



Solaris 7 (SPARC Platform Edition)
11/99 Release Notes

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Preface

The *Solaris™ 7 (SPARC™ Platform Edition) 11/99 Release Notes* contain installation problem details and other information that was not available until immediately before the release of the Solaris 7 11/99 operating environment, too late to be included in the SUNWrdm package that is resident on the Solaris 7 11/99 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 11/99 CD, information about this release can be found in the directory:

```
/cdrom/sol_7_1199_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 11/99, 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 11/99 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 7 User 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_1199_sparc/s0/Solaris_2.7/Docs/release_info/C`
directory on the Solaris 7 11/99 CD.

The `/cdrom/sol_7_1199_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:

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

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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%</code> you have mail.
AaBbCc123	What you type, contrasted with on-screen computer output	<code>machine_name%</code> su 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 11/99 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 11/99 CD. If you boot from the Solaris 7 11/99 CD, the `installation_bugs` file is located in the directory:

```
/cdrom/sol_7_1199_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 11/99, 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.

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.

Installing With Solaris Web Start in Client/Server Mode May Produce Exception Messages in the HotJava Console Window (4248436)

When installing with Solaris Web Start in client/server mode, you may see the following exception messages in the HotJava console window:

```
sun.applet.AppletSecurityException: checkaccess.thread
  at java.lang.Throwable.<init>(Compiled Code)
  at java.lang.Exception.<init>(Compiled Code)
  at java.lang.RuntimeException.<init>(Compiled Code)
  at java.lang.SecurityException.<init>(Compiled Code)
  at sun.applet.AppletSecurityException.<init>(Compiled Code)
  at sun.hotjava.security.PolicyUntrusted.checkAccess(Compiled Code)
  at sun.hotjava.security.HotjavaSecurity.checkAccess(Compiled Code)
  at java.lang.Thread.checkAccess(Compiled Code)
  at java.lang.Thread.stop(Compiled Code)
  at MouseOverPanel.handleMouseEnter(Compiled Code)
  at SolsticeConfTaskPage.handleEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.postEvent(Compiled Code)
  at java.awt.Component.dispatchEventImpl(Compiled Code)
  at java.awt.Container.dispatchEventImpl(Compiled Code)
  at java.awt.Component.dispatchEvent(Compiled Code)
  at java.awt.EventDispatchThread.run(Compiled Code)
Exception occurred during event dispatching:
sun.applet.AppletSecurityException: checkaccess.thread
```

When exception messages appear, mouse clicks may become slow to update and some information panels may not display properly.

Workaround: To improve the responsiveness of the mouse and complete the installation process, close the HotJava Console window. Some information panels may not update properly, but this does not affect the installation process. Web Start installs the products that you selected, however, the description may be inaccurate if you have moved the cursor over more than one product.

To prevent the exception messages, do not open the HotJava Console window before or during installation.

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)

Solstice™ AutoClient™ systems display the following message when rebooting:

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

This directive indicates to the kernel that the root file system is of type `cachefs`. To determine whether or not a specific Solstice AutoClient system 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 system's `/var/sadm/pkg` directory). If this directory contains a subdirectory called `TADcar`, the Solstice AutoClient system may be affected.

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

```
rootfs:cachefs
```

The Solstice AutoClient systems' `/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 11/99 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 AutoClient systems, then the `SUNWcvc.u` and `SUNWdrr.u` packages are not installed on diskless clients or Solstice AutoClient systems.

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

1. Mount the Solaris 7 11/99 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/foe -d `pwd` SUNWcvc.u
# pkgadd -R /export/root/foe -d `pwd` SUNWdrr.u
```

Errors May Occur During A European Upgrade (4230247, 4225787)

After upgrading from the Solaris 7 3/99 or 5/99 operating environments to the Solaris 7 8/99 operating environment, the following errors may appear 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 /.
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.

Upgrading With Resizing of the Root Slice Fails (4257708)

Upgrades that involve resizing or moving the root slice fail, leaving the system unable to boot. The failure is not reported by the upgrade program. The upgrade program will not move or resize slices without positive confirmation from the user.

Workaround: You may choose one of the following workarounds:

- If you do not want the root slice resized or moved, during upgrade use the auto-layout configuration screen to adjust the constraints.
- If you want to resize or move the slices, before upgrading backup the system, manually resize or move the slices, and then restore the system.
- If you have already completed the upgrade and have resized or moved the root slice, but have not rebooted, manually remove and re-install the `SUNWcsd` package. To remove and re-install the `SUNWcsd` package:
 1. Remove the `SUNWcsd` package.

```
# pkgrm -R /a SUNWcsd
```

2. Install the `SUNWcsd` package.

```
# pkgadd -R /a -d /cdrom SUNWcsd
```

Upgrading With Disk Space Reallocation Removes Language Packages (4258815)

An upgrade using disk space reallocation in which the `/usr` partition is resized or moved causes some language packages to be removed from the system. The packages appear in the package database as installed, but the language files are not installed on the file system.

This does not occur on systems installed with only the English language.

Workaround: You may choose one of the following workarounds:

- To prevent the problem, before upgrading use `patchadd` with the `-C` option to apply patch 108175-01 or greater to the miniroot area on a Solaris 7 11/99 net install image.
- To manually adjust file system sizes before upgrading:
 1. Back up the system.
 2. Using the `format` command, adjust the file system sizes according to the requirements described in the install program.
 3. Restore the system on to the new file systems.
 4. Start the upgrade. The upgrade will proceed without disk space reallocation as you have adjusted the file systems so that there is enough space to complete the upgrade.
- To install the missing packages after the upgrade is complete:
 1. Determine which packages are missing. The missing packages are those that do not appear in the `do_pkgadd` lines in the `/var/sadm/system/admin/upgrade_script` and who have non-empty lines in `SUNW_LOC` in their `pkginfo` files in the `/var/sadm/pkg` directory.

2. Create an admin file as `/tmp/admin` with the following lines:

```
instance=overwrite
mail=
```

For detailed instructions about creating an admin file, refer to `admin(4)`.

3. Install the missing packages by typing the following command for each package to install:

```
# pkgadd -a /tmp/admin -d /cdrom/cdrom0/Solaris_2.7/Product package_name
```

where *package_name* is the name of the package to install.

Note - If your Solaris 7 11/99 software is mounted somewhere other than the CD-ROM drive, change the argument to the `-d` option to be the absolute path to the `Solaris_2.7/Product` directory.

Symbolic Links to SUNWjvrt Are Missing After Upgrading from Solaris 7 (4259033)

After upgrading from the Solaris 7 operating environment using disk space reallocation, the java commands may not be found due to missing symbolic links.

Workaround: To restore the symbolic links, complete these steps:

1. **Remove the SUNWjvdev and SUNWjvrt packages.**

```
# pkgrm SUNWjvdev SUNWjvrt
```

2. **Re-install the SUNWjvrt and SUNWjvdev packages.**

```
# pkgadd -d /cdrom/cdrom0/s0/Solaris_7 SUNWjvrt SUNWjvdev
```

Solaris Installation Bugs

The SMEvplu.u Package Does Not Install Properly When Upgrading From Solaris 2.5.1 Hardware: 11/97 With Disk Space Reallocation (4190800)

If you are running a SPARCengine™ Ultra™ AX system and you are upgrading from the Solaris 2.5.1 Hardware: 11/97 operating environment with Disk Space Reallocation, the SMEvplu.u package does not install properly.

The following message appears in the upgrade_log:

```
Doing pkgadd of SMEvplu.u to /.
pkgadd: ERROR: SMEvplu is already installed at /
usr. Admin file will force a
duplicate installation at /.

Installation of <SMEvplu> was suspended (administration).
No changes were made to the system.
pkgadd return code = 4
```

Workaround: Before rebooting, manually remove the existing SMEvplu package and install the new SMEvplu.u package.

1. Remove the incomplete SMEvplu package:

```
# pkgrm -R /a SMEvplu
```

2. Change directories to the Solaris 7 Product directory:

```
# cd cdrom/Solaris_7/Product
```

3. Add the correct SMEvplu.u package:

```
# pkgadd -d `pwd` -R /a SMEvplu.u
```

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 11/99 operating environment, the Web Start installer installs the End User metacluster. For Server editions of the Solaris 7 11/99 operating environment, Web Start installs the Entire metacluster. You can change the defaults by selecting a Custom installation.

The following table indicates which locales are supported by each metacluster:

TABLE 1-1 Locales in Each Metacluster

Locale	Description	Core	End User	Developer	Entire/ Entire+OEM
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	•			•
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)	•	•	•	•

TABLE 1-1 Locales in Each Metacluster *(continued)*

Locale	Description	Core	End User	Developer	Entire/ Entire+OEM
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	•	•	•	•
es_GT	Guatemala	•	•	•	•
es_MX	Mexico	•	•	•	•

TABLE 1-1 Locales in Each Metacluster *(continued)*

Locale	Description	Core	End User	Developer	Entire/ Entire+OEM
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	•	•	•	•

TABLE 1-1 Locales in Each Metacluster *(continued)*

Locale	Description	Core	End User	Developer	Entire/ Entire+OEM
it.ISO8859-15	Euro Italian (ISO8859-15)	•	•	•	•
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)	•			•

TABLE 1-1 Locales in Each Metacluster (continued)

Locale	Description	Core	End User	Developer	Entire/ Entire+OEM
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)	•	•	•	•
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.

Font Package Warning Occurs During Installation (4226416)

The font packages listed below in the warning messages cover all language locales, including those that may not be on your Solaris CD. If you cannot find all the packages listed in the warning message, then only install those packages that you can find on your CD.

```
Warning! It is strongly recommended that the following font package be
installed for all locales:

SUNWilof

Warning! It is strongly recommended that the following font packages be
installed to support locales (other than ISO8859-1 locales) as needed:
```

(continued)

```
SUNWi2of SUNWi2rf SUNWi4of SUNWi4rf SUNWi5of SUNWi7of SUNWi7rf  
SUNWi9of SUNWi9rf SUNWjxcft SUNWkcoft SUNWcttf SUNWhttf SUNW5xfnt
```

This message is only advisory and does not indicate an installation failure.

Workaround: Installation of the font packages listed in the warning message is strongly recommended.

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

System Type from <code>uname -i</code>	Minimum Firmware Version from <code>prtconf -v</code>
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 Installation Bugs

Installing SUNWab2u Before SUNWab2r and SUNWab2s Causes Problems (4230969)

Installing the SUNWab2u package before the other AnswerBook2 packages, SUNWab2r and SUNWab2s, causes the following:

- Warning messages will display during the installation
- The scan option will not find any AnswerBook1 collections
- Links between books will attempt to retrieve the book from docs.sun.com, rather than from the local server

Workaround: Use the installer (Web Start utility) or the `pkgrm` command to remove the SUNWab2u, SUNWab2r, and SUNWab2s packages.

To install the packages in the correct order, use the installer (Web Start utility).

If you install the packages manually using the `pkgadd` command, install them in the following order:

1. SUNWab2r
2. SUNWab2s
3. SUNWab2u

Solstice AutoClient Installation Issue

The Solstice AutoClient product is not included in the SEAS 3.0 product shipped with the Solaris 7 11/99 release. If you have installed diskless clients and AutoClient systems, you can continue to use those systems. You can manage those systems using an earlier release of Solstice AdminSuite.

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 11/99 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 11/99 CD. If you boot from the Solaris 7 11/99 CD, the `runtime_bugs` file is located in the directory:

```
/cdrom/sol_7_1199_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 11/99, 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

Cannot Print in `dtmail` for Non-ISO_1 Locales (4072209)

If you are running a non-ISO_1 locale, such as `ru`, `hr`, and `pl`, you cannot print emails in `dtmail`.

Workaround: To print an email, save the e-mail as a file and use `dtpad` or the `lp` command to print the file.

Solaris Information Files Display in English (4202477)

If you display the 7 Solaris information files (listed in Step 2 on page 24) that are included in the `SUNWrdm` 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

`/var/adm/messages` File Contains Incorrect Time Stamp (4216235)

The system time in the `/var/adm/messages` file is inaccurate when displaying boot-related information for the first boot after a `netinstall`. In the following excerpt from the `/var/adm/messages` file, you will see that the system time gets set to a later time.

```
Jun  1 22:05:07 sunergy2 unix: mem = 49152K (0x3000000)
Jun  1 22:05:07 sunergy2 unix: avail mem = 44359680
Jun  1 22:05:07 sunergy2 unix: root nexus = SUNW,SPARCclassic
Jun  1 17:39:59 sunergy2 unix: iommu0 at root
Jun  1 17:39:59 sunergy2 unix: :
Jun  1 17:39:59 sunergy2 unix: obio 0x10000000
Jun  1 17:39:59 sunergy2 unix:
Jun  1 17:39:59 sunergy2 unix: sbus0 at iommu0
```

Workaround: You may delete the innaccurate messages.

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.

Cannot Detach UE10000 Board if `in.rarpd` daemon Is Running and `/rplboot` Exists (4231845)

If you setup a UE10000 board as a diskless client and Solstice AutoClient server and Solstice AdminSuite daemons are running, you cannot detach the board using Dynamic Reconfiguration. When you attempt to detach the board, you will see something similar to the following error message:

```
dr> complete_detach 2
Completing detach of board 2.
DR Error: detach_board: UNCONFIGURE ioctl failed
PIM (errno #5): /sbus@48,0/SUNW,hme@0,8c00000
Board detachment failed.
Retry the COMPLETE or ABORT the operation.
dr>
```

Workaround: If you set up a UE10000 board as a Solstice server servicing diskless clients and AutoClient systems, follow these steps before running a Dynamic Reconfiguration operation:

1. **Move** `/rplboot` **to** `/rplboot_orig`:

```
# mv /rplboot /rplboot_orig
```

2. Stop the NFS server:

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

3. Start the NFS server:

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

4. Kill the `in.rarpd` daemon:

```
# kill -9 PID
```

where *PID* is the Process ID of the `in.rarpd` daemon

5. Kill the `rpc.bootparamd` daemon:

```
# kill -9 PID
```

where *PID* is the Process ID of the `rpc.bootparamd` daemon

You are now able to run Dynamic Reconfiguration successfully to detach the UE10000 board. During the Dynamic Reconfiguration operation, you can not service any diskless clients or AutoClient systems. To restart client services after the successful Dynamic Reconfiguration operation:

1. Move `/rplboot_orig` to `/rplboot`:

```
# mv /rplboot_orig /rplboot
```

2. Stop the NFS server:

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

3. Start the NFS server:

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

4. Run the `in.rarpd` daemon:

```
# /usr/sbin/in.rarpd -a &
```

5. Run the `rpc.bootparamd` daemon:

```
# /usr/sbin/rpc.bootparamd &
```

Remote Console Bugs

The following bugs occur when the Remote Console feature is enabled.

`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, for example, 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 `Control-D` or the `exit` Command Are Executed (4196862)

If you press `Control-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 `Control-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 `Control-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.

File System Bugs

UFS File System Panic (4241656)

Very infrequently, while doing disk I/O, the UFS file system will panic with the error message:

```
panic, ufs_fault_v+0x4c:, call, real_panic_v, allocgblk:
can't find blk      in cyl .....
```

Workaround: Reboot the system and run the `fsck` command on the affected file system to recover from the problem.

Java Development Kit (JDK™) Bugs

JDK 1.1.7_08: 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.

JDK 1.2.1_03: Underlined Text Displays Slowly on a Non-local Host (4170221)

When you set the DISPLAY environment variable to a host other than the one running the virtual machine, underlined text in a network browser displays at a much slower rate than text that is not underlined.

Workaround: Do not use remote display.

JDK 1.2.1_03: Text Rendering Performance Regression From JDK 1.1.7 and Earlier Releases (4210230)

Text rendering with JDK 1.2 is much slower than with JDK 1.1.7 and earlier releases, including rendering on platforms with Direct Graphics Access support (for example: cg6, ffb frame buffers).

Workaround: Keep socket writes to less than 64 kbytes.

AnswerBook2 Documentation Bugs

AnswerBook2 Print Function Disabled for Asian Locales (4163661)

The AnswerBook2 Print function does not work for Asian (Korean, Simplified Chinese, and Traditional Chinese) documents.

Workaround: To print AnswerBook2 pages in these locales, use your browser's print function.

ab2cd Causes TCL Errors When Started With LC_ALL Set to a Value Other Than C or Blank (4249211)

When running the AnswerBook2 server with the command `ab2cd`, if `LC_ALL` is set to a value other than `C` or blank, you will see the following error message:


```
Internal Server Plugin Error
../dwinterp/dwinterp.cc reported
```

```
TCL script exception:
```

```
File not found: "/tmp/.ab2/data/config/dynaweb.dwc"
-----
```

```
Please notify your System Administrator.../dws/dwspns.cc reported "Null
Pointer" exception caught in ../dws/dwspns.cc, line 244
Please notify your System Administrator.
```

Workaround: Before starting `ab2cd`, type the following command:

```
# unsetenv LC_ALL
```

Solaris Runtime Bugs

Man Page for `netstat` Truncated (4246745)

When a user tries to access the `netstat(1M)` reference manual page using the `man` command, the page does not print completely. The problem arises because of an `nroff` bug that occurs only in the C locale. The `nroff` file generated by the `man` command contains invalid characters that may cause a core dump.

The same behavior occurs with the `netmask(1M)` and `m64config(1M)` reference manual pages.

Workaround: Use AnswerBook2 to view the complete `netstat(1M)`, `netmask(1M)`, and `m64config(1M)` reference manual pages.

Localization Bugs

OpenWindows Is Not Supported As a Desktop Option In Some Locales

OpenWindows™ is not supported as a desktop option in the following locales and partial locales:

TABLE 2-1 Desktop Options Not Supported

Desktop Option	Name of Country
en_GB.ISO8859-15	Britain
de.ISO8859-15	Germany
fr.ISO8859-15	France
it.ISO8859-15	Italy
es.ISO8859-15	Spain
sv.ISO8859-15	Sweden
da.ISO8859-15	Denmark
de_AT.ISO8859-15	Austria
en_IE.ISO8859-15	Ireland
pt.ISO8859-15	Portugal
nl_BE.ISO8859-15	Belgium
nl.ISO8859-15	Netherlands
fr_BE.ISO8859-15	Belgium
fi.ISO8859-15	Finland
el_EURO	Greece
he	Israel
ar	Egypt
de.UTF-8	Germany

TABLE 2-1 Desktop Options Not Supported *(continued)*

Desktop Option	Name of Country
fr.UTF-8	France
it.UTF-8	Italy
es.UTF-8	Spain
sv.UTF-8	Sweden
en_EU.UTF-8	Europe

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*, *Solaris 7 Software Developer Supplement*, and the *Solaris 7 User 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 11/99 CD. If you boot from the Solaris 7 11/99 CD, the `new_features` file is located in the directory:

```
/cdrom/sol_7_1199_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 11/99, 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.

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 11/99 CD. If you boot from the Solaris 7 11/99 CD, the `eof` file is located in the directory:

```
/cdrom/sol_7_1199_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 11/99, 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: "XGL 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
```


Documentation Issues

This chapter describes known documentation problems. You may also want to refer to the online `documentation_issues` file in the `SUNWrdm` package on the Solaris 7 11/99 CD for additional documentation problems.

Note - The information in this chapter supplements any information listed in the `documentation_issues` file that is part of the `SUNWrdm` package on the Solaris 7 11/99 CD. If you boot from the Solaris 7 11/99 CD, the `documentation_issues` file is located in the directory:

```
/cdrom/sol_7_1199_sparc/s0/Solaris_2.7/Docs/release_info/C
```

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

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

Note - The name of this product is Solaris 7 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.

Documentation Errata

Documentation Errata for AnswerBook2 Server

Book Affected: Traditional Chinese version of *Installing and Administering an AnswerBook2 Server*

In the Traditional Chinese version of the book *Installing and Administering an AnswerBook2 Server*, several commands have been translated to show Chinese

commands or parameters. These commands should remain in their original form, as shown in the English version of the book.

To read the correct examples of commands and parameters, refer to the English version of *Installing and Administering an AnswerBook2 Server*.

Maintenance Update Patch List

The patches listed in this appendix are on the Solaris 7 11/99 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 11/99 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 11/99 CD includes a known and tested level of patches; however, patches cannot be backed out of the Solaris 7 11/99 release.

Patch List

TO BE ADDED