



Solaris™ 7 5/99 Release Notes (SPARC™ Platform Edition)

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SOLARIS™

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Preface

The *Solaris™ 7 (SPARC™ Platform Edition) 5/99 Release Notes* contain installation problem details and other information that was not available until immediately before the release of the Solaris 7 5/99 operating environment, too late to be included in the SUNWrdm package that is resident on the Solaris 7 5/99 CD. This document complements the information in the SUNWrdm package, the online release notes, except for the information in Chapter 1.

Chapter 1 supersedes the information in the `installation_bugs` file that is part of the online release notes.

You can access the SUNWrdm package (the online release notes) as follows:

- When reading from the Solaris 7 5/99 CD, information about this release can be found in the directory:

```
/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C
```

- The default installed location for information about this release can be found in the directory:

```
/usr/share/release_info/Solaris_2.7/C
```

Note - The name of this product is Solaris 7 5/99, 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.

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 7 5/99 operating environment.

Related Books

You may need to refer to the following manuals when installing Solaris software:

- *Solaris 7 (SPARC Platform Edition) Start Here*
- *Solaris 7 (SPARC Platform Edition) Installation Library*
- *Solaris 7 Installation Supplement*
- *Solaris 7 System Administration Supplement*
- *Solaris 7 Software Developer Supplement*

Solaris documentation is available on the Solaris 7 Documentation CD included with this product.

In this Solaris release you will find supplemental documentation describing new functionality. If a Solaris 7 AnswerBook2™ collection has been updated, you will find a *Solaris 7 Supplement* in that collection.

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

For known problems, new features, and patches not relating to installation, view the online files in the

`/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C`
directory on the Solaris 7 5/99 CD.

The `/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C`
directory includes these files:

- `new_features` - product news and features that arrived too late to be included in the "What's New in Solaris" documentation on the Solaris 7 Documentation CD
- `runtime_bugs` - late-breaking problems not related to installation
- `installation_bugs` - known installation problems
- `patches` - late-breaking information on current and non-integrated patches for Solaris 7
- `eof` - late-breaking end of feature statements
- `driverupdate` - late-breaking information on drivers
- `documentation_issues` - late-breaking information about documentation errata and other documentation-related issues.

The installed location for the these files is the directory:

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What Typographic Changes Mean

TABLE P-1 Typographic Conventions

Typeface or Symbol	Meaning	Example
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. <code>machine_name% you have mail.</code>
AaBbCc123	What you type, contrasted with on-screen computer output	<code>machine_name% su</code> Password:

TABLE P-1 Typographic Conventions *(continued)*

Typeface or Symbol	Meaning	Example
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	To delete a file, type <code>rm filename</code> .
<i>AaBbCc123</i>	Book titles, new words, or terms, or words to be emphasized.	Read Chapter 6 in <i>User's Guide</i> . These are called <i>class</i> options. You must be <i>root</i> to do this.

Installation Issues

This chapter describes problems relating to the installation of the Solaris 7 5/99 software environment.

The information in this chapter supersedes any information listed in the `installation_bugs` file that is part of the `SUNWrdm` package on the Solaris 7 5/99 CD. If you boot from the Solaris 7 5/99 CD, the `installation_bugs` file is located in the directory:

```
/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C
```

The default installed location for the `installation_bugs` file is located in the directory:

```
/usr/share/release_info/Solaris_2.7/C
```

Note - The name of this product is Solaris 7 5/99, 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.

READ THIS FIRST

Remote Login From `dtgreet` Freezes Local Window System (4213502)

If you select Remote Login from the main CDE login menu by clicking the Options button, a login to another host system occurs. When you terminate the remote login session and return to the original system, the screen freezes. To start another CDE session on a hung screen, log in remotely to the system and kill the hung DT session.

Workaround: Apply patch ID 107180-05 or later to prevent this problem. This patch is available through approved Sun support channels.

Solaris Web Start Issues

This section only describes known installation issues that may occur when using Solaris Web Start, the browser-based program that enables you to install both the Solaris software and co-packaged software.

Limited Browser Support In Client-Server Mode

To use the client-server mode of Solaris Web Start, you must have one of the following software configurations installed on the client:

- The Solaris 2.6 or Solaris 7 operating environment with its accompanying version of the HotJava™, Netscape Navigator™ 4.0, or Netscape Navigator™ 4.5 browser
- Windows 95 with the HotJava, Netscape Navigator 4.0, or Netscape Navigator 4.5 browser

Solaris Web Start may not run or display properly with older versions of HotJava, older versions of the Navigator browser, or with Internet Explorer.

Solaris Web Start Bugs

This section only describes known installation bugs that may occur when using Solaris Web Start, the browser-based program that enables you to install both the Solaris software and copackaged software.

Cannot Move the Root File System (4046659)

You can choose a system disk in Solaris Web Start but you cannot move the root file system off the system disk afterwards.

Workaround: If you need to do this, use the Solaris Interactive Installation program instead of Solaris Web Start.

Products May Not Use All Reserved Space (4059182)

Solaris Web Start reserves disk space based on the total requirements of all the products that you install. If you check disk space allocation after installing but before using the products, you may find a substantial amount of apparently unused space. Some of this space may be taken up when you run the software; some of it may remain unused.

Workaround: If you want to allocate less total disk space than Solaris Web Start requires, use the Solaris Interactive Installation program instead.

Interactive Installation Issues

New JumpStart Behavior

When you turn on a system with the JumpStart™ software already installed (this includes new systems and preinstalled systems on which another installation has been performed) in the Solaris 7 as well as the Solaris 2.6 operating environments, Solaris Web Start's introductory screen is displayed. You can now exit Solaris Web Start and perform a JumpStart installation.

Solaris dtlogin Screen

The Solaris 7 as well as the Solaris 2.6 operating environments default to a login screen when you initially boot your workstation, regardless of which desktop you are using. You can select your desktop from the login screen. The login screen requires the user's name and password. Your desktop is displayed upon authentication of your login name and password. For more information about the login screen, see the dtlogin man page (provided with the Solaris Common Desktop Environment (CDE) man pages) or the *Common Desktop Environment: Advanced User's and System Administrator's Guide*.

dtlogin Notes for System Administrators

A system administrator who is new to CDE needs to know about CDE's graphical login program, dtlogin. Review the dtconfig man pages.

Interactive Installation Bugs

Installation Fails With a False Non-Mountable File System Error (4164303)

The following message may be displayed:

```
The Solaris operating environment on slice c0t0d0s0 cannot be upgraded.  
A file system listed in the file system table (vfstab) could not be mounted.
```

The installation software may interpret inodes that are stored on striped DiskSuite™ meta devices for root inodes and attempt to mount the meta devices as upgradable slices. When this problem occurs, the mounts fail and the installation aborts.

TotalNET Advanced Server (SunLink) Drivers Cause Panic After a Reboot (4121961)

```
Warning: mod_install: MT-unsafe driver 'tnatp' rejected panic[cpu0] /  
thread=7051e040:mutex-enter:bad_mutex lp=1046aa20 owner=7051e040  
thread=7051e040
```

An upgrade to TotalNET Advanced Server (SunLink™) version 5.2 is required with the Solaris 7 operating environment because of a driver conflict. Version 5.0 and version 5.1 for the TotalNET Advanced Server cause the Solaris 7 operating environment to not boot correctly.

Workaround: Before you install the Solaris 7 operating environment, you must upgrade all installations to version 5.2 for the TotalNET Advanced Server, which is available on the Solaris Easy Access Server 2.0 CD. Follow the instructions provided to upgrade existing TotalNET Advanced Server installations.

Installation Bugs That Occur During an Interactive Installation

Erroneous Messages Indicating Packages Added a Second Time (1235464)

This appears as an attempt to install the same architecture and version of a package that is already installed. This installation overwrites this package.

When upgrading a system with the Entire Distribution plus OEM Cluster, the following packages seem to be added twice:

- SUNWolinc
- SUNWxwdim
- SUNWxwinc
- SUNWxwman
- SUNWxwpmn
- SUNWxwsrc
- SUNWolbk
- SUNWoldim
- SUNWolman
- SUNWolsrc

Installation Progress Bar May Be Inaccurate (1266156)

The “Installing Solaris Software - Progress” bar sometimes indicates that an installation is complete when it is still in progress. The install program may add packages for several minutes after the progress bar has indicated that the installation is complete. Do not rely on the progress bar to indicate that the installation is complete. The installation displays the following message when the program has completed all installation operations:

```
Installation complete
```

Installation of Diskless Client Does Not Preserve Changes in the `dfstab` File on a Server (4045544)

When you upgrade the Solaris operating environment on a server with diskless clients, the options on the `dfstab` line are not preserved for `/usr`. For example, if you entered the following in the `dfstab` file:

```
share -F nfs -o rw /export/exec/Solaris_2.7_sparc.all/usr
```

then this entry is automatically replaced with the following entry during the upgrade:

```
share -F nfs -o ro /export/exec/Solaris_2.7_sparc.all/usr
```

Workaround: Before you attempt to upgrade the Solaris operating environment on an OS server that has a diskless client or Solstice AutoClient, back up the `/etc/dfs/dfstab` file for the clients.

Installation Bugs That May Occur During an Upgrade

Multiple Architecture Server Cannot Be Patched (1249343)

After upgrading a server with diskless clients of more than one SPARC kernel architecture, such as a `sun4u` server with diskless `sun4c`, `sun4d`, and `sun4m` clients, the `SUNWkvm` packages for clients whose kernel architectures differ from that of the server cannot be patched.

Workaround: Add all of the `SUNWkvm` packages before applying any patches that affect them:

```
# pkgadd -d SUNWkvm.*
```

Disk Space Requirements Can Be Exaggerated By the Upgrade Process (4041733)

The upgrade program can exaggerate by as much as 30 percent the amount of space required for upgrades to systems with the Solaris software. Therefore, it prevents

many systems from being upgraded without deselecting packages or finding more space.

Workaround: You can manually reallocate disk space among file systems or use the Software Customization menu to remove software packages that are not needed.

sun4m Solstice AutoClients Fail to Mount Cache After an Upgrade From the Solaris 2.6 Hardware: 3/98 Release (4121951)

The Solstice AutoClients display the following message when rebooting:

```
fsck -F cacheufs: Cache directory /.cache/rootcache does not exist.  
mount -F cacheufs: cache fsck mount failed  
fsck -F cacheufs: Cache directory /.cache/rootcache does not exist.  
mount -F cacheufs: cache fsck mount failed
```

This directive indicates to the kernel that the root file system is of type `cacheufs`. To determine whether or not a specific Solstice AutoClient can be affected by this problem before you attempt an upgrade, examine the directory `/export/root/client-name/var/sadm/pkg` on the server (this is the Solstice AutoClient's `/var/sadm/pkg` directory). If this directory contains a subdirectory called `TADcar`, the Solstice AutoClients may be affected.

Workaround: Edit the `/etc/system` file for the Solstice AutoClients after the upgrade by appending the following line:

```
rootfs:cacheufs
```

The Solstice AutoClients' `/etc/system` file is stored on the server as `/etc/root/client-name/etc/system`.

Clients Do Not Receive All Patches When a Server Is Upgraded (4175220)

Patches located in the `Patches` directory on the Solaris 7 5/99 CD are not automatically applied to clients whenever a server is upgraded.

Workaround: Apply the patches located in the `Patches` directory to clients after the upgrade has been completed.

SUNWcvc.u and SUNWdrr.u Packages Are Missing If You Upgrade From the Solaris 2.6 Hardware 3/98 or Solaris 2.6 5/98 Operating Environment to the Solaris 7 Operating Environment (4229675)

After you upgrade from the Solaris 2.6 Hardware 3/98 or the Solaris 2.6 5/98 operating environment and if your systems have sun4u diskless clients or Solstice AutoClients, then the SUNWcvc.u and SUNWdrr.u packages are not installed on diskless or Solstice AutoClients.

Workaround: After you have completed an upgrade, add the SUNWcvc.u and SUNWdrr.u packages to a sun4u diskless client or Solstice AutoClient as follows with a client called *foo*:

1. Mount the Solaris 7 5/99 CD for the SPARC platform.
2. Change to the following directory:

```
# cd /cdrom/cdrom0/s0/Solaris_2.7/Product
```

3. Add the following packages using the pkgadd command:

```
# pkgadd -R /export/root/foo -d 'pwd' SUNWcvc.u
```

Errors May Occur When Applying the European Locale Updates Patch During an Upgrade (4230247)

If you applied any of the European locale update patches, 106857-04, 106931-04, 107616-01, or 107617-01, and then upgraded your system, the following errors are then reported in the upgrade logs:

```
Doing pkgadd of SUNWplow to /.
pkgadd: ERROR: unable to create package object
</a/usr/openwin/share/locale/de.ISO8859-15>.
  file type <s> expected <d> actual
  unable to remove existing directory at
</a/usr/openwin/share/locale/de.ISO8859-15>
....
Installation of <SUNWplow> partially failed.
pkgadd return code = 2

Doing pkgadd of SUNWpldte to /.
```

(continued)

```
WARNING: /a/usr/dt/appconfig/types/de.ISO8859-15
may not overwrite a populated directory.
.....
pkgadd: ERROR: /a/usr/dt/appconfig/types/de.ISO8859-15
could not be installed.
.....
Installation of <SUNWpldte> partially failed.
pkgadd return code = 2
```

This warning occurs because the patch switches the affected directories listed in the upgrade logs from symbolic links to directories. The upgrade process then attempts to install an updated version of the package that does not include the change. These errors do not affect the operating environment on your system.

Workaround: Ignore these error messages.

Solaris Installation Bugs

Warnings May Occur When Creating a File System (4189127)

One of the following error messages may be displayed when creating a file system during installation:

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

Or:

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

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

Workaround: Ignore the error message.

Not All Locales Supported Outside of Entire Metacluster (4181942)

All locales are supported only in the Entire Distribution and Entire Distribution plus OEM metaclusters. Subsets of these locales are supported in the Developer, End User, and Core metaclusters.

If you select a locale at the beginning of the installation that is not supported by the metacluster that you choose to install later in the installation on the metacluster selection screen, the following occur:

- Web Start installation of co-packaged products fails without installing the co-packaged products.
- You cannot open terminal windows in CDE.

For Desktop editions of the Solaris 7 5/99 operating environment, the Web Start installer installs the End User metacluster. For Server editions of the Solaris 7 5/99 operating environment, Web Start installs the Entire metacluster. You can change the defaults by selecting a Custom installation.

The following is the list of locales supported by each metacluster:

TABLE 1-1 Entire and Entire plus OEM

Language	Description
ar	Egypt - English (ISO-8859-6)
he	Israel - English (ISO-8859-8)
he_IL	Israel - English (ISO-8859-8)
th_TH	Thailand - English (TIS 620.2533)
bg_BG	Bulgarian (ISO 8859-5)
cz	Czech Republic
da	Denmark
da.ISO8859-15	Denmark (ISO8859-15)
de	German
de.ISO8859-15	Euro German (ISO8859-15)
de.UTF-8	German (UTF-8)
de_AT	Austria

TABLE 1-1 Entire and Entire plus OEM *(continued)*

Language	Description
de_AT.ISO8859-15	Austria (ISO8859-15)
de_CH	Switzerland
el	Greece
en_AU	Australia - English (ISO-8859-1)
en_CA	Canada - English (ISO-8859-1)
en_EU.ISO8859-15	Euro English (ISO8859-15)
en_EU.UTF-8	Euro English (UTF-8)
en_GB	GB - English (ISO-8859-1)
en_GB.ISO8859-15	GB - English (ISO-8859-15)
en_IE	Ireland - English (8 bit)
en_IE.ISO8859-15	Ireland (ISO8859-15)
en_NZ	New Zealand - English (8 bit)
en_US	USA - English (ISO-8859-1)
en_US.UTF-8	USA - English (UTF-8)
es	Spanish
es.ISO8859-15	Euro Spanish (ISO8859-15)
es.UTF-8	Spanish (UTF-8)
es_AR	Argentina
es_BO	Bolivia
es_CL	Chile
es_CO	Colombia
es_CR	Costa Rica
es_EC	Ecuador

TABLE 1-1 Entire and Entire plus OEM *(continued)*

Language	Description
es_GT	Guatemala
es_MX	Mexico
es_NI	Nicaragua
es_PA	Panama
es_PE	Peru
es_PY	Paraguay
es_SV	El Salvador
es_UY	Uruguay
es_VE	Venezuela
et	Estonia
fi	Finland
fi.ISO8859-15	Finland (ISO8859-15)
fr	French
fr.ISO8859-15	Euro French (ISO8859-15)
fr.UTF-8	French (UTF-8)
fr_BE	Belgium
fr_BE.ISO8859-15	Belgium (ISO8859-15)
fr_CA	Canada
fr_CH	Switzerland
hr_HR	Croatian (ISO 8859-2)
hu	Hungary
it	Italian
it.ISO8859-15	Euro Italian (ISO8859-15)

TABLE 1-1 Entire and Entire plus OEM *(continued)*

Language	Description
it.UTF-8	Euro Italion (UTF-8)
lt	Lithuania
lv	Latvia
mk_MK	Macedonian (ISO 8859-5)
nl	Netherlands
nl.ISO8859-15	Netherlands (ISO8859-15)
nl_BE	Netherlands/Belgium
nl_BE.ISO8859-15	Netherlands/Belgium (ISO8859-15)
no	Norway
no_NY	Nynorsk
nr	Bosnian (ISO 8859-2)
pl	Poland
pt	Portugal
pt.ISO8859-15	Portugal (ISO8859-15)
pt_BR	Portugal/Brazil
ro_RO	Romanian (ISO 8859-2)
ru	Russia
sk_SK	Slovak (ISO 8859-2)
sl_SI	Slovene (ISO 8859-2)
sq_AL	Albanian (ISO 8859-2)
sr_SP	Serbian (ISO 8859-5)
sv	Swedish
sv.ISO8859-15	Euro Swedish (ISO8859-15)

TABLE 1-1 Entire and Entire plus OEM *(continued)*

Language	Description
sv.UTF-8	Swedish (UTF-8)
tr	Turkey

TABLE 1-2 Developer

Language	Description
th_TH	Thailand - English (TIS 620.2533)
da	Denmark
de	German
de.ISO8859-15	Euro German (ISO8859-15)
el	Greece
en_AU	Australia - English (ISO-8859-1)
en_CA	Canada - English (ISO-8859-1)
en_EU.ISO8859-15	Euro English (ISO8859-15)
en_EU.UTF-8	Euro English (UTF-8)
en_GB	GB - English (ISO-8859-1)
en_GB.ISO8859-15	GB - English (ISO-8859-15)
en_US	USA - English (ISO-8859-1)
en_US.UTF-8	USA - English (UTF-8)
es	Spanish
es.ISO8859-15	Euro Spanish (ISO8859-15)
es_AR	Argentina
es_BO	Bolivia
es_CL	Chile

TABLE 1-2 Developer *(continued)*

Language	Description
es_CO	Colombia
es_CR	Costa Rica
es_EC	Ecuador
es_GT	Guatemala
es_MX	Mexico
es_NI	Nicaragua
es_PA	Panama
es_PE	Peru
es_PY	Paraguay
es_SV	El Salvador
es_UY	Uruguay
es_VE	Venezuela
fr	French
fr.ISO8859-15	Euro French (ISO8859-15)
it	Italian
it.ISO8859-15	Euro Italian (ISO8859-15)
sv	Swedish
sv.ISO8859-15	Euro Swedish (ISO8859-15)
tr	Turkey

TABLE 1-3 End User

Language	Description
da	Denmark
de	German
de.ISO8859-15	Euro German (ISO8859-15)
el	Greece
en_AU	Australia - English (ISO-8859-1)
en_CA	Canada - English (ISO-8859-1)
en_EU.ISO8859-15	Euro English (ISO8859-15)
en_EU.UTF-8	Euro English (UTF-8)
en_GB	GB - English (ISO-8859-1)
en_GB.ISO8859-15	GB - English (ISO-8859-15)
en_US	USA - English (ISO-8859-1)
es	Spanish
es.ISO8859-15	Euro Spanish (ISO8859-15)
es_AR	Argentina
es_BO	Bolivia
es_CL	Chile
es_CO	Colombia
es_CR	Costa Rica
es_EC	Ecuador
es_GT	Guatemala
es_MX	Mexico
es_NI	Nicaragua
es_PA	Panama

TABLE 1-3 End User *(continued)*

Language	Description
es_PE	Peru
es_PY	Paraguay
es_SV	El Salvador
es_UY	Uruguay
es_VE	Venezuela
fr	French
fr.ISO8859-15	Euro French (ISO8859-15)
it	Italian
it.ISO8859-15	Euro Italian (ISO8859-15)
sv	Swedish
sv.ISO8859-15	Euro Swedish (ISO8859-15)
tr	Turkey

TABLE 1-4 Core

Language	Description
ar	Egypt - English (ISO-8859-6)
he	Israel - English (ISO-8859-8)
he_IL	Israel - English (ISO-8859-8)
bg_BG	Bulgarian (ISO 8859-5)
cz	Czech Republic
da	Denmark
da.ISO8859-15	Denmark (ISO8859-15)
de	German

TABLE 1-4 Core *(continued)*

Language	Description
de.ISO8859-15	Euro German (ISO8859-15)
de.UTF-8	German (UTF-8)
de_AT	Austria
de_AT.ISO8859-15	Austria (ISO8859-15)
de_CH	Switzerland
el	Greece
en_AU	Australia - English (ISO-8859-1)
en_CA	Canada - English (ISO-8859-1)
en_EU.ISO8859-15	Euro English (ISO8859-15)
en_EU.UTF-8	Euro English (UTF-8)
en_GB	GB - English (ISO-8859-1)
en_GB.ISO8859-15	GB - English (ISO-8859-15)
en_IE	Ireland - English (8 bit)
en_IE.ISO8859-15	Ireland (ISO8859-15)
en_NZ	New Zealand - English (8 bit)
en_US	USA - English (ISO-8859-1)
es	Spanish
es.ISO8859-15	Euro Spanish (ISO8859-15)
es.UTF-8	Spanish (UTF-8)
es_AR	Argentina
es_BO	Bolivia
es_CL	Chile
es_CO	Colombia

TABLE 1-4 Core *(continued)*

Language	Description
es_CR	Costa Rica
es_EC	Ecuador
es_GT	Guatemala
es_MX	Mexico
es_NI	Nicaragua
es_PA	Panama
es_PE	Peru
es_PY	Paraguay
es_SV	El Salvador
es_UY	Uruguay
es_VE	Venezuela
et	Estonia
fi	Finland
fi.ISO8859-15	Finland (ISO8859-15)
fr	French
fr.ISO8859-15	Euro French (ISO8859-15)
fr.UTF-8	French (UTF-8)
fr_BE	Belgium
fr_BE.ISO8859-15	Belgium (ISO8859-15)
fr_CA	Canada
fr_CH	Switzerland
hr_HR	Croatian (ISO 8859-2)
hu	Hungary

TABLE 1-4 Core (continued)

Language	Description
it	Italian
it.ISO8859-15	Euro Italian (ISO8859-15)
it.UTF-8	Euro Italian (UTF-8)
lt	Lithuania
lv	Latvia
mk_MK	Macedonian (ISO 8859-5)
nl	Netherlands
nl.ISO8859-15	Netherlands (ISO8859-15)
nl_BE	Netherlands/Belgium
nl_BE.ISO8859-15	Netherlands/Belgium (ISO8859-15)
no	Norway
no_NY	Nynorsk
nr	Bosnian (ISO 8859-2)
pl	Poland
pt	Portugal
pt.ISO8859-15	Portugal (ISO8859-15)
pt_BR	Portugal/Brazil
ro_RO	Romanian (ISO 8859-2)
ru	Russia
sk_SK	Slovak (ISO 8859-2)
sl_SI	Slovene (ISO 8859-2)
sq_AL	Albanian (ISO 8859-2)
sr_SP	Serbian (ISO 8859-5)

TABLE 1-4 Core (continued)

Language	Description
sv	Swedish
sv.ISO8859-15	Euro Swedish (ISO8859-15)
sv.UTF-8	Swedish (UTF-8)
tr	Turkey

Workaround: To prevent the problem, install the metacluster that contains the desired locale.

To repair an existing installation in the `/etc/default/init` file, change the references to the unsupported locale to reference a supported locale for the installed metacluster.

System Administration Installation Bugs

Addition of Solaris 7 Service to an OS Server Results in an Upgrade Failure Message (4171470)

When the Solaris 7 system software is added to an OS server as a service, the following error message is displayed:

```
celebris: Error: Error adding OS service Solaris 2.7 i386 i86pc:
service modification failed.
See /var/sadm/system/logs/upgrade_log for more information
(/var/sadm/install_data/upgrade_log on Solaris 2.3 or 2.4).
```

Where *celebris* is the name of the OS server.

If you review the indicated log file, you will see that the addition of the SUNWplow package failed with the following message:

```
Doing pkgadd of SUNWplow to /.
ERROR: attribute verification of
<export/exec/Solaris_2.7_i386.all/etc/default/init> failed
pathname does not exist
```

Workaround: Ignore the error message.

User Disabling of Daemons and Servers in `inetd.conf` Overridden by Package Instance (4220923)

The interactive installation program adds lines for the KCMS Profile Server, Font Server, CacheFS Daemon, and Kerbd Daemon even though they already exist and are commented out in `/etc/inetd.conf`.

Workaround: The unnecessary entries in `/etc/inetd.conf` can be deleted or commented out with a text editor.

64-Bit Solaris Issues

This section describes installation-related 64-bit Solaris issues.

Sun UltraSPARC System (sun4u) May Need Flash PROM (Open Boot) Upgrade

If you want to run the 64-bit Solaris operating environment on an UltraSPARC system, you may need to upgrade its Flash PROM firmware. The Solaris 7 installation programs have a new check box for adding 64-bit support. This new 64-bit support is selected by default when installing on Sun UltraSPARC systems.

Note - If you choose to run the 32-bit Solaris operating environment on any Sun or UltraSPARC system, the Flash PROM upgrade is not needed.

The following table lists the UltraSPARC (sun4u) systems that are affected and the minimum firmware versions needed. If the system is not listed in the table, it does not need a Boot PROM upgrade. Use `uname -i` to check the system type. Use `prtconf -v` to identify the firmware version.

System Type from <code>uname -i</code>	Minimum Firmware Version from <code>prtconf -v</code>
SUNW,Ultra-1-Engine	3.10.0
SUNW,Ultra-1	3.11.1
SUNW,Ultra-2	3.11.2
SUNW,Ultra-4	3.7.107
SUNW,Ultra-Enterprise	3.2.16

Note - For instructions on performing the Flash PROM update using the Solaris CD, refer to the *Solaris 7 Sun Hardware Platform Guide*. If you do not have this manual, it can be obtained at <http://docs.sun.com>.

AnswerBook2 Documentation Bug

`ab2cd -s` Does Not Add Locally-Installed Document Collections to the Server (4208243)

When running the AnswerBook2 server from the CD, the command `ab2cd -s` causes any locally-installed document collections to be added to the server database. However, it does not find any local document collections.

Workaround: If you have locally-installed document collections, install the AnswerBook2 server software. Do not run the server from the CD.

Late-Breaking Solaris Runtime Issues

This chapter describes known runtime problems. You may also want to refer to the online `runtime_bugs` file in the `SUNWrdm` package on the Solaris 7 5/99 CD for additional runtime problems.

The information in this chapter supplements any information listed in the `runtime_bugs` file that is part of the `SUNWrdm` package on the Solaris 7 5/99 CD. If you boot from the Solaris 7 5/99 CD, the `runtime_bugs` file is located in the directory:

```
/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C
```

The default installed location for the `runtime_bugs` file is the directory:

```
/usr/share/release_info/Solaris_2.7/C
```

Note - The name of this product is Solaris 7 5/99, 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.

Common Desktop Environment (CDE) Bugs

Solaris Information Files Display in English (4202477)

If you display the 7 Solaris information files (listed in Step 2 on page 26) that are included in the `SUNW?rdm` packages and installed in the

`/usr/share/release_info/Solaris_2.7/locale` directory, you can only view them in English even though you logged in using the European locale.

1. **Select Information from the front panel's Help menu.**
2. **Double-click the Solaris_2.7 folder in the Application Manager.**

The following 7 Solaris Information files are displayed:

- `documentation_issues`
- `driverupdate`
- `eof`
- `installation_bugs`
- `new_features`
- `patches`
- `runtime_bugs`

3. **Double-click on each file.**

It displays each file in `dtpad`.

Workaround: Go to `/usr/share/release_info/Solaris_2.7/locale` and use `vi` or `dtpad`.

System Administration Bugs

`init` Does Not Recognize Carrier Drop Off From a Serial Display and Therefore Does Not Revert to the Default Console (4191023)

If you lose the carrier, i.e., become disconnected from the serial port (that is not located on the default console or on an auxiliary console through which you are logged in, and then bring the system to single-user or administrative mode by executing the `init` command from that port, you must ensure that the carrier is reestablished on that serial port before bringing the system back up. The system then prompts you for a run level to which you want to boot the system (only on the port where the `init` command was initiated).

Workaround: Reconnect to the serial ports when you lose the carrier before rebooting the system.

init Prompts for Run Level When the reboot Command Is Executed From a Standalone Session (4191148)

A misleading message is sometimes displayed on the device on which you initiated the `init` state transition when administering a system using the `init` command even though you executed the `reboot` command. When executing `init s`, a single-user shell is established on a remote console and the subsequent rebooting of the system can cause the following message to be displayed:

```
Enter run level
```

Workaround: Ignore the misleading message.

Change the init Command's Run Level Prompt to Display on a tty On Which Shift D or the exit Command Are Executed (4196862)

If you press Shift—D as a superuser or after logging in as `root` from the superuser login prompt and then issue an `exit` command to be at the default run level, you are prompted for the default run level. The prompt is displayed on a console on which the `init` command was initially executed instead of the console on which Shift—D or the `exit` command were originally issued.

If you execute the `init` command from a `pty`, `/dev/console` becomes the default device on which you are prompted for a run level. If you are running a remote console and log in as a superuser and then type Shift—D to boot the system, the run level prompt is then displayed on the console instead of the auxiliary console.

The init Command Does Not Display Its Run Level Prompt When Reconnecting to the Port of an Auxiliary Console (4196993)

If a configuration includes one or more auxiliary consoles and the carrier drops the connection for the auxiliary console on which the `init` command was run, and the `su` login shell has exited from another auxiliary or default console, then the following

prompt will not be displayed after reestablishing the connection on the port from which the carrier dropped the connection:

```
ENTER RUN LEVEL
```

Although you are never prompted for the run level, the system is still waiting for the run level to be entered.

Workaround: Reestablish the connection on the port from the carrier has dropped the connection and enter the desired run level even though you are not prompted for the run level.

Some Console Messages Cannot Be Redirected to Auxiliary Consoles (4197589)

Daemons or commands may use `/dev/console` explicitly to display messages. The frequency of such messages is low among the set of messages that the console may display.

Workaround: All messages are still printed to `/dev/console` and can therefore be monitored. You can also monitor `syslog` log files.

`syslog` Writes Messages to `/dev/syscon` When Unable to Send to `syslogd` (4219265)

If `syslogd` needs to display error messages on a console, these messages will be directed to the default location `/dev/syscon`. The error messages are not displayed on any configured auxiliary consoles in this feature patch.

UFS Quotas Not Enabled After Booting (4226352)

If you have UFS file systems listed in `/etc/vfstab` with quotas enabled, you must apply the following workaround. Otherwise, quotas are not enabled automatically after booting a system.

Workaround: You must run `quotacheck -a` and `quotaon -a` for quotas to be correctly enabled. Otherwise, quotas remain disabled.

64-Bit Solaris Bugs

krtld Does Not Recognize sparcv9 Register Symbols (4203394)

When loading an unbundled device driver, STREAMS module, file system, or other kernel module, you may see the following error message:

```
kernel_module_path: undefined symbol
WARNING: mod_load: cannot load module 'kernel_module_path'
```

The kernel runtime linker does not recognize the new register symbol type introduced in the SC5.0 FCS compilers and assemblers for 64-bit SPARC binaries.

Workaround: You must verify that the error message was generated because the kernel runtime linker does not recognize the new register symbol type. To do this, type:

```
# nm kernel_module_path | grep REGI
```

If this is the problem, the output from this command is a table that shows one row with 2 in the Value column and REGI in the Type column, and another row with 3 in the Value column and REGI in the Type column. An example is:

```
[154] | | 2 | 0 | REGI | GLOB | 0 | UNDEF |
[155] | | 3 | 0 | REGI | GLOB | 0 | UNDEF |
```

To correct the problem:

- If you have the source code for the kernel module, recompile the kernel module with `-xregs=no%apl` option, or, if it is written in assembly language, assemble it with `-xregsym=no` option.
- If you do not have the source code, contact the provider of the kernel module to report the problem.

Debugging Bugs

dbx 4.0 Cannot Dump the Stack Trace When Debugging a Multi-Threaded Program (4207409)

When debugging a multi-threaded program with a signal handler on a given thread stack, dbx 4.0 cannot successfully dump the thread's stack.

Workaround: Use dbx 5.0.

Java Development Kit (JDK) Bugs

Java Applications Dump Core When There Is Insufficient Swap Space (4037312, 4042667)

Java applications dump core when there is not enough swap space. Applications sometimes produce the following bus error:

```
not enough space
```

Workaround: Exit other applications running on the system or add more swap space. See the *Solaris System Administration Guide* for details on adding swap space.

Adjust Colormap To Improve Performance in True-Color Environment (4102599)

Many X-requests in Java applications can cause a slow startup in 8-bit color (TrueColor or PseudoColor) environments. This is apparent on slower systems. A large part of the startup delay is due to the computation of an optimal dithered colormap by the awt library during initialization.

Workaround: Adjust the colormap size computed at initialization by using the environment variable `VIRTUBESIZE`. Set it to a power of 2 between 4 and 32. The default value is 32.

```
setenv VIRTUBESIZE 8
```

The `-nojit` Option Displays a Warning (4144550)

When the `-nojit` option is used, the following warning is displayed:

```
Warning: JIT compiler "none" not found. Will use interpreter
```

Workaround: Use the `-Djava.compiler=NONE` command line option instead of the `-nojit` option.

Values in Italian Euro Currency Format Are Not Represented With Fractional Digits (4183898)

In the Italian locale that supports euro currency (`it_IT_EURO`), the default currency format obtained using either `getCurrencyInstance()` or `getCurrencyInstance(locale)` from the `java.text.NumberFormat` returns currency values formatted as integers.

Workaround: Use your own currency format rather than the locale's default.

Late-Breaking News

This chapter lists late-breaking new features that arrived too late to be included in the "What's New: A Closer Look" in the *Solaris 7 (SPARC Platform Edition) Installation Library*. In addition, you can also refer to the "What's New at a Glance" section in the *Solaris 7 Supplement*, the *Solaris 7 System Administration Supplement*, and the *Solaris 7 Software Developer Supplement*. You may also want to refer to the online `new_features` file in the `SUNWrdm` package on the Solaris CD for additional information on new features.

The information in this chapter supplements any information listed in the `new_features` file that is part of the `SUNWrdm` package on the Solaris 7 5/99 CD. If you boot from the Solaris 7 5/99 CD, the `new_features` file is located in the directory:

```
/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/
```

The default installed location for the `new_features` file is the directory:

```
/usr/share/release_info/Solaris_2.7/C
```

Note - The name of this product is Solaris 7 5/99, 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.

Java Development Kit 1.1.6_03

Java Runtime Environment (JRE) Available

A JRE corresponding to the latest version of the JDK is available for download at

<http://www.sun.com/solaris/jre>

Refer to the document, *Solaris Java Runtime Environment (JRE) 1.1.6 Configuration Guide* at http://www.sun.com/solaris/jre/1.1/jre_config.txt.

This document contains the following information:

- JRE overview
- How to bundle and run the JRE

The bugs in these release notes apply to the JRE, except for those bugs that apply to components not included in the JRE.

Large File Support

Beginning with JDK 1.1.6_03, the classes and methods that access files include support for large files (greater than or equal to 2 GBytes [2^{31} bytes]). There are no API changes. A Java application that is run with this version of the JDK can access large files.

Large files are supported as of Solaris 2.6.

High-Performance JIT Compiler

JDK 1.1.6_03 introduced the High-Performance JIT compiler, an optimized version that enables significant performance gains over the JIT compiler bundled with the Solaris 2.6 operating environment.

Release Naming Convention

Release Name Strings

The release name for this and future releases can be displayed using `java-fullversion`, and can be interpreted as follows:

TABLE 3-1 Solaris_JDK_1.1.6_03

Solaris_JDK_	Constant for all Sun Solaris JDK production releases
1.1.6	Version of the Java Software JDK that this version of the Solaris JDK is compatible with, as measured by the FCS version of the JDK
03	Number that increases with every new FCS release

Dynamic Reconfiguration (DR) for Sun Enterprise 6x00, 5x00, 4x00, and 3x00 Systems

If you plan to implement DR on Sun Enterprise 6x00, 5x00, 4x00 and 3x00 systems, visit the following Sun web site for late-breaking news, frequently-asked questions (FAQ) and the latest downloading instructions for patches and firmware needed to run DR:

<http://sunsolve2.sun.com/sunsolve/Enterprise-dr>

End-of-Support Statements

This chapter lists late-breaking end-of-support statements that arrived too late to be included in the online eof file in the SUNWrdm package on the Solaris CD.

The information in this chapter supplements any information listed in the eof file that is part of the SUNWrdm package on the Solaris 7 5/99 CD. If you boot from the Solaris 7 5/99 CD, the eof file is located in the directory:

```
/cdrom/sol_7_599_sparc/s0/Solaris_2.7/Docs/release_info/C
```

The default installed location for the eof file is the directory:

```
/usr/share/release_info/Solaris_2.7/C
```

Note - The name of this product is Solaris 7 5/99, 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.

End of Software Support Statements for Future Releases of the Solaris Operating Environment

The `sysidnis(1M)` System Identification Program

The `sysidnis(1M)` program may be removed in a future release. `sysidnis(1m)` is the System Identification program responsible for configuring name services during installation and upgrade, and after unconfiguration using `sys-unconfig(1M)`.

`sysidnis(1M)` will be replaced by `sysidns(1M)`.

XIL

XIL may no longer be supported in a future release. The following warning is generated when an XIL program is compiled:

```
#error: "XIL has been declared Obsolete and may not be present in
versions of Solaris after 8.
#define SUNXIL_WARNING_DISABLE (or use -D) to disable this message."
```

To compile an XIL program, disable the message by adding `#define` to the program:

```
#define SUNXIL_WARNING_DISABLE
```

or by using the following compiler directive:

```
-DSUNXIL_WARNING_DISABLE
```

Maintenance Update Patch List

The patches listed in this appendix are on the Solaris 7 5/99 CD. They have been applied using::

- SolStart

The patches are located in the `/var/sadm/patch` directory on an installed system.

- Freshbits technology

These patches were applied when the Solaris 7 5/99 CD was created. Therefore, these patches are not located in the `/var/sadm/patch` directory.

The `showrev -p` command provides a list of all patches applied to the installed system regardless of how they were applied. The Solaris 7 5/99 CD includes a known and tested level of patches; however, patches cannot be backed out of the Solaris 7 5/99 release.

Patch List

106146-05 : SunOS 5.7 M64 Graphics Patch
4147781 4166676 4166564 4167729 4174185 4174287 4174783 4175630 4175668 4175851
4178198 4182726 4185216 4185486 4189734 4175585 4191155 4191632 4194640 4198192
4199987 4204624 4205110

106147-01 : SunOS 5.7 VIS/XIL Graphics Patch
4163883 4172620

(continued)

106541-04 : SunOS 5.7 kernel update patch
 4104625 4112730 4115711 4115715 4132290 4136059 4138467 4139770 4140352 4147402
 4143503 4152055 4155392 4159337 4165983 4154939 4167270 4168739 417010 4170500
 4174167 4174331 4175350 4175558 4176940 4177334 4177496 4178298 4179342 4179407
 4179883 4181570 4182043 4182047 4182227 4182234 4182240 4182970 4184015 4184305
 4184430 4184852 4184877 4185366 4185742 4186155 4188005 4190083 4190117 4190138
 4190405 4190566 4190796 4190807 4190812 4191544 4192056 4192227 4192420 4192698
 4192639 4193375 4193378 4193379 4193380 4193381 4193383 4193467 4193657 4194789
 4196986 4197418 4197450 4197461 4198134 4198723 4198942 4199606 4199032 4200817
 4201921 4203394 4204046 4210841 4211024 4211033 4211618 4212524 4212620 4212634
 4213705 4214739 4216224 4217122

106733-05 : SunOS 5.7 Create a patch analyzer
 4170691 4175875 4178977 4132282 4186583 4186586 4186587 4186588

106793-02 : SunOS 5.7 ufsdump and ufsrestore patch
 4077276 4132365 4145883 4169853 4184189

106812-04 : SunOS 5.7 ctl print utility patch
 4172142 4173334

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

106857-04 : SunOS 5.7 European locale updates
 4179837 4175110 4203951 4193529

106879-01 : Power_Mgmt-SW 7 sys-suspend patch
 4174133

106915-01 : SunOS 5.7 dtmail in zh.GBK can't read 2.5.1 Chinese email by default.
 4182320

106917-01 : SunOS 5.7 when view mails change charset, dtmail dump core.
 4175029

106924-01 : SunOS 5.7 /kernel/drv/isp and /kernel/drv/sparcv9/isp patch
 4166035

106925-01 : SunOS 5.7 /kernel/drv/glm and /kernel/drv/sparcv9/glm patch
 4162302 4176924

106926-03 : SunOS 5.7 sdtudctool, sdtudc_register and sdtudc_extract patch
 4199125 4178971 4183926 4178952 4178964 4162315 4176705 4179808 4192450

106934-03 : CDE 1.3 libDtSvc Patch
 4181281 4167347 4191060 1194724

106936-01 : SunOS 5.7 /etc/cron.d/logchecker patch
 4094591

106938-01 : SunOS 5.7 libresolv patch
 4134616

(continued)

- 106940-01 : SunOS 5.7 /usr/sbin/makedbm patch
4144726
- 106942-01 : SunOS 5.7 libnsl patch
4157559 4161969
- 106944-01 : SunOS 5.7 /kernel/fs/fifofs and /kernel/fs/sparcv9/fifofs patch
4166116
- 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
- 106950-03 : SunOS 5.7 linker patch
4159122 4173376 4174468 4176579 4179880 4188527 4188843 4205087
- 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
- 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
- 106978-06 : SunOS 5.7 fix for sysid
4166260 1213369 4204782 4205403 4207595 4208607 4211403 4225369
- 106980-04 : SunOS 5.7 libthread patch
4157739 4173285 4173422 4189981 4207409 4209710 4209713
- 106982-01 : SunOS 5.7 /kernel/drv/fas and /kernel/drv/sparcv9/fas patch

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- 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
4177176 4174709
- 107018-01 : SunOS 5.7 /usr/sbin/in.named patch
4134616
- 107022-02 : CDE 1.3 Calendar Manager patch
4184188 4117156
- 107031-01 : SunOS 5.7 /usr/ucb/ucblinks patch
4161576
- 107033-01 : Solaris 7 xetops crashes for BIG5
4188052
- 107038-01 : SunOS 5.7 apropos/catman/man/whatis patch
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
- 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

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- 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
- 107081-03 : Motif 1.2.7 Runtime library patch backdrop scale regression
4159034 4149711 4171291 4170491 4162369 4165677 4171723 4174322 4183749 4186734
4186826 4128879 4191550 4197157 4197924
- 107094-02 : CDE 1.3 dtterm libDtTerm.so.2 Patch
4177487 4190065
- 107115-01 : SunOS 5.7 /usr/lib/libprint.so.2 patch
4179341
- 107117-03 : SunOS 5.7 libbsm patch
4166626 4167174 4168892 4172111 4172702 4174308 4182072 4187811 4188193 4194454
4196408 4196541
- 107119-04 : SunOS 5.7 JFP manpages patch
4185342 4190255 4195644 4199110 4222912
- 107121-01 : SunOS 5.7 uata and dad driver patch
4179264 4186223
- 107124-02 : SunOS 5.7 JFP message files patch
4195663 4216216
- 107127-02 : SunOS 5.7 /usr/lib/autofs/automountd patch
4188020
- 107136-01 : Solaris 7 Fixed Dtmal Shortcuts to be consistent with English
4181490
- 107138-01 : Solaris 7 Fixed SUNW5ttf package to display ps files
4178539
- 107147-03 : SunOS 5.7 pci driver patch
4170981 4177530 4180438 4205258 4205298 4224713
- 107148-03 : SunOS 5.7 /kernel/fs/cachefs and /kernel/fs/sparcv9/cachefs patch
4170190 4170376 4171181
- 107171-02 : SunOS 5.7 Fixes for patchadd and patchrm
4186941 4176890 4190866 4150762 4193454 4194281 4194308 4224092
- 107178-01 : CDE 1.3 libDtHelp.so.1 patch
4193245

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107180-04 : CDE 1.3 dtlogin patch
4178402 4178408 4178415 4178431 4184874 4189472 4190072 4190214 4201306 4205939 4198977

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

107200-03 : CDE 1.3 dtmail patch
4190570 4201459 4191180

107209-03 : Solaris 7 WOS Message Updates

107219-01 : CDE 1.3 dtprintinfo patch
4007233 4191060 4191065

107226-03 : CDE 1.3 dtwm patch
4169837 4209745 4212855

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

107259-01 : SunOS 5.7 /usr/sbin/vold patch
4194660

107285-01 : SunOS 5.7 passwd & pam_unix.so.1 patch
4172457

107292-01 : SunOS 5.7 ifp driver patch
4185774

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

107318-04 : SunOS 5.7 Manual Pages for Solaris 7 update 2
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

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- 107330-01 : SunOS 5.7 /usr/sbin/ntpdate patch
4201436
- 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
- 107430-01 : SunOS 5.7 Installer utility used by NCR breaks under Solaris 7
4205603
- 107437-02 : Solaris 7 support IBM Cp837 and Cp874 iconv modules(th_TH)
4212930
- 107438-01 : SunOS 5.7 iso8859-15 locale copy and paste fix
4203951
- 107441-01 : SunOS 5.7 /usr/bin/mailx patch
4207629
- 107443-03 : SunOS 5.7 packaging utilities patch
4155622 4176616 4197238 4199317 4222097 4226928
- 107445-01 : SunOS 5.7 SEA SNMP patch
4144431 4166235 4171108 4172607 4176076 4178419
- 107448-01 : SunOS 5.7 /usr/lib/fs/cachefs/cachefsd patch
4204223
- 107450-01 : SunOS 5.7 /platform/SUNW,Ultra-Enterprise-10000/lib/cvcd patch
4198962
- 107451-01 : SunOS 5.7 /usr/sbin/cron patch
4196408
- 107453-01 : SunOS 5.7 Ultra-80 platform patch
4210707

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- 107454-01 : SunOS 5.7 /usr/bin/ftp patch
4138598
- 107456-01 : SunOS 5.7 /etc/nsswitch.dns patch
1194875
- 107458-01 : SunOS 5.7 sd & ssd drivers patch
4169315 4169319 4196836
- 107459-01 : SunOS 5.7 qec driver patch
4106428
- 107460-01 : SunOS 5.7 st driver patch
4166568 4166583
- 107462-01 : SunOS 5.7 /kernel/sched/TS patch
4201921
- 107499-02 : SunOS 5.7 koi8-R -ow hanged before dtlogin screen
4192535
- 107546-02 : OpenWindows 3.6.1 Ultra 80 Support Patch
4212493
- 107577-01 : SunOS 5.7 japanese installer utility patch
4221385
- 107628-01 : SunOS 5.7 sdtwebstart.dt 599 I10n_euro message updates
- 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