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## Solaris 7 (SPARC Platform Edition) Release Notes

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# Preface

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The *Solaris™ 7 (SPARC™ Platform Edition) Release Notes* contain installation problem details and other information that were not available until immediately before the release of the Solaris 7 operating environment and arrived too late to be included in the SUNWrdm package that is resident on the Solaris CD. This document complements the information that is available 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 online release notes (the SUNWrdm package) as follows:

- When booting from the Solaris 7 CD, information about this release can be found in the directory:

```
/cdrom/sol_7_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 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.

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## Who Should Use This Book

These notes are for users and system administrators who are installing and using Solaris 7 software.

If you are using any Solaris locale other than the C/POSIX locale, be sure to check to locale-specific bugs in the “Localization Bugs” on page 9.

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## How This Book is Organized

- Chapter 1 lists installation problems and installation news that arrived too late for publication in other documents. When booting from the Solaris 7 CD, the `installation_bugs` file is located in the directory:

```
/cdrom/sol_7_sparc/s0/Solaris_2.7/Docs/release_info/C
```

The installed location for the `installation_bugs` file is the directory:

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

- Chapter 2 describes non-installation problems that arrived too late for publication in other documents. When booting from the Solaris 7 CD, the `runtime_bugs` file is located in the directory:

```
/cdrom/sol_7_sparc/s0/Solaris_2.7/Docs/release_info/C
```

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

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

- Chapter 3 lists the new Solaris features that arrived too late to be included in the “What’s New: A Closer Look” in *Solaris 7 (SPARC Platform Edition) Installation Library* or the `new_features` file in the SUNWrdm package located on the Solaris CD.

When booting from the Solaris 7 CD, the `new_features` file is located in the directory:

```
/cdrom/sol2_7_sparc/s0/Solaris_2.7/Docs/release_info/C
```

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

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

- Chapter 4 provides statements about end-of-support for certain software features and some hardware products that arrived too late for publication in the `eof` file of the SUNWrdm package on the Solaris CD. When booting from the Solaris 7 CD, the `eof` file is located in the directory:

```
/cdrom/sol_7_sparc/s0/Solaris_2.7/Docs/release_info/C
```

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

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

- Chapter 5 describes documentation issues that arrived too late for publication in the Solaris product documents.



Other software that may be included can have installation issues or important news that arrived too late for publication. Be sure to read any separate Release Notes of any additional software products that may be selected for installation.

All Solaris bug IDs are enclosed in () parenthesis.

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## 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*

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## Ordering Sun Documents

The SunDocs<sup>SM</sup> program provides more than 250 manuals from Sun Microsystems, Inc. If you live in the United States, Canada, Europe, or Japan, you can purchase documentation sets or individual manuals using this program.

For a list of documents and how to order them, see the catalog section of the SunExpress<sup>TM</sup> Internet site at <http://www.sun.com/sunexpress>.

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The docs.sun.com Web site enables you to access Sun technical documentation online. You can browse the docs.sun.com archive or search for a specific book title or subject. The URL is <http://docs.sun.com>.

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## What Typographic Changes Mean

TABLE P-1 Typographic Conventions

Typeface or Symbol	Meaning	Example
<code>AaBbCc123</code>	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.
<b>AaBbCc123</b>	What you type, contrasted with on-screen computer output	<code>machine_name%</code> <b>su</b> Password:
<i>AaBbCc123</i>	Command-line placeholder: replace with a real name or value	To delete a file, type <b>rm</b> <i>filename</i> .
<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.

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## Shell Prompts in Command Examples

**TABLE P-2** Shell Prompts

<b>Shell</b>	<b>Prompt</b>
C shell prompt	machine_name%
C shell superuser prompt	machine_name%
Bourne shell and Korn shell prompt	\$
Borne shell and Korn shell superuser prompt	#



## Installation Issues

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This chapter describes known problems relating to the installation of the Solaris 7 software environment.

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**Note** - 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 CD. If you boot from the Solaris 7 CD, the `installation_bugs` file is located in the directory:

```
/cdrom/sol_7_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 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.

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## 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. These problems do not occur when using the Solaris Interactive Installation program.

## 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:

- Solaris 2.6 or Solaris 7 with its accompanying version of the HotJava™ or Netscape Navigator™ 4.0 browser
- Windows 95 with the HotJava or Netscape Navigator 4.0 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.

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## 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. These problems do not occur when using the Solaris Interactive Installation program.

### Cannot Move The Root Partition (4046659)

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

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# 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.

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# 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)



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**Warning** - Warning: mod\_install: MT-unsafe driver 'tnatp' rejected panic[cpu0] / thread=7051e040:mutex-enter:bad\_mutex lp=1046aa20 owner=7051e040 thread=7051e040

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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
- SUNWxwsrsc



- 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
```

## JumpStart Installs on Wrong Default Boot Disk (4027156)

JumpStart does not install the default boot on the current default boot disk under some conditions. A condition under which the problem has been observed involves using a fully automated install on a SPARCstation™ 5 with two hard disk drives. Therefore, the previous version of the Solaris operating environment is booted instead of the current one when you reboot.

**Workaround:** Install the Solaris operating environment without JumpStart™.

## 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:** Manually add all of the `SUNWkvm` packages before applying any patches that affect them.

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

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

The upgrade program can exaggerate by as much as 30 percent the amount of space required for upgrades to systems with the Solaris software. Therefore, it prevents many systems from being upgraded without deselecting packages or finding more space.

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

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

The Solstice™ AutoClients™ display the following message when rebooting:

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

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

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

```
rootfs:cacheufs
```

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

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## 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 checkbox for adding 64-bit support. This new 64-bit support is selected by default when installing on Sun UltraSPARC systems.

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**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. "System type" is the equivalent of the output of the `uname -i` command. You can tell what firmware version you are currently running by using the `prtconf -v` command.

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

---

**Note** - If the system is not listed in the above table, it does not need a Boot PROM upgrade.

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>.

---

## 64-Bit Solaris Bugs

### adbgen Reports Errors When Using The `-m lp64` Flag (4164583)

```
ld: fatal: file /usr/lib/adb/sparcv9/adbsub.o:
```

adbgen is not working when you attempt to generate 64-bit macros because `/usr/lib/adb/sparcv9/adbgen.o` has not been built correctly to be linked in 64-bit programs above 4 GBytes by default.

**Workaround:** A patch is needed.

## Late-Breaking Solaris Runtime Issues

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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 CD for additional runtime problems.

---

**Note** - 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 CD. If you boot from the Solaris 7 CD, the `runtime_bugs` file is located in the directory:

```
/cdrom/sol_7_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 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.

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## Localization Bugs

### Arabic 16-Bit Proportional Fonts Clip Characters (4167851)

If you use Arabic 16-bit proportional fonts in the Solaris 7 operating environment, the characters are only partially displayed on the screen.

**Workaround:** Only use monospace fonts.

## Static Desktop Text Is Not Enabled For Complex Text Layout (4170194)

Static text, such as icon text and Workspace panel text, has not been enabled for Complex Text Layout. Therefore, the Arabic and Hebrew translations of English static text do not display correctly.

## OW Is Not Supported As a Desktop Option In Some Locales

OW 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

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

<b>Desktop Option</b>	<b>Name of Country</b>
fr_BE.ISO8859-15	Belgium
fi.ISO8859-15	Finland
el_EURO	Greece
th	Thailand
th_TH	Thailand
he	Israel
ar	Egypt
de.UTF-8	Germany
fr.UTF-8	France
it.UTF-8	Italy
es.UTF-8	Spain
sv.UTF-8	Sweden
en_EU.UTF-8	Europe
ja_JP.UTF-8	Japan
ja_JP.PCK	Japan
ko.UTF-8	Korea
zh.GBK	PRC
zh_TW.BIG5	Taiwan

---

## CDE Bugs

### restore from sys-suspend Sometimes Does Not Restore CDE (4174133)

`sys-suspend(1M)` may hang and not refresh the screen on some slow systems. After a system is resumed, Screen Lock is in effect by default. This problem occurs after you enter a user password. A white screen is displayed instead of a Common Desktop Environment (CDE) screen. Although you can gain access to the system remotely, you cannot enter anything because the screen is still locked. If this problem occurs, you can recover the CDE session by remotely logging on the system as superuser and then killing the `sys-suspend` process.

**Workaround:** If this problem has occurred as a result of executing `autoshtdown`, use the `dtpower(1M)` application to disable `autoshtdown`. The problem does not occur if you execute `sys-suspend` without the Screen Lock option.

Refer to “Disabling the Screen Lock” in *Using Power ManagementSolaris 7 Reference Manual Collection* for a description on how to disable the Screen Lock for `sys-suspend` invoked by the keyboard’s power key. To disable the Screen Lock for the `sys-suspend` command that is invoked from the CDE Workspace Menu:

1. Become superuser.
2. Create the following `dtaction` file  
`/etc/dt/appconfig/types/locale/sunOW.dt`. The *locale* is the name of the language option that is selected when you start CDE.
3. Copy the `ACTION SDTsuspend { ... }` definition from  
`/usr/dt/appconfig/types/locale/sunOW.dt` to  
`/etc/dt/appconfig/types/locale/sunOW.dt`.
4. Add the `-x` flag to `sys-suspend` command in the  
`/etc/dt/appconfig/types/locale/sunOW.dt` file.
5. Exit the CDE session and log in again.



---

## File System Bugs

### cpr\_reset\_properties: Unable to open /.cpr\_default on /pci@1f,4000/scsi@3/disk@0,0 (4163575)

The above-listed message or a variation of this message may be displayed whenever you reboot after a `cpr Suspend` if the file system logging feature is enabled.

The `cpr Suspend/Resume` feature does not work with the logging file system feature when logging is used on either the root file system or the file system chosen for the `cpr` state file.

The criteria for using `cpr` are:

- `root` must not be a logging file system
- The file system selected for the `cpr` state file (see `power.conf(4)`) must not be a logging file system.

**Workaround:** Select a file system for the `cpr` state file other than `root` or one that has logging turned on.

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## 64-Bit Solaris Bugs

### 64-bit libmail Not Available (4169295)

The 64-bit `libmail` library is missing. You cannot create 64-bit applications that require this library.

---

## Security Bugs

### Security Vulnerability In `ufsdump` And `ufsrestore` (4132365)

A security vulnerability exists in the `ufsdump(1M)` and `ufsrestore(1M)` commands. If you have already gained access to a given Solaris system, you can exploit this vulnerability to obtain `root` access. Fixes for these problems are available for this release by installing patch ID 106793-01, a patch for SPARC systems, or patch ID 106794-01, a patch for x86 based systems.

If you have not yet obtained and installed the appropriate patch, you can apply the following workaround on your system.

**Workaround:** If you use the `chmod` command on the `ufsdump` and `ufsrestore` programs such that the `set-uid` bit is removed, the programs are then no longer vulnerable. You can remove the `set-uid` bit by executing the following command as root:

```
# chmod 0555 /usr/lib/fs/ufs/ufsdump /usr/lib/fs/ufs/ufsrestore
```

Some of the `ufsdump/ufsrestore` functionality is now only available to `root`, specifically having access to backup devices on the network using the `rmt(1M)` protocol.

## Late-Breaking News

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This chapter lists late-breaking new features that arrived too late to be included in the “What’s New: A Closer Look” in *Solaris 7 (SPARC Platform Edition) Installation Library*. 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.

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**Note** - 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 CD. If you boot from the Solaris 7 CD, the `new_features` file is located in the directory:

```
/cdrom/sol_7_sparc/s0/Solaris_2.7/Docs/release_info/C
```

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

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

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**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.

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## Solaris Name Change

This release of Solaris is called Solaris 7 instead of Solaris 2.7. As the Solaris product line continues to grow, this name change will make it easier for you to determine which products in the Solaris line you might want to use.

In Solaris 7, the transition to the new name change is in progress. That means that you will still see references to Solaris 2.7, and even to Solaris 2.x.

The name of the core operating system has not changed. In this release, it is SunOS 5.7.

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## Euro Unit Support

Support for the new Euro currency has been added to the Units command. This new feature enables you to enter, display, and print the new Euro currency symbol. It also adds system support for monetary string formatting in Euros.

However, exchange rate conversion between the Euro and other currencies is not supported. This should be handled at the application level.

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## 64-Bit Solaris Support for the Assembler

A mechanism was included in the SPARC V9 ABI to provide global register use checking so that these global registers can be more reliably utilized.

This mechanism is described in the SPARC V9 ABI. In summary, ELF register usage records were introduced. V9 ABI compliant programs are required to utilize these records to report global register usage. During link time, either static or dynamic, the records are compared to insure consistent usage of the global registers between differing linkable objects. If inconsistent usage is detected, an error message results from the link operation.

To implement this mechanism, the compiler must output the ELF register records. This can currently be accomplished by adding the `-Wc,-Qiselect-regsym=1` option for C or the `-Qoption cg -Qiselect-regsym=1` option for C++ to the compiler when compiling for v9. Linkers bundled with Solaris 2.5.1, Solaris 2.6, and Solaris 7 accept the ELF register records. Linkers bundled with previous Solaris builds do not accept the new ELF register records and issue an error message.

Since the SPARC assembler may also generate linkable objects, it is necessary for the SPARC assembler to also output the ELF register records. The assembler needs to know how you intend to utilize the global registers referenced within each input `.s` file. To do this, you must introduce a new assembler pseudo op to provide this functionality.

Since the compiler may also output assembly language, e.g. with `-S` options, which may later be assembled by the assembler, it is necessary for the compiler to output the new pseudo ops so as to provide the proper documentation of the global register usage.

New SPARC V9 Pseudo Instruction:

```
.register %g {2 | 3 | 6 | 7}, {#scratch | symbol name}
```

The new pseudo is accepted by the SPARC assembler for any arch setting. It only has an effect for V9. This allows enables you to write assembly code for V8 and V9 using the new natural assembly pseudo ops. For V8 on SPARC architecture versions 2.5.1 and 2.6, the pseudo op is accepted, but ignored.

Under `-xarch=v9`, if the SPARC assembler detects a global register use that is not covered by a new pseudo op, then the SPARC assembler displays an error message.

Under `-xarch=v9`, if the SPARC assembler detects multiple differing pseudo ops related to the same global register, then the SPARC assembler issues an error message. Otherwise, the SPARC assembler lists the appropriate ELF register records as identified by the user. The SPARC assembler may verify that the specified usage description is correct, but is not required to do so.

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## Arabic and Hebrew Support

Arabic and Hebrew support forms a part of the overall Complex Text Layout (CTL) support in the Solaris 7 operating environment of which Thai is also a part. The following information outlines the major features of this support including language features, information on how to enter Arabic and Hebrew characters, and printing.

The following Arabic and Hebrew features are supported in the Solaris 7 operating environment:

- Language Features

- Bidirectional Text
- Character Shaping
- Ligatures
- Diacritics
- Symmetrical Swapping
- English and Hindi numerals

- Split cursor

A split cursor or two cursors appear on the same line is a new feature to solve the ambiguity when the text insertion point is in the boundary between Hebrew and English text.

- Input Support

An input mode window is located at the bottom of each desktop application window. This window initially displays in English. Press Control—T simultaneously to switch to Arabic or Hebrew input mode. The input window now displays in Arabic or in Hebrew. You can now enter Arabic or Hebrew text.

- Printing support

A new man page called `ctlmp` has been added to the Solaris 7 operating environment to provide information on how to print CTL language documents. Type `man ctlmp` to display the `ctlmp` man page.

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## No Support for 3.3V

The `pcic nexus` driver for the PCMCIA interface does not support 3.3V on devices. Cards that are 3.3V only do not work correctly; they seem to hang a system. There are several related causes for this problem:

- The `pcic` driver cannot determine if it is a 3.3V only card (needs to read this information from the bus bridge and refuse to set 5V)

- 

The `pcic` driver cannot specify that 3.3V is needed. Some of the new PC cards are now available as 3.3V only. This includes variations of supported devices such as PC ATA and SRAM. New bus bridges, such as the TI PCI1130/1131, support 3.3V as well as 5V.

## End-of-Support Statements

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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.

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

```
/cdrom/sol_7_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
```

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## Future End-of-Software Support Statements

The following features may no longer be supported in a future release.

### HotJava Browser

Sun's current plan is that the HotJava Browser may not be included in a future Solaris release. However, this plan is subject to change at Sun's sole discretion.

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# Future End-of-Hardware Support Statements

The following products may no longer be supported in a future release. For more information, contact your support provider.

## Sun4c-Based Systems

The following sun4c architecture systems and servers based on these systems may no longer be supported in a future release:

- SPARCstation™ SLC
- SPARCstation ELC
- SPARCstation IPC
- SPARCstation IPX
- SPARCstation 1
- SPARCstation 1+
- SPARCstation 2

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**Note** - All hardware options (such as SCSI devices) and supported configurations that are dependent on the sun4c architecture may no longer be supported in a future release.

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**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.

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## SPARCstation Voyager

SPARCstation™ Voyager™ systems may no longer be supported in a future release.

## SPARC Xterminal 1

SPARC™ Xterminal 1™ systems may no longer be supported in a future release.



## Documentation Issues

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**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.

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## Documentation Errata

### Adding SUNWhinst To Support SunOS Release 4.x on a Solaris 7 Server

**Book Affected:** *Solaris Transition Guide*

As explained in “Adding SunOS Release 4.x Support to a Solaris 2.7 Server” in *Solaris Transition Guide*, the SUNWhinst package must be installed on any Solaris 7 server configured to support SunOS 4.x diskless clients. The SUNWhinst package is available on the Solaris Easy Access Server 2.0 software CD in the AdminSuite\_2.3+AutoClient\_2.1/4.x directory.

### Euro Currency Support

**Book Affected:** *Solaris 7 (SPARC Platform Edition) Installation Library*

In “New User Locales To Support the Euro Currency” in *Solaris 7 (SPARC Platform Edition) Installation Library*, the Euro Currency Support section states that there are sixteen new user locales for the new Euro currency. There are actually fifteen, as shown in “New User Locales To Support the Euro Currency” in *Solaris 7 (SPARC Platform Edition) Installation Library*.