

# Solaris 9 8/03 Release Notes

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# **Preface**

The *Solaris 9 8/03 Release Notes* contain installation problem details and other information that was not available until immediately before the release of the Solaris<sup>TM</sup> 9 8/03 operating environment.

**Note** – The Solaris operating environment runs on two platforms, SPARC<sup>®</sup> and x86. The Solaris environment also runs on 64-bit and 32-bit address spaces. The information in this document pertains to both platforms and address spaces unless otherwise specified in a special chapter, section, note, bulleted item, figure, table, or example.

### Who Should Use This Book

These notes are for users and system administrators who install and use the Solaris 9 8/03 operating environment.

#### **Related Books**

You might need to refer to the following manuals when you install Solaris software:

- GNOME 2.0 Desktop Collection
- *iPlanet Directory Server 5.1 Collection (Solaris Edition)*
- Solaris 9 Start Here
- Solaris 9 Installation Guide
- *Solaris 9 8/03 Release Notes*, which are available through the following media:
  - The *Solaris 9 8/03 Release and Installation Collection* on the Solaris 9 8/03 Documentation CD
  - Print documentation that accompanies the product (installation issues and bugs only)
  - http://docs.sun.com (the most up-to-date information)

- Solaris 9 System Administrator Collection
- Solaris 9 User Collection
- Sun ONE Application Server 7 Collection (Solaris Edition)
- What's New in the Solaris 9 8/03 Operating Environment

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For information on current CERT advisories, see the official CERT Web site at http://www.cert.org.

For some hardware configurations, you might 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, such as Solaris 9 Sun Hardware Platform Guide, for hardware-specific installation instructions.

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### **Typographic Conventions**

The following table describes the typographic changes used in this book.

**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% <b>su</b> 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.

# **Shell Prompts in Command Examples**

The following table shows the default system prompt and superuser prompt for the  $\ensuremath{\mathsf{C}}$ shell, Bourne shell, and Korn shell.

TABLE P-2 Shell Prompts

Shell	Prompt
C shell prompt	machine_name%
C shell superuser prompt	machine_name#
Bourne shell and Korn shell prompt	\$
Bourne shell and Korn shell superuser prompt	#

# **Installation Issues**

This chapter describes problems that relate to the installation of the Solaris 9 8/03 operating environment.

For late-breaking Solaris installation issues that were not identified in time to be included in these release notes, refer to the *Solaris 9 8/03 Release and Installation Collection* on http://docs.sun.com.

### Issues You Need to Know About Before Installing Solaris 9 8/03 Software

#### x86: Solaris 9 8/03 Installation CD Partition Issue

If the Solaris Web Start 3.0 program on the Solaris 9 8/03 Installation CD is unable to locate a Solaris fdisk partition on a system, you must create a Solaris fdisk partition on your root disk.



**Caution** – If you change the size of an existing fdisk partition, all data on that partition is automatically deleted. Back up your data before you create a Solaris fdisk partition.

The Solaris Web Start 3.0 program requires two fdisk partitions to perform an installation.

- Solaris fdisk partitionThis is the typical Solaris fdisk partition.
- x86 boot fdisk partition

This is a 10–Mbyte fdisk partition that enables x86-based systems to boot the miniroot that is placed on the newly created swap slice. The swap slice is located on the Solaris fdisk partition.

**Note** – The installation program on the Solaris 9 8/03 Installation CD creates the x86 boot partition, removing 10 Mbytes from the Solaris fdisk partition. This removal prevents any existing fdisk partitions from being altered.

This partition should not be created manually.

This requirement also prevents you from using the Solaris 9 8/03 Installation CD to upgrade from the Solaris 2.6 or Solaris 7 releases to the Solaris 9 8/03 operating environment. For more information, refer to "Upgrade Issues" on page 25.

#### x86: Change in Default Boot-Disk Partition Layout

In the Solaris 9 8/03 operating environment, the Solaris Web Start and suninstall installation programs use, by default, a new boot-disk partition layout to accommodate the Service partition on Sun LX50 systems. This installation program enables you to preserve an existing Service partition.

The new default includes the following partitions:

- First partition Service partition (existing size on system)
- Second partition x86 boot partition (approximately 11 Mbytes)
- Third partition Solaris partition (remaining space on the boot disk)

If you want to use this default layout, select Default when the Solaris Web Start or suninstall program asks you to choose a boot-disk layout.

**Note** – If you install the Solaris 9 8/03 (x86 Platform Edition) operating environment on a system that does not currently include a Service partition, the Solaris Web Start and suninstall programs do not create a new Service partition by default. If you want to create a Service partition on your system, see "x86: Service Partition Not Created by Default on Systems With No Existing Service Partition" on page 17.

You can also choose to manually edit the disk partition layout by using the fdisk utility. You might want to manually edit the boot-disk partitions under the following conditions:

- You want to preserve an existing Sun Linux partition on the system.
- You need to create a Solaris partition, but want to preserve other existing partitions on the disk.

**Note** – If your system contains an upgradable version of the Solaris operating environment, but does not contain an x86 boot partition, you might not be able to upgrade by using the Solaris Installation CD. To upgrade a system with no x86 boot partition to the Solaris 9 8/03 operating environment, use the suninstall installation program on the Solaris 9 8/03 Software 1 of 2 CD.

# SPARC: Default Solaris JumpStart Profile Might Not Install Multiple Locales on Small Disks

If you use the default Solaris JumpStart™ profile on the Solaris 9 8/03 media to install multiple locales on a system with a small disk, the installation might fail. This problem might occur under the following conditions.

- You use the default Solaris JumpStart profile to install any locale other than the C locale on a system with a 2.1-Gbyte disk.
- You use the default Solaris JumpStart profile to install two or more locales on a system with a 4-Gbyte disk.

# x86: Service Partition Not Created by Default on Systems With No Existing Service Partition

If you install the Solaris 9 8/03 operating environment on a system that does not currently include a Service partition, the installation program might not create a Service partition by default. If you are including a Service partition on the same disk as the Solaris partition, you must re-create the Service partition before you install the operating environment.

If you installed the Solaris 8 2/02 operating environment on a Sun LX50 system, the installation program might not have preserved the Service partition. If you did not manually edit the fdisk boot-partition layout to preserve the Service partition, the installation program deleted the Service partition during the installation.

**Note** – If you did not specifically preserve the Service partition when you installed the Solaris 8 2/02 operating environment, you cannot re-create the Service partition and upgrade to the Solaris 9 8/03 operating environment. You must perform an initial installation of the software.

**Workaround:** If you are including a Service partition on the disk that contains the Solaris partition, choose one of the following workarounds.

- To use the Solaris Web Start installation program to install from the Solaris 9 8/03 Installation CD, follow these steps.
  - 1. Delete the contents of the disk.

2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

For information on how to create the Service partition, see the *Sun LX50 Server User's Manual* and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

- 3. Insert the Solaris 9 8/03 Installation CD in the CD-ROM drive.
- 4. Begin the installation.

When the installation program detects the Service partition, the following message is displayed:

The default layout for the bootdisk is one x86 Boot partition and a Solaris partition on the remaining space. The Service fdisk partition, if one exists, is also preserved by default.

Select one of the following to continue:

- 1) Use the default layout
- 2) Run fdisk to manually edit the disk
- 3) Exit

Please make a selection: [?]

5. Type 1 to use the default layout.

The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

**Note** – The Solaris Web Start installation program creates the x86 boot partition by removing 10 Mbytes from the Solaris fdisk partition. This utility prevents any existing fdisk partitions from being altered. Do not create this partition manually.

- 6. Complete the installation.
- To install from a network installation image or from the Solaris 9 8/03 DVD over the network, follow these steps.
  - 1. Delete the contents of the disk.
  - 2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

For information on how to create the Service partition, see the *Sun LX50 Server User's Manual* and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

3. Boot the system from the network.

The Customize fdisk Partitions screen is displayed.

4. To load the default boot-disk partition layout, click Default.

The installation program preserves the Service partition and creates the x86 boot partition and the Solaris partition.

For more information on booting from the network, see the Solaris 9 Installation Guide.

- To use the suninstall program to install from the Solaris 9 8/03 Software 1 of 2 CD or from a network installation image on a boot server, follow these steps.
  - 1. Delete the contents of the disk.
  - 2. Before you install, create the Service partition by using the Sun LX50 Diagnostics CD.

For information on how to create the Service partition, see the Sun LX50 Server User's Manual and the Sun LX50 Knowledge Base at http://cobalt-knowledge.sun.com.

3. Boot the system.

The installation program prompts you to choose a method for creating the Solaris partition.

- 4. Select the Use rest of disk for Solaris partition option. The installation program preserves the Service partition and creates the Solaris partition.
- 5. Complete the installation.

For more information on booting from the network, see the Solaris 9 Installation Guide.

#### x86: Solaris Device Configuration Assistant Boot Diskette Is Not Available

The Solaris 9 Device Configuration Assistant is not delivered as a boot diskette in the Solaris 9 8/03 release. To boot the Device Configuration Assistant, choose one of the following options.

- If your system's BIOS supports CD booting, boot from the Solaris 9 8/03 (x86 Platform Edition) Installation CD, the Solaris 9 8/03 Software (x86 Platform Edition) 1 of 2 CD, or the Solaris 9 8/03 Software (x86 Platform Edition) DVD.
- Create a boot diskette by copying the boot-diskette image to a diskette. The boot-diskette image is available at the following locations.
  - Solaris 9 8/03 Software (x86 Platform Edition) 2 of 2 CD
  - The Solaris Developer Connection Web site at http://soldc.sun.com/support/drivers/dca diskettes

Copy the image to a diskette, then boot the system from the diskette.

If your system supports Preboot Execution Environment (PXE) booting and an install image is available on the network, boot from the network.

Enable the system to use PXE by using the system's BIOS setup tool or the network adapter's configuration setup tool.

For more information, see the Solaris 9 Installation Guide.

# x86: Update the DPT PM2144UW Controller BIOS to the Latest Revision Before Upgrading to the Solaris 9 8/03 Operating Environment

The Solaris 9 8/03 operating environment includes a feature that enables you to install large partitions. The DPT PM2144UW controller's BIOS must support logical block addressing (LBA). The latest revision of the BIOS fully supports LBA access. You might need to update other DPT controller models to support LBA.

**Workaround:** Prior to upgrading your system to the Solaris 9 8/03 operating environment, ensure that the DPT PM2144UW controller's BIOS is the latest available version from DPT.

To determine if your system has a DPT controller, perform the following steps:

- 1. Run the prtconf -D command.
- 2. If the name dpt is displayed, run the card's configuration utility to obtain information about the model and BIOS revision.
- 3. Upgrade DPT PM2144UW controllers by flashing the BIOS or by installing the latest BIOS EPROM that you have obtained from DPT. See http://www.dpt.com for the latest BIOS images for all DPT controllers.

You can now upgrade the system.

# x86: Do Not Upgrade Hewlett-Packard (HP) Vectra XU Series Systems With BIOS Version GG.06.13

The Solaris 9 8/03 operating environment includes a feature that enables you to install large partitions. The system BIOS must support logical block addressing (LBA). BIOS Version GG.06.13 does not support LBA access. The Solaris boot programs cannot manage this conflict. This issue can also affect other HP Vectra systems.

If you perform this upgrade, your HP system can no longer boot. Only a blank black screen with a flashing underscore cursor is displayed.

**Workaround:** Do not upgrade HP Vectra XU Series systems with the latest BIOS Version GG.06.13 to the Solaris 9 8/03 operating environment because it no longer supports these systems.

You can still boot your system by using the boot diskette or boot CD because the boot paths do not use the hard disk code. Then select the hard disk as your bootable device instead of the network or CD-ROM drive.

### Bugs You Need to Know About Before Installing Solaris 9 8/03 Software

# x86: suninstall Exits When Choosing to Save Service Partition and Create Solaris Partition (4832216)

If you use the suninstall installation program to install the Solaris 9 8/03 (x86 Platform Edition) operating environment on a system with an existing service partition, the installation program might exit. This problem occurs under the following conditions:

- You use the suninstall program to install the Solaris 9 8/03 operating environment.
- During the installation, you choose to lay out a disk with an existing service partition, but no Solaris fdisk partition.
- On the Create Solaris fdisk Partition panel, you choose the Save service partition, create Solaris fdisk partition option.

#### Workaround: Choose one of the following workarounds.

- To manually create a Solaris fdisk partition during the suninstall program, follow these steps:
  - 1. When the suninstall installation program asks you to choose a method to create the Solaris fdisk partition, choose the Manually create fdisk partitions option.
  - 2. Preserve the service partition and create the Solaris fdisk partition.
  - 3. Complete the installation.
- To manually create a Solaris fdisk partition by using the fdisk command, follow these steps:
  - 1. Exit from the suninstall installation program by pressing the F5 function key.
  - 2. Open a terminal window.
    - See the fdisk(1M) man page for more information on creating fdisk partitions.
  - Restart the suninstall installation program by typing the following command:
    - # suninstall
  - 4. Complete the installation.

# x86: Installations Might Fail on Systems With 3Com 3c905C Network Interface Cards (4791458)

If you perform a network installation on a system with a 3Com 3c905C network interface card, the following error message might be displayed:

elx1%d: no active connection found; please connect

After this error message is displayed, the installation might continue, or the installation might hang.

**Workaround:** Choose one of the following workarounds.

- Use a different network interface to perform the network installation.
- Use the Solaris 9 8/03 DVD or CD media to install the system.
- If you need to use the 3Com 3c905C network interface to perform a network installation, follow these steps.
  - 1. Contact your Solaris Beta Program Manager and request a replacement boot-floppy diskette for the Solaris 9 8/03 Beta release.
  - 2. When you receive the replacement boot-floppy diskette, perform the network installation.

For more information on how to perform an installation from the network, see the Solaris 9 Installation Guide

#### Boot From Solaris DVD Fails on Systems With Toshiba SD-M1401 DVD-ROM (4467424)

If your system has a Toshiba SD-M1401 DVD-ROM drive with firmware revision 1007, the system cannot boot from the Solaris 9 8/03 DVD.

Workaround: Apply patch 111649–03, or later version, to update the Toshiba SD-M1401 DVD-ROM drive's firmware. Patch 111649-03 is included on the Solaris 9 8/03 Supplement CD in the following directory.

DVD\_Firmware/Patches

See the README file in this directory for instructions on how to install the patch. Be sure to read and follow all the cautions and warnings in this README file before you install the patch.

### Cannot Access Data on Solaris 9 8/03 DVD in Solaris 2.6 and Solaris 7 **Operating Environments (4511090)**

If your system is running the Solaris 2.6 or Solaris 7 operating environment, Volume Management incorrectly mounts the Solaris 9 8/03 DVD. The DVD can be mounted, but the data is inaccessible. As a result, you cannot set up an install server, perform a Live Upgrade, or access any data on the media.

**Workaround:** Choose one of the following workarounds.

■ Apply the patches appropriate for your system.

TABLE 1-1 DVD Patches for the Solaris 2.6 and Solaris 7 Operating Environments

Release	Patch ID
Solaris 2.6 operating environment	107618-03
Solaris 7 operating environment	107259-03
Solaris 2.6 operating environment	107619-03
Solaris 7 operating environment	107260-03

- Manually mount the Solaris 9 8/03 DVD. Do not use Volume Management to mount the DVD. Follow these steps.
  - 1. Become superuser.
  - 2. Stop Volume Management.
    - # /etc/init.d/volmgt stop
  - 3. Manually mount the DVD.

```
# mkdir /mnt1
```

- # mount -F hsfs -o ro /dev/dsk/c0t6d0s0 /mnt1
- 4. Verify that the DVD is mounted and the data is accessible.

```
# cd /mnt1
```

# 1s

The system returns the following information if the DVD is correctly mounted.

```
Copyright Solaris_9
```

### **Installation Bugs**

### SPARC: Systems With Multiple Interfaces Recognize All Interfaces as Usable After Installation or Upgrade (4640568)

If you install or upgrade to the Solaris 9 8/03 operating environment on a system with multiple network interfaces, the system recognizes all system interfaces as usable. Interfaces that are not plugged in to the network or that are not intended for use appear in the output of the ifconfig -a command. Additionally, interfaces with identical Ethernet addresses might be assigned identical IP addresses. The following error message is displayed.

```
ifconfig: setifflags: SIOCSLIFFLAGS: qfe3: Cannot assign requested address
```

This problem also occurs on systems that have the local-mac-address PROM variable set to false. The problem occurs because all interfaces are configured with the same IP address.

Workaround: Choose one of the following workarounds.

- To plumb only the configured interface, reboot the system after the initial boot.
- To assign a different IP address to each network interface, set the local-mac-address PROM variable to true in one of the following ways.
  - At the ok prompt, type the following command.

```
ok setenv local-mac-address? true
```

■ In a terminal window, type the following command as superuser.

```
# eeprom local-mac-address?=true
```

### Installation Bugs That Occur During an Installation From Solaris 9 8/03 Software 1 of 2 CD

### Warnings Might Occur When a File System Is Created (4189127)

When a file system is created during installation, one of the following warning messages might be displayed.

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

Warning: 1 sector(s) in last cylinder unallocated

The warning occurs when the size of the file system that you created does not equal the space on the disk that is being used. This discrepancy 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 warning message.

#### Bug That Occurs During an Installation or an Upgrade

### Invalid Error Message Encountered When Installing Solaris WBEM Providers Package SUNWwbpro (4824518)

When you install the Solaris 9 8/03 operating environment, the following error message is recorded in the /var/sadm/system/logs/install log file:

```
/tmp/Solaris_Application.mof: No such file or directory
```

If you upgrade to the Solaris 9 8/03 operating environment, the same error message is recorded in the /var/sadm/system/logs/upgrade log file.

The message is encountered during the installation of the Solaris WBEM Providers Package (SUNWwbpro).

Workaround: Ignore the error message. This message does not affect the installation of the package. The error occurs because the installation program attempts to delete a temporary file that does not exist.

### **Upgrade Issues**

#### Cannot Access Storage Area Networks Through SUNWsan With Solaris 9 8/03 **Operating Environment**

If your Solaris 8 system is connected to storage area networks (SANs), check with your support engineer before you upgrade to the Solaris 9 8/03 operating environment. Solaris 8 systems with the SUNWsan package installed might require special procedures to upgrade to the Solaris 9 8/03 operating environment. To find out if the SUNWsan package is installed on the system, type the following command in a terminal window.

#### # pkginfo SUNWsan

If the SUNWsan package is installed, the following information is displayed.

system SUNWsan SAN Foundation Kit

#### x86: Cannot Use Solaris 9 8/03 (x86 Platform Edition) Installation CD to Upgrade x86 Systems to the Solaris 9 8/03 Operating Environment

You cannot use Solaris 9 8/03 (x86 Platform Edition) Installation CD to upgrade x86-based systems from the Solaris 2.6 or Solaris 7 operating environment to the Solaris 9 8/03 operating environment because of the x86 boot-partition requirement. Use the Solaris 9 8/03 Software (x86 Platform Edition) 1 of 2 CD to upgrade from the Solaris 2.6 or Solaris 7 operating environment to the Solaris 9 8/03 operating environment on x86-based systems.

### Solaris Management Console 2.1 Software Is Not Compatible With Solaris Management Console 1.0, 1.0.1, or 1.0.2 Software

Solaris Management Console 2.1 software is not compatible with Solaris Management Console 1.0, 1.0.1, or 1.0.2 software. If you are upgrading to the Solaris 9 8/03 operating environment, and you have Solaris Management Console 1.0, 1.0.1, or 1.0.2 software installed, you must first uninstall the Solaris Management Console software before you upgrade. Solaris Management Console software might exist on your system if you installed the SEAS 2.0 overbox, the SEAS 3.0 overbox, or the Solaris 8 Admin Pack.

**Workaround:** Choose one of the following workarounds.

- Before you upgrade, use the /usr/bin/prodreg command to perform a full uninstall of Solaris Management Console software.
- If you did not uninstall Solaris Management Console 1.0, 1.0.1, or 1.0.2 software before you upgraded to the Solaris 9 8/03 operating environment, you must first remove all Solaris Management Console 1.0, 1.0.1, or 1.0.2 packages. Use the pkgrm

command for package removal instead of the prodreg command. Carefully follow the order of package removal. Complete the following steps.

- 1. Become superuser.
- 2. Type the following command.

```
# pkginfo | grep "Solaris Management Console"
```

If the description does not start with "Solaris Management Console 2.1," the package names in the output identify a Solaris Management Console 1.0 package.

3. Use the pkgrm command to remove all instances of Solaris Management Console 1.0 packages in the following order.

**Note** – Do not remove any package that has "Solaris Management Console 2.1" in its description. For example, SUNWmc . 2 might indicate Solaris Management Console 2.1 software.

If the pkginfo output displays multiple versions of Solaris Management Console 1.0 packages, use the pkgrm command to remove both packages. Remove the original package and then remove the package that has been appended with a number. For example, if the SUNWmcman and SUNWmcman. 2 packages appear in the pkginfo output, first remove the SUNWmcman package and then remove the SUNWmcman. 2 package. Do not use the prodreg command.

- # pkgrm SUNWmcman
  # pkgrm SUNWmcapp
  # pkgrm SUNWmcsvr
  # pkgrm SUNWmcsvu
  # pkgrm SUNWmc
  # pkgrm SUNWmc
  # pkgrm SUNWmcc
  # pkgrm SUNWmcsws
- 4. In a terminal window, type the following command.

```
# rm -rf /var/sadm/pkg/SUNWmcapp
```

The Solaris Management Console 2.1 software should now function properly. For future maintenance, or if the Solaris Management Console 2.1 software does not function properly, remove the Solaris Management Console 2.1 software. Reinstall the software by completing the following steps.

1. Use the pkgrm command to remove all Solaris Management Console 2.1 packages and dependent packages in the following order.

**Note** – If your installation has multiple instances of Solaris Management Console 2.1 packages, such as SUNWmc and SUNWmc.2, first remove SUNWmc, and then SUNWmc. 2. Do not use the prodreg command.

```
# pkgrm SUNWpmgr
# pkgrm SUNWrmui
# pkgrm SUNWlvmg
# pkgrm SUNWlvma
# pkgrm SUNWlvmr
# pkgrm SUNWdclnt
# pkgrm SUNWmga
# pkgrm SUNWmgapp
# pkgrm SUNWmcdev
# pkgrm SUNWmcex
# pkgrm SUNWwbmc
# pkgrm SUNWmc
# pkgrm SUNWmcc
# pkgrm SUNWmccom
```

2. Insert the Solaris 9 8/03 Software 1 of 2 CD into your CD-ROM drive. Type the following in a terminal window.

```
# cd /cdrom/sol_9_803_sparcia/s0/Solaris_9/Product
# pkgadd -d . SUNWmccom SUNWmcc SUNWmc SUNWbmc SUNWmcex SUNWmcdev \
  SUNWmgapp SUNWmga SUNWdclnt SUNWlvmr SUNWlvma SUNWlvmg SUNWpmgr \
  SUNWrmui
```

All previous Solaris Management Console versions are removed. The Solaris Management Console 2.1 software is now functional.

## Installation Bugs That Occur During an Upgrade

## SPARC: Solaris Live Upgrade Boot Environment Creation Fails When **Upgrading from the Solaris 2.6 Release (4840547)**

When you try to create a new boot environment with Solaris Live Upgrade and you are running the Solaris 2.6 release, the creation fails with the following error:

```
Configuration of boot environment failed.
```

The lucreate command checks for the libcurses. so library in the wrong directory.

Workaround: If you are running the Solaris 2.6 release, use any other upgrade method to upgrade your current boot environment.

#### Upgrade Fails to Install SUNWceudt Package (4826785)

If you upgrade from the Solaris 9, Solaris 9 9/02, Solaris 9 12/02, or Solaris 9 4/03 operating environment to the Solaris 9 8/03 release, the following errors occur when you use the pkgchk command with the -n option:

```
ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/datatypes.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/develop.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtfile.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtmail.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/dtpad.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/print.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/print.dt pathname does not exist

ERROR: /usr/dt/appconfig/types/cs_CZ.ISO8859-2/uxstd.dt pathname does not exist
```

**Workaround:** Use the Solaris 9 8/03 DVD or the Solaris 9 8/03 Software 1 of 2 CD to add back the SUNWceudt package. Follow these steps:

- 1. Become superuser.
- 2. Remove the SUNWceudt package.
  - # pkgrm SUNWceudt
- 3. Change directories to the product directory.
  - # cd path-to-Solaris-9/Product
- Add the SUNWceudt package.
  - # pkgadd -d 'pwd' SUNWceudt

# Manually Register VDiskMgr.jar File Delivered by Patch 114711-01 or 114712-01 After Upgrading (4818306)

If you applied on your system patch 114711-01 (SPARC Platform Edition), or patch 114712-01 (x86 Platform Edition), you must manually register the VDiskMgr.jar file delivered with these patches after you upgrade to the Solaris 9 8/03 operating environment. If you do not manually register the VDiskMgr.jar file that is delivered with the patch, the existing VDiskMgr.jar file remains on your system. In addition, the patch does not fully fix the problem.

To determine if either of these patches is installed on your system, type one of the following commands:

- SPARC systems:
  - # patchadd -p | grep '114711-01'
- x86 systems:

```
# patchadd -p | grep '114712-01'
```

Workaround: Manually register the VDiskMqr.jar file delivered with the two specified patches after you upgrade to the Solaris 9 8/03 operating environment. Follow these steps:

- 1. Become superuser.
- 2. Replace the existing VDiskMqr.jar file with the .jar file delivered with the patch.

```
# /usr/sadm/bin/smcregister tool -n \
com.sun.admin.diskmgr/VDiskMgr.jar \
/usr/sadm/lib/diskmgr/VDiskMgr.jar \
/usr/sadm/lib/dismgr/VDiskMgr_classlist.txt \
/usr/sadm/lib/diskmgr/VDiskMgrInfo.xml > /dev/null 2>$1
```

3. Replace the existing VDiskMgr in the tools box with the VDiskMgr tool delivered in the patch.

```
# /usr/sadm/bin/smcregister toolbox add -f tool \
com.sun.admin.diskmgr.client.VDiskMgr \
-F "/Storage/" >/dev/null 2>&1
```

- 4. Stop the WBEM server.
  - # /etc/init.d/init.wbem stop
- 5. Restart the WBEM server.
  - # /etc/init.d/init.wbem start

#### Installer Text Display Problem When Using Solaris Live Upgrade (4736488)

When using the Solaris Live Upgrade luupgrade (1M) command with the -i option to complete an upgrade of an inactive boot environment, the text that the installers display might be unreadable in some languages. The text is corrupted when the installers request fonts that do not exist on the older release that is on the current boot environment.

Workaround: Choose one of the following workarounds.

- Use a combined network installation image to do the install.
- Enable the C locale by setting the environment variable on your system.
  - If you are using the Bourne shell or Korn shell, follow these steps.
    - 1. Set the C locale.

```
# LANG=C; export LANG
```

- 2. Begin the installation.
- If you are using the C shell, follow these steps.
  - 1. Type the following.
    - # csh

- 2. Set the C locale.
  - # setenv LANG C
- 3. Begin the installation.

#### SPARC: luupgrade Command Cannot Add Patches When a Patch List File Is **Specified (4679511)**

If you use the -s option with the luupgrade command to add patches with a directory and a patch list file, the patches are not added. A message similar to the following message is displayed:

```
/usr/sbin/luupgrade [52]:
                                      3 patch-list-file: bad number
```

In the previous message, patch-list-file is the patch list file you specified for the luupgrade command to use to add patches.

**Workaround:** To add patches that specify a patch list file, perform the following steps.

- 1. Become superuser.
- 2. Mount the boot environment that you are patching.
  - # lumount boot-envir-name mount-point
- 3. Add the patches to the boot environment.

```
# /usr/sbin/patchadd -R mount-point -M patch-path patch-list-file-name
```

In the previous command, *patch-path* is the path name of a directory that contains patches to add. The patch-list-file-name is the file that contains the list of patches you are adding.

4. Unmount the boot environment.

```
# luumount boot-envir-name
```

### SPARC: Removal of SUNWixcft Package Records Error During Upgrade (4525236)

When you upgrade from the Solaris 8 operating environment to the Solaris 9 or the Solaris 9 8/03 operating environment, a problem is encountered when the SUNWjxcft package is removed. The following error message is recorded in the upgrade log file:

```
Removing package SUNWjxcft:
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.upr
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.scale
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TTbitmaps/fonts.alias
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.upr
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.scale
Can't open /a/usr/openwin/lib/locale/ja/X11/fonts/TT/fonts.alias
Removal of <SUNWjxcft> was successful
```

**Workaround:** Ignore the error message.

#### **Upgrading From Solaris 8 Operating Environment Might Create Redundant Kerberos Privacy Mechanisms (4672740)**

In the Solaris 9 8/03 operating environment, the Kerberos version 5 global mechanism includes privacy support. Therefore, the Kerberos domestic mechanism is not needed. If you installed the Kerberos domestic mechanism that is located in /usr/lib/gss/do/mech krb.so.1 on a Solaris 8 system, remove the Kerberos domestic mechanism, then upgrade the system to the Solaris 9 8/03 operating environment.

Workaround: Follow these steps before you upgrade to the Solaris 9 8/03 operating environment.

1. Type the following command to determine if the Kerberos domestic mechanism is installed on the system.

```
% pkginfo | fgrep ' SUNWk5'
```

- If the output of this command includes any SUNWk5 package names, the Kerberos domestic mechanism is installed on the system. Go to step 2.
- If the output does not include any SUNWk5 package names, the Kerberos domestic mechanism is not installed on the system. Skip the rest of these steps. Upgrade the system.
- 2. Back up the /etc/nfssec.conf and /etc/gss/qop files by typing the following command.

```
% tar -cf /var/tmp/krb_config_files.tar /etc/nfssec.conf /etc/gss/qop
```

3. Verify that the files are backed up by typing the following command.

```
% tar -tf /var/tmp/krb_config_files.tar
```

4. Remove each package that is listed in the output of step 1.

```
% pkgrm package-name package-name package-name
```

5. Upgrade to the Solaris 9 8/03 operating environment.

The upgrade program updates the global Kerberos mechanism code and enables Kerberos privacy support.

- 6. In a text editor, change the following lines in the /etc/gss/mech file.
  - Uncomment the following line.

```
kerberos v5
               1.2.840.113554.1.2.2
                                        gl/mech krb5.so gl kmech krb5
```

If necessary, add the previous line to the /etc/gss/mech file.

■ Remove the following line.

```
kerberos v5
               1.2.840.113554.1.2.2
                                        do/mech krb5.so do kmech krb5
```

Restore the /etc/nfssec.conf and /etc/gss/qop files by typing the following command.

```
% tar -xf /var/tmp/krb config files.tar
```

#### Upgrading to Solaris 9 8/03 Operating Environment Might Disable Existing Secure Shell Daemon (sshd) (4626093)

If you upgrade to the Solaris 9 8/03 operating environment on a system that is running a third-party Secure Shell, such as OpenSSH, from the /etc/init.d/sshd daemon, the upgrade disables the existing Secure Shell daemon. During an upgrade, the Solaris 9 8/03 upgrade software overwrites the contents of /etc/init.d/sshd.

**Workaround:** Choose one of the following workarounds.

- If you do not want the Secure Shell protocol server program on your system, do not install the SUNWsshdr and SUNWsshdu packages during the upgrade.
- If you do not want the Secure Shell protocol server or client programs on your system, do not install the Secure Shell Cluster (SUNWCssh) during the upgrade.

#### Upgrade Fails if /export Is Near Capacity (4409601)

If the /export directory is near full capacity and you upgrade to the Solaris 9 8/03 operating environment, space requirements for /export are miscalculated. The upgrade then fails. This problem commonly occurs if a diskless client is installed, or if third-party software is installed in the /export directory. The following message is displayed:

WARNING: Insufficient space for the upgrade.

Workaround: Before you upgrade, choose one of the following workarounds.

- Rename the /export directory temporarily, until the upgrade is completed.
- Temporarily comment out the /export line in the /etc/vfstab file until the upgrade is completed.
- If /export is a separate file system, then unmount /export before you perform the upgrade.

#### **Upgrading Diskless Client Servers and Clients (4363078)**

If your system currently supports diskless clients that were installed with the Solstice AdminSuite<sup>TM</sup> 2.3 Diskless Client tool, you must perform two steps. First, delete all existing diskless clients that are the same Solaris version and architecture as the server. Then, install or upgrade to the Solaris 9 8/03 operating environment. For specific instructions, see the System Administration Guide: Basic Administration.

If you attempt to install the Solaris 9 8/03 operating environment over existing diskless clients, the following error message might be displayed:

The Solaris Version (Solaris version-number) on slice <xxxxxxxx> cannot be upgraded.

There is an unknown problem with the software configuration installed on this disk.

In this error message, version-number refers to the Solaris version that is currently running on your system. <xxxxxxxx> refers to the slice that is running this version of the Solaris operating environment.

### Installation Bugs That Occur After an Upgrade

#### SPARC: Removing Patches After Upgrade Might Corrupt WBEM Repository (4820614)

The WBEM Repository CIM database can be corrupted under the following conditions:

- You apply a revision of patch 112945 for a Solaris 9 Update Release to a system that is running the Solaris 9 operating environment.
- You then remove the patch that was applied to the system.

If the WBEM Repository is corrupted, the following error message is displayed in the Solaris Management Console Log Viewer:

```
CIM ERR FAILED:
/usr/sadm/lib/wbem/../../var/sadm/wbem/logr/
preReg/PATCH113829install/Solaris_Application.mof,18,ERR_SEM,
ERR EXC SET CLASS, CIM ERR FAILED: Other Exception:
java.io.StreamCorruptedException: invalid stream header
```

**Workaround:** Choose one of the following workarounds.

- Follow these steps to prevent the WBEM Repository from being corrupted.
  - 1. Become superuser.
  - 2. Before you apply the patch, back up the WBEM Repository.

```
# cp -r /var/sadm/wbem/logr path/logr
```

where *path* is the path to the backup WBEM Repository.

- 3. If the WBEM Repository is corrupted after you back out the patch, stop the WBEM server.
  - # /etc/init.d/init.wbem stop
- 4. Restore the backup WBEM Repository.

```
# cp -rf path/logr /var/sadm/wbem/logr
```

- 5. Restart the WBEM server.
  - # /etc/init.d/init.wbem start
- Follow these steps to create a new WBEM Repository.

**Note** – This workaround does not restore the WBEM data if the WBEM Repository is corrupted. Any data that was added to the repository during the installation is lost.

- 1. Become superuser.
- 2. Stop the WBEM server.
  - # /etc/init.d/init.wbem stop
- 3. Remove the files from the /logr directory.
  - # rm /var/sadm/wbem/logr/\*
- 4. Remove the /notFirstTime directory.
  - # rmdir notFirstTime
- 5. Start the WBEM server.
  - # /etc/init.d/init.wbem start
- 6. Manually compile any proprietary Managed Object Format (MOF) files.
  - # /usr/sadm/bin/mofcomp MOF-filename

#### 64-Bit Solaris Issues

# SPARC: Sun UltraSPARC System (Sun40) Might Need Boot Flash PROM Update

**Note** – If your system is already running 64-bit ready firmware, then the flash PROM update is not required.

If you want to run the 64-bit Solaris operating environment on an UltraSPARC® system, you might need to update its flash PROM firmware. The Solaris 9 8/03 installation programs enable you to add 64-bit support. This 64-bit support is selected by default when you install on Sun UltraSPARC systems. A 64-bit system only boots in the 64-bit mode by default if it has a CPU speed of 200 MHz or greater.

**Note** – If you choose to run the 32-bit Solaris operating environment on any  $Sun^{TM}$  or UltraSPARC system, the flash PROM update is not needed.

The following table lists the UltraSPARC (Sun4U<sup>TM</sup>) systems that are affected and the minimum firmware versions that are needed. *System type* is the equivalent of the output of the uname -i command. You can determine which firmware version you are running by using the prtconf -V command.

TABLE 1-2 Minimum Firmware Versions Required to Run 64-Bit Solaris Operating Environment on UltraSPARC Systems

System Type From uname -i	Minimum Firmware Version From prtconf -V
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 a system is not listed in the previous table, it does not need a flash PROM update.

For instructions on how to perform the flash PROM update by using the Solaris CD, refer to the Solaris 9 on Sun Hardware Collection. If you do not have this manual, you can obtain it at http://docs.sun.com.

#### **Documentation CD Issue**

### **Cannot Install Documentation Packages With Names Longer Than Nine** Characters on Documentation Servers Running the Solaris 2.6, 7, and 8 **Operating Environments**

Some localized documentation collections in PDF format have package names that are longer than nine characters. To install these PDF collections on servers that are running the Solaris 7 or 8 operating environment, you must first install two patches.

**Note** – No patches exist at the time of this release for Solaris 2.6 servers.

**Workaround:** For instructions on how to install these patches, see the Solaris Documentation Important Information file on the documentation media, Solaris 9 8/03 Documentation CD 1 of 2, 2 of 2, or DVD. This file is located in the following directory:

mount-point/README/locale/install locale.html

For example, the English file on the Solaris 9 8/03 Documentation CD 1 of 2 is located in the following directory:

sol 9 doc 1of2/README/C/install C.html

### **Documentation CD Installation Bugs**

# Uninstall Mode of Solaris 9 8/03 Documentation CD uninstaller Utility Does Not Work Properly (4675797)

If you run the Solaris 9 8/03 Documentation CD uninstaller in Uninstall All mode, the uninstaller removes only those documentation packages that are installed by default.

**Workaround:** Run the uninstaller in Uninstall Partial mode. Select the specific packages you want to uninstall.

# Documentation CD Verify Panel Might Not Page in Command-Line Interface Mode (4520352)

If you use the Solaris 9 8/03 Documentation CD installer program with the nodisplay option, the verify panel might not page correctly.

**Workaround:** Do not specify the nodisplay option with the Solaris 9 8/03 Documentation CD installer program. Use the graphical user interface (GUI) mode to install the Solaris 9 8/03 Documentation CD.

## **Localization Issue That Occurs During Installation**

#### **Additional Related Locales Might Be Installed**

When you select a locale for your installation, additional related locales might also be installed. This change in behavior occurs in the Solaris 9 8/03 operating environment because all full locales, with message translations, and the Asian and Japanese partial locales, locale enabler, have been repackaged based on language support for locales. Other partial locales are still packaged and installed based on geographic region, such as Central Europe.

#### **Localization Bugs That Occur During Installation**

# Solaris 9 Beta Refresh Chinese CDE Font Packages Do Not Upgrade to Solaris 9 8/03 Operating Environment (4653908)

If you upgrade to the Solaris 9 8/03 operating environment on a system that runs the Solaris 9 Beta Refresh operating environment with Simplified Chinese or Traditional Chinese locale support, the upgrade is not completed successfully. The Simplified Chinese and Traditional Chinese CDE font localization packages (SUNWcdft or SUNWhdft) do not upgrade to the appropriate Solaris 9 8/03 packages. The following error message is displayed.

Removing package SUNWcdft:
/a/var/sadm/pkg/SUNWcdft/install/postremove:
/a/usr/dt/config/xfonts/zh\_CN.EUC: does not exist
/a/var/sadm/pkg/SUNWcdft/install/postremove:

```
/a/usr/dt/config/xfonts/zh CN.GBK: does not exist
/a/var/sadm/pkg/SUNWcdft/install/postremove:
  /a/usr/dt/config/xfonts/zh_CN.UTF-8: does not exist
pkgrm: ERROR: postremove script did not complete successfully
```

Workaround: Before you upgrade to the Solaris 9 8/03 operating environment, remove the appropriate Solaris 9 Beta Refresh postremove files.

```
# rm /var/sadm/pkg/SUNWcdft/install/postremove
# rm /var/sadm/pkg/SUNWhdft/install/postremove
```

## **Upgrading Systems Running Solaris 8 Operating Environment With Full** Thai/Russian/Polish/Catalan Support Leaves Invalid Packages on System (4650059)

An upgrade to the Solaris 9 8/03 operating environment on a system that runs the Solaris 8 operating environment with the Solaris 8 Language Supplement CD installed, results in several invalid packages. Thai, Russian, Polish, and Catalan locale packages remain on the system. These locale packages have an ARCH=sparcall value and are not removed during the upgrade to the Solaris 9 8/03 operating environment.

Workaround: Before you upgrade to the Solaris 9 8/03 operating environment, use the Solaris Product Registry application to remove the Solaris 8 Languages Supplement CD packages.

# Solaris Runtime Issues

This chapter describes runtime issues that are known to be problems. For late-breaking Solaris runtime issues that were not identified in time to be included in these release notes, refer to the *Solaris 9 8/03 Release Notes* in the *Solaris 9 8/03 Release and Installation Collection* on http://docs.sun.com.

# **Smart Card Bugs**

#### System Does Not Respond to Smart Card (4415094)

If ocfserv terminates and the display is locked, the system remains locked even when a smart card is inserted or removed.

**Workaround:** Perform the following steps to unlock your system.

- 1. Perform a remote login to the machine on which the ocfserv process terminated.
- 2. Become superuser.
- 3. Kill the dtsession process by typing the following in a terminal window.
  - # pkill dtsession

ocfserv restarts and smart card login and capability are restored.

# **Edit Config File Menu Item in Smartcards Management Console Does Not Work (4447632)**

The Edit Config File menu item in the Smartcards Management Console does not edit smart card configuration files that are located in

/etc/smartcard/opencard.properties. If the menu item is selected, a warning is displayed that indicates not to continue unless requested by technical support.

**Workaround:** Do not use the Edit Config File menu item in the Smartcards Management Console. For information on smart card configuration, see the *Solaris Smartcard Administration Guide*.

# **Common Desktop Environment (CDE) Bugs**

# ${ m mp}$ Print Command Fails in European and Russian Unicode/UTF-8 Locales if American English, Chinese, or Korean Unicode/UTF-8 locales Not Installed (4805695)

If you install any of the following European or Russian Unicode/UTF-8 locales, and do not also install the American English, Chinese, or Korean Unicode/UTF-8 locales, the mp print command fails.

- de\_DE.UTF-8
- fr\_FR.UTF-8
- it\_IT.UTF-8
- es\_ES.UTF-8
- sv\_SE.UTF-8
- ru RU.UTF-8

The mp print command will abort the print job and display the following error message:

```
mp: config file line: 46, cannot stat font file
(/usr/openwin/lib/locale/zh.GBK/X11/fonts/TrueType/songti.ttf)
```

**Note** – This error also occurs in other CDE desktop applications: dtmail and dtpad, for example.

For more information about the mp print command, see the mp(1) man page.

**Workaround:** Choose from one of the following workarounds.

- For a new installation or upgrade to the Solaris 9 8/03 operating environment, select and install one or more of the following American English, Chinese, or Korean Uniocde/UTF-8 locales:
  - en\_US.UTF-8
  - zh\_CN.UTF-8
  - zh\_HK.UTF-8
  - zh\_TW.UTF-8
  - ko\_KR.UTF-8
- If you have already completed the installation or upgrade, manually add the SUNWgttf package that is located on the the Solaris 9 8/03 software 1 of 2 CD or netimage. Complete the following steps:
  - 1. Log in to the system as superuser.
  - 2. Insert the Solaris 9 8/03 software 1 of 2 CD.
  - 3. Change to the /cdrom/sol\_9\*/s0/Solaris\_9/Product directory.

```
# cd /cdrom/sol 9*/s0/Solaris 9/Product
```

4. Add the SUNWgttf package.

```
# pkgadd -d . SUNWgttf
```

### CDE Removable Media Auto Run Capability Removed (4634260)

The Removable Media auto run capability in the CDE desktop environment has been temporarily removed from the Solaris 9 8/03 operating environment.

**Workaround:** To use the auto run function for a CD-ROM or another removable media volume, you must do one of the following:

- Run the volstart program from the top level of the removable media file system.
- Follow the instructions that are included with the CD for access from outside of CDE

# SPARC: dtmail Crashes When Launched From the Command Line if FontList Option Is Specified (4677329)

dtmail crashes after connecting with the IMAP server if the FontList option is specified when dtmail is launched from the command line. See the following example.

```
/usr/dt/bin/dtmail -xrm "Dtmail*FontList: -*-r-normal-*:"
```

The following error message is displayed.

Segmentation Fault

This problem occurs in both the C and ja locales.

**Workaround:** Do not specify the FontList option when you launch dtmail from the command line.

# CDE Mailer Appears to Hang While Displaying Email With Long Lines (4418793)

If you try to read an email message with many long lines in any of the Solaris 9 8/03 Unicode or UTF-8 locales, CDE Mailer (dtmail) appears to hang. The message does not display immediately.

Workaround: Choose one of the following workarounds.

- Enlarge the dtmail Mailbox window to accommodate 132 columns.
- Disable the Complex Text Layout feature by following these steps.
  - 1. Become superuser.
  - 2. Change directories to your system's locale directory.

```
# cd /usr/lib/locale/locale-name
```

In the previous example, *locale-name* refers to the name of your system's Solaris 9 8/03 Unicode or UTF-8 locale.

3. Rename the locale layout engine category.

# mv LO LTYPE LO LTYPE-

Note - Rename the category for the locale layout engine to the original name (LO LTYPE) before you apply any patches to the locale layout engine.

### Solaris PDASync Cannot Delete Last Entry From the Desktop (4260435)

After you delete the last item from the desktop, the item is restored from the handheld device to the desktop when you synchronize your handheld device. Examples of items that you might delete, and then have restored, are the last appointment in your Calendar or the last address in the Address Manager.

Workaround: Manually delete the last entry from the handheld device prior to synchronization.

#### Solaris PDASync Does Not Support Data Exchange With the Multibyte Internationalized PDA Device (4263814)

If you exchange multibyte data between a PDA device and Solaris CDE, the data might be corrupted in both environments.

Workaround: Back up your data on your personal computer with the PDA backup utility before you run the Solaris<sup>TM</sup> PDASync application. If you accidentally exchange multibyte data and corrupt that data, restore your data from the backup.

# **GNOME 2.0 Issues and Bugs**

#### **GNOME 2.0 Documentation**

For release notes and troubleshooting information for the GNOME 2.0 desktop, see the following documents at http://docs.sun.com:

- GNOME 2.0 Desktop for the Solaris Operating Environment Release Notes
- GNOME 2.0 Desktop for the Solaris Operating Environment Troubleshooting Guide

# **System Administration Bugs**

### Home Directory Not Created for User Accounts Added With Solaris Management Console After Upgrade (4803524)

If you upgrade from a Solaris 9 update release to the Solaris 9 8/03 operating environment, and then create a new user account, the home directory for that account is not created.

If you use the smuser command-line interface (CLI) to create the user account, a "null" error is displayed in the terminal window immediately following completion of the CLI execution.

If you created the user account by using the Solaris Management Console graphical user interface (GUI), no error message is displayed.

Workaround: After you upgrade to the Solaris 9 8/03 operating environment, complete the following steps to reregister the jar file.

Note – You will need to delete and re-create any user accounts that were added after the system was upgraded to this release.

You can delete the user account before or after you reregister the jar file. However, before creating any new user accounts, you must complete the workaround.

- 1. Become superuser.
- 2. Reregister the jar file.

```
# /usr/sadm/bin/smcregister library -n VUserMgrLib.jar \
/usr/sadm/lib/usermgr/VUserMgrLib.jar \
/usr/sadm/lib/usermgr/VUserMgrLib classlist.txt ALL
```

- 3. Stop the WBEM server.
  - # /etc/init.d/init.wbem stop
- 4. Restart the WBEM server.
  - # /etc/init.d/init.wbem start

After you complete this workaround, the home directory, typically /export/home/username, is successfully created when you add a new user account.

For more information, see the smuser(1M) man page.

### /etc/named.conf File Causes Solaris Management Console Operations on **User and Group Accounts to Fail (4777931)**

If you use Solaris Management Console to perform operations on a User or Group account on a system that serves as a DNS server, and the /etc/named.conf file exists on that system, errors occur.

The following errors occur when you perform these operations from the GUI or when you use smuser and smgroup, which are command-line interfaces for the console.

The console launches a new dialog box or the smuser command exits with the following error messages when operated on a User:

"The attempt to view Users or Roles has failed due to an unexpected error.

This was caused by the following error: CIM ERR FAILED."

The console launches a new dialog box or the smgroup command exits with the following error message when operated on a Group:

```
"Attempted Read of Group IDs failed with unexpected CIM error:
CIM ERR FAILED."operations from the GUI or command-line interface.
```

**Workaround:** Choose from one of the following workarounds.

- To solve this problem by restarting the DNS server, follow these steps:
  - 1. Become superuser.
  - 2. Move the named. conf file to a different directory. For example:

```
# mv /etc/named.conf /var/named/named.conf
```

3. Restart the DNS server.

```
# pkill -9 in.named
```

- # /usr/sbin/in.named /var/named/named.conf
- To solve this problem by restarting the WBEM server, follow these steps:
  - 1. Become superuser.
  - Using a text editor, edit the /usr/sadm/lib/wbem/WbemUtilityServices.properties file.
     Replace the /etc/named.conf string with /tmp/new-filename.

**Note** – Ensure that the file name that you choose does not already exist on the system.

- 3. Stop WBEM server.
  - # /etc/init.d/init.wbem stop
- 4. Start the WBEM server
  - # /etc/init.d/init.wbem start

For more information, see the smuser(1M) and the smgroup(1M) man pages.

# x86: Pressing the F4 Key During BIOS Bootup Fails to Boot the Service Partition (4782757)

You are booting a Sun LX50 which has a Service partition and the Solaris 9 8/03 (x86 Platform Edition) operating environment is installed. You are given the option of pressing the F4 function key to boot the Service partition. However, pressing F4 causes the screen to go blank and the system fails to boot the Service partition.

**Workaround:** Do not press the F4 key when the BIOS Bootup Screen is displayed. After a time-out period, the Current Disk Partition Information screen is displayed. Select the number in the Part# column that corresponds to type=DIAGNOSTIC and press the Return key. The system boots the Service partition.

# UltraSPARC II CP Event Message in Solaris 9 8/03 Operating Environment Not Always Produced (4732403)

In the Solaris 9 8/03 operating environment, on UltraSPARC II based systems, the CP Event message that accompanies some Uncorrectable Memory Error messages is not always produced. These systems include the Sun Enterprise  $^{\rm TM}$  10000 and Sun Enterprise 6500/6000/5500/5000/4500/4000/3500/3000 systems. The result is that some information needed to identify a failing CPU might not always be present.

**Workaround:** For the latest information regarding this issue, check the SunSolve Web site at http://sunsolve.sun.com.

# Solaris WBEM Services 2.5 Daemon Cannot Locate com. sun Application Programming Interface Providers (4619576)

The Solaris WBEM Services 2.5 daemon cannot locate providers that are written to the com.sun.wbem.provider interface or to the com.sun.wbem.provider20 interface. Even if you create a Solaris\_ProviderPath instance for a provider that is written to these interfaces, the Solaris WBEM Services 2.5 daemon does not locate the provider.

**Workaround:** To enable the daemon to locate such a provider, stop and restart the Solaris WBEM Services 2.5 daemon.

- # /etc/init.d/init.wbem stop
- # /etc/init.d/init.wbem start

**Note** – If you use the javax API to develop your provider, you do not need to stop and restart the Solaris WBEM Services 2.5 daemon. The Solaris WBEM Services 2.5 daemon dynamically recognizes javax providers.

# Some com. sun Application Programming Interface Method Invocations Fail Under XML/HTTP Transport Protocol (4497393, 4497399, 4497406, 4497411)

If you choose to use the <code>com.sun</code> application programming interface rather than the javax application programming interface to develop your WBEM software, only CIM remote method invocation (RMI) is fully supported. Other protocols, such as XML/HTTP, are not guaranteed to work completely with the <code>com.sun</code> application programming interface.

The following table lists examples of invocations that execute successfully under RMI but fail under XML/HTTP.

Method Invocation	Error Message
CIMClient.close()	NullPointerException
<pre>CIMClient.execQuery()</pre>	CIM_ERR_QUERY_LANGUAGE_NOT_SUPPORTED
<pre>CIMClient.getInstance()</pre>	CIM_ERR_FAILED
<pre>CIMClient.invokeMethod()</pre>	XMLERROR: ClassCastException

# Cannot Modify File-System Mount Properties With Solaris Management Console Mounts and Shares Tool (4466829)

The Solaris Management Console Mounts and Shares tool cannot modify mount options on system-critical file systems such as / (root), /usr, and /var.

Workaround: Choose one of the following workarounds.

Use the remount option with the mount command.

```
# mount -F file-system-type -o remount,additional-mount-options \
device-to-mount mount-point
```

**Note** – Mount property modifications that are made by using the -remount option with the mount command are not persistent. In addition, all mount options that are not specified in the *additional-mount-options* portion of the previous command inherit the default values that are specified by the system. See the man page mount\_ufs(1M) for more information.

■ Edit the appropriate entry in the /etc/vfstab file to modify the file-system mount properties, then reboot the system.

# CIM\_ERR\_LOW\_ON\_MEMORY Error Occurs When Trying to Add Data With WBEM (4312409)

The following error message is displayed when memory is low:

```
CIM_ERR_LOW_ON_MEMORY
```

You cannot add more entries when the Common Information Model (CIM) Object Manager is low on memory. You must reset the CIM Object Manager Repository.

**Workaround:** To reset the CIM Object Manager Repository, follow these steps.

- 1. Become superuser.
- 2. Stop the CIM Object Manager.
  - # /etc/init.d/init.wbem stop
- 3. Remove the JavaSpaces™ log directory.
  - # /bin/rm -rf /var/sadm/wbem/log

- 4. Restart the CIM Object Manager.
  - # /etc/init.d/init.wbem start

Note - When you reset the CIM Object Manager Repository, you lose any proprietary definitions in your data store. You must recompile the MOF files that contain those definitions by using the mof comp command. See the following

# /usr/sadm/bin/mofcomp -u root -p root-password your-mof-file

# Solaris Volume Manager Issue

#### Solaris Volume Manager metattach Command Might Fail

If you have a Solaris Volume Manager mirrored root (/) file system in which the file system does not start on cylinder 0, all submirrors you attach must also not start on cylinder 0.

If you attempt to attach a submirror starting on cylinder 0 to a mirror in which the original submirror does not start on cylinder 0, the following error message is displayed.

can't attach labeled submirror to an unlabeled mirror

Workaround: Choose one of the following workarounds.

- Ensure that both the root file system and the volume for the other submirror start on cylinder 0.
- Ensure that both the root file system and the volume for the other submirror do not start on cylinder 0.

**Note –** By default, the JumpStart installation process starts swap at cylinder 0 and the root (/) file system somewhere else on the disk. Common system administration practice is to start slice 0 at cylinder 0. Mirroring a default JumpStart installation with root on slice 0, but not cylinder 0, to a typical secondary disk with slice 0 that starts at cylinder 0, can cause problems. This mirroring results in an error message when you attempt to attach the second submirror. For more information about the default behavior of Solaris installation programs, see the Solaris 9 Installation Guide.

# **Solaris Volume Manager Bugs**

Solaris Volume Manager metahs -e Command Fails on Copper Cable Storage Boxes When Failed Hot Spare Disk Has Been Swapped Out (4644106)

The metahs -e command might fail if you encounter the following circumstances.

- A hot-spare device encounters a problem, such as an induced error, when using the metaverify test utility.
- 2. Solaris Volume Manager software attempts to activate the hot spare when an error occurs on a metadevice. The hot spare is marked broken.
- 3. The system is brought down. The failed disk that contains the hot spare is replaced with a new disk at the same location.
- 4. When the system is booted, Solaris Volume Manager software does not recognize the new hot spare.
- 5. The metahs -e command is used to enable the hot spare on the new disk.

The following message is displayed.

```
WARNING: md: d0: open error of hotspare (Unavailable)
```

The failure occurs because the Solaris Volume Manager software does not internally recognize the new hot-spare disk that was swapped into the same physical location. The Solaris Volume Manager software continues to display the device ID of the disk that is no longer in the system.

**Note** – This failure is not known to occur on a Photon or storage enclosures where the device number changes when a disk is replaced.

**Workaround:** Choose one of the following workarounds.

- Follow these steps to update the device ID for the hot-spare disk in the Solaris Volume Manager state database.
  - 1. Become superuser.
  - 2. Type the following command to update the device ID for the hot-spare disk.
    - # metadevadm -u logical-device-name
  - 3. Type the following command to make the new hot-spare disk available.
    - # metareplace -e logical-device-name
- Follow these steps to manage hot spares and hot-spare pools on the system.
  - 1. Become superuser.
  - 2. Type the following command to delete the entry for the hot-spare slice.
    - # metahs -d hsphot-spare-pool-number logical-device-name
  - 3. Type the following command to create a new entry for the hot-spare slice at the same location with the correct device ID.
    - # metahs -a hsphot-spare-pool-number logical-device-name

# Solaris Volume Manager metadevadm Command Fails if Logical Device Name No Longer Exists (4645721)

You cannot replace a failed drive with a drive that has been configured with the Solaris Volume Manager software. The replacement drive must be new to Solaris Volume Manager software. If you physically move a disk from one slot to another slot on a Photon, the metadevadm command fails. This failure occurs when the logical device name for the slice no longer exists. However, the device ID for the disk remains present in the metadevice replica. The following message is displayed.

Unnamed device detected. Please run 'devfsadm && metadevadm -r to resolve.

**Note** – You can access the disk at the new location during this time. However, you might need to use the old logical device name to access the slice.

Workaround: Physically move the drive back to its original slot.

# Solaris Volume Manager metarecover Command Fails to Update metadb Namespace (4645776)

If you remove and replace a physical disk from the system, and then use the metarecover -p -d command to write the appropriate soft partition specific information to the disk, an open failure results. The command does not update the metadevice database namespace to reflect the change in disk device identification. This condition causes an open failure for each such soft partition that is built on top of the disk. The following message is displayed.

Open Error

**Workaround:** Create a soft partition on the new disk instead of using the metarecover command to recover the soft partition.

**Note** – If the soft partition is part of a mirror or RAID 5, use the metareplace command without the -e option to replace the old soft partition with the new soft partition.

# metareplace dx mirror or RAID 5 old\_soft\_partition new\_soft\_partition

# **Networking Bugs**

# Configuring Multiple Tunnels Between Two IP Nodes With Filtering Enabled Might Result in Packet Loss (4152864)

If you configure multiple IP tunnels between two IP nodes, and enable ip\_strict\_dst\_multihoming or other IP filters, packet loss might result.

Workaround: Choose one of the following workarounds.

- First, configure a single tunnel between the two IP nodes. Add addresses to the tunnel by using the ifconfig command with the addif option.
- Do not enable ip strict dst multihoming on tunnels between two IP nodes.

# **Security Bugs**

# Unlocking CDE Screenlock Removes Kerberos Version 5 Credentials (4674474)

If you unlock a locked CDE session, all your cached Kerberos version 5 (krb5) credentials might be removed. The result is you might not be able to access various system utilities. This problem occurs under the following conditions.

- In the /etc/pam.conf file, the dtsession services for your system are configured to use the krb5 module by default.
- You lock your CDE session, and then try to unlock the session.

If this problem occurs, the following error message is displayed.

lock screen: PAM-KRB5 (auth): Error verifying TGT with host/host-name: Permission denied in replay cache code

Workaround: Add the following non-pam\_krb5 dtsession entries to the /etc/pam.conf file.

```
dtsession auth requisite pam_authtok_get.so.1 dtsession auth required pam_unix_auth.so.1
```

With these entries in the /etc/pam.conf file, the pam\_krb5 module does not run by default.

#### cron, at, and batch Cannot Schedule Jobs for Locked Accounts (4622431)

In the Solaris 9 8/03 operating environment, locked accounts are treated in the same way as expired or nonexistent accounts. As a result, the cron, at, and batch utilities cannot schedule jobs on locked accounts.

**Workaround:** To enable locked accounts to accept cron, at, or batch jobs, replace the password field of a locked account (\*LK\*) with the string NP, for no password.

### **Additional Software Bug**

# SPARC: Veritas Volume Manager Might Fail on Systems Running Solaris 9 8/03 Operating Environment (4642114)

If you try to perform various tasks with Veritas Volume Manager on a system that is running the Solaris 9 8/03 operating environment, the vxddladm addjob or vxddladm addsupport utilities might produce a core dump.

Workaround: Follow these steps.

- 1. Become superuser.
- 2. Verify that the /var/ld/ld.config file and /usr/bin/crle utility exist on the system.
- 3. Type the following commands in a terminal window.
  - # /usr/bin/cp /var/ld/ld.config /var/ld/ld.config.save
  - # /usr/bin/crle -E LD\_LIBRARY\_PATH=/usr/lib
  - # appropriate-vxddladm-command
  - # /usr/bin/mv /var/ld/ld.config.save /var/ld/ld.config

#### **Documentation CD Issues**

#### iPlanet Directory Server 5.1 Documentation Links Do Not Work Properly

In the iPlanet™ Directory Server 5.1 Collection (Solaris Edition), links titled DocHome and links between separate books do not work. If you select these links, your browser displays a Not Found error.

Workaround: To navigate between iPlanet Directory Server 5.1 documents on your system, go to the iPlanet Directory Server 5.1 Collection (Solaris Edition) page at http://docs.sun.com. Click the link to the document you want to view.

#### SUNWsdocs Package Necessary to Remove Other Documentation Packages

If you remove the SUNWsdocs package, then try to remove other documentation packages, the removal fails. This problem occurs because the SUNWsdocs package is installed with any collection and provides the browser entry point.

Workaround: If you removed the SUNWsdocs package, reinstall the SUNWsdocs package from the documentation media and then remove the other documentation packages.

### **Documentation CD Bugs**

#### **European Locale PDF Documents Available Only Through C Locale** (4674475)

In the Solaris 9 8/03 operating environment, and other UNIX-based systems, PDF documents on the Solaris 9 8/03 Documentation 1 of 2 CD are not accessible in the following European locales.

- de (German)
- es (Spanish)
- fr (French)
- it (Italian)
- sv (Swedish)

This problem occurs because of a limitation with Adobe Acrobat Reader. For more information on this problem, see the Adobe Technote site at

http://www.adobe.com:80/support/techdocs/294de.htm.

**Workaround:** Choose one of the following workarounds.

In the Solaris 9 8/03 operating environment, and other UNIX-based systems, set the environment variable LC ALL to Cacroread. For example, in the C shell, type the following command in a terminal window.

% env LC ALL=C acroread

Upgrade to Adobe Acrobat Reader 5.0 or later version.

### Removing Solaris 9 8/03 Documentation Packages Might Unexpectedly Uninstall Some Solaris 9 8/03 Documentation Collections (4641961)

Some Solaris 9 8/03 documentation collections might be unexpectedly removed from your system if the following occurs.

- 1. You install both the Solaris 9 8/03 Documentation 1 of 2 and 2 of 2 CDs on your
- 2. You then use the prodreg utility or the Solaris 9 8/03 Documentation CD installer program to remove certain documentation packages.

The Solaris 9 8/03 Documentation CD 1 of 2 and 2 of 2 have three collections in common. If you remove the packages that contain these collections from either of the Solaris 9 8/03 Documentation 1 of 2 or 2 of 2 CD installations, the package is removed for both installations.

The following table lists the packages that might be removed unexpectedly.

TABLE 2-1 Solaris 9 8/03 Documentation Packages Contained on Both Solaris 9 8/03 Documentation CDs

HTML Package Names	PDF Package Names	Collection Description
SUNWaadm	SUNWpaadm	Solaris 9 System Administrator Collection
SUNWdev	SUNWpdev	Solaris 9 Developer Collection
SUNWids	SUNWpids	iPlanet Directory Server 5.1 Collection

**Workaround:** Choose one of the following workarounds.

- If the uninstall process unexpectedly removed these documentation packages, and you want these packages on your system, reinstall the packages from the Solaris 9 8/03 Documentation 1 of 2 or 2 of 2 CDs.
- To avoid this problem, use the pkgrm utility to remove the packages that you want to eliminate from your system.

#### **Localization Issue**

# Hardware for Estonian Keyboard Type 6, French Canadian Keyboard Type 6, and Polish Programmers Keyboard Type 5 Not Available in Solaris 9 8/03 Operating Environment

Software support for three additional keyboard layouts have been added to the Solaris 9 software for this release: Estonian keyboard Type 6, French Canadian keyboard Type 6, and Polish programmers keyboard Type 5.

This software gives users in Estonia, Canada, and Poland greater flexibility for keyboard input by modifying standard U.S. keyboard layouts to their own language needs.

Currently, no hardware is available for the three additional keyboard layout types.

**Workaround:** To take advantage of this new keyboard software, modify the /usr/openwin/share/etc/keytables/keytable.map file in one of the following ways:

- For the Estonian Type 6 keyboard:
  - Change the US6.kt entry to Estonia6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

6 0 Estonia6.kt

 Add the following entries to the /usr/openwin/lib/locale/iso8859-15/Compose file:

<scaron></scaron>	: "/xa8"	scaron
<scaron></scaron>	: "/xa6"	scaron
<scaron></scaron>	: "/270"	scaron
<scaron></scaron>	: "/264"	scaron

- 3. Reboot the system for the changes to take effect.
- For the French Canadian Type 6 keyboard:
  - Change the US6.kt entry to Canada6.kt in the /usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

6 0 Canada6.kt

- 2. Reboot the system for the changes to take effect.
- If you are using the existing Polish Type 5 keyboard layout:

 Change the Poland5.kt entry to Poland5\_pr.kt in the /usr/openwin/ share/etc/keytables/keytable.map file. The modified entry should read as follows:

4 52 Poland5\_pr.kt

**Note** – If you are using a keyboard with dip-switches, make sure the switches are set to the correct binary value for the Polish keytable entry (binary 52) before rebooting the system.

2. If you are using a standard U.S. Type 5 keyboard, change the US5.kt entry to Poland5\_pr.kt in the

/usr/openwin/share/etc/keytables/keytable.map file. The modified entry should read as follows:

4 33 Poland5\_pr.kt

3. Reboot the system for the changes to take effect.

### **Localization Bugs**

### SPARC: Shift-U Does Not Work as Expected in Arabic Locales (4303879)

To generate the diacritic character in Arabic locales, type the Arabic character, then Shift-U.

# Sorting in the European UTF-8 Locales Does Not Function Correctly (4307314)

Sorting in the European UTF-8 locales does not work properly.

**Workaround:** Before you attempt to sort in a FIGGS UTF-8 locale, set the *LC\_COLLATE* variable to the ISO-1 equivalent.

```
# echo $LC_COLLATE
> es_ES.UTF-8
# LC_COLLATE=es_ES.IS08859-1
# export LC COLLATE
```

Then start sorting.

# **Sun ONE Application Server Bugs**

# Default Browser Is Incompatible With Sun ONE Application Server 7 (4741123)

When you attempt to use the Sun ONE Application Server Administrative UI with the Solaris 9 8/03 operating environment default browser, the following error message is displayed:

Unsupported Browser: Netscape 4.78

It is recommended that you upgrade your browser to Netscape 4.79 or Netscape 6.2 (or later) to run the Sun One Application Server Administrative UI. Those who choose to continue and not upgrade may notice degraded performance or unexpected behavior.

Note – If you are running the version of Sun ONE Application Server Administrative UI that is included in the Solaris 9 8/03 operating environment, you will need to use Netscape 4.79 or Netscape 7.0.

Workaround: Use /usr/dt/appconfig/SUNWns/netscape instead of /usr/dt/bin/netscape.

### SPARC: Access Control List Editing Not Supported on Some Versions of **Netscape Navigator (4750616)**

Sun ONE Application Server Access Control List (ACL) editing is not supported on some versions of Netscape Navigator<sup>TM</sup>. If you attempt to edit ACL entries while using either Netscape Navigator version 6.x or Netscape Navigator version 7.x, you might encounter intermittent problems.

#### For example:

- The browser window disappears.
- The ACL edit screen does not display when launched.

Workaround: Choose one of the following workarounds.

- Use the supported 4.79 version of Netscape Navigator or Microsoft Internet Explorer, version 6.0.
- Manually edit the ACL file. For details on ACL file formatting, see the Sun ONE Application Server 7 Administrator's Guide.

### Accessing an Oracle 9.1 Database With an Oracle 9.2 Client Might Cause Data Corruption (4707531)

If you use an Oracle® 9.2 client to access an Oracle 9.1 database, data corruption might occur when a number column follows a timestamp column.

The problem might be caused by using the ojdbc14.jar file with an Oracle 9.1 database. Applying the patch might assist in addressing the situation on Solaris 32-bit machines, that run an Oracle 9.1 database. This JDBC™ driver is for Oracle working with IDKTM 1.4.

Workaround: Obtain the patch that Oracle might make available from the Oracle Web site for Bug 2199718 and apply it to your server.

### SPARC: Administration Interface Reports Verifier Error When Viewing Persistence Manager Factory Resource Created From the Command Line (4733109)

A verifier error is reported for a Persistence Manager Factory resource that was created by using the command-line interface. The following error is displayed when the resource is viewed in the Sun ONE Application Server Administration interface.

ArgChecker Failure: Validation failed for jndiName: object must be non-null

Workaround: Perform the following steps to create a new Persistence Management Factory resource.

- 1. Create a jdbc-connection pool with data source information to connect to a database.
- 2. Create a jdbc-resource to make the connection pool available via a Java Naming and Directory Interface™ (J.N.D.I.) lookup.
- 3. Create a persistence-management resource with the jdbc-resource that was created in Step 2.

### SPARC: any Value in Address Attribute of iiop-listener Element in server.xml File Is Not Supported (4743366)

The any value in the address attribute of the iiop-listener element in the server.xml file allows for listening on all interfaces that are available on a system. This support includes both IPv4 and IPv6 interfaces. However, the Sun ONE Application Server default configuration uses an address value of 0.0.0.0 in the iiop-listener element. This default configuration does not listen on IPv6 interfaces. The configuration only listens on all IPv4 interfaces on a system.

Workaround: Use the :: value in the address attribute of the iiop-listener element in the server.xml file to listen on all IPv4 and IPv6 interfaces on a system.

#### SPARC: Application Server Fails to Restart When Converting to an SSL-Enabled Environment (4723776)

If you attempt to restart the Sun ONE Application Server after installing a certificate and enabling security, the restart fails. A message indicates that the server failed to receive a password.

When SSL is not enabled, passwords are not cached, which results in the failure of restart. The restart command does not support the transition from non-SSL to SSL enabled mode.

Note – This problem only occurs the first time the server is restarted. Subsequent restarts work fine.

**Workaround:** Choose one of the following workarounds.

- If you have encountered this problem. click the Start button.
- To avoid this problem, perform the following steps instead of clicking the Restart button.
  - 1. Click the Stop button.
  - 2. Click the Start button.

### SPARC: Application Server Might Crash During Dynamic Reloading (4750461)

If an application has many Enterprise JavaBeans<sup>TM</sup> components, the server might crash during dynamic reloading of the application. The dynamic reloading feature is used in the development environment to quickly test minor changes to an application. The crash is caused by attempting to use more file descriptors than are available.

#### **Workaround:** Follow these steps.

- 1. Increase the file descriptors limit by adding lines, in this format, to the /etc/system file.
  - set rlim fd\_max=8192
  - set rlim\_fd\_cur=2048

Depending on the size of the application, the values can be set higher or lower.

2. Reboot the system.

### Console Output Is Corrupted if the System's Default Encoding Is Not UTF-8 (4757859)

If the system's default encoding is not UTF-8, the Application Server's output might cause multibyte characters to display incorrectly.

**Workaround:** Open the server.log file in your browser.

### External Certificate Nickname Does Not Display in Administration Interface **Nickname List (4725473)**

If you install an external certificate through the Sun ONE Application Administration interface, a problem is encountered when you attempt to enable SSL for the http-listener by using the certificate that is installed on the external cryptographic module. Although the installation of the certificate is successful, the certificate nickname does not display in the Administration interface.

#### Workaround: Complete the following steps.

- 1. Log in to the system where the Sun ONE Application Server software is installed as an Administrative User.
- 2. Link the http-listener to the certificate that is installed on the external cryptographic module by using the asadmin command. For more information on the asadmin command, see the asadmin(1AS) man page.

```
# asadmin create-ssl --user admin user--password password --host host name \
--port port --type http-listener --certname nobody@apprealm:Server-Cert \
--instance instance --ssl3enabled=true \
--ssl3tlsciphers +rsa rc4 128 md5 http-listener-1
```

The previous command establishes the link between the certificate and the server instance. The command does not install the certificate. The certificate was installed through the Administration interface.

**Note** – Although the certificate is linked with http-listener, the http-listener will be listening in non SSL mode.

3. Enable the http-listener to listen in SSL mode. Use the following command.

```
# asadmin set --user admin user --password password --host host name \
--port port server1.http-listener.http-listener-1.securityEnabled=true
```

The previous command switches the server instance listening state from non-SSL to SSL. After you complete the previous steps, the certificate is displayed in the Administration interface.

You can now use the Administration interface to edit the http-listener as needed.

#### SPARC: flexanlg Command Might Cause Open Failure Error (4742993)

If you are running the Sun ONE Application Server software in the Solaris 9 8/03 operating environment, and you use the flexanlg command from /usr/appserver/bin, the following open failure error is displayed.

```
ld.so.1: /usr/appserver/bin/flexanlg: fatal: libplc4.so:open failed:
No such file or directory
killed
```

Workaround: Complete these steps.

 $1. \ \ Add \ the \ following \ entry \ to \ the \ LD\_LIBRARY\_PATH \ file.$ 

```
/usr/lib/mps
```

2. Run the flexanlg command.

```
% /usr/appserver/bin/flexanlg
```

### IPv6-only Clients Cannot Connect to the Application Server (4742559)

**Note** – If IPv6 is not used in your network, this problem does not apply to you.

By default, the Sun ONE Application Server 7 instances and Admin Server instances use IPv4. IPv4 is supported by all operating environments on which the Sun ONE Application Server is available. On platforms where IPv6 is supported, the Sun ONE Application Server configuration changes are required for conformance.

**Note** – If these configuration changes are to be made, you must be absolutely sure of IPv6 support. If the IPv6 related configuration is applied to a system that has only IPv4 support, Application Server instances might not start.

**Workaround:** Perform the following configuration changes:

- 1. Start the Admin Server.
- 2. Start the Admin Console by connecting to the Admin Server HTTP host or port in a browser.
- 3. Select the server instance to configure for IPv6, for example, server1.
- 4. Expand the HTTP Listeners node in the tree view.
- 5. Select the HTTP Listener to configure for IPv6, for example, http-listener1.
- 6. Change the value of the IP Address field to **ANY** in the General section.
- 7. In the Advanced section, change the value of the Family field to INET6.
  Setting the Family field to INET6 does not disable IPv4 functionality unless an IPv6 address is selected for IP address. Selecting an IP address of ANY matches any IPv4 or IPv6 address.
- 8. Click Save.
- 9. Select your server instance from the left pane.
- 10. Click Apply Changes.
- 11. Click Stop.
- 12. Click Start.

The server restarts and implements your changes.

### Modified Samples Are Not Updated Until Redeployed (4726161)

If users attempt to deploy a sample more than once after making small changes and repackaging the application, the following error message is displayed.

Already Deployed

This issue affects most of the samples because they use the Ant utility and the common.xml file, which have the deploy target. Thus, this combined use mixes deployment of applications with registration of resources.

**Workaround:** Choose one of the following workarounds.

- For the majority of the sample applications that use the Ant utility build.xml files, which include the common.xml file, type the following command.
  - % asant deploy common
- For all other sample applications, type the following commands.
  - % asant undeploy
  - % asant deploy

# SPARC: Nonzero Transaction Setting Causes Slow Local Transactions (4700241)

The Local Transaction Manager does not support transactions with definite timeouts. If you set the timeout-in-seconds attribute in the transaction-service element to a value greater than 0, all local transactions are processed as global transactions. A timeout value of 0 means that the transaction manager waits indefinitely if it does not hear from a participating data source.

**Note** – If the Data source driver does not support global transactions, a local transaction might fail.

**Workaround:** Reset the timeout-in-seconds value to its default of 0.

#### Oracle JDBC Driver Optimizations Not Being Initiated (4732684)

To utilize Oracle JDBC optimizations with Container-Managed Persistence (CMP) beans, the classes12.zip must be specified in the classpath-suffix attribute of the server.xml file. Do not place the classes12.zip file in the instance/lib/directory, the default for third-party libraries.

**Workaround:** Add the classes12.zip file to the classpath-suffix attribute of the server.xml file.

# RMI-IIOP Clients Do Not Work for IPv6 Addresses Where DNS Address Lookups Fail for the IPv6 Address (4743419)

If a DNS lookup for an IPv6 address fails, clients of Remote Method Invocation-Internet Inter-ORB Protocol (RMI-IIOP) do not work for IPv6 addresses.

**Workaround:** Domain Name Service (DNS) should be set up at the deployment site, in order to look up an IPv6 address.

### Value in the Only show entries with Field in the View Event Log Becomes Corrupted If the Application or System Is Not Using UTF-8 Encoding (4763655)

If the user types multibyte characters in the Only show entries with field and searches the event log, the value in the Only show entries with field becomes corrupted when the search result is displayed. The problem is caused by the conversion of the message format from UTF-16 to UTF-8.

Workaround: None.

# Sun ONE Application Server Security Bug

### The Application Server Starts All Instances as Root Allowing Nonroot Users **Root Access (4780076)**

Several issues are associated with Application Server startup when the Sun ONE Application Server is installed as part of a Solaris installation:

- All application server and administrative server instances are started automatically during Solaris system startup. In many environments, not all the instances are expected to be started automatically during Solaris system startup. Starting every defined instance can adversely impact the memory available on a system.
- When application server instances and administrative server instances are started automatically, the startup script for each instance is executed as root. Execution of nonroot-owned instance startup scripts can give nonroot user's access to the root user through modification of the instance-level startup scripts.

During the installation of the Sun ONE Application Server, the /etc/init.d/appserv script and symbolic links to the S84appserv and K05appserv scripts in the /etc/rc\*.d/ directories are installed. These scripts cause all application server instances and administrative server instances, defined as part of the application server installation, to be started and stopped automatically during Solaris system startup and shutdown.

The /etc/init.d/appserv script contains the following section of code.

```
case "$1" in
'start')
   /usr/sbin/asadmin start-appserv
'stop')
    /usr/sbin/asadmin stop-appserv
```

Execution of the asadmin start-appserv command causes the administration server instance and all application server instances, defined in all administrative domains, to be started during Solaris system startup. Because the system startup and shutdown scripts are executed as root, the startup script for each application server and administrative server instance is also executed as root. The instance-level startup script is named startserv and is located at instance-dir/bin/startserv. Because instances can be owned by users other than root, the startserv scripts could be modified by the nonroot user to execute commands as the root user.

If an instance is using a privileged network port, the instance's startserv script must be executed as root. However, run as user is typically set in the instance's configuration to force the instance to run as the specified user after the instance has been initially started by the root user.

Workaround: Perform one of the following workarounds, depending on your environment.

- If your environment does not require all application server and administrative server instances to be started as root, then comment out execution of the asadmin start-appserv and asadmin stop-appserv commands in the /etc/init.d/appserv script.
- If your environment requires starting either specific administrative domains or specific instances within one or more administrative domains, you can modify or create a script to automate that process. Note that "specific administrative domains" include the administrative server instance and all application server instances of each domain.

Perform one of the following steps.

- Modify the /etc/init.d/appserv script to start the domains or instances of interest.
- Define new /etc/rc\*.d/ scripts that conform to the needs of your environment.

**Startup Considerations:** When modifying the Solaris operating environment startup scripts to automatically start either specific application server administrative domains or specific application server instances, consider the following.

Starting a specific domain – If you want to start the administrative server instance and all application server instances of a specific administrative domain as the root user, modify the /etc/rc\*.d/ scripts as follows.

```
case "$1" in
'start')
   /usr/sbin/asadmin start-domain --domain production-domain
   ;;
'stop')
   /usr/sbin/asadmin stop-domain --domain production-domain
```

Starting a specific application server instance as a nonroot user – Modify the /etc/rc\*.d/ scripts to use the su command with the -c option.

```
case "$1" in
'start')
  su - usera -c "/usr/sbin/asadmin start-instance --domain test-domain
instance-a"
  su - userb -c "/usr/sbin/asadmin start-instance --domain test-domain
```

```
instance-b"
  ;;
'stop')
  su - usera -c "/usr/sbin/asadmin stop-instance --domain test-domain
instance-a"
  su - userb -c "/usr/sbin/asadmin stop-instance --domain test-domain
instance-b"
  ;;
```

See the Sun ONE Application Server 7 Administrator's Guide for more information on the startup and shutdown commands that are available through the asadmin command-line interface.

# Sun ONE Directory Server (Formerly iPlanet Directory Server) Issues

#### **Setup Issue**

When typing Distinguished Names during installation, use the UTF-8 character set encoding. Other encodings are not supported. Installation operations do not convert data from local character set encoding to UTF-8 character set encoding. LDIF files that are used to import data must also use UTF-8 character set encoding. Import operations do not convert data from local character set encoding to UTF-8 character set encoding.

#### Schema Issues

The schema provided with the Sun Open Net Environment (Sun ONE) Directory Server (formerly iPlanet Directory Server) 5.1 differs from the schema that is specified in RFC 2256 for the groupOfNames and groupOfUniquenames object classes. In the schema provided, the member and uniquemember attribute types are optional. RFC 2256 specifies that at least one value for these types must be present in the respective object class.

The aci attribute is an operational attribute that is not returned in a search unless you explicitly request the attribute.

#### **Replication Issue**

Multimaster replication over WAN is currently not supported.

#### Server Plug-in Issues

Sun ONE Directory Server 5.1 provides the UID Uniqueness plug-in. By default, the plug-in is not activated. To ensure attribute uniqueness for specific attributes, create a new instance of the Attribute Uniqueness plug-in for each attribute. For more information on the Attribute Uniqueness plug-in, refer to the iPlanet Directory Server 5.1 Administrator's Guide at http://docs.sun.com.

The Referential Integrity plug-in is now off by default. To avoid conflict resolution loops, the Referential Integrity plug-in should only be enabled on one master replica in a multimaster replication environment. Before enabling the Referential Integrity plug-in on servers that issue chaining requests, analyze your performance resource, time, and integrity needs. Integrity checks can consume significant memory and CPU resources.

#### Roles and Class of Service Issue

The nsRoleDN attribute is used to define a role. This attribute should not be used for evaluating role membership in a user's entry. When evaluating role membership, look at the nsrole attribute.

#### Indexing Issue

If VLV indexes encompass more than one database, the VLV indexes do not work correctly.

# **Sun ONE Directory Server Bugs**

#### Cannot Inactivate Users Through Console (4521017)

If you launch the Sun ONE Directory Server 5.1 Console and create a new user or new role as inactive, the newly created user or newly created role is not inactivated. Users and roles cannot be created through the Console as inactive.

**Workaround:** To create an inactive user or inactive role, follow these steps:

- 1. Create the new user or new role.
- 2. Double-click the newly created user or newly created role, or select the newly created user or newly created role. Click the Properties item from the Object menu.
- 3. Click the Account tab.
- 4. Click the Inactivate button.
- 5. Click OK.

The newly created user or newly created role is inactivated.

### Cannot Configure Directory With a Root Suffix That Contains Spaces (4526501)

If you specify a base DN that contains a space, for example, o=U.S. Government, C=US at Sun ONE Directory Server 5.1 configuration time, the resulting DN is truncated to Government, C=US. At configuration time, the DN should be typed as o=U.S.%20Government, C=US.

**Workaround:** To correct the base DN entry, follow these steps.

1. Select the top directory entry in the left side of the navigation pane of the Servers and Applications tab on the Console.

- 2. Edit the suffix in the User directory subtree field.
- 3. Click OK.

# Password Policy Information Is Not Synchronized Between Servers (4527608)

If you update a nonmaster directory server with password policy information, the information is not replicated to all other servers. This information includes account lockouts.

Workaround: Manage password policy information manually on each server.

# Account Lockout Remains Effective After the User Password Is Changed (4527623)

If Account Lockout is effective and the user password is changed, Account Lockout remains effective.

**Workaround:** Reset the accountUnlockTime, passwordRetryCount, and retryCountResetTime lockout attributes to unlock the account.

#### Console Backup Immediately After Installation Fails (4531022)

If you install the Sun ONE Directory Server 5.1, start the console, initialize the directory with an LDIF file, and then back up the server, the Console reports the backup was successful. However, the backup has actually failed.

**Workaround:** Perform the following tasks from the Console after you initialize the database:

- 1. Stop the server.
- 2. Restart the server.
- 3. Perform the backup.

# **Server Ignores Case-Sensitive Syntax When Normalizing DN Attributes** (4630941)

You cannot use the LDAP naming services to create automount path names that are identical, except for case results in nonunique path names. The directory server does not allow creation of entries if the naming attribute is defined with case-sensitive syntax and an entry already exists with the same name but a different case.

Note - /home/foo and /home/Foo paths cannot coexist.

For example, if entry attr=foo,dc=mycompany,dc=com exists, the server does not allow the creation of attr=Foo,dc=mycompany,dc=com. A corollary of this problem is that when LDAP naming services are used, automount path names have to be unique, regardless of their case.

Workaround: None.

## Stopping the Server During Export, Backup, Restore, or Index Creation Crashes the Server (4678334)

If the server is stopped during export, backup, restore or index creation, the server crashes.

Workaround: Do not stop the server during these types of operations.

#### Replication Unable to Use Self-Signed Certificate (4679442)

If you attempt to configure replication over Secure Socket Layer (SSL) with certificate-based authentication, replication does not work if either of the following conditions exist.

- The supplier's certificate is self-signed.
- The supplier's certificate is only capable of behaving as an SSL server certificate that is unable to play the role of the client during an SSL handshake.

Workaround: None.

# **UFS File System Issue**

#### SPARC: UFS File Systems Cannot Be Created On VxVM Volumes 2 Tbytes or **Greater in Size**

If you attempt to create a UFS file system on a Veritas Volume Manager (VxVM) volume that is 2 Tbytes or greater in size, the resultant file system will be at least 2 Tbytes smaller than the size of the volume. The maximum VxVM volume size on which a UFS file system can be created is 4,294,967,295 512-byte sectors. This volume size is equivalent to 2 Tbytes minus 512 bytes.

No warning message is displayed.

Workaround: None.

### **UFS File System Bug**

# SPARC: Using fssnap on a Multiterabyte UFS File System Does Not Work (4836824)

Using the fssnap command to create a snapshot of a UFS file system that is greater than 1 Tbyte in size is not supported in the Solaris 9 8/03 release. The following error message is displayed:

fssnap: Fatal: File system /dir/snapshot0 support large files.

Workaround: None.

# **End-of-Software Support Statements**

This chapter lists end-of-support statements. For late-breaking end-of-support statements that were not identified in time to be included in these release notes, refer to the *Solaris 9 8/03 Release Notes* in the Solaris 9 8/03 Release and Installation Collection on http://docs.sun.com.

# Features Removed From the Solaris 9 Operating Environment

#### adb Map Modifiers and Watchpoint Syntax

The adb utility is implemented as a link to the new mdb utility in this release of the Solaris operating environment.

The mdb(1) man page describes the features of the new debugger, including its adb compatibility mode. Even in this compatibility mode, differences between adb(1) and mdb exist. These differences include the following:

- The text output format of some subcommands is different in mdb. Macro files are formatted by using the same rules, but scripts that depend on the output of other subcommands might need to be modified.
- The watchpoint-length specifier syntax in mdb is different from the syntax that is described in adb. The adb watchpoint commands :w, :a, and :p enable an integer length (in bytes) to be inserted between the colon and the command character. In the mdb(1) man page, the count should be specified after the initial address as a repeat count.
  - The adb command 123:456w is specified in the mdb man page as 123,456:w.
- The /m, /\*m, ?m, and ?\*m format specifiers are not recognized or supported by mdb.

#### AnswerBook2 Server

The AnswerBook2<sup>TM</sup> server is no longer included in this release. Existing AnswerBook2 servers can run on the Solaris 9 operating environment. Solaris documentation is available on the Solaris Documentation CD in online formats. All Solaris documentation is also always available at http://docs.sun.com.

#### aspppd Utility

The aspppd utility is no longer included in this release. Instead, use thepppd(1M) utility with Solaris PPP 4.0 utility that is included in the Solaris 9 operating environment.

#### **ATOK8 Japanese Input Method**

The ATOK8 Japanese input method is no longer supported in this release. The ATOK12 Japanese input method is included in the Solaris 9 operating environment. The ATOK12 Japanese input method provides functionality that is similar to the ATOK8, with the addition of several enhancements.

#### crash Utility

The crash utility is no longer supported in this release. In the Solaris 9 operating environment, the mdb(1) utility provides a function that is similar to the crash utility. The mdb utility also examines system crash dump files. The crash utility's interface has been structured around implementation details, such as slots, that have no relation to the Solaris operating system implementation.

"Transition From" in *Solaris Modular Debugger Guide* provides information for users who are making the transition from using crash to using mdb.

#### Crash Dump Options for Solaris ipcs Command

The capability of applying the ipcs(1) command to system crash dumps by using the -C and -N command-line options is no longer supported in this release. Equivalent capability is now provided by the mdb(1) ::ipcs debugger command.

#### cs00 Japanese Input Method

The cs00 Japanese input method is no longer supported in the Solaris 9 operating environment. Related interfaces, such as the xci interface, the Japanese Feature Package (JFP) libmle API, and the mle command, are also no longer supported in the Solaris 9 operating environment.

If you upgrade to the Solaris 9 operating environment from a previous release, the existing public user dictionary /var/mle/ja/cs00/cs00 u.dic is removed.

Two Japanese input methods, ATOK12 and Wnn6, are supported in the Solaris 9 operating environment. For more information on the ATOK12 and Wnn6 input methods, see the *International Language Environments Guide*.

#### x86: devconfig Command

The devconfig command is no longer supported in this release.

### x86: Device and Driver Software Support

The following table lists devices and driver software that are no longer supported in this release.

TABLE 3-1 Devices and Driver Software

Name of Physical Device	Name of Driver	Type of Card
Mylex/Buslogic FlashPoint Ultra PCI SCSI	flashpt	SCSI HBA
Madge Token Ring Smart 16/4, Madge Token Ring Smart 16/4 PCI BM Mk2, Madge Token Ring Smart 16/4 PCI BM Mk1, and Madge Token Ring PCI Presto	mtok	Network
Compaq Integrated NetFlex-3 10/100 T PCI, Compaq NetFlex-3/P, Compaq NetFlex-3 DualPort 10/100 TX PCI, Compaq Netelligent 10 T PCI, and Compaq Netelligent 10/100 TX PCI	cnft	Network

# Early Access (EA) Directory

The name of the EA directory has been changed to ExtraValue in the Solaris 9 operating environment.

#### **Emulex MD21 Disk Controller for ESDI Drives**

The MD21 disk controller for ESDI drives is no longer supported in the Solaris 9 operating environment.

#### enable mixed bcp Tunable

The enable mixed bcp tunable is no longer supported in this release. In Solaris releases prior to the Solaris 9 operating environment, the /etc/system variable enable mixed bcp could be set to 0 to disable dynamic linking of partially statically linked SunOS<sup>TM</sup> 4.0 and compatible executables. The system used dynamic linking for these executables by default. In the Solaris 9 operating environment, dynamic linking is always used for these executables, and the enable mixed bcp tunable has been removed from the system. This change does not affect binary compatibility for SunOS 4.0 and compatible executables in any way.

#### x86: Intel 486-Based Systems

The Solaris operating environment is no longer supported on Intel 486-based systems.

#### japanese Locale Name Alternate

The japanese locale name alternate of the ja Japanese Extended UNIX Code (EUC) locale is no longer supported in this release. This locale name facilitated migration from the Solaris 1.0 release and compatible releases. You can use ja or ja\_JP.eucJP as the Japanese EUC locale with the Solaris 9 operating environment. The Solaris 1.0 BCP (JLE) application and compatible versions can still run in the Solaris 9 operating environment without any changes.

#### Java Software Developer's Kit (SDK) 1.2.2

Version 1.2.2 of the Java<sup>TM</sup> SDK (SUNWj2dev) is no longer included in the Solaris 9 release. Near-equivalent capability is supported by Java 2 Standard Edition, versions 1.4 and compatible versions. Current and previous versions of JDK and Java runtime environment (JRE) are available for download from http://java.sun.com.

#### JDK 1.1.8 and JRE 1.1.8

Version 1.1.8 of the JDK and version 1.1.8 of the JRE are no longer supported in this release. Near-equivalent capability is supported by Java 2 Standard Edition, versions 1.4 and compatible versions. Current and previous versions of JDK and JRE are available for download from http://java.sun.com.

#### OpenWindows Toolkits for Developers

Development in the OpenWindows<sup>TM</sup> XView<sup>TM</sup> and OLIT toolkits is no longer supported in this release. Developers are encouraged to migrate to the Motif toolkit. Applications that were developed with the OpenWindows XView and OLIT toolkits can still run on the Solaris 9 operating environment.

#### **OpenWindows Environment for Users**

The OpenWindows environment is no longer supported in this release. The Common Desktop Environment (CDE) is the default desktop environment that is included in the Solaris 9 operating environment. Applications that use the OpenWindows XView and OLIT toolkits can still run on the Solaris 9 operating environment in CDE.

# Priority Paging and Related Kernel Tunables (priority paging/cachefree)

The priority\_paging and cachefree tunable parameters are not supported in the Solaris 9 release. These parameters have been replaced with an enhanced file-system caching architecture that implements paging policies that are similar to priority paging, but always enabled. Attempts to set these parameters in the /etc/system file result in boot-time warnings such as the following:

```
sorry, variable 'priority_paging' is not defined in the 'kernel' sorry, variable 'cachefree' is not defined in the 'kernel'
```

If you upgrade to the Solaris 9 release or pkgadd the SUNWcsr packages, and your /etc/system file includes the priority\_paging or cachefree parameters, the following occurs:

- The following message is displayed if the priority\_paging or cachefree parameters are set in the /etc/system file:
  - NOTE: /etc/system has been modified since it contains references to priority paging tunables. Please review the changed file.
- 2. Comments are inserted in the /etc/system file before any line that sets priority\_paging or cachefree. For example, if priority\_paging is set to 1, this line is replaced with the following lines:
  - \* NOTE: As of Solaris 9, priority paging is unnecessary and
  - \* has been removed. Since references to priority paging-related tunables
  - \* will now result in boot-time warnings, the assignment below has been
  - \* commented out. For more details, see the Solaris 9 Release Notes, or
  - \* the "Solaris Tunable Parameters Reference Manual".
  - \* set priority paging=1

#### s5fs File System

The s5fs file system is no longer supported in this release. The s5fs file system supports the installation of Interactive UNIX applications, which is no longer required in the Solaris operating environment.

#### sendmail Utility Features

Some features of the sendmail utility are no longer supported in this release. The affected features are modifications that are mostly nonstandard and specific to Sun. These features include special syntax and special semantics for V1/Sun configuration files, the remote mode feature, the AutoRebuildAliases option, and the three sun-reverse-alias features.

More information about these features and migration issues is located at http://www.sendmail.org/vendor/sun/solaris9.html.

#### SUNWebnfs Package

The SUNWebnfs package is no longer included on the Solaris operating environment media.

The library and documentation are available for download from http://www.sun.com/webnfs.

#### sun4d-Based Servers

The following servers that are based on the sun4d architecture are no longer supported in this release.

- SPARCserver<sup>TM</sup> 1000
- SPARCcenter 2000

Hardware options that are dependent on the sun4d architecture are no longer supported in this release.

#### SUNWrdm Package

The SUNWrdm package, which formerly contained text release notes, is no longer included on the Solaris Software CD in this release.

For release notes, refer to the Release Notes on the Solaris Documentation CD, the printed Installation Release Notes, or the most current release notes that are available on http://docs.sun.com.

# Features That Might Be Removed in a Future Release

#### AdminTool Command

AdminTool (admintool), including swmtool, might not be supported in a future release.

#### Asian Short dtlogin Names

The following Asian short locale names might not be listed in the dtlogin language list in a future release.

- zh.GBK
- zh.UTF-8
- ko
- ko.UTF-8
- zh TW

The Solaris 8, Solaris 9, and Solaris 9 8/03 releases provide new ISO-standard locale names, including:

- zh\_CN.EUC
- zh CN.GBK
- zh CN.UTF-8
- ko KR.EUC
- ko KR.UTF-8
- zh TW.EUC

#### **Audit Daemon Interfaces**

The following interfaces that are used by the Solaris audit daemon might not be supported in a future release of the Solaris operating environment:

- auditsvc(2)
- audit\_data(4)

#### **Device Allocation Interfaces For the Basic Security Module**

The following components of the device allocation mechanism of the Basic Security Module might not be included in a future release of the Solaris operating environment:

- mkdevalloc(1M)
- $\blacksquare$  mkdevmaps(1M)
- /etc/security/dev

# **Obsolete Device Driver Interfaces (DDI)**

Some device driver interfaces (DDI) might not be supported in a future release of the Solaris operating environment.

The following table lists DDI interfaces that might not be supported in a future release, along with the preferred DDI interface alternatives.

Obsolete Interface	Preferred Interface
mmap(9E)	devmap(9E)
identify(9E)	set to nulldev(9F)
copyin(9F)	ddi_copyin(9F)
copyout (9F)	ddi_copyout(9F)
ddi_dma_addr_setup(9F)	ddi_dma_addr_bind_handle(9F)
ddi_dma_buf_setup(9F)	ddi_dma_buf_bind_handle(9F)
ddi_dma_curwin(9F)	ddi_dma_getwin(9F)
ddi_dma_free(9F)	ddi_dma_free_handle(9F)
ddi_dma_htoc(9F)	ddi_dma_addr[buf]_bind-handle(9F)
ddi_dma_movwin(9F)	ddi_dma_getwin(9F)
ddi_dma_nextseg(9F)	ddi_dma_nextcookie(9F)
ddi_dma_nextwin(9F	ddi_dma_nextcookie(9F)
ddi_dma_segtocookie(9F)	ddi_dma_nextcookie(9F)
ddi_dma_setup(9F)	ddi_dma_*_handle(9F)
ddi_dmae_getlim(9F)	ddi_dmae_getattr(9F)
ddi_getiminor(9F)	getminor(9F)
ddi_getlongprop(9F)	ddi_prop_lookup(9F)
ddi_getlongprop_buf(9F)	ddi_prop_lookup(9F)
ddi_getprop(9F)	ddi_prop_get_int(9F)
ddi_getproplen(9F)	ddi_prop_lookup(9F)
ddi_iopb_alloc(9F)	ddi_dma_mem_alloc(9F)

Obsolete Interface	Preferred Interface	
ddi_iopb_free(9F)	ddi_dma_mem_free(9F)	
ddi_mem_alloc(9F)	ddi_dma_mem_alloc(9F)	
ddi_mem_free(9F)	ddi_dma_mem_free(9F)	
ddi_map_regs(9F)	ddi_regs_map_setup(9F)	
ddi_mapdev(9F)	devmap_setup(9F)	
ddi_mapdev_intercept(9F)	devmap_load(9F)	
ddi_mapdev_nointercept(9F)	devmap_unload(9F)	
ddi_prop_create(9F)	ddi_prop_update(9F)	
ddi_prop_modify(9F)	ddi_prop_update(9F)	
ddi_segmap(9F)	see devmap(9E)	
ddi_segmap_setup(9F)	devmap_setup(9F)	
ddi_unmap_regs(9F)	ddi_regs_map_free(9F)	
free_pktiopb(9F)	scsi_free_consistent_buf(9F)	
get_pktiopb(9F)	scsi_alloc_consistent_buf(9F)	
makecom_g0(9F)	scsi_setup_cdb(9F)	
makecom_g0_s(9F)	scsi_setup_cdb(9F)	
makecom_g1(9F)	scsi_setup_cdb(9F)	
makecom_g5(9F)	scsi_setup_cdb(9F)	
scsi_dmafree(9F)	scsi_destroy_pkt(9F)	
scsi_dmaget(9F)	scsi_init_pkt(9F)	
scsi_pktalloc(9F)	scsi_init_pkt(9F)	
scsi_pktfree(9F)	scsi_destroy_pkt(9F)	
scsi_resalloc(9F)	scsi_init_pkt(9F)	
scsi_resfree(9F)	scsi_destroy_pkt(9F)	
scsi_slave(9F)	scsi_probe(9F)	
scsi_unslave(9F)	scsi_unprobe(9F)	
$ddi_peek\{c,s,l,d\}$ (9F)	ddi_peek{8,16,32,64}(9F)	
$ddi_poke\{c,s,l,d\}$ (9F)	ddi_poke{8,16,32,64}(9F)	
in{b,w,l}(9F)	ddi_get{8,16,32}(9F)	

Obsolete Interface	Preferred Interface
out{b,w,1}(9F)	ddi_put{8,16,32}(9F)
$repins{b,w,1}(9F)$	ddi_rep_get{8,16,32}(9F)
repouts{b,w,1}(9F)	ddi_rep_put{8,16,32}(9F)
GLOBAL_DEV	Specify 0
NODEBOUND_DEV	Specify 0
NODESPECIFIC_DEV	Specify 0
ENUMERATED_DEV	Specify 0
DDI_IDENTIFIED	not needed
DDI_NOTIDENTIFIED	not needed

For more information, see the man pages section 9: DDI and DKI Driver Entry Points and the man pages section 9: DDI and DKI Kernel Functions.

### Device Management Entries in power.conf

The Device Management entries in power.conf(4) might not be supported in a future release. Similar capability is provided by the Automatic Device Power Management entries in the Solaris 9 operating environment.

#### **Device Support and Driver Software**

The following table lists devices and driver software that might not be supported in a future release.

TABLE 3-2 Device and Driver Software

Name of Physical Device	Name of Driver	Type of Card
AMI MegaRAID host bus adapter, first generation	mega	SCSI RAID
Compaq 53C8x5 PCI SCSI, and Compaq 53C876 PCI SCSI	cpqncr	SCSI HBA
Compaq SMART-2/P Array Controller and Compaq SMART-2SL Array Controller	smartii	SCSI RAID controller

# **Euro Character Input Sequences That Are Alt Key-Based and Meta Key-Based**

Support might be removed from a future release for the following nonstandard-input key sequences for the Euro character in Solaris Unicode/UTF-8 locales:

■ Alt-E

- Alt-4
- Alt-5
- Meta-E
- Meta-4
- Meta-5

Note – In the key sequences, a hyphen indicates simultaneous keystrokes. A plus sign indicates consecutive keystrokes.

The recommended standard-input key sequences follow:

- Alt Graph-E
- Compose+C+=

If the keyboard has no Alt Graph or Compose key, use the following key sequence:

■ Ctrl-Shift-T+C+=

#### **Federated Naming Service XFN Libraries and Commands**

The Federated Naming Service (FNS), which is based on the X/Open XFN standard, might not be supported in a future release.

#### fork() Function

The behavior of fork (), when not linked to the -lpthread library, might change in a future release of the Solaris operating environment. This behavior change makes Solaris threads consistent with POSIX threads.

The fork() function might be redefined to behave like fork1(). Therefore, fork() would replicate only the calling thread in the child process. This redefinition matches the current behavior of fork1() and of fork() when linked with -lpthread.

Support for applications that require the replicate-all behavior of fork() would still be provided.

#### **GMT Zoneinfo Time Zones**

The /usr/share/lib/zoneinfo/GMT[+-] \* time zones might not be supported in a future release. These files might be removed from /usr/share/lib/zoneinfo. Replace usage of the zoneinfo time zones with the equivalent Etc/GMT [-+] \* file. See the man pages zoneinfo(4) and environ(5) for more information.

#### **SPARC: Graphic Driver Support**

Software support for the following graphic devices might not be provided in a future release of the Solaris operating environment.

Device	Driver
MG1,MG2	bwtwo
CG3	cgthree
SX/ CG14	sx, cgfourteen
TC	cgeight
TCX	tcx

#### **JRE 1.2.2**

Version 1.2.2 of the Java runtime environment (JRE) might not be supported in a future release. Similar capability is supported by Java 2 Standard Edition, version 1.4 and compatible versions. Current and previous versions of IRE are available for download from http://java.sun.com.

#### **Kerberos Version 4 Client**

The Kerberos version 4 client might be removed from a future release. This client includes the Kerberos version 4 support in thekinit(1), kdestroy(1),klist(1), mount nfs(1M), mount nfs(1M), and kerbd commands. The Kerberos version 4 client also includes support in the kerberos (3KRB) library, and in the ONC RPC programming API kerberos rpc (3KRB).

#### **Kodak Color Management System**

Support for the Kodak Color Management System (KCMS<sup>TM</sup>) might not be available in a future release of the Solaris operating environment.

#### **Korean CID Fonts**

Korean CID fonts might not be supported in a future release. You can use the Korean TrueType fonts that are included in the Solaris operating environment as a replacement for Korean CID fonts.

# libXinput Library

The libXinput.so.0 library might not be provided in a future release of the Solaris operating environment. The libXinput.so.0 library was provided for backward compatibility with X11R4 applications that were built by using the draft standard X Input API of Solaris 2.1 and Solaris 2.2. The X11 standard X Input Extension library, libXi, was integrated in Solaris 2.3.

All applications that rely on the libXi API should be built by using the libXi shared library for future compatibility and standards conformance.

#### Lightweight Directory Access Protocol (LDAP) Client Library

LDAP client library, libldap.so.3, might not be included in a future release. The current version of this library, libldap.so.5, is compliant with the draft-ietf-ldapext-ldap-c-api-05.txt revision of the ldap-c-api draft from the Internet Engineering Task Force (IETF).

#### **Obsolete Lightweight Process (LWP) Interfaces**

The following LWP interfaces might not be supported in a future release:

- \_lwp\_create(2)
- \_lwp\_detach(2)
- \_lwp\_exit(2)
- \_lwp\_getprivate(2)
- lwp makecontext(2)
- lwp setprivate(2)
- \_lwp\_wait(2)

These interfaces are not part of a common model with multithreading enabled by default. The interfaces have worked as expected only when used in applications that are not linked with libthread.

#### **Nameless Interface Groups Feature**

The Nameless Interface Groups feature, enabled by ndd /dev/ip ip\_enable\_group\_ifs, might not be supported in a future release. Use the supported IP Network Multipathing feature, which provides similar capability. IP multipathing groups can be formed by using the group keyword of the ifconfig command.

For more information, see the ndd(1M) and ifconfig(1M) man pages.

#### Netstat -k Option

The unsupported -k option of netstat, which reports on all named kstats on the running OS instance, might be removed in a future release. Use the supported kstat command, which provides similar capability. The kstat command was introduced in the Solaris 8 operating environment.

For more information, see the kstat(1M) man page.

# NIS+ Name Service Type

Network Information Service Plus (NIS+) might not be supported in a future release. Tools to aid in the migration from NIS+ to LDAP are available in the Solaris 9 operating environment. For more information, visit

http://www.sun.com/directory/nisplus/transition.html.

# pam\_unix Module

The pam\_unix(5) module might not be supported in a future release. Similar capability is provided by pam\_authtok\_check(5), pam\_authtok\_get(5), pam\_authtok\_store(5), pam\_dhkeys(5), pam\_passwd\_auth(5), pam\_unix\_account(5), pam\_unix\_auth(5), and pam\_unix\_session(5).

#### Perl Version 5.005 03

Perl version 5.005\_03 might not be supported in a future release. In the Solaris 9 operating environment, the default version of Perl has been changed to a version that is not binary compatible with the earlier version (5.005\_03). However, the earlier version of Perl is still retained for compatibility. Customer-installed modules need to be rebuilt and reinstalled against the new version. Modify any scripts that require the use of version 5.005\_03 to explicitly use the 5.005\_03 version of the interpreter (/usr/perl5/5.005\_03/bin/perl) instead of the default version (/bin/perl, /usr/bin/perl, or /usr/perl5/bin/perl).

#### **Power Management I/O Control Commands**

The following power management I/O control (ioctls) commands might not be supported in a future release.

- PM DISABLE AUTOPM
- PM REENABLE AUTOPM
- PM SET CUR PWR
- PM GET CUR PWR
- PM GET NORM PWR

The following alternative icctls are supported in the Solaris 9 8/03 operating environment.

- PM DIRECT PM
- PM RELEASE DIRECT PM
- PM\_GET\_CURRENT\_POWER
- PM SET CURRENT POWER
- PM GET FULL POWER

For more information on these alternative ioctls, see the ioctl(2) man page.

### 64-bit SPARC: ptrace(2) Interface in libc

The 64-bit version of the ptrace (2) interface that is included in libc might not be supported in a future release. The proc () interface replaces this functionality. For more information, see the proc(4) man page.

#### sendmailvars and the L and G sendmail.cf commands

The sendmailvars database that is listed in nsswitch.conf(4) might not be supported in a future release. This feature could not be enabled without using the L or G sendmail.cf commands. This change brings the Sun version of sendmail into closer compliance with the version from sendmail.org.

#### **SPARC: 64-bit Packages**

The Solaris operating environment is currently delivered in separate packages for 32-bit and 64-bit components. The 64-bit packages, introduced in the Solaris 7 release, deliver the 64-bit components of the Solaris operating environment. In general, the 64-bit package name ends with the letter "x." For example, SUNWcsl delivers the 32-bit version of the Solaris Core Libraries, and SUNWcslx delivers the 64-bit version.

In a future Solaris release, 32-bit and 64-bit components might be delivered together in a single base package. The combined package retains the name of the original 32-bit package, and the 64-bit package would no longer be delivered. For example, /usr/lib/sparcv9/libc.so.1, which is currently delivered in SUNWcslx, would be delivered in SUNWcslx and SUNWcslx would no longer be delivered.

**Note** – Some packages only deliver 64-bit components and have no corresponding 32-bit package. In these cases, the packages might be renamed to remove the "x" suffix. For example, SUNW1394x might become SUNW1394.

#### Solaris 32-bit Sun4U Kernel

Many installations of the Solaris 7, 8, and 9 software use the default 64-bit kernel to support 32-bit and 64-bit applications. Customers who use the 32-bit kernel on UltraSPARC systems should read this notice.

In the Solaris 7, 8 and 9 operating environments, all systems that are based on the UltraSPARC I and UltraSPARC II processors provide administrators the choice of booting a 32-bit kernel or a 64-bit kernel. The UltraSPARC III and later systems support only the 64-bit kernel.

In a future release of the Solaris operating environment, the 32-bit kernel might not be available for the UltraSPARC I and UltraSPARC II systems.

The primary impact of these changes is to systems that rely on third-party, 32-bit kernel modules: firewalls, kernel-resident drivers, and replacement file systems, for example. These systems must be updated to use 64-bit versions of those modules.

Another impact of these changes is that UltraSPARC systems that contain UltraSPARC I processors with clocks that run at 200 MHz or lower frequencies might not be supported in a future release.

To identify the system's kernel type, use the isainfo(1) command.

% isainfo -kv

To identify the system's processor clock rate, use the psrinfo(1M) command.

% psrinfo -v | grep MHz

#### Solaris Static System Libraries

This announcement applies only to 32-bit static-system libraries and statically linked utilities. 64-bit static system libraries and utilities have never been provided.

Support for 32-bit Solaris static-system libraries and statically linked utilities might not be provided in a future release. Of particular note, support for the static C library (/usr/lib/libc.a) might not be provided in a future release.

Applications that are linked with existing static system libraries might not work in a future release. Only applications that are dynamically linked with the system libraries that provide the Solaris application binary interface (ABI) are designed for future compatibility.

Applications that depend on the behavior of system traps might not work in a future release. Applications that link with libraries that depend on the behavior of system traps, typically libraries providing substitute ABI functions, also might not work in a future release.

#### **Solaris Volume Manager Transactional Volume**

Solaris Volume Manager's Transactional Volumes (trans metadevices) might not be supported in a future release to reduce redundancy on the Solaris feature set. Similar capability is provided by UFS Logging, included in the Solaris 8 operating environment, and compatible versions.

#### Solstice Enterprise Agents

Solstice Enterprise Agents might not be supported in a future release.

#### **SPC Driver**

The SPC driver might not be supported in a future release.

#### **Standalone Router Discovery**

The /usr/sbin/in.rdisc implementation of the IPv4 ICMP Router Discovery protocol might not be supported in a future release of the Solaris software. A near-equivalent version of this protocol, which is implemented as a component of /usr/sbin/in.routed, supports an enhanced administrative interface. The /usr/sbin/in.routed component supports the implementation of Routing Information Protocol (RIP) version 2. The /usr/sbin/in.routed component also has the ability to distinguish Mobile IP advertisements from Router Discovery messages.

#### **Storage Interfaces**

The following interfaces for device driver properties might not be supported in a future release of the Solaris operating environment:

■ fast-writes (pln driver property)

■ priority-reserve (pln driver property)

The following device drivers might not be supported in a future release of the Solaris operating environment:

- /kernel/drv/pln
- /kernel/drv/pln.conf
- /kernel/drv/sparcv9/pln
- /kernel/drv/soc
- /kernel/drv/sparcv9/soc

The following utility might not be supported in a future release of the Solaris operating environment:

■ /usr/sbin/ssaadm

#### sun4m Hardware

sun4m hardware might not be supported in a future release of the Solaris operating environment.

# Sun StorEdge A3000, Sun StorEdge A3500, and Sun StorEdge A3500FC Systems

Software support for the following storage devices might not be provided in a future release of the Solaris operating environment:

- Sun StorEdge<sup>TM</sup> A3000 System
- Sun StorEdge A3500 System
- Sun StorEdge A3500FC System

#### **Tape Devices**

The following tape devices might not be supported in a future release of the Solaris operating environment:

- Sun StorEdge<sup>™</sup> DLT4700 Tape Autoloader
- Sun StorEdge L140 Tape Library
- Sun StorEdge L280 Tape Autoloader
- Sun StorEdge L400 Tape Library
- Sun StorEdge L1800 Tape Library
- Sun StorEdge L3500 Tape Library
- Sun StorEdge L11000 Tape Library

# Ultra AX and SPARCengine Ultra AXmp Graphics Card

Support for the Ultra<sup>TM</sup> AX and the SPARCengine Ultra AXmp graphics card might not be provided in a future release of the Solaris operating environment.

#### 32-bit: X11 Static Libraries

Static libraries in /usr/openwin/lib might not be supported in a future release of the Solaris operating environment. Support for 32-bit static libraries in /usr/openwin/lib and programs that are statically linked with those libraries might not be provided in a future release. Sixty-four-bit static libraries have never been provided.

Applications that are linked with existing static libraries in /usr/openwin/lib might not work in a future release. Only applications that are dynamically linked with the shared libraries that provide the Solaris application binary interface (ABI) are designed for future compatibility.

#### **XIL Interface**

The XIL<sup>TM</sup> interface might not be supported in a future release. An application that uses XIL causes the following warning message to be displayed.

```
WARNING: XIL OBSOLESCENCE
This application uses the Solaris XIL interface
which has been declared obsolete and may not be
present in version of Solaris beyond Solaris 9.
Please notify your application supplier.
The message can be suppressed by setting the environment variable
" XIL SUPPRESS OBSOLETE MSG.
```

#### xetops Utility

The xetops utility might not be supported in a future release of the Solaris operating environment. The xetops utility converts an Asian text file to a PostScript file. This conversion enables Asian characters to be printed on PostScript printers that do not have resident Asian fonts.

Similar capability is provided in the mp command, which has been enhanced to support all of the native Asian encodings with more options and functionality.

#### **xutops Print Filter**

The xutops print filter might not be supported in a future release. Similar capability is provided by the mp(1) print filter in the Solaris 9 8/03 operating environment.

# **Documentation Issues**

This chapter describes known documentation problems. For documentation issues identified too late to be included in these release notes, refer to the *Solaris 9 8/03 Release Notes* in the *Solaris 9 8/03 Release and Installation Collection* on http://docs.sun.com.

#### **Documentation Errata**

Document Affected: Sun WBEM SDK Developers Guide

In the Solaris CIM schema, the following classes and properties are tagged with the Deprecated qualifier.

- Solaris LogRecord class
- Solaris LogService class
- Solaris LogServiceSetting class
- Solaris LogServiceSetting class
- OptionsEnabled property in Solaris\_IPProtocolEndpoint class

Use suitable alternatives to these deprecated classes and properties. Refer to the class description qualifiers to determine the correct class and the correct property alternatives.

# **Document Affected: "Writing Client Applications" in** *Sun WBEM SDK Developers Guide*

"Writing a Client Program" provides information about creating WBEM clients that use the RMI protocol with the <code>javax.com.sun.client</code> API. If you want to connect to a server that is running the Solaris 8 operating environment, you must include the <code>/usr/sadm/lib/wbem/cimapi.jar</code> file in the client's CLASSPATH. The <code>cimapi.jar</code> file includes the <code>com.sun.wbem</code> classes that are required to communicate with a server that is running the Solaris 8 operating environment.

**Note** – This documentation pertains to the use of indexed deployment directories.

The numbering scheme part of a deployed application's directory name has been implemented as an indexing mechanism. This mechanism enables a developer to modify a JAR or class file associated with the deployed application. This mechanism is significant to the Windows platform because of a sharing violation error that occurs during an attempt to overwrite a loaded file, Windows places a file lock on the loaded file. The file is loaded into the server instance or the IDE during session startup. With the sharing violation error, two options are possible:

- Compile the updated class file (originally part of that JAR file) and place it first in the classpath in order to be loaded before the older classes. Then allow for the Sun ONE Application Server to reload this application (as long as reload is active).
- Update the JAR file, create a new EAR file, and redeploy the application.

**Note** – Redeployment of the application on the Solaris platform is not necessary because no file-locking constraints exist.

When changing an already deployed application on the Windows platform for IDE setup, ANT file copy, or compile or other operations, be aware of another change. A new directory is created with an incremented index number as the workaround for the file-locking constraint. For example, on the Solaris platform the J2EE application, helloworld, is deployed to the Sun ONE Application Server with the following directory structure:

appserv/domains/domain1/server1/applications/j2eeapps/helloworld 1

A change is then to be made to a servlet that is part of this deployed application (for example, HelloServlet.java). The Sun ONE Studio IDE is started, the source file for this servlet is changed and compiled with the javac target set to the previously mentioned directory. With the source compiled in the proper location, a reload file exists for this application. The reload flag in server.xml is set to true, and with the server instance running, the changes become effective without reassembly of the application and redeployment.

For the Windows platform, the JAR or class file cannot be altered and updated because of the file-locking issue. Therefore, you can resolve this issue on Windows in one of two ways:

 Compile the changed source file and prepend the class file or JAR in the classpath in order to make the source changes effective. ■ Make the changes to the helloworld source, assemble it, and redeploy it without undeploying the previous deployment of helloworld.

The second option is the preferred method because this option results in the use of the incremented index number appended to the deployed application's directory name. After a second deployment of helloworld, the directory structures would resemble the following:

```
appserv/domains/domain1/server1/applications/j2ee-
apps/helloworld 1
appserv/domains/domain1/server1/applications/j2ee-
apps/helloworld 2
```

The second deployment of helloworld would be deployed under helloworld\_2.