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Solaris 7

**Includes Additional Release  
Notes and End-of-Support  
Statements for Solaris 7 Running  
on Sun Hardware Products**

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## Late Breaking News

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This manual provides the following information:

- Late breaking news (this chapter)
- End-of-support statements (chapter 2)
- Open Issues (chapter 3)

This manual supplements the *Solaris 7 Sun Hardware Platform Guide* and the *Solaris 7 Release Notes*.

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## Release Notes Update

The following notes have been added to the *Solaris 7 Release Notes Supplement for Sun Hardware*. These notes are not in the printed version of this document that is included in the Solaris 7 kit.

- “Solaris on Sun Hardware AnswerBook” on page 26
- “Serial Parallel Controller Driver” on page 27
- “Copackaged software fails to install using Web Start default configurations because of small file (partition) size (4176615)” on page 27

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## Open Issues Available on the Web

An online Web page is available that provides a version of this manual with additional support for issues that may arrive late and cannot be printed in this

release's documentation. To access this Web page, enter the following URL in your Web browser

<http://docs.sun.com>

The [docs.sun.com](http://docs.sun.com) web site allows you to access Sun's technical documentation archive online. This site provides all Solaris™ documentation for this release, as well as a large collection of older documentation about software and hardware.

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## Service Contract Upgrades to Solaris 7

You may have received a Solaris Server Media Kit to upgrade systems to the Solaris 7 operating environment. Please note that your service contract entitles you to use only those products that apply to your original Solaris operating environment license. The following products, which may be in the media kit you received, are licensed solely to customers with the Solaris Easy Access Server 2.0 product or the Solaris™ Server Intranet Extension™ product, which was included as part of Sun Microsystems Computer Corporation's Solaris 2.6, Solaris 2.6 Hardware: 3/98, or Solaris 2.6 Hardware: 5/98 SPARC™ Server Media Kits:

- Solstice™ AdminSuite
- Solstice AutoClient™
- Solstice DiskSuite™
- Solstice Data Backup Utility
- Solstice PPP
- TotalNET Advanced Server™
- Java™ IDL
- Solaris Management Console™
- Sun™ WebServer™
- Solstice Internet Mail Server™
- Sun Directory Services
- Solstice NFS Client™

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## Unbundled Product Support

If you are upgrading from an existing version of Solaris and have installed unbundled products, either from Sun or from a different company, you must ensure



that all those products are supported on Solaris 7 prior to upgrading. Depending on the status of each unbundled product, you have three options for each unbundled product:

- Verify that the existing version of the unbundled product is supported on Solaris 7.
- Acquire and install a new version of the unbundled product which is supported on Solaris 7. Note that in this case you may need to remove the previous version of the unbundled product prior to upgrading to Solaris 7. See the unbundled product documentation for more details.
- Remove the unbundled product prior to upgrading to Solaris 7.

For additional information contact the supplier of the unbundled product or your service provider or go to:

<http://sunsolve.sun.com/sunsolve/pubpatches/patches.html>

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## PC File Viewer Update

For updated information about PC file viewer, direct your browser to:

<http://shop.sun.com/>

From "Free Downloads" at this site, choose "PC file viewer".

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## Documents on the Solaris 7 Sun Computer Systems Supplement CD

Table 1-1 lists the documents available on the Supplement CD:

**TABLE 1-1** Documents on the Supplement CD

<b>Path</b>	<b>Comment</b>
Docs/HWPG/EOS.html	List of future end-of-support peripheral products
Docs/HWPG/Hardware.ps	Supported hardware matrices
Docs/HWPG/HWPG_en.ps	Solaris 7 Sun Hardware Platform Guide

TABLE 1-1 Documents on the Supplement CD (continued)

Path	Comment
Docs/ODBC/ README.ODBC_en.html	Readme file for ODBC
Docs/ShowMeTV1.2.1/ UG_en.ps	ShowMe™ TV™ 1.2.1 User's Guide
Docs/README_en.html/	Readme file for Solaris 7 Sun Computer Systems Supplement CD

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**Note** - The `_en` indicates an English language document. Other languages may be indicated, depending on locale.

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The Supplement CD also contains other documentation in AnswerBook™ packages and in man page packages. The documentation in AnswerBook packages can only be read through the AnswerBook2™ server software provided on the Solaris Documentation CD. Documents in the man page packages can only be read through the `man` command. Refer to the *Solaris 7 Sun Hardware Platform Guide* for details on installing these packages from the Supplement CD.

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## Product Name and Title Changes

### Sun Microsystems Name Changes

Earlier publications, documents, and software have included the names SunSoft™ and Sun Microsystems Computer Company or SMCC. Due to a Sun Microsystems reorganization, those names are no longer applicable.

For example, in some documents you may find references to a manual that was called *SMCC Hardware Platform Guide*. In this release, that document is now called *Solaris 7 Sun Hardware Platform Guide*. Another example is the supplement CD which used to be called the SMCC Supplement CD is now called the Solaris 7 Sun Computer Systems Supplement CD.

## 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 process. 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<sup>™</sup> 5.7.

## Solaris Server Intranet Extensions Name Change

The new version of the Solaris<sup>™</sup> Server Intranet Extension<sup>™</sup> 1.0 product is named the Solaris<sup>™</sup> Easy Access Server 2.0 product.

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## Flash PROM Update for 64-bit Operations

Some sun4u systems need to be updated to a higher level of OpenBoot<sup>™</sup> firmware in the flash PROM before they can run the 64-bit mode of the Solaris 7 operating environment. Systems that can only run the 32-bit mode (such as those in the sun4c, sun4d, and sun4m platform groups) do not require updated firmware to run Solaris 7 software.

The only systems that may require this flash PROM update are the following:

- Ultra<sup>™</sup> 1
- Ultra 2
- Ultra 450 and Sun<sup>™</sup> Enterprise<sup>™</sup> 450
- Sun Enterprise 3000, 4000, 5000, and 6000 systems

See the *Solaris 7 Sun Hardware Platform Guide* for instructions for determining whether your system needs a flash PROM update and for instructions on performing that update.

For the Ultra and Ultra 2 systems, an antistatic wrist strap may be required for the update. If you need a wriststrap, send e-mail to [strap@eng.sun.com](mailto:strap@eng.sun.com)

# Flash PROM Update Multimedia AnswerBook CD

This CD provides video clips that illustrate how to perform steps involving hardware that are part of procedures for updating the Flash PROM on some sun4u systems.

The video clips on this CD can be accessed several ways. Some software products are present on this CD to facilitate viewing of the videos directly from the CD. Do not use the AnswerBook2 server software or the ShowMe TV software on this CD to install these products permanently on a system. Instead, use the Solaris 7 Documentation CD to install AnswerBook2 server software and use the Supplement CD to install ShowMe TV software.

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**Note** - The video clips on the Flash PROM Update Multimedia AnswerBook CD have English language audio tracks. The volume level for the audio tracks is set to minimum. If you want to hear the English language audio track, you must adjust the audio level.

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## Software No Longer Included

The following software that was included in earlier Solaris 2.6 releases is not included in this Solaris 7 release:

- Solstice<sup>™</sup> SyMON<sup>™</sup>
- Sun<sup>™</sup> MediaCenter<sup>™</sup> One
- Dynamic Reconfiguration for the Enterprise 10000
- Alternate Pathing for the Enterprise 3x00, 4x00, 5x00, and 6x00 servers

### Solstice SyMON

A completely new product, Sun Enterprise SyMON 2.0, will soon replace Solstice SyMON. For information on availability of Sun Enterprise SyMON 2.0 go to:

<http://www.sun.com/servers/symon.html>

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## Sun StorEdge A5000

For the latest firmware and patch information for the Sun StorEdge<sup>™</sup> A5000, go to:

<http://sunsolve1.Sun.COM/pub-cgi/us/ent2html>





## End-of-Support Products

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This chapter contains a list of the end-of-support products for Solaris 7.

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### End-of-Support Products

The following hardware and software products are no longer supported in this Solaris 7 release. For more information, contact your authorized Sun support provider.

#### Network Devices — BEC Device and be Driver

The BEC device and be driver are no longer supported in the Solaris 7 release.

#### Graphics Devices—Discontinued Frame Buffers

The following frame buffers are no longer supported in the Solaris 7 release.

- MG1 (bwtwo)
- MG2 (bwtwo)
- CG2 (cgtwo)
- CG4 (cgfour)
- TC (cgeight)
- ZX (leo)
- TZX (leo)

## PEX Graphics Library

The Solaris™ PEX™ graphics library and server extension are no longer supported in this Solaris 7 release.

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## Future End-of-Support Products

Support for the following products may be discontinued in future releases. 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 future releases:

SPARCstation™ SLC, SPARCstation ELC, SPARCstation IPC, SPARCstation IPX, SPARCstation 1, SPARCstation 1+, and SPARCstation 2

---

**Note** - All hardware options (such as SCSI devices) and supported configurations that are dependent upon the sun4c architecture may no longer be supported in future releases. A list of these options is included in the Supplement CD `/docs` directory in the file named `EOS.html`.

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### SPARCstation Voyager

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

### SPARC Xterminal 1

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



## Open Issues

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### Prestoserve 2.4.2 — Patch Required

The Prestoserve™ 2.4.2 release will not function properly with the Solaris 7 software environment if the workaround below is not implemented. Below is a partial list of some of the platforms and hardware options that may be affected:

- Ultra™ 1 Creator Model 170E
- Ultra 1 Creator3D Model 170E
- Sun™ Enterprise™ 1 Model 170E
- SunSwift™ SBus Adapter Card

If you installed Prestoserve 2.4.2 and are using a platform or hardware option listed above, you must do the following steps to provide compatibility:

1. **Edit the `/etc/system` file and add the following information:**

```
set fas:fas_enable_sbus64 = 0
```

2. **Reboot your system.**



---

**Caution** - Failure to reboot your system can corrupt data.

---

A Prestoserve patch (#103043-08) that automatically adds the above information to the `/etc/system` file is available. If you prefer to make this change using the Prestoserve patch, contact your authorized Sun support provider. If you edit the `/etc/system` file as described above, you do not need the Prestoserve patch.

If you installed Prestoserve 2.4.2 and are using an Ultra 2 platform (200MHz or 300MHz), you must do the following steps to provide compatibility:

**1. Edit the `/etc/system` file and add the following information:**

```
set fas:fas_enable_sbus64 = 0
```

**2. Reboot your system.**

**3. Use `pkgadd` to add the `SUNWprsto` package.**

**4. Add the Prestoserve patch (103043-08).**

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**Note** - If the above steps are not followed, your Ultra 2 system may panic.

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## Booting From Partitions Greater Than 2-Gbytes (1234177)

Due to PROM limitations, all sun4c, sun4d, and sun4m architectures will not boot from partitions greater than 2-Gbytes. These systems will fail with the following message:

```
bootblk: can't find the boot program
```

---

**Note** - All sun4u architectures support booting from larger partitions.

---

One related bug (4023466) reports a problem with `re-preinstall` where the boot image for large disks creates root partitions greater than 2-Gbytes. System Administrators are cautioned not to use `re-preinstall` on sun4c, sun4d, and sun4m systems with large root disks (4-Gbytes and greater).

---

## SunFDDI Adapters Cannot Boot Sun4d Diskless Clients (4144414)

Sun4d diskless clients cannot be booted using SunFDDI™ adapters (FDDI/S 6.0 or FDDI/P 2.0) installed in servers running the Solaris 7 operating environment. If you intend using a Sun4d as a diskless client, deploy it in an ethernet section of your network.

---

## Quad Ethernet Controller—Dynamic Reconfiguration Not Supported

The Quad Ethernet (QE) and Quad Ethernet Controller (QEC) must be configured with other non-Dynamic Reconfiguration (DR) boards. DR does not support QE and QEC on Sun Enterprise X000 platforms running the Solaris 7 operating environment or compatible versions. The CS6400 and Sun Enterprise 10000 has specialized code that does support this combination for DR.

---

## ISDN — Power Management Not Supported

ISDN do not currently support the Power Management™ suspend and resume features. This is a known problem and is currently under investigation.

---

## /usr/ucblib/sparcv9 is Not Available (4114650)

Any application requiring `ucblib` will not link or run with the 64-bit Solaris operating environment.

Workaround: No workaround is available at this time. Contact your authorized Sun support provider for more information.

---

## SunScreen SKIP 1.1.1 Not Supported in Solaris 7

If you have SunScreen™ SKIP 1.1.1 currently installed on your system, you should remove the SKIP packages before installing or upgrading to Solaris 7. The packages you should remove are:

- SICGbdcdr
- SICGc3des
- SICGcdes
- SICGcrc2
- SICGcrc4
- SICGcsafe
- SICGes
- SICGkdsup
- SICGkeymg
- SICGkisup

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## Solstice SyMON Not Supported in Solaris 7

If you have Solstice SyMON currently installed on your system, you should remove the SyMON packages before installing or upgrading to Solaris 7. The packages you should remove are:

- SUNWsyc
- SUNWsye
- SUNWsym
- SUNWsyrt
- SUNWsys
- SUNWsyu
- SUNWsyua
- SUNWsyub
- SUNWsyuc

- SUNWsyud
- SUNWsyue
- SUNWsyuf

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## SunVTS 3.0 Issues

The following issues apply to the SunVTS™ 3.0 product.

### SunVTS Tests Not Available in 64-Bit Mode

The following SunVTS tests are not available in the 64-bit mode:

`cg14test`, `isdntest`, `pstest`, `rtvctest`, `sctest`, and `tcxtest`

### SunVTS Online Diagnostics through SyMON

The SunVTS online diagnostics feature (`SUNWodu`) is no longer accessible through the SyMON interface.

### Disk and Floppy Drives Test (`disktest`) Update

#### File System Mounting

As of SunVTS 3.0, SunVTS `disktest` by default does not mount any mountable partitions. To have SunVTS mount all partitions which contain a file system, set the environment variable `BYPASS_FS_PROBE` to 0 (zero), then start SunVTS as shown below:

```
# BYPASS_FS_PROBE=0; export BYPASS_FS_PROBE
# ./sunvts
```

To return to the SunVTS default behavior so no file systems are mounted, either set the `BYPASS_FS_PROBE` to a non-zero value, or unset it.

Even if `BYPASS_FS_PROBE` is set to 0 (zero), the SunVTS disk probe checks for the existence of Veritas volume manager and Solstice DiskSuite on the system, and does not mount any partitions if their presence is detected.

If SunVTS is invoked from the Solstice SyMON graphical user interface, SunVTS will not mount any partitions in this case either.



---

**Caution** - If a power failure occurs while the `disktest` is running, disk data may be destroyed.

Running the Media subtest on a disk partition in the WriteRead mode may cause data corruption if the same partition is being used by other programs. Only select this mode when the system is offline (not used by any other users or programs).

---

## disktest Option File Note

Loading an option file that was created when `BYPASS_FS_PROBE` was set to 0 (zero) might not work if the `BYPASS_FS_PROBE` environment variable no longer set to 0 (zero). Testing may fail with the following error:

```
SUNWvts.disktest.8088 07/24/98 15:47:22 disktest c0t0d0
FATAL: "Couldn't get file system information on /distest_c0t0d0s0, statvfs()
system call failure error: No such file or directory.
```

This error is caused when SunVTS expects to use the predefined mount point names (`/disktest_c0t0d0s0`) that are created when `BYPASS_FS_PROBE` is set to 0 (zero), but these mount points do not exist while `BYPASS_FS_PROBE` is not set to 0 (zero).

Workaround: Create two separate option files for the two different states of the `BYPASS_FS_PROBE` environment variable.

## enatest and socaltest Cannot Run at the Same Time(4065417)

When the SunVTS `enatest` is run concurrently with the `socaltest`, the `enatest` may fail.

Workaround: Do not select `socaltest` when `enatest` is selected and vice-versa.

## socaltest FATAL: Failed ioctl FCIO\_DIAG\_XRAM (4065420)

When the SunVTS `socaltest` is run concurrently with `enatest` and `disktest`, the `socaltest` may fail.

Workaround: Do not select `enatest` when `socaltest` is selected and vice-versa.

## HSI Board Test (sunlink) Update

In SunVTS 3.0 the `sunlink` test runs on HSI SBus and PCI type cards, however the SunVTS 3.0 Test Reference Manual only refers to the HSI SBus test capabilities.

A valid `sunlink` command line example is shown below:

```
# /opt/SUNWvts/bin/sunlink -o dev=hih0,P=0+1+2+3
```

This command line tests the internal loopback for ports 0, 1, 2, and 3. The internal loopback should not be run in the port to port loopback setting.

## ISDN Test (isdntest) Documentation

This test is part of the SunVTS 3.0, however it is not included in the *SunVTS 3.0 Test Reference Manual*. For `isdntest` test descriptions, options, command line syntax and error messages read the `isdntest` Postscript file (`isdntest.ps`) that is located in `/opt/SUNWvts` when the `SUNWvts` package is installed.

## Serial Asynchronous Interface Test (saiptest) fails in external loopback mode (4171288)

The `saiptest` fails when the test is in 25-pin external loopback mode. Internal loopback mode runs as it should.

Workaround: Do not select 25-pin external loopback mode.

## Sun GigabitEthernet Test (gemtest) Update

The following information updates the `gemtest` information in the *SunVTS 3.0 Test Reference Manual*.

Since `gemtest` requires a loopback connector, it can only be selected when the Intervention mode is enabled.

When `gemtest` is run in TTY mode, the console display becomes garbled due to the messages printed by the `ge` driver on the console. These messages indicate that the device has auto-negotiated and that the link is up. To refresh the display type Control-L.

Even though the `gemtest` does not depend on the network interface configuration status of the Sun GigabitEthernet adapter, it is recommended that the interface be

brought down with the following command to avoid getting various messages such as errors pertaining to duplicate hardware addresses:

```
# ifconfig gen down
```

The gemtest loopback cable may be made by splitting a standard fiber optic cable (see note below) into its two constituent cables. The two ends of the cable should be connected to the TX and RX ports of the adapter (the order doesn't matter), thus forming a loop.

---

**Note** - This cable is based on the same specifications as those used for the Sun GigabitEthernet adapters (multimode, duplex, 62.5/125 micron, sc connector, 850nm).

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## Sun Enterprise 10000 Issues

This section contains general issues, known bugs, patches, and notes about the Solaris 7 release on the Sun<sup>™</sup> Enterprise<sup>™</sup> 10000.

### General Issues

Dynamic Reconfiguration (DR), Alternate Pathing (AP), and Inter-Domain Networks (IDN) are not supported in the Solaris 7 release.

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**Note** - Before beginning the fresh install or upgrade procedures, you must install the SSP patches described in the next section.

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### Solaris 7 and Boot-Disk Partition Sizes

If you are upgrading the operating environment from Solaris 2.6 to Solaris 7 and you used the partition layout suggested in the *Solaris 7 Sun Hardware Platform Guide*, the partitions may not be large enough for the upgrade to succeed. For instance, the /usr partition must be at least 653 megabytes. If /usr is smaller than the size needed to perform the upgrade, suninstall uses the Dynamic Space Reallocation (DSR) mode to reallocate the space of the disk partitions.

DSR may calculate a partition layout which is not acceptable for some systems. For instance, DSR may select partitions that appear to DSR as being unused (non-UFS partitions which may contain raw data or other types of file systems). If DSR selects



a used partition, data loss may occur. Therefore, you must know the current status of the partitions DSR wants to use before you allow DSR to continue with the reallocation of the disk partitions.

After DSR presents an acceptable layout and you choose to proceed with the reallocation, DSR will adjust the affected file systems, and the upgrade will continue. However, if you cannot constrain the layout so that it is acceptable for your needs, then you may need to manually repartition the boot device before you do the upgrade, or you may have to perform a fresh install.

## Solaris 7 and the SSP

If you are installing Solaris 7 on a domain or upgrading a domain's current Solaris operating environment, you must have SSP 3.1 installed on the SSP. In addition, before you perform the Solaris 7 upgrade on an Enterprise 10000 domain, the SSP must have Patch-ID 105684-04. This patch is on your Solaris 7 Sun Computer Systems Supplement CD.

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**Note** - If the CD contains later versions of the patches, indicated by a higher-numbered suffix, use those patches instead of the patch numbers indicated in these instructions.

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SSP 3.0 does not support Solaris 7 on a domain.

### Patch-ID 105684-04

This patch is on your Solaris 7 Sun Computer Systems Supplement CD.

Description: `OBP/download_helper` needs to support 2.7

BugIDs fixed with this patch: 4078459 4083870 4084325 4097230 4102171 4118746 4137422 4146592

### Patch-ID 106281-01

This patch is on your Solaris 7 Sun Computer Systems Supplement CD.

Description:

SSP 3.1 `sys_id -m` doesn't work in year 2000 or after (Y2K bug)

BugIDs fixed with this patch: 4105569

### Patch-ID 106282-01

This patch is on your Solaris 7 Sun Computer Systems Supplement CD.

Description: SSP 3.1 Hostview suppresses trap messages after 1999  
BugIDs fixed with this patch: 4108443

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## Dynamic Reconfiguration of Sun Enterprise 3x00, 4x00, 5x00, and 6x00 Servers

These release notes provide the latest information on Dynamic Reconfiguration (DR) functionality for Sun<sup>™</sup> Enterprise 3x00/4x00/5x00/6x00 Servers running Solaris 7. For complete information on Sun Enterprise Server Dynamic Reconfiguration, please refer to *Dynamic Reconfiguration User's Guide For Sun Enterprise 3x00/4x00/5x00/6x00 Systems*.

For Solaris 7 software on Sun Enterprise 3x00/4x00/5x00/6x00 Servers, DR functionality is limited to I/O boards and does not include CPU/Memory boards.

### Supported Hardware

Before proceeding, ensure the system has Dynamic Reconfiguration capabilities. If you see the following message on your console or in your console logs, the hardware is of an older design and not suitable for Dynamic Reconfiguration:

```
Hot Plug not supported in this system
```

Supported I/O boards are listed in the “Solaris 7” section on the web site

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

:

The supported hardware includes type 1 and 4 Sun Enterprise I/O boards.

# Firmware Issues

## FC-AL Disk Arrays or Internal Drives

For Sun StorEdge™ A5000 disk arrays or for internal FC-AL disks in the Sun Enterprise 3500, the firmware version must be at least ST19171FC 0413. For more information, refer to the “Solaris 7” section at the DR web site:

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

## PROM Updates for CPU and I/O Boards

To perform Dynamic Reconfiguration operations your machine may require one or more firmware updates. If an update is needed, the following message will appear during boot:

```
Firmware does not support Dynamic Reconfiguration
```

Your machine must be running at least CPU PROM version 3.2.16. If you updated your firmware from the Solaris 7 CD for 64-bit operation, you already have version 3.2.16 installed.

To see your current PROM revision, enter `.version` and `banner` at the `ok` prompt. Your display may be similar to the following:

TABLE 3-1 Determining PROM Revision Level

```
ok .version
Board 0: OBP 3.2.16 1998/06/08 16:58 POST 3.9.4 1998/06/09 16:25
Board 1: FCODE 1.8.3 1997/11/14 12:41 iPOST 3.4.6 1998/04/16 14:22
Board 2: FCODE 1.8.7 1997/12/08 15:39 iPOST 3.4.6 1998/04/16 14:22
Board 4: FCODE 1.8.7 1997/12/08 15:39 iPOST 3.4.6 1998/04/16 14:22
Board 5: FCODE 1.8.3 1997/11/14 12:41 iPOST 3.4.6 1998/04/16 14:22
Board 6: FCODE 1.8.7 1997/12/08 15:39 iPOST 3.4.6 1998/04/16 14:22
Board 7: OBP 3.2.16 1998/06/08 16:58 POST 3.9.4 1998/06/09 16:25
{5} ok banner
8-slot Sun Enterprise 4000/5000, No Keyboard
```

TABLE 3-1 Determining PROM Revision Level (continued)

OpenBoot 3.2.16, 1024 MB memory installed, Serial #9039599. Ethernet address 8:0:xx:xx:xx:xx, Host ID: xxxxxxxx.
---

For information on how to enable Dynamic Reconfiguration functionality in the PROM, refer to the “Solaris 7” section at this web site.

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

If you have not updated to PROM version 3.2.16, the web page also provides information on the following:

- How to download the DR capable PROM
- How to upgrade the PROM

## Software Issues

1. The `pln_enable_detach_suspend` and `soc_enable_detach_suspend` variables must be set in the `/etc/system` file. As root, edit the file and add the following lines:

```
set pln:pln_enable_detach_suspend=1
set soc:soc_enable_detach_suspend=1
```

2. On a large system, the `cfgadm -x quiesce-test` command may run as much as a minute or so. During this time no messages are displayed if `cfgadm` does not find incompatible drivers. This is normal behavior.
3. The system cannot use boards that are listed in the `disabled-board-list`. To remove all boards from the disabled board list, set the `disabled-board-list` variable to a null set by entering the system command:

```
# eeprom disabled-board-list=
```

If you are at the OpenBoot prompt, use this OBP command instead:

```
OK set-default disabled-board-list
```

4. If it is necessary to unload detach-unsafe drivers, use the `modinfo(1M)` line command to find the module IDs of the drivers. You can then use the module IDs in the `modunload(1M)` command to unload detach-unsafe drivers.

# Open Issues

## Bug List on the Internet

For the current list of DR software bugs, refer to the “Solaris 7” section at this web site:

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

## Cannot unconfigure board in slot 15; operation fails (4101093)

On Sun Enterprise 6000 and 6500 systems, the unconfigure operation fails for an I/O board in slot 15.

## Cannot remove central I/O board (4112730)

The “central” I/O board cannot be removed under Dynamic Reconfiguration. On Sun Enterprise x000 and x500 systems the lowest-numbered I/O board is considered a key resource and cannot be removed.

## PCI I/O board experiences Privileged Timeout Error during Connect (4122455)

The PCI I/O board (type 3 I/O board) experiences Privileged Timeout Error during connect. The PCI I/O board is therefore not supported at this time.

---

## ShowMe TV 1.2.1 Known Problems

ShowMe TV does not recover gracefully from viewing MPEG1 movies which are corrupted. Switching back and forth between two MPEG1 movies when one is corrupted, can cause ShowMe TV to fail.

You cannot switch between CIF and QCIF H.261 streams (i.e. regular resolution, or 356x288 size frames, and low resolution, or 176x144 size frames) on non-Ultra systems.

Sending mail (to the broadcaster or to [showmetv-comments@Sun.COM](mailto:showmetv-comments@Sun.COM)) from within ShowMe TV does not work in Asian languages. You can use the Solaris mail functions instead.

Mixing Asian and ASCII characters in one line of text can confuse the input/output functions in ShowMe TV. In particular, if a user sets up a transmission in which the transmission name and/or the hostname contain Asian characters, then saving/recovering these parameters to/from the `.showmetv-programs-<hostname>` configuration file might not work correctly.

---

## PCMCIA Issues

The following bugs have been filed against PCMCIA:

### If the PC ATA, `pcata`, module is modunloaded the system will appear to hang (4096137)

Description: If there is a PCMCIA I/O card in a slot that has been accessed and the card driver is unloaded (as occurs during `modunload -i 0` at the end of multi-user boot) the system will appear to hang. Sometimes removing the card will bring the system back.

Workaround: none

### The PCMCIA, `pcic nexus`, driver, does not support 3.3Volts PC Card (4098998)

Description: The PCMCIA, `pcic nexus`, driver does not support 3.3V on devices. Cards that are 3.3V and 3.3V/5V will not work properly (seems to hang the system).

Workaround: none

### The PC ATA, `pcata`, disk driver crashes and hangs the system and causes a memory leaks (4106401)

Description: Most attempts to insert/remove and use PCMCIA cards will crash or hang the machine. If it does not crash the machine it can cause memory leaks or create situations where other modules will not load.

Workaround: none

## When booting Solaris 7 initially with 64-bit kernel the device `/dev/term/pc0`, PC card serial driver, may not get created (4162969)

Description: When booting Solaris 7 initially with 64-bit kernel, `/dev/term/pc0` hardware device node for PC card serial device may not be created.

Workaround: Boot the system up with 32-bit kernel first, then reboot with 64-bit kernel.

## The PC ATA, `pcata`, driver panics the 64-bit kernel (4174177)

Description: Inserting the PC card after system init panics the 64-bit Solaris. Booting the 32-bit Solaris and accessing the card will not panic the system. The PC ATA driver is not a 64-bit driver.

Workaround: none

---

# PC File Viewer Issues

## Install in the `/opt` Directory

The *Solaris 7 Sun Hardware Platform Guide* provides installation instructions that may indicate that PC file viewer can be installed in a directory other than the default directory. PC file viewer *must* be installed in the default (`/opt`) directory.

## Known Bugs

Backdrop image is not displayed in PowerPoint97 document (4159447)

Cannot display non-standard fonts in PowerPoint97 (4159448)

Excel graph/table in PowerPoint97 document is not displayed (4159449)

Can not display scaled font, colored text, italic-underlined text in PowerPoint97 (4159450, 4159451, 4159452)

Copy and Paste of certain files into a text editor results in \* (asterisks) instead of actual text (4165089)

Searching does not work for multi-byte (tch, ko) in PC file viewer (4151774)

Wrong string is reversed in PC file viewer search on Japanese locales (4171815)

Cannot display TCH Word95 saved in Word97 or PowerPoint97 formats in zh.TW.BIG5 locale (4150413)

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## Hardware Support Matrices Errata

The following systems and peripherals were unintentionally left out of the hardware support matrices in the Hardware.ps file on the Solaris 7 Sun Computer Systems Supplement CD.

- Sun Enterprise 3500, 4500, 5500, and 6500
- Sun StorEdge D1000
- Sun StorEdge L140
- Sun StorEdge L280
- Sun StorEdge L400
- Sun StorEdge ETL4/1000
- Sun StorEdge ETL7/3500
- Sun StorEdge ETL4/1800

This information will be added to the support matrices in a future release.

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## Solaris on Sun Hardware AnswerBook

The following problems with Solaris on Sun Hardware AnswerBooks have been reported.

### AnswerBooks for Europe and Japan

Some cross-references (links) in documents in these AnswerBooks may display incorrectly. For example, whole paragraphs may appear to be links rather than a few specific words within the paragraph.

Some links may connect to the wrong location. For example, a link to a procedure may connect to the end of the procedure rather than the beginning of the procedure.



# PCI:SBUS Comparison Manual

This manual refers to a web site, on page i and page 9, that is no longer accessible (<http://shasta.corp.sun.com/Rte66>). Do not attempt to access this URL.

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## Serial Parallel Controller Driver

### Serial Parallel Controller Driver Does Not Support Dynamic Reconfiguration (4177805)

Contact your service provider for availability of patch 106827-01. The patch is not available at the time of this release.

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## Copackaged software fails to install using Web Start default configurations because of small file (partition) size (4176615)

There may be cases where Web Start can not install every software package included with your Solaris 7 media kit, like software from the Software Supplement for the Solaris 7 Operating Environment CD. The bug that may prevent installation happens when using Web Start's default settings, because the default disk partition size may be too small for all products.

Workaround:

1. **Run WebStart and select the "Custom Installation" button. Select "3. Lay Out File Systems".**
2. **In the "Custom Install" window, select "Manually" and then click on the "Next" button.**
3. **In the "Custom Install Lay Out File Systems" window, verify the disk to install on is in the "Selected Disks" column and then click on the "Next" button.**
4. **De-select `/opt` and `/usr` and then click on the "Next" button.**

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**Note** - When making a selection be sure to click on each choice once. Some windows may take longer than others to appear.

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5. On the next window, click on the "Modify..." button.
6. In the "Disk Layout" window, perform the following:
  - a. Omit slice 3 (i.e. /export/home and the size, 225)
  - b. Reallocate the disk file size you just removed to slice 0 (i.e. /), for example:

TABLE 3-2 Example

Slice	File System	Size
0	/	1900
1	swap	128

- c. Select "OK" on the "Disk cxtxdx" menu.
7. In the "Lay Out File Systems" window, click on the "Finish" button.
8. In the "Option" window, click on the "Install... " button.
9. In the "Current Install Configuration" window, click on the "Install Now" button. The installation begins.
10. In the next "CoPackaged Install" menu, begin installing the software from the various CDs.

This completes the steps needed to work around the bug.