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Introduction

The Solaris 9 Maintenance Update 2 Installation Guide explains how to install and back out the Solaris™ 9 Maintenance Update 2 (MU2) software. This guide is for system administrators who are installing the MU2 software. For late-breaking MU2 issues that were identified too late to be included in this guide, refer to the Solaris 9 Maintenance Update 2 Installation Guide at http://docs.sun.com.

If you need more information on general procedures for system administration, refer to the Solaris 9 System Administrator Collection.

What Is the Solaris 9 Maintenance Update 2?

The Solaris 9 MU2 contains the same set of patches that is prepackaged on the Solaris 9 12/02 software CDs. The MU2 installation automatically updates your system without regressing any patches that you have previously installed.

The Solaris 9 MU2 is available as a file for downloading from the Web.

When to Install the Solaris 9 Maintenance Update 2

First, your system must be running the Solaris 9 operating environment.

You can then install the Solaris 9 MU2 if you meet both of the following conditions:
You are applying patches that were released in the Solaris 9 12/02 operating environment.

You are retaining patches that you previously applied to your system.

If your system is running the Solaris 9 operating environment, or a Solaris 9 Update release, and you want to fully upgrade to new features and hardware support, install the Solaris 9 12/02 operating environment. The patches that were applied by installing the Solaris 9 12/02 operating environment replace previously installed Solaris 9 patches. The newly installed patches cannot be backed out of the release.

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

**Note** – The name of this product is Solaris 9 MU2. Code or package path names might use Solaris 2.9 or SunOS™ 5.9. Always follow the code or path as it is written in this document.
Installing the Solaris 9 Maintenance Update 2

This chapter describes how to install your Solaris 9 MU2 software. If you are installing the Solaris 9 MU2 software as part of a custom JumpStart™ installation, refer to the Solaris 9 Installation Guide.

Time Considerations

The Solaris 9 MU2 installation time varies, depending on the following:

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

If you install the MU2 with the -backout option disabled, installation proceeds more quickly. However, you cannot then back out any of the patches MU2 delivers.

Requirements

The MU2 can only be installed on a system that is running the Solaris 9 operating environment.

Space requirements for each file system vary, depending on the following:

- Whether you select the -backout option
- The location of the backout directory when saving backout data
The disk partitions and the space available in each file system, relative to the patch disk space that is needed for each file system

Your system’s locale

Whether some of the Maintenance Update patches are already installed on your system

The `install_mu` script performs a space analysis and reports the space that is needed for each file system, including backout space if applicable. The space calculations are completed in several minutes.

The `install_mu` script does not proceed if it determines that space is lacking in one or more file systems. The patch installation space that is needed is calculated with some precision. However, the backout data space need is estimated. The reported need might be higher than the actual need.

Run `install_mu` with the `-f` option if you meet both of the following conditions:

- You know that you have enough disk space to apply the patch set and backout data if desired
- If you are bypassing the space calculation

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**Installing the Solaris 9 MU2**

Solaris 9 MU2 software can only be installed if the system that is running `install_mu` is already running the Solaris 9 operating environment.

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**Note** – Relocatable root and service areas are not supported in the Solaris 9 MU2.

Ideally, you reboot your system in single-user mode before installing MU2 because MU2 applies patches to system libraries. Avoid introducing instability to individual systems in a multiuser system. Ensure that no processes have mapped to an unpatched version of a library. Otherwise, those processes might later attempt to map to different sections of the old library.

In single-user mode, network services are not available. You must copy the MU2 image from the network to your local system before booting your system in single-user mode.

You need to install MU2 by using NFS in multiuser mode if you meet one of the following criteria:

- You cannot reboot the system in single-user mode
You do not have enough disk space to make a local copy of the MU2 image.

In this case, you should have the system in as quiet a state as possible, without users logged on or running jobs.

When in single-user mode or multiuser mode, you must reboot your system after MU2 is installed. Do not use the exit command. If the exit command is used, the system is brought to init 3, and no one can log in until the system is rebooted. If the root user has logged out, and no other root users remain logged in, the system must be rebooted. See Chapter 4, “Known Problems”, for more detail.

**Note** – Ensure that you have backed up your system’s operating system before proceeding.

To install the Solaris 9 MU2 software:

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

   **Note** – You must kill the powerd process if it is running.

2. **Exit the current session.**

   The CDE login screen is displayed.

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 type the root password:**

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

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

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

6. **Type 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 5.9 Generic May 2002
   ```

7. **Run `install_mu`.** From a local copy of the MU2 image, type:
# cd local_directory
# ./install_mu options

You can use the following options at the command line.

**TABLE 2-1 Command-Line Options for install_mu**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-d</td>
<td>Specifies that patches will not be backed up. Use of this argument decreases the time to install the software, but it also prevents you from backing out individual patches. Cannot be specified with -B option.</td>
</tr>
<tr>
<td>-p patchdir</td>
<td>Specifies directory that includes all the patches.</td>
</tr>
<tr>
<td>-q</td>
<td>Disables the display of dots that indicate install_mu activity.</td>
</tr>
<tr>
<td>-B backoutdir</td>
<td>Specifies that the backout data is saved in the indicated directory. Cannot be specified with the -d option.</td>
</tr>
<tr>
<td>-f</td>
<td>Forces installation of patch set without checking for sufficient disk space. Use of this option is quicker. However, use it only if you know that you have enough space.</td>
</tr>
</tbody>
</table>

8. When the installation is complete, check that the following message is displayed.

   *install_mu completed at date_time*.

   - If you see this message, go to Step 9.
   - If you encounter any errors, go to Chapter 5.

9. Reboot the system by typing:

   # sync ; reboot

   You are then prompted for a login.

**Note** – To prevent the library conflict problem, you must reboot your system after installing MU2.

10. Type your login name and password:

    login: login
    password: password
Identifying the Version of Your Solaris 9 Maintenance Update

To identify the version of your Solaris 9 MU software, type:

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

To identify the patches the MU software applied to your system, type:

```
# showrev -p
```
Back out the Solaris 9 Maintenance Update 2

If you need to remove one of the patches, you can do so. However, you must not have used the -d option of `install_mu` during the installation of the Solaris 9 MU2 software.

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

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

Back out the Solaris 9 MU2

Ideally, you reboot your system in single-user mode before backing out the MU2. MU2 applies patches to system libraries. Avoid introducing instability to individual systems in a multiuser system. Ensure that no processes have mapped to a patched version of a library. Otherwise, those processes might later attempt to map to different sections of the old library.

In single-user mode, network services are not available. You must copy the MU2 image from the network to your local system before booting your system in single-user mode.

You need to backout MU2 by using NFS in multiuser mode if you meet one fo the following conditions:

- You cannot reboot the system in single-user mode
- You do not have enough disk space to make a local copy of the MU2 image
The `backout_mu` script that is provided by MU2 enables you to back out an entire MU.

To back out the Solaris 9 MU2 software:

1. Ensure that no important user or system processes are running.

2. Exit the current session.
   The CDE login screen is displayed.

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 type the root password:
   ```
   login: root
   password: root password
   ```

5. Reboot in single-user mode. From the root shell prompt, type:
   ```
   # reboot -- -s
   ```

6. Type 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 5.9 Generic May 2002
   #
   ```

7. Run `backout_mu`. From a local copy of the MU2 image, type:
   ```
   # cd local_directory
   # ./backout_mu options
   ```

   **TABLE 3-1 Command-Line Options for `backout_mu`**

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-q</td>
<td>Disables the display of dots that indicate <code>backout_mu</code> activity</td>
</tr>
<tr>
<td>-B backoutdir</td>
<td>Specifies an alternate directory for storing the information that is required to back out a patch</td>
</tr>
</tbody>
</table>

8. When the backout is complete, check that the following message is displayed.
   ```
   backout_mu completed at date_time.
   ```
   - If you see this message, go to Step 9 to complete the backout.
   - If you encounter any errors, go to Chapter 5.

9. Reboot the system by typing:
# sync ; reboot
You are then prompted for a login.

**Note** – To prevent the library conflict problem, you must reboot your system after backing out MU2.

10. **Type your login name and password:**
    
    login: login
    password: password
Known Problems

This chapter describes known problems that relate to the installation and use of the Solaris 9 MU2 software.

Installation Bugs

patchadd Displays Error Message if a Patch That Supports Multiple Patch Architecture Is Installed (4706994)

If you install a patch that supports multiple package architecture, an error that is similar to the following benign error message might be displayed in the /var/sadm/install_data/Maintenance_Update_log.

Installing xxxxx-yyyy (x of xx)  
See /var/sadm/patch/xxxxx-yyyy log for details 
grep: can't open pdgabbrev.extension/pkginfo

For example, if patch 123456-01 contains patch packages SUNWcar and SUNWcar.u, the following error message is displayed.

grep: can't open SUNWcar.u/pkginfo

Workaround: Ignore the error message. The message does not affect the installation of the patch. The message indicates that patchadd(1M) does not pass the correct parameter to the remove_PATCH_PROPERTIES() function.
install_mu Does Not Function Correctly if Started With sh (4062334)

Because of problems that stem from the interactions between `sh(1)` and `ksh(1)`, the `install_mu` utility might fail to install certain patches correctly. This failure occurs when you start the utility by using the following command from the command line or from an administrative script:

```
# /bin/sh ./install_mu options
```

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

```
# ./install_mu options
```

patchadd Displays an Error That It Is Terminating

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

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

Patchadd is terminating.

Or:

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

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

The message is displayed when `patchadd` notices a discrepancy while installing a patch of one architecture onto a system with a different architecture. For example, a `sun4u` patch on a `sun4m` system.

This message might also be the result of one or more missing packages. The package might have been removed by the administrator, or never installed, for example, if a cluster that was smaller than the Entire Distribution was installed.

**Workaround:** Ignore the message.

Cannot login if System Is Not Rebooted (4423853)

When installing in single-user mode, do not use the `exit` command when you are done. Use the `reboot` command. If the `exit` command is used instead of the `reboot` command, the following occurs:
- The system is brought to init 3, and you cannot log in until the system is rebooted.
- No other users can log in until the system is rebooted.
- `pam_projects.so.1` dumps core when any user or process tries to log in. The following message is displayed:

  NOTICE: core_log: in.rshd[1479] core dumped:
  /var/crash/core.in.rshd.1479

- If a process attempts to access the `pam_projects.so.1` module, load module messages are displayed on the system console. A message similar to the following is displayed:

  cron[1433]: load_modules: can not open module
  /usr/lib/security/pam_projects.so.1

  These messages are also displayed if MU2 is installed in multiuser mode. In both cases, the messages are no longer displayed after the system is rebooted.

**Workaround:** If the `exit` command is used after installing in single-user mode, reboot the system.

If the `exit` command is used after installing in multiuser mode and no root users remain logged in, reboot the system.
Error Messages

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

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

In this example, the following applies:

- `log_file` is the name of the log file for the process you completed. For install, the name is Maintenance_Update_log. For backout, the name is MU_Backout_log.
- `mu_version_name` is the name of the MU (it is Solaris_9MU2 for MU2).
- `date_time` is the designated date and time that was copied from `date +%y%m%d%H%M%S` (yyyymmddHHMMSS or year-month-day-hour-minute-second).

**Note**—/var/sadm/install_data/log_file is a symbolic link to the most recent MU log file.

**Note**—You see only the error text when the message is displayed. You cannot see the error code number that is included here. The error code numbers have been included here for reference. You might write a script that calls the install_mu or backout_mu. Your script then needs to check the return values for the failure conditions.
signal detected.

install_mu (backout_mu) is terminating.

**Explanation and recommended action:** (Error Code 1) 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 are
displayed in the log file. Ignore the error messages.

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:** (Error Code 2) The program cannot find
the file /var/sadm/system/admin/INST_RELEASE on the system. The system
has become corrupted. The system must be reinstalled.

**ERROR:** Cannot find $xcommand which is required for proper
execution of install_mu (backout_mu).

**Explanation and recommended action:** (Error Code 3) install_mu and
backout_mu require certain system utilities (for example awk, sed, grep)
to be
present in the /usr/bin and /usr/sbin directories. One, of these utilities, is
missing. Contact your system administrator for assistance.

The -B and -d arguments are mutually exclusive.

**Explanation and recommended action:** (Error Code 4) The -d option requests that
no backout data be saved. The -B option specifies a directory to store backout data.
You cannot use these two options together. Reinvoke install_mu with only one
of these options.

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

**Explanation and recommended action:** (Error Code 5) 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.

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

**Explanation and recommended action:** (Error Code 6) 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.

Permissions on backout directory $BACKOUTDIR not adequate.

**Explanation and recommended action:** (Error Code 7) You supplied an option to
-B that is not a writable directory. Contact your system administrator for
assistance.

Invalid option.

**Explanation and recommended action:** (Error Code 10) You selected an
unrecognized option. Read the usage message displayed and reinvoke
install_mu (or backout_mu).
Can't write to Log File: $LOGFILE

**Explanation and recommended action:** (Error Code 11) install_mu and backout_mu need to write its log into the /var/sadm/install_data directory. Check that the install_data directory is writable, then reinvoke install_mu (or backout_mu).

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

**Explanation and recommended action:** (Error Code 12) The /var/sadm/pkg/SUNWcar directory is missing on the system. Your system has become corrupted. Contact your system administrator for assistance.

install_mu (backout_mu) only supports the sparc architecture.

**Explanation and recommended action:** (Error Code 13) You ran install_mu (or backout_mu) on a system that is not based on SPARC™ architecture. Reinvoke install_mu (or backout_mu) on a SPARC platform.

-p parameter does not point to a directory containing a .order file. Looked in $PATCHDIR and in $PATCHDIR/MU/sparc/Patches.

**Explanation and recommended action:** (Error Code 14) You provided a path to a patch directory. However, install_mu could not find a .order file in that directory, which it needs to determine the correct patch installation order. install_mu checked the $path_you_specified and in the $path_you_specified/MU/sparc/Patches. Check for the existence of a .order file and reinvoke install_mu.

install_mu cannot locate patch order (.order) file. Paths searched: ./sparc/Patches, MU/sparc/Patches, ./$PATCHDIR/MU/sparc/Patches.

**Explanation and recommended action:** (Error Code 15) 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.

You must be root to execute this script.

**Explanation and recommended action:** (Error Code 16) You need root privileges to run install_mu or backout_mu because only user root can apply and remove patches. Reinvoke the program as root.

install_mu (backout_mu) can only patch version 2.9 systems.

Target system is version $TrgOSVers.

**Explanation and recommended action:** (Error Code 17) You asked install_mu to apply patches to a system not running Solaris 9, or you asked backout_mu to back out patches from a system not running Solaris 9. install_mu and backout_mu must be run on a Solaris 9 system.
Not enough disk space to apply entire patch set.

**Explanation and recommended action:** (Error Code 22) `install_mu` analyzed your system and determined that not enough disk space was 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.

Not enough disk space to save patch backout data.

**Explanation and recommended action:** (Error Code 23) `install_mu` analyzed your system and determined that not enough disk space was in the backout directory to save patch backout data. Select a backout directory with enough space, then reinvoke `install_mu`. If you believe that you really have enough disk space in the backout directory, reinvoke `install_mu` with the `-f` option.

Dry run disk space check failed.

**Explanation and recommended action:** (Error Code 24) `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.

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

**Explanation and recommended action:** (Error Code 25) 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.

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

**Explanation and recommended action:** (Error Code 27) `backout_mu` requires a file that contains 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 MU2 patch set, run the `backout_mu` program from the MU2 software distribution.
Solaris 9 Maintenance Update 2
Contents

This chapter provides the contents of the Solaris 9 MU2.

An example is the following patch:

108561-02 : CDE 1.4 Window Manager Features Patch
4301525 4301522 4299651 4301229 4300013 4303415 4304468 4302626

The parts of a patch are as follows:

- 108561-02 is the patch ID number.
- CDE 1.4 Window Manager Features Patch is the synopsis patch description.
- 4301525 4301522 4299651 4301229 4300013 4303415 4304468 4302626 are the identification numbers of the bugs that are fixed by patch ID 108561-02.

Patch List

- 111703-02: SunOS 5.9: /usr/ccs/bin/sccs and /usr/ccs/bin/make patch
  4654328 4222874 4514485 4483221 4504348 4631517 4654457
  - 111711-01 – SunOS 5.9: 32-bit Shared library patch for C++
  4618537
  - 111712-01 – SunOS 5.9: 64-Bit Shared library patch for C++
  4618537
  - 111722-01 – SunOS 5.9: Math Library (libm) patch
  4652341 4664522
  - 112233-03 – SunOS 5.9: Kernel Jumbo Patch
I112540-06 – 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 4698167
4691212 4617170 4720843 4731406 4733511

I112565-08 – 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 4679135 4685579 4708069 4664996 4671387 4675252 4679830 4699753 4703545 4730199
4717529 4676118 4739840 4734313

I112601-04 – SunOS 5.9: PGX32 Graphics
4502887 4633850 4688024 4728662

I112617-01 – CDE 1.5: rpc.cmsd patch
4641721

I112620-01 – SunOS 5.9: Elite3D AFB Graphics Patch
4651358 4714683

I112621-02 – SunOS 5.9: Creator 9 FFB Graphics Patch
4649465 4651358 4714683

I112622-05 – SunOS 5.9: M64 Graphics Patch
4531901 4632595 4668719 4672129 4682681 4452851 4633941 4684877 4692693

I112661-02 – SunOS 5.9: IIIM and X Input & Output Method patch
4645171 4643078 4646772 4604634 4617694 4617691 4629783 4471922 4691871 4686165 4515546

I112764-02 – SunOS 5.9: Sun Quad FastEthernet qfe driver
4411205 4664588 4655451 4292608 4645631

I112771-05 – Motif 1.2.7 and 2.1.1: Runtime library patch for Solaris 9
4512887 4663311 4664492 4679034 4615922 4661676 4699202

I112783-01 – XI1 6.6.1: xterm patch
4636452 4657934

I112785-09 – XI1 6.6.1: Xsun patch
4649617 4651949 4642632 4644622 4531892 4692623 4700844 4712590 4710958 4710402 4703884
4638864 4729267 4675755 4677235 4729905 4763009

I112787-01 – XI1 6.6.1: twm patch

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- 112804-01 – CDE 1.5: sdtname patch
- 112805-01 – CDE 1.5: Help volume patch
- 112806-01 – CDE 1.5: sdtaudiocontrol patch
- 112807-02 – CDE 1.5: dtlogin patch
- 112808-03 – OpenWindows 3.6.3: Tooltalk patch
- 112809-01 – CDE:1.5 Media Player (sdtmpay) patch
- 112810-01 – CDE 1.5: dtmail patch
- 112811-01 – OpenWindows 3.7.0: Xview Patch
- 112812-01 – CDE 1.5: dtp patch
- 112817-06 – SunOS 5.9: Sun GigaSwift Ethernet 1.0 driver patch
- 112834-02 – SunOS 5.9: patch scsi
- 112835-01 – SunOS 5.9: patch /usr/sbin/clinfo
- 112836-02 – SunOS 5.9: patch scsa2usb
- 112837-01 – SunOS 5.9: patch /usr/lib/inet/in.dhcpd
- 112838-02 – SunOS 5.9: pcicfg Patch
- 112839-02 – SunOS 5.9: patch libthread.so.1
- 112840-02 – SunOS 5.9: patch platform/SUNW,Sun-Fire-15000/kernel/drv/sparcv9/axq
- 112841-04 – SunOS 5.9: drmach patch
- 112854-02 – SunOS 5.9: icmp should be QNEXTLESS icmp Patch
- 112868-05 – SunOS 5.9: ON Localization message patch
- 112874-09 – SunOS 5.9: patch libc
- 112875-01 – SunOS 5.9: patch /usr/lib/netsvc/rwall/rpc.rwalld
- 112902-07 – SunOS 5.9: kernel/drv/ip Patch
- 112903-02 – SunOS 5.9: tun Patch
- 112904-01 – SunOS 5.9: tcp Patch
- 112905-02 – SunOS 5.9: ippctl Patch
- 112906-01 – SunOS 5.9: ipgpc Patch
- 112907-01 – SunOS 5.9: libgss Patch
- 112908-04 – SunOS 5.9: gl_kmech_krb5 Patch
- 112911-02 – SunOS 5.9: ifconfig Patch
- 112912-01 – SunOS 5.9: libinetcfg Patch
112913-01 – SunOS 5.9: fruadm Patch

112914-04 – SunOS 5.9: in.routed in.mpathd Patch

112915-01 – SunOS 5.9: snoop Patch

112916-01 – SunOS 5.9: rtquery Patch

112917-01 – SunOS 5.9: ifrt Patch

112918-01 – SunOS 5.9: route Patch

112919-01 – SunOS 5.9: netstat Patch

112920-02 – SunOS 5.9: libipp Patch

112921-01 – SunOS 5.9: libkadm5 Patch

112922-01 – SunOS 5.9: krb5 lib Patch

112923-02 – SunOS 5.9: krb5 usr/lib Patch

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

112925-02 – SunOS 5.9: ktutil kdb5_util kadmin kadmin.local kadmind Patch

112926-03 – SunOS 5.9: smartcard Patch

112927-01 – SunOS 5.9: IPQos Header Patch
112928-01 – SunOS 5.9: in.ndpd Patch
112929-01 – SunOS 5.9: RIPv2 Header Patch
112941-03 – SunOS 5.9: sysidnet Utility Patch
112943-04 – SunOS 5.9: Volume Management Patch
112945-05 – SunOS 5.9: wbem Patch
112951-04 – SunOS 5.9: patchadd and patchrm Patch
112954-02 – SunOS 5.9: uata Driver Patch
112955-01 – SunOS 5.9: patch kernel/fs/autofs kernel/fs/sparcv9/autofs
112958-01 – SunOS 5.9: patch pci.so
112959-01 – SunOS 5.9: patch libfru
112960-03 – SunOS 5.9: patch libslldap ldap_cachemgr
112961-01 – SunOS 5.9: patch platform/SUNW,Ultra-Enterprise/kernel/drv/sysctrl
112962-01 – SunOS 5.9: patch libthread_db.so.1
112963-03 – SunOS 5.9: linker patch
- 112964-02 – SunOS 5.9: ksh using control Z under ksh does not work well with vi
  4223444 4702798
- 112965-01 – SunOS 5.9: patch /kernel/drv/sparcv9/eri
  4467555 4467562 4479894 4496082 4518457 4528597 4546894 4599774 4637678
- 112966-01 – SunOS 5.9: patch /usr/sbin/vold
  4638163
- 112967-04 – SunOS 5.9: patch /kernel/drv/nca nca Patch
  4487572 4629396 4631903 4650210 4681040
- 112968-01 – SunOS 5.9: patch /usr/bin/renice
  4502191
- 112969-02 – SunOS 5.9: vold slows down the boot process
  4592827 4715363
- 112970-02 – SunOS 5.9: patch libresolv.so.2
  4646349 4708913
- 112971-02 – SunOS 5.9: patch kernel/fs/cachefs
  4398885 4493561 4615194
- 112972-01 – SunOS 5.9: patch /usr/lib/libssagent.so.1 /usr/lib/libssasnmp.so.1
  4395096 4633918 4643121
- 112975-01 – SunOS 5.9: patch /kernel/sys/kaio
  4682197
- 112985-01 – SunOS 5.9: Volume Management Localization message patch
  4692900
- 112987-01 – SunOS 5.9: patch /platform/sun4u/kernel/tod/sparcv9/todsg
  4618950
- 112998-02 – SunOS 5.9: patch /usr/sbin/syslogd
  4243984 4424387 4558909 4665297 4670382 4670414 4670468 4674435 4705713
- 113020-01 – SunOS 5.9: SUNW_LOC changes needed and Thai date format updated
  4674651 4683429
- 113021-01 – SunOS 5.9: yesstr, nostr nl_langinfo() strings incorrect
  4660271
- 113023-01 – SunOS 5.9: Broken preremove scripts in S9 ALC packages
  4707449
- 113024-02 – SunOS 5.9: wrsm Driver Patch
- 113025-01 – SunOS 5.9: libpsvcpolicy_psr.so.1 Patch
- 113026-02 – SunOS 5.9: /kernel/drv/md Patch
- 113027-01 – SunOS 5.9: libfrureg.so.1 Patch
- 113028-01 – SunOS 5.9: patch /kernel/ipp/flowacct
- 113029-02 – SunOS 5.9: libaio.so.1 librt.so.1 and abi_libaio.so.1 Patch
- 113030-01 – SunOS 5.9: /kernel/sys/doorfs Patch
- 113031-01 – SunOS 5.9: /usr/bin/edit Patch
- 113032-01 – SunOS 5.9: /usr/sbin/init Patch
- 113033-02 – SunOS 5.9: patch /kernel/drv/isp and /kernel/drv/sparcv9/isp
- 113038-02 – SunOS 5.9: JFP manpages patch
- 113061-01 – SunOS 5.9: UTF-8 locale UMLE patch
- 113068-01 – SunOS 5.9: hpc3130 patch
- 113069-03 – SunOS 5.9: metadisk patch
- 113070-01 – SunOS 5.9: ftp patch
- 113071-01 – SunOS 5.9: patch /usr/sbin/acctadm
- 113072-01 – SunOS 5.9: patch /usr/sbin/format
- 113073-02 – SunOS 5.9: ufs_log patch
- 113074-03 – SunOS 5.9: ngdr.conf patch
- 113075-01 – SunOS 5.9: pmap patch
- 113076-01 – SunOS 5.9: dhcpmgr.jar Patch
- 113077-02 – SunOS 5.9: patch su driver
- 113085-01 – SunOS 5.9: Thai font enhancement
- 113086-01 – SunOS 5.9: iconv modules between zh_CN.euc and UTF-8 are incompatible
- 113087-01 – SunOS 5.9: Cannot use other fonts to display Asian characters in xterm
- 113096-02 – X11 6.6.1: OWconfig patch
- 113098-03 – X11 6.6.1: X RENDER extension patch
- 113100-01 – X11 6.6.1: VFB loadable DDX module patch
- 113125-01 – SunOS 5.9: missing libc_psr.so.1 symlink
- 113145-02 – SunOS 5.9: Naturetech /platform links are not exist
- 113146-01 – SunOS 5.9: Apache Security Patch
- 113167-01 – SunOS 5.9: JFP manpages patch
- 113218-04 – SunOS 5.9: patch pcipsy
- 113219-01 – SunOS 5.9: patch /platform/SUNW,Ultra-Enterprise/kernel/drv/fhc
- 113220-01 – SunOS 5.9: patch /platform/sun4u/kernel/drv/sparcv9/upa64s
- 113221-02 – SunOS 5.9: libprtdiag_psr.so.1 Patch
- 113222-02 – SunOS 5.9: patch /kernel/misc/nfssrv and /kernel/misc/sparcv9/nfssrv
- 113223-01 – SunOS 5.9: idn Patch
- 113224-01 – SunOS 5.9: efdaemon Patch
- 113225-01 – SunOS 5.9: 2002c Timezone Patch
- 113226-01 – SunOS 5.9: hme Driver Patch
- 113228-01 – SunOS 5.9: 64 bit locale links missing in Solaris 9
- 113227-01 – SunOS 5.9: /usr/lib/ssh/sshd Patch
- 113227-03 – SunOS 5.9: sd and ssd Patch
- 113228-01 – SunOS 5.9: NFS Daemon Patch
- 113229-01 – SunOS 5.9: klmmod Patch
- 113230-01 – SunOS 5.9: procfs Patch
- 113231-02 – SunOS 5.9: md_trans Patch
- 113280-01 – SunOS 5.9: patch /usr/bin/cpio

- 113281-01 – SunOS 5.9: patch /usr/lib/netsvc/yp/ypbind

- 113282-01 – SunOS 5.9: patch /usr/sbin/metaset

- 113313-01 – SunOS 5.9: /usr/sbin/install.d/pfi

install Patch

- 113318-01 – SunOS 5.9: patch /kernel/fs/nfs and /kernel/fs/sparcv9/nfs

- 113319-04 – SunOS 5.9: patch /usr/lib/libnsl.so.1

- 113320-01 – SunOS 5.9: patch se driver

- 113321-02 – SunOS 5.9: patch sf and socal

- 113322-01 – SunOS 5.9: patch uucp

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

- 113324-02 – SunOS 5.9: patch st driver

- 113325-01 – SunOS 5.9: patch powerd

- 113326-01 – SunOS 5.9: tar Patch

- 113327-01 – SunOS 5.9: pppd Patch

- 113328-01 – SunOS 5.9: tmpfs Patch

- 113329-01 – SunOS 5.9: lp Patch

- 113330-01 – SunOS 5.9: rpcbind Patch
- 113331-01 – SunOS 5.9: usr/lib/nfs/rquotad Patch
- 113332-03 – SunOS 5.9: libc_psr.so.1 Patch
- 113333-01 – SunOS 5.9: libmeta Patch
- 113334-01 – SunOS 5.9: udfs Patch
- 113335-01 – SunOS 5.9: devinfo Patch
- 113361-02 – SunOS 5.9: Sun Gigabit Ethernet 3.0 driver patch
- 113390-01 – SunOS 5.9: CTYpe errors in "ar" locale
- 113391-01 – SunOS 5.9: S9: CTYpe errors in "He_IL"/"he" locales
- 113424-01 – CDE 1.5: message patch to add IM title in the workspace menu
- 113432-03 – SunOS 5.9: Introducing Fujitsu FJSV,GPUSC-M platform support patch
- 113434-02 – SunOS 5.9: libspmiapp.so.1 Patch
- 113445-01 – SunOS 5.9: schpc Patch
- 113446-01 – SunOS 5.9: dman Patch
- 113447-01 – SunOS 5.9: libprtdiag_psr Patch
- 113449-01 – SunOS 5.9: gld Patch
- 113451-02 – SunOS 5.9: IKE Patch
I 113453-02 – SunOS 5.9: sockfs Patch

I 113454-04 – SunOS 5.9: ufs Patch

I 113456-01 – SunOS 5.9: adb modules

I 113457-01 – SunOS 5.9: ufs headers

I 113459-01 – SunOS 5.9: udp patch

I 113464-01 – SunOS 5.9: IPMP Headers Patch

I 113467-01 – SunOS 5.9: seg_drv & seg_mapdev Patch

I 113470-01 – SunOS 5.9: winlock Patch

I 113471-01 – SunOS 5.9: truss Patch

I 113472-01 – SunOS 5.9: madv & mpss lib Patch

I 113475-02 – SunOS 5.9: usr/lib/security crypt Patch

I 113476-04 – SunOS 5.9: usr/lib/passwdutil.so.1 pam_ldap Patch

I 113480-02 – SunOS 5.9: usr/lib/security/pam_unix.so.1 Patch

I 113481-03 – SunOS 5.9: sbin/sprc.nispasswdd Patch

I 113482-01 – SunOS 5.9: sbin/sulogin Patch

I 113483-01 – SunOS 5.9: usr/lib/netsvc/yp/rpc.yppasswd Patch

I 113483-02 – SunOS 5.9: usr/lib/netsvc/yp/rpc.yppasswd Patch
- 113484-02 – SunOS 5.9: WBEM SDK Localization message patch
  4733195
- 113488-01 – SunOS 5.9: Field Replacement Unit ID (FRU ID) Platform and Access Library Patch
  4703981  4715000
- 113489-02 – SunOS 5.9: sbd & sbdp Patch
  4641546  4696700
- 113490-01 – SunOS 5.9: Audio Device Driver Patch
  4660099  4670245  4701098
- 113491-01 – SunOS 5.9: rpc Library Patch
  4525396  4643091
- 113492-01 – SunOS 5.9: fsck Patch
  4640210  4693730  4714988  4734635
- 113493-01 – SunOS 5.9: libproc.so.1 Patch
  4725696
- 113494-01 – SunOS 5.9: iostat Patch
  4511098  4679590
- 113495-01 – SunOS 5.9: cfgadm Library Patch
  4433415  4672974
- 113496-01 – SunOS 5.9: inetd Patch
  4383820
- 113504-01 – SunOS 5.9: flarcreate Patch
  4501772
- 113513-01 – X11 6.6.1: platform support for new hardware
  4731970
- 113538-03 – SunOS 5.9: ngdr Patch
  4696700  4756231
- 113539-01 – SunOS 5.9: Introducing Fujitsu FJSV,GPUSC-M platform support patch
- 113541-01 – X11 6.6.1: XKB patch
  4689365
- 113543-01 – SunOS 5.9: Introducing Fujitsu FJSV,GPUSC-M platform support patch
- 113571-01 – SunOS 5.9: eFCode Patch
- 113572-01 – SunOS 5.9: docbook-to-man.ts Patch
- 113573-01 – SunOS 5.9: libpsvc Patch
- 113574-01 – SunOS 5.9: SUNW,Sun-Fire-880 libpsvc Patch
- 113575-01 – SunOS 5.9: sendmail Patch
- 113576-01 – SunOS 5.9: /usr/bin/dd Patch
- 113577-01 – SunOS 5.9: /usr/kernel/sched/FX Patch
- 113578-01 – SunOS 5.9: inetboot Patch
- 113579-01 – SunOS 5.9: ypserv/ypxfrd Patch
- 113580-01 – SunOS 5.9: mount Patch
- 113581-01 – CDE 1.5: message patch to add to /usr/dt/bin/dtlp
- 113584-01 – SunOS 5.9: yesstr, nostr nl_langinfo() strings incorrect in S9
- 113628-01 – SunOS 5.9: System Administration Core Libraries Patch
- 113713-01 – SunOS 5.9: pkginstall Patch
- 113742-01 – SunOS 5.9: smcpreconfig.sh Patch
- 113799-01 – SunOS 5.9: solregis Patch
- 113965-01 – SunOS 5.9: /usr/sbin/ttinstall Patch
- 113971-01 – SunOS 5.9: ATOK12 patch