

Solaris 7 (Intel Platform Edition) 8/ 99 Release Notes

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> Part No: 806-1152-10 August 1999

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Preface

The SolarisTM 7 (Intel Platform Edition) 8/99 Release Notes contain installation problem details and other information that was not available until immediately before the release of the Solaris 7 8/99 operating environment, too late to be included in the SUNWrdm package that is resident on the Solaris 7 8/99 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 8/99 CD, information about this release can be found in the directory:

```
/cdrom/sol_7_899_x86/s2/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 8/99, 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.

Note - The term "x86" refers to the Intel 8086 family of microprocessor chips, including the Pentium, Pentium Pro, and Pentium II, Pentium II Xeon, Pentimum III, Celeron processors, and compatible microprocessor chips made by AMD and Cyrix.In this document the term "x86" refers to the overall platform architecture, whereas "Intel Platform Edition" appears in the product name.

Who Should Use This Book

These notes are for users and system administrators who are installing and using the Solaris 7 8/99 operating environment.

Related Books

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

- Solaris 7 (Intel Platform Edition) Start Here
- Solaris 7 (Intel 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 AnswerBook 2^{TM} collection has been updated, you will find a *Solaris 7 Supplement* in that collection.

Note - The *Solaris 7 (Intel Platform Edition) Hardware Compatibility List* and *Solaris 7 (Intel Platform Edition) Device Configuration Guide* have changed since publication. The changes are included in Appendix B and Appendix C of these Release Notes.

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_899_x86/s2/Solaris_2.7/Docs/release_info/C directory on the Solaris 7 8/99 CD.

The /cdrom/sol_7_899_x86/s2/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

Solaris Certification Program

You can find information about the Solaris hardware certification program at http://soldc.sun.com/support/certify/program.html. Because certification testing is an ongoing process, updated Hardware Compatibility Lists are produced between releases; they are available at http://soldc.sun.com/support/drivers/hcl/hcl.html.

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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 .login file. Use ls -a to list all files. machine_name% you have mail.
AaBbCc123	What you type, contrasted with on-screen computer output	machine_name% su Password:
AaBbCc123	Command-line placeholder: replace with a real name or value	To delete a file, type rm filename.
AaBbCc123	Book titles, new 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 $7\,8/99$ 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 8/99 CD. If you boot from the Solaris 7 8/99 CD, the installation_bugs file is located in the directory:

/cdrom/sol_7_899_x86/s2/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 8/99, 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 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.

The Root (/) File System Extends Beyond HBA Cylinder 1023 (4062008)

If a manual file system layout is used in Solaris Web Start, an error message may display after the start of an installation because too much space has been allocated in the root (/) file system.

Workaround: Restart Solaris Web Start and use the Automatic File System Layout.

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)
```

(continued)

```
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.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

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 TM 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 $^{\text{\tiny TM}}$) 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.

4

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 Before the Start of an Interactive Installation



Caution - Be sure to read bug description ID 4121281 before you start upgrading your x86 based system to the Solaris 7 8/99 operating environment.

DiskSuite May Cause Data Loss (4121281)

If you are running DiskSuite[™] and upgrading to Solaris 7, you must also upgrade to DiskSuite 4.2. The DiskSuite 4.2 distribution includes a script called metacvt that automates removal and replacement of the metadb replicas. You can use that script to change the SCSI driver name stored in the replicas from cmdk to sd when you upgrade to Solaris 7 and DiskSuite 4.2.

Workaround: To avoid potential data loss during upgrades to the Solaris 7 operating environment, you must save the system's meta device configurations in text files and remove their metadb replicas before upgrading any x86 based system that is running DiskSuite. After you finish upgrading your x86 based system, you must restore the meta device configurations by using the DiskSuite command line interface.

The *DiskSuite Version 4.2 Release Notes* contain a procedure for saving metadb configurations, removing metadb replicas, upgrading x86 based systems to the Solaris 7 operating environment, upgrading DiskSuite to version 4.2, and restoring meta device configurations. Bourne shell scripts that automate the procedure are available for the Solaris 7 operating environment.

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 You Need to Know About Before the Start of an Upgrade

Be sure to read bug description ID 4121281 mentioned in "Installation Bugs That Occur Before the Start of an Interactive Installation" on page 5 earlier in this chapter as well as any other bug description listed in this section before you start upgrading your x86 based system to the Solaris 7 8/99 operating environment. This problem may cause data loss.

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.

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

Patches located in the Patches directory on the Solaris 7 8/99 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.

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.

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 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:
 - 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 8/99 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

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 metacluster. 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 8/99 operating environment, the Web Start installer installs the End User metacluster. For Server editions of the Solaris 7 8/99 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
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	•	•	•	•

 TABLE 1-1
 Locales in Each Metacluster (continued)

Locale	Description	Core	End User	Developer	Entire
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)	•	•	•	•
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)	•	•	•	•

 TABLE 1-1
 Locales in Each Metacluster (continued)

Locale	Description	Core	End User	Developer	Entire
en_US.UTF-8	USA - English (UTF-8)			•	٠
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	•	•	•	•
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	•			•

 TABLE 1-1
 Locales in Each Metacluster (continued)

Locale	Description	Core	End User	Developer	Entire
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.IS08859-15	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)	•	•	•	•
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	•			•

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 TABLE 1-1
 Locales in Each Metacluster (continued)

Locale	Description	Core	End User	Developer	Entire
nl_BE.ISO8859-15	Netherlands/ Belgium (ISO8859-15)	•			•
no	Norway	•			•
no_NY	Nynorsk	•			•
nr	Bosnian (ISO 8859-2)	•			•
pl	Poland	•			•
pt	Portugal	•			•
pt.IS08859-15	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)	•	•	•	•
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:

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.

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

The fr.UTF-8 Locale Displays ab2cd Installation Messages in English (4248169)

If you are using the fr.UTF-8 french locale you will see ab2cd installation status and error messages displayed in English. This occurs because on the Solaris 7 8/99 Documentation CD, the .ab2cd_msgs/i386/fr.UTF-8/ directory was incorrectly named .ab2cd_msgs/i386/fr..UTF-8/.

Workaround: None.

Solstice AutoClient Installation Issue

The Solstice AutoClient product is not included in the SEAS 3.0 product shipped with the Solaris 7 8/99 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 8/99 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 8/99 CD. If you boot from the Solaris 7 8/99 CD, the runtime_bugs file is located in the directory:

/cdrom/sol_7_899_x86/s2/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 8/99, 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 20) 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.

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 <code>exit</code> 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 <code>init</code> command was initially executed instead of the console on which Control—D or the <code>exit</code> 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 sulogin 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, alloccgblk:
can't find blk
                 in cyl \dots
```

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_07: 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 1.1.7_07: 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 VIRTCUBESIZE. Set it to a power of 2 between 4 and 32. The default value is 32.

setenv VIRTCUBESIZE 8

JDK 1.2.1_02a: 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_02a: 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.../dwsp/dwspns.cc reported "Null
Pointer" exception caught in ../dwsp/dwspns.cc, line 244
```

(continued)

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

 $\mathsf{OpenWindows}^{\scriptscriptstyle\mathsf{TM}}$ 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.IS08859-15	France
it.IS08859-15	Italy
es.IS08859-15	Spain
sv.IS08859-15	Sweden
da.ISO8859-15	Denmark
de_AT.ISO8859-15	Austria
en_IE.ISO8859-15	Ireland
pt.IS08859-15	Portugal
nl_BE.IS08859-15	Belgium
nl.IS08859-15	Netherlands
fr_BE.IS08859-15	Belgium
fi.IS08859-15	Finland
el_EURO	Greece
he	Israel
ar	Egypt
de.UTF-8	Germany
fr.UTF-8	France

 TABLE 2-1
 Desktop Options Not Supported (continued)

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

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 8/99 CD. If you boot from the Solaris 7 8/99 CD, the eof file is located in the directory:

/cdrom/sol_7_899_x86/s2/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 8/99, 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

The Console Subsystem for the Solaris Operating Environment, Intel Platform Edition Is Being Replaced

The replacement is more compatible with the equivalent subsystem used on SPARC based systems. Therefore, it provides for future extensibility. It invalidates a large number of undocumented and unsupported interfaces, as well as some documented

The following documented interfaces may no longer be supported in a future release:

- pcmapkeys(1)
- loadfont(1)
- loadfont(4)

If you want to program the keyboard, use loadkeys(1) instead of pcmapkeys(1). In console mode, there will no longer be a mechanism to load a different font in the video card. The only available font is ISO8859-1

The following undocumented and unsupported interfaces may no longer be available in a future release:

- ioctls listed in /usr/include/sys/kd.h
- ioctls listed in /usr/include/sys/vt.h
- Support for Virtual Terminals
- /dev/vt* special files to support virtual terminals

The terminal type for the console will beis "sun-color" rather than AT386.

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 8/99 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 8/99 CD. If you boot from the Solaris 7 8/99 CD, the documentation_issues file is located in the directory:

/cdrom/sol_7_899_x86/s2/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*.

Documentation Errata for Solaris 7 8/99 Installation Supplement

Book Affected: Solaris 7 8/99 Installation Supplement

In the *Solaris 7 8/99 Installation Supplement*, it is noted that if you are running Solstice AdminSuite 2.3 software and want to add OS services to your server, you need to install the Solstice AminSuite 2.3 patch number 104468-06. This patch applies to the Solaris 7 *SPARC Platform Edition*. If you are running the Solaris 7 *Intel Platform Edition*, install the Solstice AdminSuite 2.3 patch number 104469-06.

Maintenance Update Patch List

The patches listed in this appendix are are on the Solaris 7 8/99 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 8/99 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 8/99 CD includes a known and tested level of patches; however, patches cannot be backed out of the Solaris 7 8/99 release.

Patch List

```
106542-06 : SunOS 5.7_x86: kernel update patch
        1264344 4104844 4115711 4115715 4120985 4122009 4136059 4138467 4139770 4143503
4147402\ 4152055\ 4155392\ 4163335\ 4165983\ 4166495\ 4167270\ 4168739\ 4170410\ 4170500\ 4170602
4173696 4174167 4174331 4174354 4175299 4175558 4176940 4177496 4178298 4178455 4179342
4179407 4179883 4181570 4182043 4182047 4182227 4182234 4182240 4182970 4184015 4184430
4184786 4184788 4184852 4184877 4185110 4185366 4185742 4186155 4186202 4188005 4188212
4190083 4190138 4190405 4190466 4190566 4190796 4190807 4190812 4190962 4190995 4191544
4192056 4192195 4192420 4192639 4193375 4193378 4193379 4193380 4193381 4193383 4193467
4193657\ 4194509\ 4196986\ 4196994\ 4196998\ 4197140\ 4197418\ 4197422\ 4197461\ 4198134\ 4198723
4198942 4199032 4199042 4199606 4200121 4200447 4200817 4200972 4201921 4202082 4203157
4204046 4205009 4205612 4206401 4212524 4212620 4212634 4212925 4214611 4214739 4217122
4219071 4223353 4224086 4226963 4233009 4236372 4238230 4240566 4242668
106734-06 : SunOS 5.7_x86: Create a patch analyzer
        4170691 4175875 4178977 4132282 4186583 4186586 4186587 4186588 4242739
106737-02 : OpenWindows 3.6.1_x86: mailtool vacation security patch
        4170200
106794-03 : SunOS 5.7_x86: ufsdump and ufsrestore patch
        4077276 4132365 4145883 4169853 4184189 4240566
106821-03 : SunOS 5.7_x86: ctl print utility patch
```

4172142 4173334

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

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

106927-04 : SunOS 5.7_x86: sdtudctool, sdtudc_register and sdtudc_extract patch 4199125 4178971 4183926 4178952 4178964 4162315 4176705 4179808 4192450 4189691 4212116 4209084

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

106931-08 : SunOS 5.7_x86: European locale updates 4179837 4175110 4193529 4203951

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

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

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

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

106943-03: SunOS 5.7_x86: libnsl, rpc.nisd and nis_cachemgr patch 4152002 4157559 4161969 4162879 4186012

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

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

106951-06 : SunOS 5.7_x86: linker patch 4159122 4165487 4173576 4174468 4176579 4176796 4179880 4188527 4188843 4194264 4205087 4214649 4215164 4215587 4225937 4234657 4235241

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

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

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

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

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

106979-08 : SunOS 5.7_x86: fix for sysid 4166260 1213369 4204782 4205403 4207595 4208607 4211403 4225369 4229542 4236194 4235726

106981-05 : SunOS 5.7_x86: libthread patch 4157739 4173285 4173422 4189981 4207409 4209710 4209713 4220253

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

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

107002-01 : CDE 1.3_x86: Actions patch 4157154

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

107015-04 : SunOS 5.7_x86: sd bug fixes. 4170911 4165914 4170657 4182538 4165905 4171479 4232401 4220005

107016-01: SunOS 5.7_x86: NCR pcplusmp patch

- 107017-01 : SunOS 5.7_x86: SPWR Patch 4155766 4183567
- 107019-01 : SunOS 5.7_x86: /usr/sbin/in.named patch 4134616
- 107023-03 : CDE 1.3_x86: Calendar Manager patch 4184188 4117156 4230754
- 107025-01 : SunOS 5.7_x86: ata bug fixes. 4183194
- 107032-01 : SunOS 5.7_x86: /usr/ucb/ucblinks patch 4161576
- 107034-01 : Solaris 7_x86: xetops crashes for BIG5 4188052
- 107039-01 : SunOS 5.7_x86: apropos/catman/man/whatis patch 4107178 4154565
- 107043-03 : SunOS 5.7_x86: JFP install/sysadm messages patch 4217570 4221453
- 107045-01 : SunOS 5.7_x86: Russian and Polish print failure on some printers 4190105
- 107050-01 : Solaris 7_x86: dtlogin language menu displays wrong info 4176962
- 107060-01 : SunOS 5.7_x86: /usr/bin/sort and /usr/xpg4/bin/sort patch 4181185
- 107073-01 : CDE 1.3_x86: Spell Checker patch 4185079
- 107075-01 : SunOS 5.7_x86: SUNWultratest doesn't support sun4us platform 4190729
- 107077-01 : SunOS 5.7_x86: /usr/kernel/drv/vol patch 4181968
- 107082-06 : Motif 1.2.7_x86: Runtime library patch 4159034 4149711 4171291 4170491 4162369 4165677 4171723 4174322 4183749 4186734 4186826 4128879 4191550 4197157 4197929 4197924 4207929 4209526 4211104 4224885 4226996 4191346 4201602 4219810
- 107116-02 : SunOS 5.7_x86: LP Patch 4085677 4095132 4129917 4156106 4165358 4167443 4179341

107118-05 : SunOS 5.7_x86: libbsm patch 4166626 4167174 4168892 4172111 4172702 4174308 4179861 4182072 4187811 4188193 4194454 4196408 4196541 4218800

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

107125-02 : SunOS 5.7_x86: JFP message files patch 4195663 4240891

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

107129-01 : SunOS 5.7_x86: /usr/sbin/i86/sysdef patch 4187740

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

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

107149-02 : SunOS 5.7_x86: /kernel/fs/cachefs patch 4170190 4171181

107172-03 : SunOS 5.7_x86: Fixes for patchadd and patchrm 4186941 4176890 4190866 4150762 4193454 4194281 4194308 4224092 4245279

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

107181-06 : CDE 1.3_x86: dtlogin patch 4178402 4178408 4178415 4178431 4184874 4189472 4190072 4190214 4201306 4205939 4198977 4225029 4225037 4213502 4170777

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

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

107201-05 : CDE 1.3_x86: dtmail patch 4190570 4201459 4191180 4180102 4134913

107210-06 : Solaris 7_x86: WOS Message Updates

107220-01 : CDE 1.3_x86: dtprintinfo patch 4007233 4191060 4191065

107227-04 : CDE 1.3_x86: dtwm patch 4169837 4209745 4212855 4230855

- 107234-01 : OpenWindows 3.6.1_x86: xterm patch 4184297
- 107249-01 : CDE 1.3_x86: sdtaudio patch 4189907
- $\begin{array}{lll} 107260\text{-}01 & : & SunOS \ 5.7_x86: \ /usr/sbin/vold \ patch \\ & 4194660 \end{array}$
- 107286-01 : SunOS 5.7_x86: passwd & pam_unix.so.1 patch 4172457
- 107294-01 : SunOS 5.7_x86: libgss.so.1 and gsscred patch 4195223
- 107307-01 : CDE 1.3_x86: dtfile patch 1194724 4195992 4185042
- 107317-01 : SunOS 5.7_x86: localeconv() returns wrong results for French 4192615
- 107323-01 : SunOS 5.7_x86: /etc/driver_aliases patch 4193228
- 107328-04 : OpenWindows 3.6_x86: Common library, monitors, and configuration 4187574 4205588 4202883 4218668 4220038 4058078 4166376 4229567 4164774 4221251 4221709 4218791 4059766 4172554 4213037 4219187 4206802
- 107331-01 : SunOS 5.7_x86: /usr/sbin/ntpdate patch 4201436
- 107333-02 : SunOS 5.7_x86: libadm patch 4197828
- 107339-01 : OpenWindows 3.6.1_x86: KCMS configure security vulnerability patch 4199722
- $\begin{array}{lll} 107391\text{-}02 & : & SunOS \ 5.6_x86: \ pcplusmp \ patch \\ & 4187580 \ 4217634 \end{array}$
- 107393-05 : SunOS 5.7_x86: bootconf bug fixes. 4162292 4173065 4237204 4219717 4219988 4202793 4164753 4164755 4195019 4208893 4230493
- 107402-01 : SunOS 5.7_x86: /usr/bin/iostat patch 4085790
- $\begin{array}{rll} 107404\text{-}01 & : & SunOS \ 5.7_x86: \ rlmod \ \& \ telmod \ patch \\ & 4204044 \end{array}$
- 107410-01 : Solaris 7_x86: dtfile Menu is localized 4181159

- 107411-03 : Solaris 7_x86: support IBM Cp837 and Cp874 iconv modules(th_TH) $4212930\ 4228950$
- 107414-02 : Solaris 7_x86: Fix Translation "Incomplete last line" in vi4202972
- 107416-01 : Solaris 7_x86: Result of TAB in xetops isn't the same with vi $4202006\,$
- 107420-01 : Solaris 7_x86: missing snapshot files 4181454
- 107431-01 : SunOS 5.7_x86: Installer utility used by NCR breaks under Solaris 7 4205603
- 107433-02: SunOS 5.7_x86: ctlmp printing utility patch. $4210384\ 4210140$
- 107439-02 : SunOS 5.7_x86: iso8859-15 locale copy and paste fix $4203951\ 4244676$
- $\begin{array}{rll} 107442\text{-}01 & : & SunOS \ 5.7_x86: \ \ /usr/bin/mailx \ patch \\ & 4207629 \end{array}$
- 107444-05 : SunOS 5.7_x86: packaging utilities patch 4155622 4176616 4197238 4199317 4222097 4226928 4244631 4249447
- 107447-01 : SunOS 5.7_x86: /kernel/misc/i2o_msg patch 4203495
- 107449-01 : SunOS 5.7_x86: /usr/lib/fs/cachefs/cachefsd patch 4204223
- $107452\text{-}02 : SunOS 5.7_x86: /usr/sbin/cron patch \\ 4177427 \ 4184825 \ 4196408$
- 107455-03 : SunOS 5.7_x86: /usr/bin/ftp patch 4138598 4193146 4197316
- 107457-01 : SunOS 5.7_x86: /etc/nsswitch.dns patch 1194875
- 107461-03 : SunOS 5.7_x86: st driver patch 4166568 4166574 4166583 4206636 4208102 4211607
- $107463\text{-}01 : SunOS 5.7_x86: /kernel/sched/TS patch \\ 4201921$
- 107500-02 : SunOS 5.7_x86: koi8-R -cde & ow hanged before dtlogin screen

4192535

- 107537-01 : SunOS 5.7_x86: kd patch 4203845
- 107552-01 : SunOS 5.7_x86: /usr/bin/date and /usr/xpg4/bin/date patch 4167131
- 107554-01 : SunOS 5.7_x86: /usr/kernel/drv/ipdcm patch 4193690
- 107556-01 : SunOS 5.7_x86: /usr/lib/libldap.so.3 patch 4182937 4200010
- 107578-01 : SunOS 5.7_x86: japanese installer utility patch
- 107585-01 : SunOS 5.7_x86: /usr/lib/vold/dev_cdrom.so.1 patch 4062297
- 107588-01 : SunOS 5.7_x86: /usr/lib/acct/lastlogin patch 4212054
- 107625-01 : SunOS 5.7_x86: /usr/lib/fs/ufs/df patch
- 107629-01 : SunOS 5.7_x86: sdtwebstart.dt 599 l10n_euro message updates
- 107639-01 : Solaris 7_x86: Fix the problem with font size change in dtstyle 4201168
- 107679-02 : OpenWindows 3.6_x86: Updated ATI video support. 4212681 4206075 4228307 4233396
- 107685-01 : SunOS 5.7_x86: sendmail patch 4214238
- 107690-01 : CDE 1.3_x86 Actions patch : 4215879
- 107692-01 : SunOS 5.7_x86: l10n_euro message updates for SUNW*is SUNW*os 599
- 107701-01 : Solaris 7_x86: FIxes the installation warning for zh.GBK 4222076
- $\begin{array}{lll} 107703\text{-}01 & : & CDE \ 1.3_x86: & dtsession \ patch \\ 4197661 & & \end{array}$

107710-02 : SunOS 5.7_x86: libssasnmp/libssagent/snmpdx/mibiisa patch 4144431 4166235 4171108 4172607 4176076 4178419 4185282 4186361 4189025 4208419 4218931 4219323 4224859 4224980 4232111 4233051 4237139

107712-01 : cde 1.3_x86: sdtvolcheck patch 4004473

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

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

107785-03 : SunOS 5.7_x86: Manual Pages for Solaris 7 update 3 4246662 4242931 4184788 4165909 4195648 4166583 4214692 4214697 4167270 4169315 $4180075\ 4193614\ 4189427\ 4173822\ 4186746\ 1070678\ 4136939\ 4153439\ 4162004\ 4171658\ 4170933$ $4169829\ 4146611\ 4147612\ 4165502\ 4166848\ 4178133\ 4179296\ 4181039\ 4181145$

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

107795-01 : SunOS 5.7_x86: ASET patch 4202027

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

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

107808-02 : OpenWindows 3.6.1_x86: xrdb patch 4221044 4237304

107810-02 : SunOS 5.7_x86: SPECIAL PATCH 4234651

107812-01 : SunOS 5.7_x86: Japanaese iconv patch 4216797 4232724

107814-01 : SunOS 5.7_x86: Japanaese UTF-8 iconv patch 4216797 4221058 4232724

107818-01 : Solaris 7_x86: Fix Garbage characters display 4206605

107835-01 : SunOS 5.7_x86: /usr/include/sys/dkio.h patch 4201824

107837-01 : SunOS 5.7_x86: /usr/sbin/format patch 4165909

107839-01 : SunOS 5.7_x86: libtnfctl patch 4192482

- 107842-01 : SunOS 5.7_x86: /kernel/misc/rpcsec patch 4198273
- 107844-01 : SunOS 5.7_x86: /sbin/init and /usr/sbin/init patch 4225983
- 107878-01 : SunOS 5.7_x86: /kernel/drv/cadp patch
 4232354 4218072 4213974 4215327 4217029 4211748 4202184 4210415 4211749 4210505
 4209951 4203809 4205612 4203811 4204641 4205186 4204682 4199541 4202188 4206303 4206704
 4206791 4206871 4207140 4207152 4204603 4197248 4204285 4202186 4202194 4202187 4140090
 4140102 4140103 4225895 4209852
- 107879-02 : SunOS 5.7_x86: /kernel/drv/ncrs patch 4189732 4198547 4205488 4207541 4207848 4212991 4230280 4230283 4009709 4011181 4017961 4155184 4173622 4215681 4230736 4165916 4174395 4165916
- 107880-05 : SunOS 5.7_x86: bootconf bug fixes. 4202793 4164753 4164755 4195019 4208893 4230493 4237204
- 107892-01 : SunOS 5.7_x86: Openwindows not supported by some euro locales 4174253
- 107920-01 : SunOS 5.7_x86: /usr/include/sys/mhd.h patch 4236793
- 107927-02 : SunOS 5.7_x86: /usr/include/sys/kbio.h patch 4240239
- 107934-01 : SunOS 5.7_x86: l10n_euro message updates for SUNW*is SUNW*os 899
- 107973-01 : SunOS 5.7_x86: /usr/sbin/static/rcp patch 4240566
- 108000-04 : SunOS 5.7_x86: cadp bug fixes. 4244178, 4244152, 4254328
- 108030-01 : SunOS 5.7_x86: S899 u3 prodreg fix for Java 1.1 and Java 1.2 VM 4244075

Hardware Compatibility List (Intel Platform Edition) 3/99, 5/99, and 8/99

This appendix provides information about new and enhanced peripheral and system platform support in the Solaris 7 (Intel Platform Edition) 3/99, 5/99 and 8/99 computing environments.

Note - The information in this appendix supplements the *Solaris 7 (Intel Platform Edition) Hardware Compatibility List.*

Solaris 7 5/99 Hardware Compatibility List

Added Support for Video Display Devices

Support for the following video display devices has been added.

TABLE B-1 Video Display Devices

				Resolution and Color Depth											
				800x 600				1024x 768		1152x 900		1280x 1024		16 12	00x 00
Vendor	Model	Bus	Video Chip	8	24	8	24	8	24	8	24	8	24		
3Dlabs	Permedia 2	PCI/ AGP	3Dlabs Permedia 2	v	v	√	v	✓	√	v	√	V			
Diamond	Fire GL 1000 Pro	AGP	3Dlabs Permedia 2	v	v	V	v	✓	√	✓	√	v			
Matrox	Millennium G200	AGP	MGA-G200	v	√	v	✓	✓	✓	v	✓	✓	√		
	Mystique G200	AGP	MGA-G200	~	√	v	✓	√	√	√	√	√	√		

Solaris 7 3/99 Hardware Compatibility List

Added Support for Video Display Devices

Support for the following video display devices has been added.

TABLE B-2 Video Display Devices

				Resolution and Color Deptl									
				800x 600				1152x 900		1280x 1024		16 12	00x 00
Vendor	Model	Bus	Video Chip	8	24	8	24	8	24	8	24	8	24
Cirrus Logic	5465 ¹	PCI/ AGP	Cirrus Logic GD5465	v	v	v	✓	v		v		v	
S3	Trio3D ¹	PCI/ AGP	S3 Trio3D (86E366)	V	v	~	√	✓		✓		✓	

^{1.} Sun does not guarantee that every video device with this chip will work, but it is possible that your model can be used successfully.

Device Configuration Guide (Intel Platform Edition) 3/99, 5/99, and 8/99

This appendix provides information about x86 hardware devices that are supported in the Solaris 7 (Intel Platform Edition) 3/99, 5/99, and 8/99 computing environments and contains Device Reference Pages to solve configuration problems.

Note - The information in this appendix supplements the *Solaris 7 (Intel Platform Edition) Device Configuration Guide.*

Solaris 7 8/99 Device Configuration Guide

Adaptec AHA-2940U2B, 2940U2W, 2940U2/OEM, 2950U2B, 3950U2B HBAs

Solaris Device Driver: cadp

Device Types: SCSI-2, SCSI-3, Ultra2 SCSI

Adapters: Adaptec AHA-2940U2B, AHA-2940U2W,

AHA-2940U2/OEM, AHA-2950U2B,

AHA-3950U2B

AIC-7890AB, AIC-7891B, AIC-7896, AIC-7897 Chips: PCI

Preconfiguration Information

Bus Type:

- Multi-initiator configurations are not supported.
- The Plug N Play SCAM Support option is not supported.
- Ensure that the Adaptec SCSISelect BIOS option Reset SCSI Bus at IC Initialization (under the Advanced Configuration Options menu) is set to Enabled. Run the SCSISelect utility by pressing Ctrl-A when you see the Adaptec banner during system boot.
- Reboot the system after you install patches.
- If you are both upgrading your Solaris Intel Platform Edition installation and adding a new device driver, you must first upgrade Solaris, then reboot your system, and then apply the Driver Update (DU), as follows.
 - 1. Perform the Solaris upgrade. Do not apply the cadp DU at this time.
 - 2. Reboot your system.
 - 3. When the system has rebooted successfully, insert the DU diskette into the diskette drive and apply the DU as follows.

Mount the DOS formatted file system:

```
# mount -Fpcfs /dev/diskette0 /mnt
```

Change directories:

```
# cd /mnt/DU/sol_27/i86pc/Tools
```

Install the DU:

```
# . ./install.sh -i
```

Perform a reconfiguration reboot.

Known Problems and Limitations

■ If you experience problems when using a narrow SCSI CD-ROM drive on the internal wide interface, disable "negotiate wide," "negotiate sync," or both for that device in the Adaptec configuration utility.

- If you experience problems when using the narrow internal connector, then disable "de-selection" in the Adaptec configuration utility.
- The Fujitsu narrow disk (M1603SAU) has been observed reselecting with an invalid queue tag ID. This is a violation of the SCSI protocol and it causes the cadp driver to behave erroneously. Because this is difficult to guard against, it is best to disable tagged queuing for these targets.
 - Use the iostat -E command to determine if you have a Fujitsu M1603S-512 disk. If you do, edit the /kernel/drv/cadp.conf file and add the property target n -scsi -options=0x1f78, where n is the target number.
- The IBM external wide disk (DFHSS2W, Revision 1717) is not supported.

Configuration Procedure

Using the Adaptec configuration utility:

- Configure each SCSI device to have a unique SCSI ID. On the Advanced Configuration Options menu, set Plug N Play SCAM Support to Disabled.
 - Ensure that devices on either end of the SCSI chain are terminated. When mixing wide (16 bits) and narrow (8 bits) devices on the same wide chain, ensure that a wide device is at the end of the chain. If a narrow device is placed at the end of the chain, the wide devices on the same chain only have the low byte terminated, and this is an illegal configuration.
- If there is more than one controller (or an embedded controller), try to use one IRQ per controller.
- Enable bus mastering for the slot(s) with your host bus adapter(s), when asked.
- For older disk drives, tape drives, and most CD-ROM devices, make sure the maximum SCSI data transfer speed is set to 5.0 Mbps.
- Enable support for disks larger than 1 Gbyte if applicable.

LSI Logic (formerly Symbios Logic or NCR) 53C810, 53C810A, 53C815, 53C820, 53C825, 53C825A, 53C860, 53C875, 53C875J, 53C876, 53C895 HBAs

Solaris Device Driver: ncrs

Device Type: SCSI

Adapters: LSI Logic (formerly Symbios Logic or NCR)

53C810, 53C810A, 53C815, 53C820, 53C825, 53C825A, 53C860, 53C875, 53C875J, 53C876,

53C895

Bus Type: PCI

Preconfiguration Information

Known Problems and Limitations

- Because the NCR BIOS and the Solaris fdisk program may be incompatible, use the DOS version of FDISK (or equivalent utility) to create an entry in the FDISK partition table before installing the Solaris software. Create at least a 1-cylinder DOS partition starting at cylinder 0. If the DOS partition isn't created, the system won't reboot after Solaris installation.
- An add-in card with the 53C815, 53C820, 53C825, or 53C825A controller can only be used in a bus-mastering PCI slot. On motherboards with only two PCI slots, both of the PCI slots are usually bus-master capable. On motherboards with three or more PCI slots, and on motherboards with several embedded PCI controllers, some of the PCI slots may not be bus-master capable.
- Some PCI motherboards with the LSI Logic SDMS BIOS and an embedded 53C810 or 53C810A controller do not work correctly with the 53C82x family of add-in cards that also have an LSI Logic SDMS BIOS. Upgrading the motherboard BIOS, the add-in card, or both may prevent these conflicts.
- On some early PCI systems with the 53C810 chip on the motherboard, the interrupt pin on the chip is not connected. Such a system cannot be used with Solaris software.
- Do not attempt to connect wide targets to the narrow connector of the cards listed as supporting narrow disks. These configurations are not supported.
- The Solaris ncrs driver does not support the Wide SCSI option. Some add-in 53C8xx cards include connectors for both narrow cables (8-bit SCSI A cables) and

wide cables (16-bit SCSI P cables). You can connect devices to the SCSI Wide connectors using SCSI P cables, but the Solaris nors driver will not initiate or accept the Wide Data Transfer option. The attached devices will function in 8-bit narrow mode.

- If your adapter supports the LSI Logic SCSI Configuration utility, which can be accessed by pressing Control-C, do not change the value of the Host SCSI ID (an option under the Adapter Setup menu) to anything but 7.
- If you experience problems with old target devices, add the following entry to the /kernel/drv/ncrs.conf file:

```
targetN-scsi-options = 0x0;
```

where *N* is the ID of the failing target.

■ If you are using a Conner 10805 narrow SCSI drive, you might see warnings like:

```
WARNING: /pci@0,0/pci1000,f@d(ncrs0):
invalid reselection(0,0)
WARNING: /pci@0,0/pci1000,f@d/sd@0,0(sd0):
SCSI transport failed: 'reset: retrying command'
```

You can suppress these warnings by disabling tagged queuing in the ncrs.conf file. See the ncrs(7D) man page.

• On some Pentium motherboards (Intel NX chipset) using P90 or slower processors, ncrs hangs and this message is displayed on the console:

```
WARNING: /pci@0,0/pci1000,3@6(ncrs0)
Unexpected DMA state:active dstat=c0<DMA-FIFO-empty,
master-data-parity-error>
```

This is an unrecoverable state; the system will not install using the nors driver.

- The ncrs driver supports Revision 4 and above of the 53C875 chipset. Previous revisions were pre-release versions of the chip, so there might still be a few in circulation.
- In rare circumstances, when using an SDT7000/SDT9000 tape drive, you see this message on the console:

```
Unexpected DMA state: ACTIVE. dstat=81<DMA-FIFO-empty,illegal-instruction>
```

In these instances, the system recovers and the tape drive remains usable. You can still use the tar command to add or extract files to or from the tape in the drive.

Solaris 7 5/99 Device Configuration Guide

LSI Logic (formerly Symbios) 64-Bit PCI Dual Channel Ultra2 SCSI 53C896 HBA

Solaris Device Driver: symhisl

Device Type: SCSI

Adapters: SYM22910 (both channel A and B support SE and

LVD mode), SYM21002 (channel A supports SE only, channel B supports both SE and LVD mode)

Bus Type: PCI

Preconfiguration Information

Known Problems and Limitations

- For Ultra2 SCSI LVD transfer, make sure you use Ultra2 SCSI LVD-compliant SCSI cable. Also, for best performance, keep the devices 6 to 8 inches apart.
- If both the 53C896 chip and an older 53C8xx chip are embedded on the motherboard, when your system boots, the system BIOS recognizes the older 53C8xx chip first. In this case, wait until the newer version of the Symbios SDMS BIOS, which supports the newer 53C896 chip, recognizes all 53C8xx chips embedded on your motherboard before proceeding.

To prevent the older BIOS utility from coming up, reflash the older 53C8xx BIOS of the add-in controller.

You can download the latest Symbios SDMS BIOS from http://www.symbios.com/techsupport/pci_sw.htm#Symbios CPI BIOS & Flash Utility.

■ Due to a hardware problem in revisions B0 and C0 of the 53C896 chip, the symhisl driver does not work properly with 64-bit PCI slots. The symhisl driver issues a SCSI bus reset when the problem occurs. To avoid this problem, upgrade to revision C1 of the 53C896 chip.

- Other revisions of the 53C896 chip may exhibit hardware incompatibilities with earlier PCI chips and designs. For a complete list of errata about each revision of the 53C896 chip, see LSI Logic's Web site (http://www.lsil.com).
- Under some conditions, LVD technology may exhibit firmware incompatibilities. If you experience SCSI errors with a correctly configured LVD SCSI bus, contact the manufacturer for updated firmware.

Solaris 7 3/99 Device Configuration Guide

Added Support for Physical Address Extension (PAE) Mode

With the release of Pentium Pro, Intel introduced a mode called PAE (Physical Address Extension) on its advanced processors. By using PAE, Solaris (Intel Platform Edition) can address up to 32 Gbytes of physical memory. Individual processes are still limited to a maximum of 3.5 Gbytes of virtual address space.

PAE mode enables you to run multiple instances of databases and memory-intensive applications, and to support large numbers of online users on your machine.

It is best to use PCI disk controllers that support Dual Address Cycle (DAC) in your machine because they can transfer data to and from any physical location. Other cards are limited to 4 Gbytes of physical memory, and as a result performance may slow down because the system needs to copy additional memory to transfer data.



Caution - Some device drivers are not yet able to take advantage of PAE mode. Sun has tested PCI device drivers written by Sun on x86 based machines with more than 4 Gbytes of memory. Sun's OEM partners intend to test their machines with devices they supply on x86 based machines with more than 4 Gbytes of memory. In some cases however, if you add a third-party device driver to your system, it may become unstable, and panics and data corruption may result. If your system becomes unstable and you need that driver, you must disable PAE mode support.

Disabling PAE Mode Support

To disable support for PAE mode, follow these steps:

- 1. Reboot your machine.
- 2. Interrupt autoboot by pressing the Esc key.

The Solaris Device Configuration Assistant starts.

3. Press F2_Continue until the Boot Solaris screen is displayed.

4. Press F4_Boot Tasks.

The Boot Tasks screen is displayed.

5. Select View/Edit Property Settings.

The View/Edit Property Settings screen is displayed.

6. Press F4_Create.

The Create Property screen is displayed.

7. In the Specify Property Name field, type mmu-modlist and press Enter.

8. In the Specify Value field, type mmu32 and press Enter.

The message "Updating Saved Configuration information..." is displayed on the Updating screen. When the property and value are saved successfully, the View/Edit Property Settings screen is displayed.

9. Press F2_Back.

The Boot Tasks screen is displayed.

10. Press F3_Back.

After drivers on your machine are loaded, the Boot Solaris screen is displayed.

11. Continue booting your machine as you normally would.