is either `sparc` or `i386`.

For more information about managing clients and patches, see the *Solstice AutoClient 2.1 Administration Guide* at <http://docs.sun.com>.

---

**Note** - `install_mu` can be installed on servers that support SPARC and x86 server or client root paths. It can also be installed in a server's service area for either SPARC or x86 clients. The MU4 can only be installed on a system that is running the Solaris 7 operating environment. In a client/server environment, the MU4 can only be installed on a client if both the client and the server are running the Solaris 7 operating environment.

---

## Installing With `install_mu`

To install the Solaris 7 MU4 software on a diskless client or AutoClient system from a server using `install_mu`:

1. **Halt the diskless client or AutoClient system.**

2. On the server, run the `install_mu` script located in the local product directory, with the client's root directory as the argument.

- From a local copy of the MU4 image that corresponds to the client platform, type:

```
# cd local_directory
# ./install_mu -R /export/root/client_name
```

where *client\_name* is the host name of the diskless client or AutoClient system.

- From the MU4 CD, mount the CD and type:

```
# cd /cdrom/s7_maintenance_update_4_platform
# ./install_mu -R /export/root/client_name
```

where *platform* is `sparc` or `x86` and *client\_name* is the host name of the diskless client or AutoClient system.

3. Repeat this process for each diskless client or AutoClient system being served.
4. Install the Solaris 7 MU4 software on the server's service area. From a local copy of the MU4 image that corresponds to the service area being patched, type:

```
# cd local_directory
# ./install_mu -S Solaris_2.7
```

---

**Note** - If a service area is shared by the server, you also need to apply the same Maintenance Update patch set to the server's root area. Failure to do so will result in an improperly patched and unstable server.

---

5. Identify the Solaris release running on your system by typing:

```
# cat /etc/release
```

You will see a display showing the Solaris platform version and date.

Compare the Solaris platform version and date displayed to the table below to determine if you need to install special patches.

	October 1998	January 1999	April 1999	July 1999
SPARC	Yes, install special patches	No, do not install special patches	No, do not install special patches	No, do not install special patches
Intel	Yes, install special patches	Yes, install special patches	No, do not install special patches	No, do not install special patches

- If you must install special patches, go to “Installing Special Patches” on page 12 to complete the installation.
- If you do not need to apply special patches, go to Step 6 on page 12 to complete the installation.

**6. Boot the diskless client or AutoClient system.**

---

## Installing Special Patches

Some MU4 patches are not automatically installed on systems running the Solaris 7 and Solaris 7 3/99 operating environments. The patch set that is included in the MU4 is complete only for systems running the Solaris 7 5/99 and 8/99 operating environments. If you want to apply MU4 patches to systems running the Solaris 7 or Solaris 7 3/99 operating environments, you will need to apply additional patches.

The special patches for the Solaris *SPARC Platform Edition* of the MU4 include:

**TABLE 2-3** Special Patches for the Solaris *SPARC Platform Edition*

Patch ID Number	Operating Environment Version	Patch Description
107367-01	Solaris 7	Estonian locale uses incorrect codeset
107612-01	Solaris 7	koi8-R -ow hung before dtlogin screen in European locales
107693-01	Solaris 7	European locale message updates for SUNW*is SUNW*os
107707-03	Solaris 7	WOS Message Updates for Asian locales
107917-01	Solaris 7	OpenWindows™ not supported by some European locales
107935-01	Solaris 7	European locale message updates for SUNW*is SUNW*os
108082-02	Solaris 7	European locale updates
108272-01	Solaris 7	Translation updates for European locales

The special patches for the Solaris *Intel Platform Edition* of the MU4 include:

**TABLE 2-4** Special Patches for the Solaris *Intel Platform Edition*

Patch ID Number	Operating Environment Version	Patch Description
107368-01	Solaris 7	Estonian locale uses incorrect codeset
107613-01	Solaris 7	koi8-R -cde and -ow hung before dtlogin screen in European locales
107694-01	Solaris 7	European locale message updates for SUNW*is SUNW*os
107708-03	Solaris 7	WOS Message Updates for Asian locales

TABLE 2-4 Special Patches for the Solaris *Intel Platform Edition* (continued)

Patch ID Number	Operating Environment Version	Patch Description
107918-01	Solaris 7	OpenWindows not supported by some European locales
107936-01	Solaris 7	European locale message updates for SUNW*is SUNW*os
108081-02	Solaris 7	European locale updates
108088-03	Solaris 7	OpenWindows 3.6_x86: Common library, ddx, monitors, and configuration
108273-01	Solaris 7	Translation updates for European locales
108092-02	Solaris 7 3/99	OpenWindows 3.6_x86: Common library, ddx, monitors, and configuration

If you determined during the installation that you need to apply special patches, follow the steps below that correspond to the type of installation you are performing:

- “Installing Special Patches on a Standalone System” on page 14
- “Installing Special Patches on a Diskless Client or Solstice AutoClient” on page 16

---

**Note** - You may choose to install all of the special patches or only the special patches that apply to your system. Review the special patch descriptions to determine which patches apply to your system. For a more detailed description of each patch, refer to the individual patch readmes.

---

## Installing Special Patches on a Standalone System

### 1. Change directory to the special patch directory.

- From a local copy of the MU4 image, type:

```
# cd local_directory/Solaris_7_MU4/platform/Patches/special_patches
```

- From the MU4 CD, type:

```
# cd /cdrom/Solaris_7_MU4/platform/Patches/special_patches
```

where *platform* is either **sparc** or **i386**.

## 2. Install the special patches.

- To install all of the special patches:

```
# patchadd -M . patchlist
```

- To install specific special patches, type the following command:

```
# patchadd -M . patch_id patch_id
```

where *patch\_id* is the id of the special patch to install. You may install more than one patch by including each patch id in the command.

## 3. Reboot the system by typing:

```
# sync ; reboot
```

You are then prompted for a login.

---

**Note** - It is very important that you reboot your system after installing MU4 to prevent the library conflict problem as described in “Installing Maintenance Update 4 on a Standalone System” on page 4.

---

## 4. Type your login name and password:

```
login: login  
password: password
```

# Installing Special Patches on a Diskless Client or Solstice AutoClient

## 1. Change directory to the special patch directory.

- From a local copy of the MU4 image, type:

```
# cd local_directory/Solaris_7_MU4/platform/Patches/special_patches
```

- From the MU4 CD, type:

```
# cd /cdrom/Solaris_7_MU4/platform/Patches/special_patches
```

where *platform* is either *sparc* or *i386*.

## 2. Install the special patches using the following commands accordingly:

- For each client root area:
  - To install all of the special patches:

```
# patchadd -R /export/root/client_root -M . patchlist
```

- To install specific special patches, type the following command:

```
# patchadd -R /export/root/client_root -M . patch_id patch_id
```

where *patch\_id* is the id of the special patch to install. You may install more than one patch by including each patch id in the command.

- For the service area:
  - To install all of the special patches:

```
# patchadd -S Solaris_2.7 -M . patchlist
```

- To install specific special patches, type the following command:

```
# patchadd -S Solaris_2.7 -M . patch_id patch_id
```

where *patch\_id* is the id of the special patch to install. You may install more than one patch by including each patch id in the command.

### 3. Boot the diskless client or AutoClient system.

---

## Installing Patches That Support Net Installs and Custom JumpStart

MU4 contains several patches that correct problems with Interactive Install and Custom JumpStart. If you have servers that support Solaris 7 Net Install, install the patches that correspond to the OS images located on the Net Install servers.

TABLE 2-5 Net Install and Custom JumpStart Patches for the Solaris *Sparc Platform Edition*

Operating Environment Version	Patch ID Number
Solaris 7, 3/99, 5/99, and 8/99	106733-07, 106978-09, 107470-01, 108136-01

TABLE 2-6 Net Install and Custom JumpStart Patches for the Solaris *Intel Platform Edition*

Operating Environment Version	Patch ID Number
Solaris 7, 3/99, 5/99, and 8/99	106734-07, 106979-09, 107471-01, 108137-01

The patches affect the miniroot (the files located under `Tools/Boot` on the OS image) and are installed differently than other Solaris patches.

---

**Note** - The miniroot is found on full Net Install servers and Boot servers. You must patch the miniroot in both locations. If you patch a Net Install server and subsequently make a Boot server from it using the `setup_install_server` command, the new Boot server incorporates the patch applied to the Net Install server.

---

To install the patches:

**1. Change directory to the Net Install patches directory.**

- From a local copy of the MU4 image, type:

```
# cd local_directory/Solaris_7_MU4/platform/Patches/netinstall_patches
```

- From the MU4 CD, type:

```
# cd /cdrom/Solaris_7_MU4/platform/Patches/netinstall_patches
```

where *platform* is either `sparc` or `i386`

**2. Install the patches using the following command:**

```
# patchadd -C path_to_OS_image/Solaris_2.7/Tools/Boot -M . patchlist
```

---

## Identifying the Version of Your Solaris 7 Maintenance Update

To identify the version of your Solaris 7 MU software, type:

```
# cat /etc/release
```

## Backing Out the Solaris 7 Maintenance Update 4

---

The patches in the Solaris 7 MU4 software have been tested together as a set and, for the greatest stability, should be used that way. If you need to remove one of the patches, you may do so provided that you did not use the `-d` option of `install_mu` during the installation of the Solaris 7 MU4 software.

Instructions for backing out individual patches are located in each patch directory. Patch directories are located in `$ROOTDIR/var/sadm/patch/`.

---

**Note** - Backing out the entire MU is not possible if you selected the `-d` option of `install_mu`.

If a system shares a service area with any diskless clients or Solstice AutoClient systems, you need to invoke `backout_mu` again with the `-R` option for each client using the service area. Failure to do so makes the client unstable because patches have not been backed out correctly.

---

---

## Backing Out on a Standalone System

It is best to reboot your system in single-user mode before backing out the MU4. MU4 applies patches to system libraries. Individual systems in a multi-user system will be unstable if any processes have mapped to a patched version of a library and later attempt to map to different sections of the old library.

In single-user mode, network services are not available. If the MU4 image is on the network rather than on a CD, you must copy the MU4 image from the network to your local system before booting your system in single-user mode.

If it is not possible to reboot the system in single-user mode or if you do not have enough disk space to make a local copy of the MU4 image, you will need to back out MU4 using NFS in multi-user mode. In this case, you should have the system in as quiet a state as possible, without users logged on or running jobs.

The `backout_mu` script provided by MU4 enables you to back out an entire MU. To back out the Solaris 7 MU4 software:

**1. Make sure that no important user or system processes are running.**

**2. Exit the current session.**

The CDE login screen appears.

**3. Click the Options button and select Command Line Login.**

The system prompts you to log in.

**4. Type your login name as `root` and enter the root password:**

```
login: root
password: root password
```

**5. Reboot in single-user mode. From the root shell prompt, type:**

```
# reboot -- -s
```

---

**Note** - Changing the run level from multi-user mode to single-user mode with the `shutdown` or `init` command might leave the `vold` process running. This may cause problems when mounting the MU4 CD in single-user mode.

---

**6. Enter the root password.**

Check that the system displays the following message and is now in system maintenance mode.

```
Entering System Maintenance Mode
Sun Microsystems Inc. SunOS 5.7 Generic October 1998
```

**7. Determine whether you must back out special patches.**

- If you did not install special patches as described in “Installing Special Patches” on page 12, go to Step 8 on page 21 to complete the backout.
- If you installed special patches as described in “Installing Special Patches” on page 12, you must back out the special patches by typing the following command for each of the patches:

```
# patchrm patch_id
```

where *patch\_id* is the ID of the special patch.

**8. Determine where you are running the `backout_mu` command.**

- If you are running `backout_mu` from the CD, go to Step 9 on page 21.
- If you are running `backout_mu` from a local copy of the MU4 image, go to Step 10 on page 21.

**9. To mount the MU4 CD, place the CD in the drive and from the root shell prompt, type:**

```
# mount -o ro -F hsfs /dev/dsk/c0t6d0s0 /cdrom
```

---

**Note** - In some cases, the CD-ROM drive may be on a controller other than `c0` or a target other than `t6`, which would require a different path to the CD-ROM device. Check with your system administrator if you have questions about mounting the CD-ROM drive.

---

**10. Run `backout_mu`.**

- From a local copy of the MU4 image, type:

```
# cd local_directory  
# ./backout_mu any desired options
```

- From the MU4 CD, type:

```
# cd /cdrom
# ./backout_mu any desired options
```

TABLE 3-1 Command Line Options for `backout_mu`

Option	Description
-T <i>tooldir</i>	Specifies the location of the patch tools directory.
-q	Disables the display of dots that indicate <code>backout_mu</code> activity.
-B <i>backoutdir</i>	Specifies an alternate directory in which patches have been saved.
-R <i>rootdir</i>	Specifies an alternate root directory.
-S <i>servicedir</i>	Specifies an alternate service directory.

When the back out is complete, the following message is displayed:

```
backout_mu completed successfully.
```

- If you see this message, go to Step 11 on page 22 to complete the back out.
- If you encounter any errors, go to Chapter 5.

#### 11. Reboot the system by typing:

```
# sync ; reboot
```

You are then prompted for a login.

---

**Note** - It is very important that you reboot your system after backing out MU4 to prevent the library conflict problem.

---

## 12. Type your login name and password:

```
login: login
password: password
```

---

# Backing Out on a Diskless Client or Solstice AutoClient from a Server

To back out the Solaris 7 MU4 software on a diskless client or AutoClient system from a server using `backout_mu`:

1. **Halt the diskless client or AutoClient system.**
2. **Determine whether you must back out special patches.**
  - If you did not install special patches on a diskless client or Solstice AutoClient system as described in “Installing Special Patches” on page 12, go to Step 3 on page 23 to complete the backout.
  - If you installed special patches on a diskless client or Solstice AutoClient system, as described in “Installing Special Patches” on page 12, you must back out the special patches by typing the following command for each of the patches:

```
# patchrm -R /export/root/client_name patch_id
```

where *client\_name* is the hostname of the diskless client or AutoClient system and *patch\_id* is the ID of the special patch.

3. **On the server, run the `backout_mu` script located in the local product directory, with the client’s root directory as the argument.**
  - From a local copy of the MU4 image that corresponds to the client platform, type:

```
# cd local_directory
# ./backout_mu -R /export/root/client_name
```

where *client\_name* is the hostname of the diskless client or AutoClient.

- From the MU4 CD, mount the CD and type:

```
# cd /cdrom/s7_maintenance_update_4_platform
# ./backout_mu -R /export/root/client_name
```

where *platform* is `sparc` or `x86` and *client\_name* is the hostname of the diskless client or AutoClient system.

**4. Repeat this process for each diskless client or AutoClient sytem being served.**

**5. Determine whether you must back out special patches.**

- If you did not install special patches on a server's service area, as described in "Installing Special Patches" on page 12 , go to Step 6 on page 24 to complete the backout.
- If you installed special patches on a server's service area, as described in "Installing Special Patches" on page 12, you must back out the special patches by typing the following command for each of the patches:

```
# patchrm -s Solaris_2.7 patch_id
```

where *patch\_id* is the id of the special patch.

**6. Back out the Solaris 7 MU4 software on the server's service area. From a local copy of the MU4 image that corresponds to the service area being patched, type:**

```
# cd local_directory
./backout_mu -S solaris_2.7
```

---

**Note** - If a service area is shared by the server, you also need to remove the same Maintenance Update patch set from the server's root area. Failure to do so will result in an unstable and improperly patched server.

---

7. **Boot the diskless client or AutoClient system.**

---

## Backing Out Patches That Support Net Installs and Custom JumpStart

As described in “Installing Patches That Support Net Installs and Custom JumpStart” on page 17, MU4 contains several patches that correct problems with Interactive Install and Custom JumpStart. If you installed these patches, you may back out the patches using the following command:

```
# patchrm path_to_OS_image/Solaris_2.7/Tools/Boot patch_id
```

where *patch\_id* is the ID of the patch to back out. See Table 2-5 and Table 2-6 for lists of patch IDs.



## Known Problems

---

This chapter describes known problems relating to the installation and use of the Solaris 7 MU4 software.

---

### Installation Bugs

#### `install_mu` Does Not Function Correctly When Starting It Using `sh` 4062334

Because of problems regarding the interactions between `sh(1)` and `ksh(1)`, the `install_mu` utility may fail to install certain patches correctly when you start it using the following command from the command line or from an administrative script:

```
# /bin/sh ./install_mu arguments
```

**Workaround:** Execute `install_mu` from the command line or from an administrative script as follows:

```
# ./install_mu arguments
```

#### `install_mu` Leaves Files in the `/tmp` Directory 4108278

`install_mu` leaves files and working directories in `/tmp`. The files and directories could cause `/tmp` to become full, potentially leading to system problems. Files and directories left in `/tmp` are of the form `install*` and `SUNW*`.

**Workaround:** After `install_mu` has completed execution, check `/tmp` for files and directories named `install*` and `SUNW*`. If the files were created recently by root, remove them. Or, if the MU was applied to a stand alone machine or server, reboot the system.

## Patchadd Displays an Error That It Is Terminating

One of the following benign messages may be displayed by `install_mu`:

```
One or more patch packages included in
XXXXXX-YY are not installed on this system.

Patchadd is terminating.
```

Or:

```
Installation of XXXXXX-YY failed:
  Attempting to patch a package that is not installed.
```

These messages indicate that `patchadd` could not find on your system any of the packages that it intended to patch, so it skipped the indicated patch.

The message is displayed when `patchadd` notices a discrepancy installing a patch of one architecture onto a system with a different architecture (for example, a `sun4u` patch on a `sun4c` system.)

This may also be the result of one or more missing packages. The package may have been removed by the administrator, or never installed, as in the case of installing a cluster smaller than the Entire Distribution. This is common with diskless clients and AutoClient systems.

**Workaround:** Ignore the message.

---

# Backout Bugs

## Diskless Clients Unable to Login to European ISO8859-15 Locales (4255087)

In a heterogeneous client/server environment, after backing out special patch 108081-01 or 108082-01, logging in to European ISO8859-15 locales from a diskless client causes `dtlogin` to hang. The European ISO8859-15 locales are:

TABLE 4-1 European ISO8859-15 Locales

Locale	Description
de.ISO8859-15	Euro German (ISO8859-15)
de_AT.ISO8859-15	Austria (ISO8859-15)
en_GB.ISO8859-15	GB - English (ISO8859-15)
es.ISO8859-15	Euro Spanish (ISO8859-15)
fi.ISO8859-15	Finland (ISO8859-15)
fr.ISO8859-15	French (ISO8859-15)
fr_BE.ISO8859-15	Belgium (ISO8859-15)
it.ISO8859-15	Euro Italian (ISO8859-15)
nl.ISO8859-15	Netherlands (ISO8859-15)
nl_BE.ISO8859-15	Netherlands/Belgium (ISO8859-15)
pt.ISO8859-15	Portugal (ISO8859-15)
sv.ISO8859-15	Euro Swedish (ISO8859-15)

After backing out special patch 108081-01 or 108082-01, the following errors appear on the screen:

```
Backing out patch 108082-01...

pkgadd: ERROR: unable to create package object </usr/openwin/share/locale/
da.ISO
8859-15/props/da.ISO8859-15>.
pkgadd: ERROR: unable to create package object </usr/openwin/share/locale/
da.ISO
8859-15/props/de.ISO8859-15>.
.....
pkgadd: ERROR: unable to create package object </usr/openwin/share/locale/
pt.ISO
8859-15/props/sv.ISO8859-15>.
```

**Workaround:** Do not login to the European ISO8859-15 locales from diskless clients. You may login to these locales from a server.

If you have logged in to a European ISO8859-15 locale and your system is hung, complete these steps:

**1. Remotely login to the client from another machine.**

```
# rlogin client_name
```

where *client\_name* is the host name of the diskless client.

**2. Kill the dtlogin and dtsession jobs.**

```
# kill -9 PID PID
```

where *PID* are the Process IDs of dtlogin and dtsession.

**3. Restart the dtlogin.**

```
# /usr/dt/bin/dtlogin &
```

## Error Messages

---

The screen messages displayed during the execution of `install_mu` and `backout_mu` do not include all errors that may have occurred. Therefore, check the detail log file for additional information about any patches or packages that were not installed or backed out.

```
# more $ROOTDIR/var/sadm/install_data/log_file.mu_version_name.date_time
```

where:

- `$ROOTDIR` is the root directory of the system that you have just updated; for example, `/` for the local system and `/export/root/clientname` for a diskless client.
- `log_file` is the name of the log file for the process you completed. For install, it is `Maintenance_Update_log`. For backout, it is `MU_Backout_log`.
- `mu_version_name` is the name of the MU (it is `Solaris_7MU4` for MU4).
- `date_time` is the designated date and time copied from `date +%Y%m%d%H%M%S` (`yyyymmddHHMMSS` or `year-month-day-hour-minute-second`).

---

**Note** - `$ROOTDIR/var/sadm/install_data/log_file` is a symbolic link to the most recent MU log file.

---

**Note** - You will see only the error text when the message appears, not the error code number included here. The error code numbers are included here in case you are writing a script that calls the `install_mu` or `backout_mu` and your script needs to know the return values for the failure conditions.

---

### Error Code 1

signal detected.

install\_mu (backout\_mu) is terminating.

**Explanation and recommended action:** You interrupted `install_mu` (or `backout_mu`) by pressing Control-C. Reinvoke the program. If you reinvoke `install_mu`, error messages about previously applied patches will appear in the log file. Ignore the error messages.

**Error Code 2:**

install\_mu (backout\_mu) is unable to find the INST\_RELEASE file for the target file system. This file must be present for `install_mu` (backout\_mu) to function correctly.

**Explanation and recommended action:** The program cannot find the file `/var/sadm/system/admin/INST_RELEASE` in the client's root area. The client was not created properly or has become corrupted. Back up the client, then remove and recreate it.

**Error Code 3:**

ERROR: Cannot find *\$xcommand* which is required for proper execution of `install_mu` (backout\_mu).

**Explanation and recommended action:** `install_mu` and `backout_mu` require certain system utilities (for example `awk`, `sed`, `grep`) to be present in the server's `/usr/bin` and `/usr/sbin` directories. One of these utilities is missing. Contact your system administrator for assistance.

**Error Code 4:**

The `-B` and `-d` arguments are mutually exclusive.

**Explanation and recommended action:** The `-d` option requests that no backout data be saved. The `-B` option specifies a directory to store backout data. These two options cannot be used together. Reinvoke `install_mu` with only one of these options.

**Error Code 5:**

The `-p` parameter must be a directory. *\$uPATCHDIR* is not a directory.

**Explanation and recommended action:** You selected the `-p` option and supplied a path that is not a valid directory. Reinvoke `install_mu` (or `backout_mu`) with a valid path to the `-p` option.

**Error Code 6:**

The `-B` parameter must be a directory. *\$l* is not a directory.

**Explanation and recommended action:** You supplied an option to `-B` that is not a directory. Reinvoke `install_mu` (or `backout_mu`) with a valid path to the `-B` option.

**Error Code 7:**

Permissions on backout directory `$BACKOUTDIR` not adequate.

**Explanation and recommended action:** You supplied an option to `-B` that is not a writable directory. Contact your system administrator for assistance.

**Error Code 8:**

The `-R` parameter must be a directory. `$ROOTDIR` is not a directory.

**Explanation and recommended action:** You supplied an option to `-R` that is not a directory. Reinvoke `install_mu` (or `backout_mu`) with a valid path for the `-R` option.

**Error Code 9:**

The `-S` parameter must be a directory. `/export/$1` is not a directory.

**Explanation and recommended action:** `install_mu` and `backout_mu` look in `/export` for the service area you supply to the `-S` option. Currently `Solaris_2.7` is the only valid option to `-S`. The `/export/Solaris_2.7` directory must exist. If it does not, then the service area does not exist. Contact your system administrator for assistance.

**Error Code 10:**

Invalid option.

**Explanation and recommended action:** You selected an unrecognized option. Read the usage message displayed and reinvoke `install_mu` (or `backout_mu`).

**Error Code 11:**

Can't write to Log File: `$LOGFILE`

**Explanation and recommended action:** `install_mu` and `backout_mu` need to write its log into the `$ROOTDIR/var/sadm/install_data` directory, where `$ROOTDIR` specifies the root directory of your client or server. Check that the `install_data` directory is writable, then reinvoke `install_mu` (or `backout_mu`).

**Error Code 12:**

`SUNWcar` (core architecture root) package does not exist in `$ROOTDIR/var/sadm/pkg`.

**Explanation and recommended action:** The `/var/sadm/pkg/SUNWcar` directory is missing in the client or server's root area. Your client or server has become corrupted. Contact your system administrator for assistance.

**Error Code 13:**

`install_mu (backout_mu) only supports sparc and i386 architectures. install_mu (backout_mu) has detected ARCH=$LPROC.`

**Explanation and recommended action:** You ran `install_mu` (or `backout_mu`) on a system whose architecture is not SPARC or i386. Reinvoke `install_mu` (or `backout_mu`) on a supported platform.

**Error Code 14:**

`-p` parameter does not point to a directory containing a `.order` file. Looked in `$uPATCHDIR` and in `$uPATCHDIR/$MU_TOP/$LPROC/Patches`.

**Explanation and recommended action:** You provided a path to a patch directory but `install_mu` could not find a `.order` file in that directory, which it needs to determine the correct patch installation order. `install_mu` (or `backout_mu`) looked in `$path_you_specified` and in `$path_you_specified/MU/$sarch/Patches`, where `$sarch` is either "sparc" or "i386." Check for the existence of a `.order` file and reinvoke `install_mu` (or `backout_mu`).

**Error Code 15:**

`install_mu cannot locate patch order (.order) file. Paths searched: ./LPROC/Patches, $MU_TOP/LPROC/Patches, /cdrom/cdrom0/LPROC/Patches, ./uPATCHDIR, and ./uPATCHDIR/$MU_TOP/LPROC/Patches.`

**Explanation and recommended action:** You did not supply `install_mu` (or `backout_mu`) with the `-p` option to identify the patch directory and `install_mu` (or `backout_mu`) could not locate the patch directory. Reinvoke `install_mu` (or `backout_mu`) with the `-p` option.

**Error Code 16:**

`You must be root to execute this script.`

**Explanation and recommended action:** You need root privileges to run `install_mu` or `backout_mu` since only user root can apply and remove patches. Reinvoke the program as root.

**Error Code 17:**

`install_mu (backout_mu) can only patch version 2.7 systems. Target system is version $TrgOSVers.`

**Explanation and recommended action:** You asked `install_mu` to apply patches to a server or client not running Solaris 7, or you asked `backout_mu` to back out patches from a server or client not running Solaris 7; `install_mu` and `backout_mu` must be run on a Solaris 7 system.

**Error Code 18:**

Directory with patch tools, `$TOOLS_DIR`, not found.

**Explanation and recommended action:** `install_mu` (or `backout_mu`) cannot find the Tools directory distributed with the Maintenance Update. If you copied the Maintenance Update distribution to your system, then the copy has probably become corrupted or modified. Reinstall the Maintenance Update distribution.

**Error Code 19:**

`$TOOLS_DIR/patchadd` (or `patchrm`) does not exist or is not executable.

**Explanation and recommended action:** The Maintenance Update distribution comes with its own versions of `patchadd` and `patchrm`. One of these is missing or is not executable. If you copied the Maintenance Update distribution to your system, then the copy has probably become corrupted or modified. Reinstall the Maintenance Update distribution.

**Error Code 20:**

The service area must be `Solaris_2.7`.

**Explanation and recommended action:** The `-S` option supports Solaris 7 service areas. Use a valid Solaris 7 service area by reinvoking `install_mu` (or `backout_mu`) with the argument `Solaris_2.7` to the `-S` option.

**Error Code 21:**

The `-S` and `-R` arguments are mutually exclusive.

**Explanation and recommended action:** If you are applying (or backing out) the Maintenance Update to a diskless client or AutoClient, then you need to invoke `install_mu` (or `backout_mu`) twice, once with the `-R` option to patch (or backout) the client's root area and again with the `-S` option to patch (or backout) the client's service area.

**Error Code 22:**

Not enough disk space to apply entire patch set.

**Explanation and recommended action:** `install_mu` analyzed your system and determined that there was not enough disk space on one or more file systems to install the entire patch set. Make disk space available in the deficient file systems reported and reinvoke `install_mu`. If you believe that you have enough disk

space to apply the Maintenance Update, reinvoke `install_mu` with the `-f` option.

**Error Code 23:**

Not enough disk space to save patch backout data.

**Explanation and recommended action:** `install_mu` analyzed your system and determined that there was not enough disk space in the back out directory to save patch back out data. Select a back out directory with enough space, then reinvoke `install_mu`. If you believe that you really have enough disk space in the back out directory reinvoke `install_mu` with the `-f` option.

**Error Code 24:**

Dry run disk space check failed.

**Explanation and recommended action:** `install_mu` invokes `pkgadd` with a special option to check for sufficient disk space. `pkgadd` failed, probably because `/` or `/var` is very low on disk space or because your system has become corrupted. Contact your system administrator for assistance.

**Error Code 25:**

The `-f` and `-D` options are mutually exclusive.

**Explanation and recommended action:** The `-f` option instructs `install_mu` to skip the dry run disk space calculation phase. The `-D` option requests that only the dry run calculations be made. Choose one option, but not both.

**Error Code 26:**

The `$service_area` service cannot be found on this system.

**Explanation and recommended action:** `install_mu` expected to find the `/export/$service_area/var/sadm/pkg` directory, where `$service_area` is the argument to the `-S` option. The directory was not found. Check that you have a valid service area. Contact your system administrator for assistance.

**Error Code 27:**

Cannot find state file. Looked for a file of the form `$ROOTDIR/var/sadm/install_data/.mu_state.{ $root_or_usr.date_time }`.

**Explanation and recommended action:** `backout_mu` requires a file containing a list of the patches `install_mu` applied in order to know which patches to back out. If this file is missing, `backout_mu` cannot function. To remove the MU4 patch set, run the `backout_mu` program from the MU4 software distribution.

**Error Code 28:**

The `-T` parameter must be a directory. `$uTOOLDIR` is not a directory.

**Explanation and recommended action:** You supplied an option to `-T` that is not a directory. Reinvoke `backout_mu` with a valid path to the `-T` option.

**Error Code 29:**

`-T` parameter does not point to a directory containing patching tools. Looked in `$uTOOLDIR` and in `$uTOOLDIR/MU/common/Tools`.

**Explanation and recommended action:** `backout_mu` requires the tools `installpatch.fast` and `backoutpatch.fast`. These tools could not be found in the directory specified by the `-T` option. Reinvoke `backout_mu` with a valid path to the `-T` option.

**Error Code 30:**

`backout_mu` cannot locate tools directory. Paths searched: `./common/Tools`, `MU/common/Tools`, `/cdrom/cdrom0/MU/common/Tools`

**Explanation and recommended action:** `backout_mu` searched unsuccessfully in various directories for the patch tools `installpatch.fast` and `backoutpatch.fast`. Reinvoke `backout_mu` with the `-T` option and a path to these tools.



## Solaris 7 Maintenance Update Contents

---

This chapter provides the contents of the Solaris 7 MU4.

For example, the following patch:

```
106541-01 : SunOS 5.7: kernel update patch
  4139770 4140352 4170500 4174167 4179407
```

lists all parts of a patch where:

- 106541-01: is the patch ID number
- SunOS 5.7: kernel update patch is the synopsis patch description

4139770 4140352 4170500 4174167 4179407 are the identification numbers of the bugs fixed by patch ID 106541-01

---

## SPARC Platform Patch List

```
106144-09 : SunOS 5.7 Elite3D AFB Graphics Patch
  4136467 4160577 4163164 4165917 4169127 4170600 4170604 4172542 4175212 4178791
4175184 4184293 4186140 4175013 4182420 4156144 4157108 4176160 4176185 4200455 4201148
4187303 4204070 4209616 4177108 4221200 4225365 4229537 4236011 4232947 4233704 4245211
```

```
106145-08 : SunOS 5.7 Creator 7 FFB Graphics Patch
  4178791 4175013 4182420 4156144 4012535 4156098 4160585 4165396 4172537 4173830
4187303 4204070 4209616 4226313 4236011 4232947 4245211
```

```
106146-09 : SunOS 5.7 M64 Graphics Patch
  4166676 4166564 4167729 4174185 4174287 4174783 4175630 4175668 4175851 4178198
4182726 4185216 4185486 4189734 4191155 4191632 4194640 4198192 4199987 4204624 4205110
4192291 4210359 4109173 4147781 4192921 4211738 4219116 4219978 4225222 4233105 4241386
```

(continued)

4130553 4144603 4175585 4244431 4253758 4255106

106147-04 : SunOS 5.7 VIS/XIL Graphics Patch  
4163883 4172620 4182420 4223905

106148-05 : SunOS 5.7 XFB Graphics Patch  
4178791 4176160 4176185 4200235 4187566 4221205

106327-05 : SunOS 5.7 Shared library patch for C++  
1136478 1146175 1147577 1147044 1148647 1151825 1159647 1160084 1161999 1165177  
1169658 1164100 1166414 1171426 1172054 1172379 1173166 1178171 1187592 1180564 1184772  
1182934 1174107 1193580 1194462 1195674 1232632 1232579 1232305 1223494 1259645 1262573  
1254838 1264396 1265054 4022750 4005413 4079317 4082776 4100882 4121018 4089011 4067988  
4050876 4100612 4123883 4181458 4173766 4103581 4183435 4187260 4187325 4191439 4058012  
4101606 4132688 4190043 4193618 4199857

106541-08 : SunOS 5.7 kernel update patch  
4061229 4104625 4112730 4115711 4115715 4120985 4125102 4132290 4136059 4138467  
4139770 4140352 4141554 4143503 4147402 4151780 4152055 4154939 4155392 4159337 4161576  
4163786 4165983 4166495 4166626 4167174 4167270 4168739 4168892 4170410 4170500 4171679  
4172111 4172702 4173187 4173696 4174167 4174308 4174331 4174434 4174755 4175299 4175350  
4175558 4175651 4176365 4176940 4177334 4177496 4178298 4178455 4179342 4179407 4179861  
4179883 4180045 4181149 4181152 4181570 4182043 4182047 4182072 4182227 4182234 4182240  
4182970 4184015 4184305 4184430 4184786 4184788 4184794 4184852 4184877 4185110 4185366  
4185742 4186155 4187811 4187978 4188005 4188193 4190083 4190117 4190138 4190405 4190466  
4190566 4190796 4190807 4190812 4191544 4192056 4192195 4192227 4192420 4192639 4192698  
4193375 4193378 4193379 4193380 4193381 4193383 4193467 4193657 4194454 4194789 4195875  
4196408 4196541 4196986 4197418 4197450 4197461 4198134 4198723 4198942 4199032 4199606  
4200121 4200217 4200817 4201811 4201921 4202680 4203394 4204046 4205009 4205959 4206401  
4207080 4209971 4210841 4211024 4211033 4211618 4211840 4212524 4212620 4212634 4212925  
4213705 4214611 4214739 4216224 4217122 4218800 4219071 4219851 4220949 4223353 4224086  
4224714 4224729 4225553 4226963 4227724 4228409 4230627 4231212 4233009 4236372 4238230  
4238982 4240566 4242668 4245196 4245264 4245749 4245852 4246789 4250104 4252011 4255622  
4255768 4256294 4258561 4258750 4258771 4258917 4260700 4261432 4269834 4272453 4279983

106793-03 : SunOS 5.7 ufsdump and ufsrestore patch  
4077276 4132365 4145883 4169853 4184189 4240566

106843-01 : OpenWindows 3.6.1 (japanese) fixed OW ws menu bug for sparc  
4177882

106857-10 : SunOS 5.7 European locale updates  
4179837 4175110 4203951 4193529

106879-01 : Power\_Mgmt-SW 7 sys-suspend patch  
4174133

106887-02 : SunOS 5.7 SunVideo 1.4 Patch  
4197200 4233236

106915-02 : SunOS 5.7 dtmail in zh.GBK can't read 2.5.1 Chinese email by default.  
4182320 4231572

(continued)

- 106917-01 : SunOS 5.7 when view mails change charset, dtmail dump core.  
4175029
- 106924-02 : SunOS 5.7 isp driver patch  
4166035 4167726 4218841 4225182 4238500
- 106925-02 : SunOS 5.7 glm driver patch  
4162302 4176924 4231086
- 106926-05 : SunOS 5.7 sdtudctool, sdtudc\_register and sdtudc\_extract patch  
4199125 4178971 4183926 4178952 4178964 4162315 4176705 4179808 4192450 4189691  
4212116 4209084
- 106934-03 : CDE 1.3 libDtSvc Patch  
4181281 4167347 4191060 1194724
- 106936-01 : SunOS 5.7 /etc/cron.d/logchecker patch  
4094591
- 106938-02 : SunOS 5.7 libresolv patch  
4134616 4211042
- 106940-01 : SunOS 5.7 /usr/sbin/makedbm patch  
4144726
- 106942-05 : SunOS 5.7 libnsl, rpc.nisd and nis\_cachemgr patch  
4055704 4055715 4055724 4055727 4152002 4157559 4161969 4162879 4186012 4216240  
4239643
- 106944-02 : SunOS 5.7 /kernel/fs/fifofs and /kernel/fs/sparcv9/fifofs patch  
4166116 4211236
- 106946-01 : SunOS 5.7 /usr/sbin/sar patch  
4175435
- 106948-01 : SunOS 5.7 /kernel/drv/qe and /kernel/drv/sparcv9/qe patch  
4154455
- 106949-01 : SunOS 5.7 BCP (binary compatibility) patch  
4169198
- 106950-07 : SunOS 5.7 linker patch  
4159122 4165487 4173576 4174468 4176579 4179880 4188527 4188843 4194264 4205087  
4214649 4215164 4215587 4225937 4234657 4235241 4238071 4248290
- 106952-01 : SunOS 5.7 /usr/bin/uux patch  
4179980
- 106959-01 : SunOS 5.7 last portion of audio file gets chopped or repeats  
4184851
- 106960-01 : SunOS 5.7 Manual Pages for patchadd.1m and patchrm.1m  
4178212

(continued)

- 106963-01 : SunOS 5.7 /kernel/drv/esp and /kernel/drv/sparcv9/esp patch  
4176942
- 106967-01 : SunOS Release 5.7 htt server unexpectedly restart  
4172429
- 106969-01 : SunOS 5.7 zh.GBK, Input Method, Alt+1 sometimes can not work properly  
4183054
- 106971-01 : xetops of zh.GBK locale doesn't process TAB character  
4187748
- 106973-01 : SunOS 5.7 Correct translation error.  
4176030
- 106980-07 : SunOS 5.7 libthread patch  
4157739 4173285 4173422 4189981 4207409 4209710 4209713 4220253 4234139 4237201
- 106982-01 : SunOS 5.7 /kernel/drv/fas and /kernel/drv/sparcv9/fas patch  
4172361
- 106985-01 : SunOS 5.7 /usr/sbin/uadmin and /sbin/uadmin patch  
4167438
- 106987-02 : SunOS 5.7 /usr/sbin/tar patch  
4118310 4159872
- 106999-01 : SunOS 5.7 /usr/lib/adb/sparcv9/adbsub.o patch  
4164583
- 107001-01 : CDE 1.3 Actions patch  
4157154
- 107003-03 : SunOS 5.7 Updated Lucida Hebrew Fonts for Solaris 7  
4187022
- 107011-01 : CDE 1.3 sdtwebclient patch  
4110777 4164680 4185288
- 107014-01 : XIL 1.4 Deskset Loadable Pipeline Libraries: pgx24 and snapshot fix  
4177176 4174709
- 107018-01 : SunOS 5.7 /usr/sbin/in.named patch  
4134616
- 107022-04 : CDE 1.3 Calendar Manager patch  
4184188 4117156 4230754 4192354
- 107033-01 : Solaris 7 xetops crashes for BIG5  
4188052
- 107038-01 : SunOS 5.7 apropos/catman/man/whatis patch

(continued)

4107178 4154565

107042-03 : SunOS 5.7 JFP install/sysadm messages patch  
4217570 4221453

107044-01 : SunOS 5.7 Russian and Polish print failure on some printers  
4190105

107049-01 : Solaris 7 dtlogin language menu displays wrong info  
4176962

107058-01 : SunOS 5.7 Patch for assembler  
4198684

107059-01 : SunOS 5.7 /usr/bin/sort and /usr/xpg4/bin/sort patch  
4181185

107063-01 : Solaris 7 Thai engine crashes in 64bit mode  
4186151

107072-01 : CDE 1.3 Spell Checker patch  
4185079

107074-01 : SunOS 5.7 SUNWultratest doesn't support sun4us platform  
4190729

107076-01 : SunOS 5.7 /usr/kernel/drv/vol and /usr/kernel/drv/sparcv9/vol patch  
4181968

107078-18 : OpenWindows 3.6.1 Xsun Patch  
4183231 4163790 4184889 4178200 4194588 4192179 4168571 4204224 4208458 4102279  
4198669 4209569 4136721 4206665 4157641 4234976 4214254 4210522 4213395 4246833 4248958  
4109097 4231879 4245099 4231879 4232363 4223880 4262197

107081-08 : Motif 1.2.7 and 2.1.1 Runtime library patch for Solaris 7  
4159034 4149711 4171291 4170491 4162369 4165677 4171723 4174322 4183749 4186734  
4186826 4128879 4191550 4197157 4197929 4197924 4207929 4209526 4211104 4224885 4226996  
4201602 4219810 4191346 4240553 4251451 4247649 4245487

107094-04 : CDE 1.3 dtterm libDtTerm.so.2 Patch  
4177487 4190065 4163950

107115-03 : SunOS 5.7 lp patch  
4033371 4057917 4085677 4093648 4095132 4129917 4131103 4156106 4165358 4167195  
4167443 4179341 4184007 4186811 4189161 4200078 4207894 4213872 4215944 4217305 4218904  
4220608 4240238

107119-04 : SunOS 5.7 JFP manpages patch  
4185342 4190255 4195644 4199110 4222912

107124-04 : SunOS 5.7 JFP message files patch  
4195663 4216216 4240891 4263292

(continued)

107127-02 : SunOS 5.7 /usr/lib/autofs/automountd patch  
4188020

107136-01 : Solaris 7 Fixed Dtmall Shortcuts to be consistent with English  
4181490

107138-01 : Solaris 7 Fixed SUNW5ttf package to display ps files  
4178539

107147-05 : SunOS 5.7 pci driver patch  
4170981 4177530 4180438 4205258 4205298 4224282 4224713

107148-04 : SunOS 5.7 /kernel/fs/cachefs and /kernel/fs/sparcv9/cachefs patch  
4085452 4170190 4170376 4171181 4216501

107171-04 : SunOS 5.7 Fixes for patchadd and patchrm  
4186941 4176890 4190866 4150762 4193454 4194281 4194308 4224092 4245279 4258626  
4253076 4260216 4258658

107178-01 : CDE 1.3 libDtHelp.so.1 patch  
4193245

107180-12 : CDE 1.3 dtlogin patch  
4178402 4178408 4178415 4178431 4184874 4189472 4190072 4190214 4201306 4205939  
4198977 4225029 4225037 4213502 4170777 4236871 4242140 4239275 4240836 4225029 4250335  
4246047 4237848 4259869

107185-01 : SunOS 5.7 Miscellaneous Russian KOI8-R problems  
4195697 4189003 4194495

107187-01 : SunOS 5.7 Miscellaneous Eastern European locale problems  
4174452 4179411 4138017

107200-08 : CDE 1.3 dtmail patch  
4234109 4190570 4201459 4191180 4180102 4134913 4213221 4162284

107209-07 : Solaris 7 Message Updates

107219-02 : CDE 1.3 dtprintinfo patch  
4007233 4191060 4191065 4139394

107226-07 : CDE 1.3 dtwm patch  
4194255 4169837 4209745 4212855 4230855 4145607 4236474

107233-01 : OpenWindows 3.6.1 xterm patch  
4184297

107248-01 : CDE 1.3 sdtaudio patch  
4189907

107250-02 : OpenWindows 3.6.1 libsv8.so.1 Patch  
4194602

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- 107259-01 : SunOS 5.7 /usr/sbin/vold patch  
4194660
- 107285-02 : SunOS 5.7 passwd & pam library patch  
4172457 4223215
- 107292-02 : SunOS 5.7 ifp driver patch  
4138910 4148237 4153242 4156097 4172972 4177628 4178006 4182904 4185774 4190652  
4196844 4213661 4220097 4220896 4220901 4229217
- 107293-01 : SunOS 5.7 libgss.so.1 and gsscred patch  
4195223
- 107306-01 : CDE 1.3 dtfile patch  
1194724 4195992 4185042
- 107316-01 : SunOS 5.7 localeconv() returns wrong results for French  
4192615
- 107330-01 : SunOS 5.7 /usr/sbin/ntpdate patch  
4201436
- 107332-02 : SunOS 5.7 libadm patch  
4197828
- 107337-01 : OpenWindows 3.6.1 KCMS configure tool has a security vulnerability  
4199722
- 107351-01 : XGL 3.3.1 XGL Patch (stripped version)  
4202983 4172537
- 107359-01 : SunOS 5.7 BCP (binary compatibility) patch  
4198681
- 107401-01 : SunOS 5.7 /usr/bin/iostat patch  
4085790
- 107403-01 : SunOS 5.7 rlmmod & telmod patch  
4204044
- 107409-01 : Solaris 7 dtfile Menu is localized  
4181159
- 107413-01 : Solaris 7 Fix Translation "Incomplete last line" in vi for zh/zh.GBK  
4202972
- 107415-01 : Solaris 7 Result of TAB in xetops of zh.GBK isn't the same with vi  
4202006
- 107419-01 : Solaris 7 missing snapshot files  
4181454

(continued)

107430-01 : SunOS 5.7 Installer utility used by NCR breaks under Solaris 7  
4205603

107432-03 : SunOS 5.7 CTL printing patch  
4210384 4172142 4173334 4210140

107437-03 : Solaris 7 support IBM Cp837 and Cp874 iconv modules(th\_TH)  
4212930 4228950

107438-02 : SunOS 5.7 iso8859-15 locale copy and paste fix  
4203951 4244676

107441-01 : SunOS 5.7 /usr/bin/mailx patch  
4207629

107443-09 : SunOS 5.7 packaging utilities patch  
4155622 4176616 4197238 4199317 4222097 4226928 4230299 4233936 4244631 4247895  
4249447 4257708 4264760

107448-01 : SunOS 5.7 /usr/lib/fs/cachefs/cachefs patch  
4204223

107450-01 : SunOS 5.7 /platform/SUNW.Ultra-Enterprise-10000/lib/cvcd patch  
4198962

107451-02 : SunOS 5.7 /usr/sbin/cron patch  
4177427 4184825 4196408

107453-01 : SunOS 5.7 Ultra-80 platform patch  
4210707

107454-03 : SunOS 5.7 /usr/bin/ftp patch  
4138598 4193146 4197316

107456-01 : SunOS 5.7: /etc/nsswitch.dns patch  
1194875

107458-04 : SunOS 5.7 dad, sd, ssd, uata drivers patch  
4132160 4169315 4169319 4174794 4179264 4180514 4186223 4196836 4200283 4204491  
4205336 4210139 4212490 4212961 4224495 4243161 4255622

107459-01 : SunOS 5.7 qec driver patch  
4106428

107460-03 : SunOS 5.7 st driver patch  
4166568 4166574 4166583 4206636 4208102 4211607

107462-01 : SunOS 5.7 /kernel/sched/TS patch  
4201921

107465-02 : SunOS 5.7 /kernel/fs/hsfs and /kernel/fs/sparcv9/hsfs patch  
4193932 4218422

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107469-03 : SunOS 5.7 sf & socal drivers patch  
4112951 4137843 4147776 4157938 4163232 4166309 4173215 4173432 4178550 4179119  
4183049 4188044 4191621 4199373 4202933 4204363 4209342 4224244 4236557 4238790 4246258  
4247808 4255008 4263091

107472-02 : SunOS 5.7 ses driver patch  
4080156 4154979 4178782 4187557 4204367 4211478 4213304 4255622

107473-02 : SunOS 5.7 luxadm patch  
1241630 4052989 4085991 4095654 4106779 4138453 4167039 4168974 4170637 4171180  
4175643 4178514 4179070 4179292 4179506 4180833 4181098 4184487 4185601 4201182 4202581  
4205222 4207316 4208558 4208731 4209393 4212185 4213747 4214498 4227254 4228914 4229485  
4229491 4229498 4229760 4230230 4230929 4232311 4233293 4233453 4234243 4236366 4237214  
4241949 4244603 4245394 4245923 4247164 4249003 4249721 4251957

107474-01 : SunOS 5.7 ifp adb macro patch  
4229217

107475-01 : SunOS 5.7 /usr/sbin/in.telnetd patch  
4225958

107477-02 : SunOS 5.7 /usr/lib/nfs/mountd patch  
4092505 4196956

107499-02 : SunOS 5.7 koi8-R -ow hanged before dtlogin screen  
4192535

107544-03 : SunOS 5.7 /usr/lib/fs/ufs/fsck patch  
4097367 4205959 4267022

107546-02 : OpenWindows 3.6.1 Ultra 80 Support Patch  
4212493

107551-01 : SunOS 5.7 /usr/bin/date and /usr/xpg4/bin/date patch  
4167131

107553-01 : SunOS 5.7 /usr/kernel/drv/ipdcm & /usr/kernel/drv/sparcv9/ipdcm patch  
4193690

107555-01 : SunOS 5.7 /usr/lib/libldap.so.3 & /usr/lib/sparcv9/libldap.so.3 patch  
4182937 4200010

107557-02 : SunOS 5.7 /usr/sbin/sag patch  
4163982 4258285

107577-01 : SunOS 5.7 japanese installer utility patch  
4221385

107584-01 : SunOS 5.7 /usr/lib/vold/dev\_cdrom.so.1 patch  
4062297

107587-01 : SunOS 5.7 /usr/lib/acct/lastlogin patch  
4212054

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107589-03 : SunOS 5.7 se, zs, kbd and kbio.h patch  
4144228 4145265 4147705 4159098 4164468 4176071 4177655 4178060 4190872 4191338  
4194055 4199552 4202013 4230310

107624-01 : SunOS 5.7 /usr/lib/fs/ufs/df patch  
4211712

107628-01 : SunOS 5.7 sdtwebstart.dt 599 I10n\_euro message updates

107638-01 : Solaris 7 Fix the problem with font size change in dtstyle  
4201168

107648-09 : OpenWindows 3.6.1 Xsun X11R6.4 Feature Patch  
4221500 4222190 4222871 4223242 4225253 4225409 4226602 4226641 4226605 4229039  
4225372 4198669 4218677 4220615 4229532 4220673 4237267 4237375 4233145 4226459 4237407  
4245335 4258344 4259460 4261919 4262392 4215548 4233140 4237408 4245948 4246367 4247287  
4248067 4239004 4240182 4250447 4254255 4255571 4244399 4261678 4263599 4263893 4263894  
4263895 4264756 4264250 4264088 4262197 4266316 4267964 4262560 4274454

107650-05 : OpenWindows 3.6.1 Xprint X11R6.4 Extension Patch  
4225409 4258344 4258361 4262383

107652-05 : OpenWindows 3.6.1 XKB X11R6.4 Extension Patch  
4225409 4258355 4260356

107654-05 : OpenWindows 3.6.1 LBX RX X11R6.4 Extensions Patch  
4225409 4220673 4261678 4258344 4267964

107656-05 : OpenWindows 3.6.1 ERC X11R6.4 Extension Patch  
4225409 4259264 4262392

107658-04 : OpenWindows 3.6.1 New X11R6.4 X and Xt API man pages Patch  
4225409 4259264

107680-01 : SunOS 5.7 /kernel/sys/msgsys and /kernel/sys/sparcv9/msgsys patch  
4058214

107684-01 : SunOS 5.7 sendmail patch  
4214238

107688-01 : CDE 1.3 Actions patch  
4215879

107691-01 : SunOS 5.7 I10n\_euro message updates for SUNW\*is SUNW\*os 599

107700-01 : Solaris 7 Fixes the installation warning for zh.GBK  
4222076

107702-01 : CDE 1.3 dtsession patch  
4197661

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107709-03 : SunOS 5.7 libssanmp/libssagent/snmpdx/mibiisa patch  
4144431 4166235 4171108 4172607 4176076 4178419 4185282 4186361 4189025 4208419  
4218931 4219323 4224859 4224980 4232111 4233051 4237139 4247714 4248205 4250162

107711-01 : cde 1.3 sdtvolcheck patch  
4004473

107716-04 : SunOS 5.7 PGX32 Graphics Patch  
4225083 4228453 4231943 4237268 4236513 4230823 4238896 4241319 4247777 4230383

107738-01 : SunOS 5.7 Estonian locale uses incorrect codeset (QU)  
4192473

107744-01 : SunOS 5.7 /usr/bin/du and /usr/xpg4/bin/du patch  
4221507

107746-03 : SunOS 5.7 Croatian locale hr\_HR corrections  
4209557 4244676 4266292 4266293 4266298 4266300

107792-01 : SunOS 5.7 /usr/bin/pax patch  
4061087

107794-01 : SunOS 5.7 ASET patch  
4202027

107796-01 : SunOS 5.7 /kernel/fs/lofs and /kernel/fs/sparcv9/lofs patch  
4176333

107799-01 : SunOS 5.7 compress/uncompress/zcat patch  
4217213

107807-01 : Xserver\_2.7 xrdb patch  
4221044

107811-01 : SunOS 5.7 Japanaese iconv patch  
4216797 4232724

107813-01 : SunOS 5.7 Japanaese UTF-8 iconv patch  
4216797 4221058 4232724

107817-01 : Solaris 7 Fix Garbage characters display  
4206605

107834-02 : SunOS 5.7 dkio.h & commands.h patch  
4201824 4210139

107836-01 : SunOS 5.7 /usr/sbin/format patch  
4165909

107838-01 : SunOS 5.7 libtnftcl patch  
4192482

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107841-01 : SunOS 5.7 /kernel/misc/rpcsec and /kernel/misc/sparcv9/rpcsec patch  
4198273

107843-02 : SunOS 5.7 /sbin/init and /usr/sbin/init patch  
4225983 4247300

107853-01 : 3.6.1 xdm patch  
4120134 4180129

107865-01 : SunOS 5.7 /kernel/sys/shmsys patch  
4205026

107881-10 : CDE 1.3 Features Patch  
4213057 4216293 4221615 4218538 4223502 4221741 4232755 4251011

107883-04 : CDE 1.3 Features Patch  
4163990 4161058 4166139 4174337 4176730 4179913 4196016 4206235 4210744 4014669  
4101489 4101548 4220252 4219765 4221912

107885-05 : CDE 1.3 Features Patch  
4104849 4049112 4160798 1189767 4213512 4215868 4217700 4221889 4228520 4231995  
4228519 4233931 4234317 4139394 4237959 4241778 4243582 4243585

107887-07 : CDE 1.3 Features Patch  
4274175

107893-02 : openwindows 2.7 Tooltalk patch  
4229531 4153078 4204015 4260867

107899-01 : SunOS 5.7 /platform/SUNW,Ultra-Enterprise-10000/lib/dr\_daemon patch  
4229238

107917-02 : SunOS 5.7 Openwindows not supported by some euro locales  
4174253

107919-01 : SunOS 5.7 /usr/include/sys/mhd.h patch  
4236793

107924-01 : Solaris 7 Fix the problem with Dtmal sent data  
4236355

107933-01 : SunOS 5.7 I10n\_euro message updates for SUNW\*is SUNW\*os 899

107962-01 : SunOS 5.7 iconv from UTF-8 to euc requires a buffer with 1 extra byte.  
4243732

107972-01 : SunOS 5.7 /usr/sbin/static/rcp patch  
4240566

108029-02 : SunOS 5.7 S899 u3 prodreg fix for Java 1.1 and Java 1.2 VM  
4244075 4216741 4232016

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108068-03 : SunOS 5.7 Manual Page updates for Solaris 7  
4235625 4244084 4254199 4141557 4141559 4155912 4184788 4165909 4195648 4166583  
4214692 4214697 4167270 4169315 4180075 4193614 4189427 4173822 4186746 1070678 4136939  
4153439 4162004 4171658 4170933 4169829 4146611 4147612 4165502 4166848 4178133 4179296  
4181039 4181145 4246662 4242931

108089-02 : SunOS 5.7 /usr/bin/tail patch  
4209724 4257055

108147-01 : SunOS 5.7 SX Graphics Patch  
4251786

108148-01 : SunOS 5.7 prtconf patch  
4245812

108151-01 : CDE 1.3 sdtname patch  
4244049 4149628 4235799

108158-01 : SunOS 5.7 /usr/lib/fs/nfs/share patch  
4175333

108162-01 : SunOS 5.7 jsh, rsh, sh patch  
4215604

108168-01 : OpenWindows 3.6.1 X Window Include Files Patch  
4255122

108170-01 : SunOS 5.7 showrev patch  
4162298

108175-01 : SunOS 5.7 DSR Upgrade patch for localization packages  
4258815

108197-01 : CDE 1.3 dtpad patch  
4172128

108203-01 : SunOS 5.7 adb macro & headers for fibre channel transport layer  
4255622

108219-01 : CDE 1.3 dtaction Patch  
4257350

108221-01 : CDE 1.3 dtspcd Patch  
4257351

108224-01 : SunOS 5.7 envctrl driver patch  
4257172

108231-01 : Japanese CDE 1.3 Features Patch  
4265080

108244-01 : SunOS 5.7 libaio patch  
4231212

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- 108257-01 : Solaris 7 Message Updates
  
- 108263-01 : SunOS 5.7 hme driver patch  
4261708
  
- 108270-01 : SunOS 5.7 translation updates for European locales
  
- 108285-01 : SunOS 5.7 /etc/init.d/MOUNTFSYS patch  
4242666
  
- 108343-01 : CDE 1.3 sdtperfmer patch  
4275925

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## Intel Platform Patch List

- 106328-05 : SunOS 5.7\_x86 Shared library patch for C++  
1136478 1146175 1147577 1147044 1148647 1151825 1159647 1160084 1161999 1165177  
1169658 1164100 1166414 1171426 1172054 1172379 1173166 1178171 1187592 1180564 1184772  
1182934 1174107 1193580 1194462 1195674 1232632 1232579 1232305 1223494 1259645 1262573  
1254838 1264396 1265054 4022750 4005413 4079317 4082776 4100882 4121018 4089011 4067988  
4050876 4100612 4123883 4181458 4173766 4103581 4183435 4187260 4187325 4191439 4173220  
4180435 4058012 4101606 4132688 4190043 4193618 4199857
  
- 106542-08 : SunOS 5.7\_x86 kernel update patch  
1264344 4061229 4104844 4115711 4115715 4120985 4122009 4125102 4136059 4138467  
4139770 4141554 4143503 4147402 4151780 4152055 4155392 4161576 4163335 4165983 4166495  
4166626 4167174 4167270 4168739 4168892 4170410 4170500 4170602 4171679 4172111 4172702  
4173187 4173696 4174167 4174308 4174331 4174354 4174434 4174755 4175299 4175558 4175651  
4176365 4176940 4177496 4178298 4178455 4179342 4179407 4179861 4179883 4180045 4181149  
4181152 4181570 4182043 4182047 4182072 4182227 4182234 4182240 4182970 4184015 4184430  
4184786 4184788 4184794 4184852 4184877 4185110 4185366 4185742 4186155 4186202 4187811  
4187978 4188005 4188193 4188212 4190083 4190138 4190405 4190466 4190566 4190796 4190807  
4190812 4190962 4190995 4191544 4192056 4192195 4192420 4192639 4193375 4193378 4193379  
4193380 4193381 4193383 4193467 4193657 4194454 4194509 4195875 4196408 4196541 4196986  
4196994 4196998 4197140 4197418 4197422 4197461 4198134 4198723 4198942 4199032 4199042  
4199606 4200121 4200217 4200447 4200817 4200972 4201921 4202082 4202680 4203157 4203495  
4204046 4205009 4205612 4205959 4206401 4207080 4211361 4211840 4212524 4212620 4212634  
4212925 4214611 4214739 4217122 4218800 4219071 4223115 4223353 4224086 4225553 4226963  
4227256 4227724 4231212 4233009 4234085 4236372 4236795 4238230 4238982 4240566 4242668

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4244494 4245196 4245852 4246789 4250104 4252011 4255621 4255660 4255768 4256294 4257413  
4257454 4258561 4258750 4258771 4260700 4261432 4264976 4265594 4269834 4271034 4272453  
4279983

106737-02 : OpenWindows 3.6.1\_x86 mailtool vacation security patch  
4170200

106794-03 : SunOS 5.7\_x86 ufsdump and ufsrestore patch  
4077276 4132365 4145883 4169853 4184189 4240566

106821-03 : SunOS 5.7\_x86 ctl print utility patch  
4172142 4173334

106916-02 : SunOS 5.7\_x86 dtmail in zh.GBK can't read 2.5.1 Chinese email.  
4182320 4231572

106918-01 : SunOS 5.7\_x86 when view mails change charset, dtmail dump core.  
4175029

106927-05 : SunOS 5.7\_x86 sdtudctool, sdtudc\_register and sdtudc\_extract patch  
4199125 4178971 4183926 4178952 4178964 4162315 4176705 4179808 4192450 4189691  
4212116 4209084

106928-01 : OpenWindows 3.6.1 (japanese) OW ws menu bug for \_x86  
4177882

106931-09 : SunOS 5.7\_x86 European locale updates  
4179837 4175110 4193529 4203951

106935-03 : CDE 1.3\_x86 libDtSvc Patch  
4181281 4167347 4191060 1194724

106937-01 : SunOS 5.7\_x86 /etc/cron.d/logchecker patch  
4094591

106939-02 : SunOS 5.7\_x86 libresolv patch  
4134616 4211042

106941-01 : SunOS 5.7\_x86 /usr/sbin/makedbm patch  
4144726

106943-05 : SunOS 5.7\_x86 libnsl, rpc.nisd and nis\_cachemgr patch  
4055704 4055715 4055724 4055727 4152002 4157559 4161969 4162879 4186012 4216240  
4239643

106945-02 : SunOS 5.7\_x86 /kernel/fs/fifofs patch  
4166116 4211236

106947-01 : SunOS 5.7\_x86 /usr/sbin/sar patch  
4175435

106951-07 : SunOS 5.7\_x86 linker patch  
4159122 4165487 4173576 4174468 4176579 4176796 4179880 4188527 4188843 4194264

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4205087 4214649 4215164 4215587 4225937 4234657 4235241 4238071 4248290

106953-01 : SunOS 5.7\_x86 /usr/bin/uux patch  
4179980

106961-01 : SunOS 5.7\_x86 Manual Pages for patchadd.1m and patchrm.1m  
4178212

106968-01 : SunOS 5.7\_x86 htt server unexpectedly restart  
4172429

106970-01 : SunOS 5.7\_x86 zh.GBK, Input Method, Alt+1 sometimes work improperly  
4183054

106972-02 : SunOS 5.7\_x86 xetops of zh.GBK locale doesn't process TAB character  
4187748

106981-07 : SunOS 5.7\_x86 libthread patch  
4106127 4157739 4173285 4173422 4189981 4207409 4209710 4209713 4220253 4234139  
4237201

106986-01 : SunOS 5.7\_x86 /usr/sbin/uadmin and /sbin/uadmin patch  
4167438

106988-02 : SunOS 5.7\_x86 /usr/sbin/tar patch  
4118310 4159872

107002-01 : CDE 1.3\_x86 Actions patch  
4157154

107012-01 : CDE 1.3\_x86 sdtwebclient patch  
4110777 4164680 4185288

107015-06 : SunOS 5.7\_x86 sd bug fixes.  
4170911 4165914 4170657 4182538 4165905 4171479 4232401 4220005 4165837 4237170  
4208100 4216541 4170197 4210139 4257298

107016-01 : SunOS 5.7\_x86 NCR pcplusmp patch  
4181438

107017-01 : SunOS 5.7\_x86 SPWR Patch  
4155766 4183567

107019-01 : SunOS 5.7\_x86 /usr/sbin/in.named patch  
4134616

107023-04 : CDE 1.3\_x86 Calendar Manager patch  
4184188 4117156 4230754 4192354

107025-01 : SunOS 5.7\_x86 ata bug fixes.  
4183194

107034-01 : Solaris 7\_x86 xetops crashes for BIG5

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4188052

107039-01 : SunOS 5.7\_x86 apropos/catman/man/whatis patch  
4107178 4154565

107043-03 : SunOS 5.7\_x86 JFP install/sysadm messages patch  
4217570 4221453

107045-01 : SunOS 5.7\_x86 Russian and Polish print failure on some printers  
4190105

107050-01 : Solaris 7\_x86 dtlogin language menu displays wrong info  
4176962

107060-01 : SunOS 5.7\_x86 /usr/bin/sort and /usr/xpg4/bin/sort patch  
4181185

107073-01 : CDE 1.3\_x86 Spell Checker patch  
4185079

107075-01 : SunOS 5.7\_x86 SUNWultratest doesn't support sun4us platform  
4190729

107077-01 : SunOS 5.7\_x86 /usr/kernel/drv/vol patch  
4181968

107079-17 : OpenWindows 3.6.1\_x86 Xsun Patch  
4183231 4184889 4178200 4192179 4168571 4208458 4102279 4198669 4209569 4136721  
4206665 4234976 4157641 4248958 4109097 4231879 4231879 4232363 4223880 4262197

107082-08 : Motif 1.2.7\_x86 and 2.1.1\_x86 Runtime library patch for Solaris 7  
4159034 4149711 4171291 4170491 4162369 4165677 4171723 4174322 4183749 4186734  
4186826 4128879 4191550 4197157 4197929 4197924 4207929 4209526 4211104 4224885 4226996  
4191346 4201602 4219810 4240553 4247649 4251451 4245487

107095-04 : CDE 1.3\_x86 dtterm libDfTerm.so.2 Patch  
4177487 4190065 4163950

107116-03 : SunOS 5.7\_x86 lp patch  
4033371 4057917 4085677 4093648 4095132 4129917 4131103 4156106 4165358 4167195  
4167443 4179341 4184007 4186811 4189161 4200078 4207894 4213872 4215944 4217305 4218904  
4220608 4240238

107120-04 : SunOS 5.7\_x86 JFP manpages patch  
4185342 4190255 4195644 4199110 4222912

107125-03 : SunOS 5.7\_x86 JFP message files patch  
4195663 4240891 4263292

107128-01 : SunOS 5.7\_x86 /usr/lib/autofs/automountd patch  
4188020

107129-01 : SunOS 5.7\_x86 /usr/sbin/i86/sysdef patch

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4187740

107137-01 : Solaris 7\_x86 Fixed Dtmall Shortcuts to be consistent with English  
4181490

107139-01 : Solaris 7\_x86 Fixed SUNW5ttf package to display ps files  
4178539

107149-03 : SunOS 5.7\_x86 /kernel/fs/cachefs patch  
4085452 4170190 4171181 4216501

107172-04 : SunOS 5.7\_x86 Fixes for patchadd and patchrm  
4186941 4176890 4190866 4150762 4193454 4194281 4194308 4224092 4245279 4258626  
4253076 4260216 4258658

107179-01 : CDE 1.3\_x86 libDtHelp.so.1 patch  
4193245

107181-12 : CDE 1.3\_x86 dtlogin patch  
4178402 4178408 4178415 4178431 4184874 4189472 4190072 4190214 4201306 4205939  
4198977 4225029 4225037 4213502 4170777 4236871 4225029 4240836 4239275 4242140 4250335  
4246047 4237848 4259869

107184-02 : SunOS 5.7\_x86 Updated Lucida Hebrew Fonts for Solaris 7  
4187022

107188-02 : SunOS 5.7\_x86 Miscellaneous Eastern European locale problems  
4174452 4179411 4138017

107201-08 : CDE 1.3\_x86 dtmail patch  
4234109 4190570 4201459 4191180 4180102 4134913 4213221 4162284

107210-07 : Solaris 7\_x86 Message Updates

107220-02 : CDE 1.3\_x86 dtprintinfo patch  
4007233 4191060 4191065 4139394

107227-07 : CDE 1.3\_x86 dtwm patch  
4169837 4209745 4212855 4230855 4145607 4194255 4236474

107234-01 : OpenWindows 3.6.1\_x86 xterm patch  
4184297

107249-01 : CDE 1.3\_x86 sdtaudio patch  
4189907

107260-01 : SunOS 5.7\_x86 /usr/sbin/vold patch  
4194660

107286-02 : SunOS 5.7\_x86 passwd & pam library patch  
4172457 4223215

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107294-01 : SunOS 5.7\_x86 libgss.so.1 and gsscred patch  
4195223

107307-01 : CDE 1.3\_x86 dtfile patch  
1194724 4195992 4185042

107317-01 : SunOS 5.7\_x86 localeconv() returns wrong results for French  
4192615

107323-01 : SunOS 5.7\_x86 /etc/driver\_aliases patch  
4193228

107328-05 : OpenWindows 3.6\_x86 Common library, monitors, and configuration  
4187574 4205588 4202883 4218668 4220038 4058078 4166376 4229567 4164774 4221251  
4221709 4218791 4059766 4172554 4213037 4219187 4206802 4184527 4232488 4232499 4256904  
4256336

107331-01 : SunOS 5.7\_x86 /usr/sbin/ntpdate patch  
4201436

107333-02 : SunOS 5.7\_x86 libadm patch  
4197828

107339-01 : OpenWindows 3.6.1\_x86 KCMS configure security vulnerability patch  
4199722

107391-02 : SunOS 5.7\_x86 pcplusmp patch  
4187580 4217634

107393-06 : SunOS 5.7\_x86 bootconf bug fixes.  
4162292 4173065 4237204 4219717 4219988 4202793 4164753 4164755 4195019 4208893  
4230493 4246372

107402-01 : SunOS 5.7\_x86 /usr/bin/iostat patch  
4085790

107404-01 : SunOS 5.7\_x86 rlmod & telmod patch  
4204044

107410-01 : Solaris 7\_x86 dtfile Menu is localized  
4181159

107411-03 : Solaris 7\_x86 support IBM Cp837 and Cp874 iconv modules(th\_TH)  
4212930 4228950

107414-02 : Solaris 7\_x86 Fix Translation "Incomplete last line" in vi  
4202972

107416-01 : Solaris 7\_x86 Result of TAB in xetops isn't the same with vi  
4202006

107420-01 : Solaris 7\_x86 missing snapshot files  
4181454

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107431-01 : SunOS 5.7\_x86 Installer utility used by NCR breaks under Solaris 7  
4205603

107433-02 : SunOS 5.7\_x86 ctlnp printing utility patch.  
4210384 4210140

107439-02 : SunOS 5.7\_x86 iso8859-15 locale copy and paste fix  
4203951 4244676

107442-01 : SunOS 5.7\_x86 /usr/bin/mailx patch  
4207629

107444-09 : SunOS 5.7\_x86 packaging utilities patch  
4155622 4176616 4197238 4199317 4222097 4226928 4230299 4233936 4244631 4247895  
4249447 4257708 4264760

107449-01 : SunOS 5.7\_x86 /usr/lib/fs/cachefs/cachefs patch  
4204223

107452-02 : SunOS 5.7\_x86 /usr/sbin/cron patch  
4177427 4184825 4196408

107455-03 : SunOS 5.7\_x86 /usr/bin/ftp patch  
4138598 4193146 4197316

107457-01 : SunOS 5.7\_x86 /etc/nsswitch.dns patch  
1194875

107461-03 : SunOS 5.7\_x86 st driver patch  
4166568 4166574 4166583 4206636 4208102 4211607

107463-01 : SunOS 5.7\_x86 /kernel/sched/TS patch  
4201921

107466-02 : SunOS 5.7\_x86 /kernel/fs/hsfs patch  
4193932 4218422

107476-01 : SunOS 5.7\_x86 /usr/sbin/in.telnetd patch  
4225958

107478-02 : SunOS 5.7\_x86 /usr/lib/nfs/mountd patch  
4092505 4196956

107500-02 : SunOS 5.7\_x86 koi8-R -cde & ow hanged before dtlogin screen  
4192535

107537-01 : SunOS 5.7\_x86 kd patch  
4203845

107545-03 : SunOS 5.7\_x86 /usr/lib/fs/ufs/fsck patch  
4097367 4205959 4267022

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- 107552-01 : SunOS 5.7\_x86 /usr/bin/date and /usr/xpg4/bin/date patch  
4167131
- 107554-01 : SunOS 5.7\_x86 /usr/kernel/drv/ipdcm patch  
4193690
- 107556-01 : SunOS 5.7\_x86 /usr/lib/libldap.so.3 patch  
4182937 4200010
- 107558-02 : SunOS 5.7\_x86 /usr/sbin/sag patch  
4163982 4258285
- 107578-01 : SunOS 5.7\_x86 japanese installer utility patch  
4221385
- 107585-01 : SunOS 5.7\_x86 /usr/lib/vold/dev\_cdrom.so.1 patch  
4062297
- 107588-01 : SunOS 5.7\_x86 /usr/lib/acct/lastlogin patch  
4212054
- 107625-01 : SunOS 5.7\_x86 /usr/lib/fs/ufs/df patch  
4211712
- 107629-01 : SunOS 5.7\_x86 sdtwebstart.dt 599 l10n\_euro message updates
  
- 107639-01 : Solaris 7\_x86 Fix the problem with font size change in dtstyle  
4201168
  
- 107649-09 : OpenWindows 3.6.1\_x86 Xsun X11R6.4 Feature Patch  
4221500 4222190 4222871 4223242 4225253 4225409 4226602 4226641 4226605 4229039  
4225372 4198669 4218677 4220615 4229532 4220673 4237267 4237375 4233145 4226459 4245335  
4237407 4258344 4259460 4261919 4262392 4215548 4233140 4237408 4245948 4246367 4247287  
4248067 4239004 4240182 4250447 4254255 4255571 4244399 4261678 4262197 4263599 4263893  
4263894 4263895 4264088 4264250 4264756 4266316 4267964 4262560 4274454
- 107651-05 : OpenWindows 3.6.1\_x86 Xprint X11R6.4 Extension Patch  
4225409 4258344 4258361 4262383
- 107653-05 : OpenWindows 3.6.1\_x86 XKB X11R6.4 Extension Patch  
4225409 4258355 4260356
- 107655-05 : OpenWindows 3.6.1\_x86 LBX RX X11R6.4 Extensions Patch  
4225409 4220673 4261678 4258344 4267964
- 107657-04 : OpenWindows 3.6.1\_x86 ERC X11R6.4 Extension Patch  
4225409 4259264
- 107659-04 : OpenWindows 3.6.1\_x86 New X11R6.4 X and Xt API man pages Patch  
4225409 4259264
- 107679-03 : OpenWindows 3.6\_x86 Updated ATI video support.

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4212681 4206075 4228307 4233396 4236509 4200584

107681-01 : SunOS 5.7\_x86 /kernel/sys/msgsys patch  
4058214

107685-01 : SunOS 5.7\_x86 sendmail patch  
4214238

107690-01 : CDE 1.3\_x86 Actions patch  
4215879

107692-01 : SunOS 5.7\_x86 110n\_euro message updates for SUNW\*is SUNW\*os 599

107701-01 : Solaris 7\_x86 Fixes the installation warning for zh.GBK  
4222076

107703-01 : CDE 1.3\_x86 dtsession patch  
4197661

107710-03 : SunOS 5.7\_x86 libssasmp/libssagent/snmpdx/mibiisa patch  
4144431 4166235 4171108 4172607 4176076 4178419 4185282 4186361 4189025 4208419  
4218931 4219323 4224859 4224980 4232111 4233051 4237139 4247714 4248205 4250162

107712-01 : cde 1.3\_x86 sdtvolcheck patch  
4004473

107739-01 : SunOS 5.7\_x86 Estonian locale uses incorrect codeset (QU)  
4192473

107745-01 : SunOS 5.7\_x86 /usr/bin/du and /usr/xpg4/bin/du patch  
4221507

107747-03 : SunOS 5.7\_x86 Croatian locale hr\_HR corrections  
4209557 4244676 4266292 4266293 4266298 4266300

107793-01 : SunOS 5.7\_x86 /usr/bin/pax patch  
4061087

107795-01 : SunOS 5.7\_x86 ASET patch  
4202027

107797-01 : SunOS 5.7\_x86 /kernel/fs/lofs patch  
4176333

107800-01 : SunOS 5.7\_x86 compress/uncompress/zcat patch  
4217213

107808-02 : OpenWindows 3.6.1\_x86 xrdb patch  
4221044

107812-01 : SunOS 5.7\_x86 Japanese iconv patch  
4216797 4232724

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- 107814-01 : SunOS 5.7\_x86 Japanaese UTF-8 iconv patch  
4216797 4221058 4232724
- 107818-01 : Solaris 7\_x86 Fix Garbage characters display  
4206605
- 107835-02 : SunOS 5.7\_x86 dkio.h & commands.h patch  
4201824 4210139
- 107837-01 : SunOS 5.7\_x86 /usr/sbin/format patch  
4165909
- 107839-01 : SunOS 5.7\_x86 libtfnctl patch  
4192482
- 107842-01 : SunOS 5.7\_x86 /kernel/misc/rpcsec patch  
4198273
- 107844-02 : SunOS 5.7\_x86 /sbin/init and /usr/sbin/init patch  
4225983 4247300
- 107854-01 : 3.6.1\_x86 xdm patch  
4120134 4180129
- 107866-01 : SunOS 5.7\_x86 /kernel/sys/shmsys patch  
4205026
- 107878-02 : SunOS 5.7\_x86 /kernel/drv/cadp patch  
4232354 4218072 4213974 4215327 4217029 4211748 4202184 4210415 4211749 4210505  
4209951 4203809 4205612 4203811 4204641 4205186 4204682 4199541 4202188 4206303 4206704  
4206791 4206871 4207140 4207152 4204603 4197248 4204285 4202186 4202194 4202187 4140090  
4140102 4140103 4225895 4209852
- 107879-02 : SunOS 5.7\_x86 /kernel/drv/ncrs patch  
4189732 4198547 4205488 4207541 4207848 4212991 4230280 4230283 4009709 4011181  
4017961 4155184 4173622 4215681 4230736 4165916 4174395 4165916
- 107882-10 : CDE 1.3\_x86 Features Patch  
4213057 4216293 4221615 4218538 4223502 4221741 4232755 4251011
- 107884-04 : CDE 1.3\_x86 Features Patch  
4163990 4161058 4166139 4174337 4176730 4179913 4196016 4206235 4210744 4014669  
4101489 4101548 4220252 4219765 4221912
- 107886-05 : CDE 1.3\_x86 Features Patch  
4104849 4049112 4160798 1189767 4213512 4215868 4217700 4221889 4228520 4231995  
4228519 4233931 4234317 4139394 4237959 4241778 4243582 4243585
- 107888-07 : CDE 1.3\_x86 Features Patch  
4274175
- 107894-02 : openwindows 2.7\_x86 Tooltalk patch

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4229531 4153078 4260867 4204015

107918-02 : SunOS 5.7\_x86 Openwindows not supported by some euro locales  
4174253

107920-01 : SunOS 5.7\_x86 /usr/include/sys/mhd.h patch  
4236793

107925-01 : Solaris 7\_x86 Fix the problem with Dtmal sent data  
4236355

107927-02 : SunOS 5.7\_x86 /usr/include/sys/kbio.h patch  
4240239

107934-01 : SunOS 5.7\_x86 I10n\_euro message updates for SUNW\*is SUNW\*os 899

107963-01 : 5.7\_x86 iconv from UTF-8 to euc requires a buffer w/ 1 extra byte.  
4243732

107973-01 : SunOS 5.7\_x86 /usr/sbin/static/rcp patch  
4240566

108030-02 : SunOS 5.7\_x86 prodreg fix for Java 1.1 and Java 1.2 VM  
4244075 4216741 4232016

108037-01 : SunOS 5.7\_x86 symhisl patch  
4245196

108038-01 : SunOS 5.7\_x86 iprb patch  
4245196

108060-01 : OpenWindows 3.6\_x86 Updated Matrox video support.  
4152129 4226513 4243973 4256047

108067-01 : OpenWindows 3.6\_x86 Updated 3Dlabs video support.  
4203661

108069-03 : SunOS 5.7\_x86 Manual Page updates for Solaris 7  
4235625 4244084 4254199 4141557 4141559 4155912 4184788 4165909 4195648 4166583  
4214692 4214697 4167270 4169315 4180075 4193614 4189427 4173822 4186746 1070678 4136939  
4153439 4162004 4171658 4170933 4169829 4146611 4147612 4165502 4166848 4178133 4179296  
4181039 4181145 4246662 4242931

108090-02 : SunOS 5.7\_x86 /usr/bin/tail patch  
4209724 4257055

108143-04 : SunOS 5.7\_x86 iprb patch  
4221722 4217629 4181961 4192641 4227350

108152-01 : CDE 1.3\_x86 sdtname patch  
4244049 4149628 4235799

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108159-01 : SunOS 5.7\_x86 /usr/lib/fs/nfs/share patch  
4175333

108163-01 : SunOS 5.7\_x86 jsh, rsh, sh patch  
4215604

108169-01 : OpenWindows 3.6.1\_x86 X Window Include Files Patch  
4255122

108171-01 : SunOS 5.7\_x86 showrev patch  
4162298

108176-01 : SunOS 5.7\_x86 DSR upgrade patch for localization packages  
4258815

108198-01 : CDE 1.3\_x86 dtpad patch  
4172128

108220-01 : CDE 1.3\_x86 dtaction Patch  
4257350

108222-01 : CDE 1.3\_x86 dtspcd Patch  
4257351

108232-01 : Japanese CDE 1.3\_x86 Features Patch  
4265080

108245-01 : SunOS 5.7\_x86 libaio patch  
4231212

108258-01 : Solaris 7\_x86 Message Updates

108271-01 : SunOS 5.7\_x86 translation updates for European locales

108286-01 : SunOS 5.7\_x86 /etc/init.d/MOUNTFSYS patch  
4242666

108344-01 : CDE 1.3\_x86 sdtperfmeter patch  
4275925