# FUĴĨTSU

В23Q8YA-G-02-Е

PRIMEPOWER Hardware Platform Guide: Operation for Solaris<sup>™</sup> 10 Operating System -- Start Here--

Download from Www.Somanuals.com. All Manuals Search And Download.

## Preface

Solaris<sup>™</sup> Operating System is described as Solaris in this manual.

### Purpose

This manual provides notes necessary after installing the Solaris 10 on PRIMEPOWER.

#### **Intended Readers**

This manual is intended for system administrators who install Solaris<sup>™</sup> Operating System (Solaris) and operate it.

Readers are expected to have the basic knowledge of a system administrator.

### Organization

This manual is organized as follows:

- Chapter 1 Notes after the Installation This chapter describes post-installation notes.
- Chapter 2 Backup and Restore of System Disk (PRIMEPOWER 1/200/250/400/450/600/650/850) This chapter explains the procedures for backup/restore of the disk (hereafter called, the system disk) containing the Solaris software.
- Chapter 3 Backup and Restore of System Disk (PRIMEPOWER 800/900/1000/1500/2000/2500) This chapter explains the procedures for backup/restore of the disk (hereafter called, the system disk) containing the Solaris software.
- Chapter 4 Secondary LAN port on PRIMEPOWER250/450 This chapter describes how to use the secondary LAN (10/100/1000Mbps) port on PRIMEPOWER 250/450.
- Chapter 5 Precautions

This chapter explains precautions when using Solaris 10.

### High Risk Activity

The Customer acknowledges and agrees that the Product is designed, developed and manufactured as contemplated for general use, including without limitation, general office use, personal use, household use, and ordinary industrial use, but is not designed, developed and manufactured as contemplated for use accompanying fatal risks or dangers that, unless extremely high safety is secured, could lead directly to death, personal injury, severe physical damage or other loss (hereinafter "High Safety Required Use"), including without limitation, nuclear reaction control in nuclear facility, aircraft flight control, air traffic control, mass transport control, medical life support system, missile launch control in weapon system. The Customer, shall not use the Product without securing the sufficient safety required for the High Safety Required Use. In addition, Fujitsu (or other affiliate's name) shall not be liable against the Customer and/or any third party for any claims or damages arising in connection with the High Safety Required Use of the Product.

### Trademarks

Sun, Sun Microsystems, the Sun Logo, Solaris and all Solaris based marks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries, and are used under license. Microsystems, Inc. in the United States and other countries.

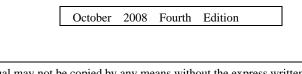
Java and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and other countries.

Microsoft, MS-DOS and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

All SPARC trademarks are used under license from SPARC International, Inc. and are trademarks or registered trademarks of that company in the U.S. and other countries. Products with the SPARC trademark are based on architecture developed by Sun Microsystems, Inc.

All other products, or company names mentioned in this document are claimed as trademark and trade names by their respective companies.

March, 2005



- This manual may not be copied by any means without the express written permission of FUJITSU LIMITED.
- FUJITSU LIMITED reserves the right to make changes to this manual without prior notice.

All Rights Reserved, Copyright © FUJITSU LIMITED 2005-2008 All Rights Reserved, Copyright © PFU LIMITED 2005-2008

Notes

## Contents

Chapter 1	Notes after the Installation	1
1.1 PRI	MEPOWER - Specific Notes	1
1.1.1	Modifications of Solaris OS (Patches, PTF, Program Local Fix)	1
1.1.2	Changing the date and time	1
1.1.3	Serial port	
1.1.3.1	PRIMEPOWER800/1000/2000	1
1.1.3.2		
1.1.4	Gigabit Ethernet port on PRIMEPOWER250/450	
1.1.5	Fibre Channel Cards (PW008FC3, PW008FC2 or GP7B8FC1)	2
1.1.6	Time for booting Solaris	2
1.1.7	Error messages displayed after booting from Solaris CD/DVD	
1.2 Sola	ris OS - Notes and Bug Information	3
1.2.1	The order of instance numbers of optional cards	3
1.2.2	Notes on Solaris OS operation	3
1.2.3	Notes on PCI cards	5
1.2.4	Setting Up PRIMEPOWER MIB Information	6
1.2.5	Other notes and bug information	7
1.3 Uns	upported Features	7
Chapter 2	Backup and Restore of System Disk (PRIMEPOWER1/200/250/400/450/600/650/850)	9
2.1 Тур	es of Backup Procedures	9
2.2 Back	kup and Restore of File System Unit	10
2.2.1	Backup of File System Unit	10
2.2.2	Restore of File System Unit	11
2.3 Back	kup and Restore of Disk Unit	12
2.3.1	Backup of Disk Unit	12
2.3.2	Restore of Disk Unit	12
Chapter 3	Backup and Restore of System Disk (PRIMEPOWER800/900/1000/1500/2000/2500)	13
3.1 Тур	es of Backup Procedures	13
Chapter 4	Secondary LAN port on PRIMEPOWER250/450	15
4.1 Out	ine	15
4.2 Note	28	15
4.3 How	to Set Configuration Information	15
4.3.1	Environment Setting	15
4.3.1.1	Determining the Client Name of Target Driver	15
4.3.1.2	Defining Hostname	16
4.3.1.3	Defining Netmask Value	16
4.3.2	Setting the Operation Mode	16
4.3.2.1	fjgi.conf file	16
4.3.2	2.1.1 Parameters List	16
4.3.2	2.1.2 How to Set Parameter	18
4.3.2	2.1.3 Caution	18
4.3.2.2	Setting a JumboFrame	18
4.3.2.3	To use ndd(1M) Utility	19
4.3.2.4	Changing the setting of FCode	22
4.3.2.5	Network Install	23

4.3.2.	6 Configuring VLAN interface	
4.3	.2.6.1 IEEE 802.1Q TagVLAN	
4.3	.2.6.2 How to create the VLAN interface	
4.4 Me	ssages	
4.5 Us	ing GigabitEthernet on a Cluster System	
4.5.1	Support for Cluster System	
4.5.2	Cluster Environment Setup Procedure	
4.5.3	Notes in Cluster Environment	
Chapter 5	Precautions	
5.1 Lir	nitations and known bugs for Solaris	
5.2 Spe	ecification and incompatibility for Solaris	

## Chapter 1 Notes after the Installation

This chapter describes the post-installation notes.

## 1.1 PRIMEPOWER - Specific Notes

## 1.1.1 Modifications of Solaris OS (Patches, PTF, Program Local Fix)

Only the modifications (patches, PTF, Program Local Fix, etc.) for PRIMEPOWER provided by FUJITSU LIMITED can be applied to existing PRIMEPOWER systems running Solaris OS software. Do not use patches provided by Sun Microsystems, Inc. on the World Wide Web or those provided by other vendors. Also be careful that you do not apply modifications (patches, PTF, Program Local Fix, etc.) intended for other systems (GP7000D, etc.) provided by FUJITSU LIMITED. For information on Solaris OS modifications, contact a FUJITSU systems engineer.

## 1.1.2 Changing the date and time

### PRIMEPOWER 1/200/250/400/450/600/650/850

Use the date command in single user mode if you need to change the date and time for testing purposes.

### PRIMEPOWER 800/900/1000/1500/2000/2500

See "System Console Software User's Guide" for information on how to change the date and time.

## 1.1.3 Serial port

## 1.1.3.1 PRIMEPOWER800/1000/2000

- All serial ports on the system board are to be used for the System Management Console.
- Do not access the following devices relating to serial ports. Also do not change the setting of applications using the following device files (such as a port monitor).
  - /dev/term/a, b, ...
  - /dev/cua/a, b, ...
  - /dev/term/fa000, fa001, ...
  - /dev/cua/fa000, fa001, ...
  - /dev/se\_hdlc
  - /dev/se\_hdlc0, /dev/se\_hdlc1, ...

However, devices that are not used as the console path may be used, but only for the FJVTS and SunVTS. The usable default devices for FJVTS and SunVTS are /dev/term/fa003, fa004, ... and /dev/se\_hdlc3, se\_hdlc4, ...

## 1.1.3.2 PRIMEPOWER900/1500/2500

• The device name of the serial port will be as follows:

- /dev/term/fa000, fa001, ...
- /dev/cua/fa000, fa001, ...
- /dev/se\_hdlc0, se\_hdlc1, ...

Because the number of this device name is allocated from the instance number of driver, this number does not necessarily correspond to the slot number of the system board.

- Do not change the setting of port monitor, etc. to the serial port for the console. Because the physical device of the serial port used for the console is the physical device path which are linked from logical device under /dev/fjse directory, the logical devices under /dev/term and /dev/cua, and /dev/se\_hdlcX files, which link to above-mentioned physical device path, are devices used for the console.
- Other than the serial port for consoles, five serial ports can be used by the user. However, keep in mind that it is necessary to stop beforehand the application that is using the serial port of the system board or the PCI/disk BOX in order to disconnect the system board by Dynamic Reconfiguration.
- Only the devices that are not used as a console path, can be used for FJVTS and SunVTS.

## 1.1.4 Gigabit Ethernet port on PRIMEPOWER250/450

PRIMEPOWER250/450 has a Gigabit Ethernet port as standard equipment. For how to use the Gigabit Ethernet port, refer to "Chapter 4 Secondary LAN port on PRIMEPOWER250/450."

## 1.1.5 Fibre Channel Cards (PW008FC3, PW008FC2 or GP7B8FC1)

Install the following versions of drivers:

FUJITSU PCI Fibre Channel 3.0 or later.

To install the driver, use the installer in the driver CD-ROM that is provided with the Fibre Channel Card. If you don't have the driver CD-ROM mentioned above, download it from the following page. http://www.fujitsu.com/support/computing/server/unix/driver/

Install the driver again after an update of Solaris 10.

For more detailed information, refer to "FUJITSU PCI Fibre Channel 3.0 Installation Guide" that is provided with the driver CD-ROM or the page described above.

## 1.1.6 Time for booting Solaris

When booting Solaris 10 10/08 or later from Solaris CD/DVD or from the network via network instances such as hme/qfe, it may take more time (approx. 20 minutes) than previous releases.

### Example

```
{0} ok boot net
Boot device: /pci@80,4000/network@1,1 File and args:
* This interval may be longer than previous releases.
SunOS Release 5.10 Version Generic_xxxxx-xx 64-bit
....
```

## 1.1.7 Error messages displayed after booting from Solaris DVD

If Enhanced Support Facility has been already installed on the system, the following error messages (max. 32 lines) may be displayed on the console at the first time of the boot from the system disk after the boot from the Solaris CD/DVD which is Solaris 10 10/08 or later, but the error messages can be ignored safely.

Sep 11 09:50:00 xxxx FJSVmadm[1505]: pw450:FJSVmadm:A:-:OBP:Detected hardware error occurred at Jul 16 08:36:15 JST

Also, the following messages are stored many times in XSCF log, too. The error messages can be ignored safely.

## 1.2 Solaris OS - Notes and Bug Information

## 1.2.1 The order of instance numbers of optional cards

If an additional option card is installed, the instance number on the card might be assigned out of order. Additional installation by Dynamic Reconfiguration or PCI Hot-plug is also applicable but replacement by Dynamic Reconfiguration or PCI Hot plug is not applicable.

If you need to assign the instance numbers orderly, follow these steps below.

- Set the following in /etc/system.
   set mtc\_off=1
- 2. Reboot the system.
- 3. Install the optional card.

After the above setting, it may take longer time to reboot the system. If that affects the system, delete the line and reboot the system.

## 1.2.2 Notes on Solaris OS operation

### CD-ROM/DVD-ROM in UNIX file system (UFS) format

Do not use any CD-ROM/DVD-ROM in UNIX file system (UFS) format that is not produced for the Solaris OS.

Even if the file system in such a CD-ROM / DVD-ROM is in UFS format, it's file construction may differ from that of a Solaris system. If such a CD-ROM / DVD-ROM is used, serious problems, including a system crash may occur.

### Enter the OpenBoot environment

The following operations on a running system will enforce the system to move to Open Boot mode, which might damage data.

- Connecting / Disconnecting the keyboard cable to / from the system.
- Sending a Break signal from the console terminal connected to the serial port.
- Turning on/off the power to the unit connected to the serial port of the system. (This power on/off is treated as a Break signal.)

To prevent a system from entering the Open Boot mode, do the following:

### **PRIMEPOWER 200/400/600**

- Set the MODE switch on the operation panel of the system to "SECURE" mode.
- Set OBP command (PROM command) to disable a Break signal. For more detailed information, refer to "PRIMEPOWER USER'S MANUAL."

### PRIMEPOWER 250/450/650/850/800/900/1000/1500/2000/2500

- Set the MODE switch on the operation panel of the system to "LOCK" mode.
- Set OBP command (PROM command) to disable a Break signal. For more detailed information, refer to "PRIMEPOWER USER'S MANUAL."

### PRIMEPOWER1

- Change the default keyboard abort sequence effect with kbd commnd.
   # /usr/bin/kbd -a disable <Return>
- Change the /etc/default/kbd setting
  - 1. Edit the /etc/default/kbd as follows: KEYBOARD\_ABORT=**disable**
  - 2. Set keyboard defaults from the /etc/default/kbd file.
    # kbd -i <Return>
- Set OBP command (PROM command) to disable a Break signal. For more detailed information, refer to "PRIMEPOWER USER'S MANUAL."

#### Single-user mode

If you enter the system in single-user mode with the following commands, the run-level of the init process displayed by the who -r command may be displayed incorrectly. In this case, the commands pkgadd, patchadd, etc. may terminate.

/sbin/init s /sbin/init S /usr/sbin/shutdown [-y] [-gN] -is (N: numeral) /usr/sbin/shutdown [-y] [-gN] -iS (N: numeral)

To avoid this problem follow the steps below.

Enter the OpenBoot environment.
 # /usr/sbin/shutdown -y -g0 -i0 <Return>

 When the ok prompt is displayed, boot the system with the following command.
 ok boot -s <Return>

### Transport protocols for NFS version 2/3

Although NFS version 2/3 can use either TCP or UDP as the transport protocol, it is recommended to use TCP. If UDP is used on a poor quality network(in which packet loss occurs or transfer takes too long time etc.), overall performance, stability and / or security may be degraded and further problems may occur. Special NFS client settings may be necessary to use TCP for NFS. For more detailed information, refer to the NFS client manual.

From Solaris 2.6 or later, NFS clients can be made to use the TCP protocol, by specifying "proto=tcp" as the mount option. If the protocol to be used is not specified, mounting NFS using TCP is first attempted, If that fails, mounting NFS using UDP is attempted.

### How to eject a diskette

When you want to eject a diskette, follow the instructions described below. If not followed, data may be damaged.

For more detailed information, refer to "Managing Removable Media" in "System Administration Guide."

- 4. Make sure the diskette is not being used.
- 5. Run the following command.
  - # eject floppy0 <Return>
- 6. Make sure the Access LED has turned off.

7. Press the Eject button on the diskette drive unit, then eject the diskette.

### WARNING messages of se driver

When a serial port receives a lot of data, such as when a large amount of text is pasted on a console screen connected to a serial port, the console message "seN: Buffer overrun" (N means an instance number of se driver) will be displayed and the data will be lost.

This is because the user process cannot read data fast enough.

The size of data pasted on a console screen should be 1024 bytes or less at a time.

Speed of reception depends on each user process.

## 1.2.3 Notes on PCI cards

### How to install PCI cards

To install a new PCI card, follow the steps described below.

Also, when you remove the PCI card or change the slot, do the following steps.

### For PRIMEPOWER 1

- 1. Enter the OpenBoot environment.
- # /usr/sbin/shutdown -y -g0 -i0 <Return>
  2. Enter the following command to stop the system in the OpenBoot environment at the next system boot.

ok setenv auto-boot? false <Return>

- 3. Turn off the power to the system. ok **power-off** <Return>
- 4. Install the PCI card to the system. (For more detailed information, refer to the manual attached to the card.)
- 5. After you turn on the power, the OK prompt will be displayed. Boot the system with the following command.

```
ok setenv auto-boot? true <Return>
ok boot -r <Return>
```

Some of the PCI cards need driver software. If that is the case, use the following steps:

- 6. Add driver software. (For more detailed information, refer to the manual attached to the card.)
- Enter the Open Boot Environment. Some of the manuals attached to the card may instruct "Reboot your machine", which means to enter the Open Boot Environment with the following command.
  - # /usr/sbin/shutdown -y -g0 -i0 <Return>
- When the OK prompt is displayed, boot the system with the following command.
   ok boot -r <Return>

## For PRIMEPOWER 200/400/600

1. If the system is running, turn off the power to the system with the following command:

- # /usr/sbin/shutdown -y -g0 -i5 <Return>
- Install the PCI card to the system. (For more detailed information, refer to the manual attached to the card.)
- 3. Set the MODE switch on the operation panel to "MANUAL" mode and turn on the power.
- 4. After you turn on the power, the OK prompt will be displayed. Boot the system with the following command.

ok **boot -r** <Return>

5. Return the MODE switch on the operation panel to "SECURE" mode.

Some of the PCI cards need driver software. If that is the case, use the following steps:

6. Add driver software. (For more detailed information, refer to the manual attached to the card.)

- 7. Enter the Open Boot Environment. Some of the manuals attached to the card may instruct "Reboot your machine", which means to enter the Open Boot Environment with the following command.
  # /usr/sbin/shutdown -y -g0 -i0 <Return>
- 8. When the OK prompt is displayed, boot the system with the following command. ok **boot -r** <Return>

### For PRIMEPOWER 250/450/650/850/800/900/1000/1500/2000/2500

- 1. If the system is running, turn off the power to the system with the following command:
- # /usr/sbin/shutdown -y -g0 -i5 <Return>
- 2. Install the PCI card to the system. (For more detailed information, refer to the manual attached to the card.)
- 3. Set the MODE switch on the operation panel to "UNLOCK" mode and turn on the power.
- 4. After you turn on the power, the OK prompt will be displayed. Boot the system with the following command.

ok **boot -r** <Return>

5. Return the MODE switch on the operation panel to "LOCK" mode.

Some of the PCI cards need driver software. If that is the case, use the following steps:

- 6. Add driver software. (For more detailed information, refer to the manual attached to the card.)
- 7. Enter the Open Boot Environment. Some of the manuals attached to the card may instruct "Reboot your machine", which means to enter the Open Boot Environment with the following command.
  # /usr/sbin/shutdown -y -g0 -i0 <Return>
- 8. When the OK prompt is displayed, boot the system with the following command.
   ok boot -r <Return>

On PRIMEPOWER450 (Rackmount Type(7U))/900/1500 (with SPARC64 V)/2500, you are able to use PCI Hot Plug function, which is included in Enhanced Support Facility. If you use PCI Hot Plug function, refer to "PCI Hot Plug User's Guide" in Enhanced Support Facility.

## 1.2.4 Setting Up PRIMEPOWER MIB Information

If you introduce the network management software and want the machine to be monitored using its proper model name, you have to set up the MIB information as described below.

- 1. Log in as a superuser.
- 2. Stop the Solstice Enterprise Agent (SEA) daemon.
  - # /etc/init.d/init.snmpdx stop <Return>
- Check the model name with the following command. Note the displayed model name.
   # /usr/sbin/FJSVmadm/hrdconf | head -1 <Return>

Example: PRIMEPOWER400

4. Modify the /etc/snmp/conf/snmp.conf file.

Before modification: sysdescr Sun SNMP Agent,

After modification:

sysdescr Fujitsu SNMP Agent, **model\_name** 

Write the model name displayed in the step 3, in the place of "model\_name".

You can customize the above sysdescr string the way you like. But some network management software refers to "model-name", please check whether SNMP is running on the system.

5. Restart the Solstice Enterprise Agent (SEA) daemon.
# /etc/init.d/init.snmpdx start<Return>

## 1.2.5 Other notes and bug information

For other notes and bug information during the system operation, refer to the following document:

• "Solaris 10 Release Notes "

## 1.3 Unsupported Features

The following features described in Solaris OS manuals are not supported.

### Table 1.1 Unsupported features

No.	Description	Alternative method	Reference manual
1	The Suspend-Resume features,	None	"Solaris Common Desktop
	cannot be used with		Environment: User's Guide" in
	PRIMEPOWER.		"Solaris 10 Common Desktop
			Environment User Collection"

## Note:

There are some differences between the power management system provided by Solaris OS and Auto Power Control System provided by Enhanced Support Facility. In the Auto Power Control System, you can set AutoShutdown and AutoWakeup features on PRIMEPOWER. However, Auto Power Control System is not supported with PRIMEPOWER1.

8

## Chapter 2 Backup and Restore of System Disk (PRIMEPOWER1/200/250/400/450/600/65 0/850)

This chapter explains the procedures to backup/restore the disk (hereafter called, the system disk) containing the Solaris OS software.

## 2.1 Types of Backup Procedures

Backup of the system disk requires that the disk and slices to be backed up not be in use. The system disk contains file systems (such as the root (/) file system) that cannot be unmounted. In backing up the system disk, special procedures are required.

The following are some of the typical ways to back up the Solaris OS disk.

Understanding them will help you choose the appropriate method to back up your system disk properly. For more detailed information about the procedure mentioned in a., see each subsection from "2.2 Backup and Restore of File System Unit."

For more detailed information about the procedure mentioned in d., see each subsection from "2.3 Backup and Restore of Disk Unit."

- To back up a file system unit, use the ufsdump(1M) command after booting in single-user mode.
   If you are restoring, use the ufsrestore(1M) command after booting from the Solaris OS CD/DVD to restore the file system unit.
  - The file system that will be backed up is only the ufs file system.
  - Disk partition information such as the size of each file system will not be backed up. You must record this information separately.
  - The ufsdump(1M) command backs up a file system divided into file units so it is possible to
    restore to a disk having a different file system size. If only a limited amount of space has been
    used in the file system, this may back up into a space smaller than the size of the file system.
    When backing up using the ufsdump(1M) command, it is possible to only restore selected files.
- b. To back up a file system unit, use the ufsdump(1M) command after booting from the Solaris OS CD/DVD.

If you are restoring, use the ufsrestore(1M) command after booting from the Solaris OS CD/DVD to restore the file system unit.

- The file system that will be backed up is only the ufs file system.
- Disk partition information such as the size of each file system will not be backed up. Therefore, you must record this information separately.
- The ufsdump(1M) command backs up the file system divided into file units, so it is possible to restore to a disk having a different file system size. If only a limited amount of space has been used in the file system, this may back up into a space smaller than the size of the file system. When backing up using the ufsdump(1M) command, it is possible to only restore selected files.
- c. To back up a slice unit, use the dd(1M) command after booting from the Solaris OS CD/DVD.

If you are restoring, use the dd(1M) command after booting from the Solaris OS CD/DVD to restore the slice unit.

- If you back up slice 0, it will only be possible to restore to a disk having the same physical properties (disk space, number of cylinders) as the original.
- Disk partition information such as the size of each slice will not be backed up. You must record this information separately.
- d. To back up a disk unit, use the dd(1M) command after booting from the Solaris OS CD/DVD. If you are restoring, use the dd(1M) command after booting from the Solaris OS CD/DVD, to restore the disk unit.
  - Because this procedure backs up the disk unit, it is only possible to restore to a disk having the same physical properties (disk space, number of cylinders) as the original.

Depending on the tape device, you might have to observe some precautions when backing up or restoring. Consult the manual of the tape device before such actions.

It is recommended that you select the SCSI device having the target ID 0 for Solaris OS installation. In this case, the device name of the system disk will be "c0t0d0" obtained from the controller number (0), target ID (0), and LUN number (0). If you install Solaris OS on a disk, having a controller number other than 0, the controller number may change later depending on whether booting took place from a CD/DVD or a hard disk. Thus when referring to disk device, check that it's name haven't changed due to the reason described above.

If you apply the optional software that contains modules that run as part of the driver and file system of the system disk, carefully follow the instructions and notes described in the manuals supplied with each software option.

For example, if you configure disk mirroring using PRIMECLUSTER GDS, you must select the backup procedures mentioned in b. In addition, if the system disk contains a file system other than a ufs file system such as PRIMECLUSTER GFS, you must select the backup procedures using the backup command provided in the file system or the dd(1M) command.

## 2.2 Backup and Restore of File System Unit

The following describes how to back up the file system unit using the ufsdump(1M) command. "Solaris System Administration Guide" also describes the following procedures.

Note that disk partition information such as the size of each slice will not be backed up. Therefore, you must record the information separately using the prtvtoc(1M) or format(1M) commands.

```
or
```

```
# prtvtoc XXXX <Return>
```

```
#
```

```
# format XXXX <Return>
format> partition
partition> print
```

The "XXXX" in the above example is the character device name of the target disk. Use slice 2 of the disk, like :

/dev/rdsk/c0t0d0s2.

## 2.2.1 Backup of File System Unit

In single-user mode use the following procedures to back-up each file system. After backing up, reboot the system.

1. Boot the system in single-user mode.

	ok	boot	-s	<return></return>
--	----	------	----	-------------------

```
2. Backup the file system with the ufsdump(1M) command.
Example: Backup to the "/dev/rmt/0."
# ufsdump Oucf /dev/rmt/0 / <Return>
```

## 2.2.2 Restore of File System Unit

When restoring the file system unit, the Solaris OS is booted from the Solaris 10 CD1 or Solaris 10 DVD. After booting Solaris OS, mount the disk to be restored temporarily, and then restore the file system unit. Follow the procedures below to restore each file system. After restoring, reboot the system. If using a new disk or a disk previously used for other purposes, create a boot block after creating disk slices and a disk label with the format (1M) command, before starting the restoration process.

If optional software like PRIMEPOWER GDS, which runs as a part of the kernel is installed in the system, extra care should be taken as the Solaris CD/DVD does not contain these modules. In such a case, consult the manual of the respective optional software.

1. Boot the Solaris OS from the CD/DVD in single-user mode.

	ok	boot	$\mathtt{cdrom}$	-s	<return></return>	
--	----	------	------------------	----	-------------------	--

2. If you use a new disk or a disk previously used for other purposes, create a disk slices and a disk level with the format(1M) command.

# format <Return>

For information on how to create a disk slice and a disk level using the format(1M) command, see the manuals.

Create a boot block with the installboot(1M) command.

# installboot /usr/platform/`uname -i`/lib/fs/ufs/bootblk XXXX <Return>

For information on how to create a boot block using the installboot(1M) command, see the manuals.

The "XXXX" in the above example is the character device name of the target disk. Use slice 0 of the disk, like : /dev/rdsk/c0t0d0s0.

3. Create a new file system with the newfs(1M) command.

# newfs XXXX <Return>

The "XXXX" in the above example is the character device name of the target disk, like : /dev/rdsk/c0t0d0s0.

4. Mount the file system with the mount(1M) command.
# mount -F ufs YYYY /mnt <Return>

The "YYYY" in the above example is the block device name of the target disk, like : /dev/dsk/c0t0d0s0.

- 5. Change to the mounted directory.
- # cd /mnt <Return>
- 6. Restore the file system with the ufsrestore(1M) command.

Example: Restore from the "/dev/rmt/0."

# ufsrestore rvf /dev/rmt/0 <Return>

7. Remove the restoresymtable file created by the ufsrestore(1M) command.

# rm restoresymtable <Return>

- 8. Change the directory to the root (/), and unmount the file system.
  - # cd / <Return>
    # umount /mnt <Return>
  - Check the integrity of the file system with fsck(1M) command.

# fsck XXXX <Return>

9.

The "XXXX" in the above example is the character device name of the target disk, like :

/dev/rdsk/c0t0d0s0.

## 2.3 Backup and Restore of Disk Unit

When backing up a disk unit, use the dd(1M) command. The following describes how to back up a disk unit to a tape device using the dd(1M) command. The backup records physical properties such as disk space and a number of cylinders, so it is only possible to restore to a disk having the same physical properties. The prtvtoc(1M) command displays the physical properties as " Dimensions."

# prtvtoc XXXX <Return>

Specify the slice 2 of character special disk (/dev/rdsk/...) to be backed up such as "/dev/rdsk/c0t0d0s2" with the format(1M) command.

## 2.3.1 Backup of Disk Unit

In the backup of a disk unit, the Solaris OS is booted from the Solaris 10 CD1 or Solaris 10 DVD. After backing up, reboot the system.

1.	Boot the Solaris OS from the CD in single-user mode.		
	ok <b>boot cdrom -s</b> <return></return>		
2.	Back up the disk unit with the dd(1M) command.		
	Example: Backup to the "/dev/rmt/0."		
	<pre># dd if=XXXX of=/dev/rmt/0 bs=64k <return></return></pre>		

Specify the character special disk name (/dev/rdsk/c0t0d0s2) to be backed up such as "/dev/rdsk/..." with the dd(1M) command. In this case, you must specify the "s2" as the entire disk.

## 2.3.2 Restore of Disk Unit

In the restore of a disk unit, the Solaris OS is booted from the Solaris 10 CD1 or Solaris 10 DVD. After restoring, reboot the system.

1.	Boot the Solaris OS from the CD in single-user mode.		
	ok <b>boot cdrom -s</b> <return></return>		
2.	Restore the disk unit with the dd(1M) command.		
	Example: Restore from the "/dev/rmt/0."		
	<pre># dd if=/dev/rmt/0 of=XXXX bs=64k <return></return></pre>		

Specify the character special disk name (/dev/rdsk/c0t0d0s2) to be backed up such as "/dev/rdsk/..." with the dd(1M) command. In this case, you must specify the "s2" as the entire disk.

## Chapter 3 Backup and Restore of System Disk (PRIMEPOWER800/900/1000/1500/2000/2 500)

This chapter explains the procedures to backup/restore the disk (hereafter called, the system disk) containing the Solaris OS software.

## 3.1 Types of Backup Procedures

Backup of the system disk requires that the disk and slices being backed up not be in use. The system disk contains file systems (such as the root (/) file system) that cannot be dismounted. In backing up the system disk, the special procedures are required.

The following are some of the typical ways to back up a Solaris OS system disk. Understanding them will help you choose the appropriate method to back up your system disk properly.

For detailed information about the backup procedures mentioned in b. and d., see " System Console Software User's Guide."

- To back up a file system unit, use the ufsdump(1M) command after booting in single-user mode.
   If you are restoring, use the ufsrestore(1M) command after booting from the Solaris OS CD/DVD to restore the file system unit.
  - The file system that will be backed up is only the ufs file system.
  - Disk partition information such as the size of each file system will not be backed up. You must record the information separately.
  - The ufsdump(1M) command backs up the file system divided into the file unit, so it is possible to restore to a disk having a different file system size. If a limited amount of space has been used in the file system, this may back up into a space smaller than the size of the file system itself. When backing up using the ufsdump(1M) command, it is possible to restore only the file that you select.
- b. To back up a file system unit, use the ufsdump(1M) command after booting from the Solaris OS CD/DVD.

If you are restoring, use the ufsrestore(1M) command after booting from the Solaris OS CD/DVD to restore the file system unit.

- The file system that will be backed up is only the ufs file system.
- Disk partition information such as the size of each file system will not be backed up. You must record the information separately.
- The ufsdump(1M) command backs up the file system divided into the file unit, so it is possible to restore to a disk having a different file system size. If limited amount of space has been used in the file system, this may back up into a space smaller than the size of the file system. In the backup using the ufsdump(1M) command, it is possible to restore only the file that you select.
- c. To back up a slice unit, use the dd(1M) command after booting from the Solaris OS CD/DVD.If you are restoring, use the dd(1M) command after booting from the Solaris OS CD/DVD to

restore the slice unit.

- If you back up slice 0, it will only be possible to restore to a disk having the same physical properties (such as disk space and a number of cylinders) as the original.
- Disk partition information such as the size of each slice will not be backed up. You must record the information separately.
- d. To back up the disk unit, use the dd(1M) command after booting from the Solaris OS CD/DVD. If you are restoring, use the dd(1M) command after booting from the Solaris OS CD/DVD to restore the disk unit.
  - The procedure divides the disk unit for back up, so it is only possible to restore to a disk having the same physical properties (such as disk space and a number of cylinders) as the original.

It is recommended that you select the SCSI device with target ID 1 for Solaris OS installation. Before selecting the disk to install Solaris OS, make sure it is connected to the SCSI adapter plugged into the PCI slot of PCI0B. In this case, the device name of the system disk will be "c0t1d0" (obtained from the controller number (0), target ID (1), and LUN number (0)). If you install Solaris OS to other than the disk having the device name "c0t1d0", (especially, a disk having the controller number other than 0) take care to carefully obtain the correct device name.

If applying the optional software that runs as part of the driver and file system from the system disk, carefully follow the instructions and notes described in the manual of each option. For example, if you configure disk mirroring using PRIMECLUSTER GDS, you must select the backup procedures described in a. above, because the PRIMECLUSTER GDS driver does not exist in the CD/DVD files. In addition, if the system disk contains a file system other than the ufs file system such as PRIMECLUSTER GFS, select the backup procedures using the backup command provided in the file system or the dd(1M) command.

## Chapter 4 Secondary LAN port on PRIMEPOWER250/450

This chapter describes how to use the secondary LAN (10/100/1000Mbps) port on PRIMEPOWER250/450.

## 4.1 Outline

The secondary LAN port on PRIMEPOWER250/450 is controlled by FUJITSU PCI Gigabit Ethernet Driver (Interface name is "fjgi") included in Solaris 10.

## 4.2 Notes

- When using 1000 Mbps communication, be sure to set Autonegation to 'on'.
- If using the PCI card (PW008GE4/PW008GE5/PW008QG1), please refer to the User's guide attached with the PCI card.

## 4.3 How to Set Configuration Information

This section describes required setting to use a fjgi interface.

## 4.3.1 Environment Setting

This section describes how to edit files required to build environment.

## 4.3.1.1 Determining the Client Name of Target Driver

1. To use the secondary LAN port as an IPv4 interface:

To allocate the IP address or hostname to the fjgi interface, edit /etc/hostname.fjgi\* (\* is an numerical value) file. About netmask value, please see "4.3.1.3 Defining Netmask Value".

Example /etc/hostname.fjgi\*:

Define the unique nostname.
giga-v4
or, define the IP address:

192.168.150.1

Note: If you defined the hostname in hostname.fjgi\* file, see the section "4.3.1.2 Defining Hostname " for detailed information.

2. To use the secondary LAN port as an IPv6 interface

To allocate the IP address and prefix to the fjgi interface, edit /etc/hostname6.fjgi\* (\* is an numerical value) file.

Example /etc/hostname6.fjgi\*:

Define the unique hostname (This sample named giga-v6):

addif giga-v6/120 up

Note: If you defined the hostname in hostname.fjgi\* file, see the section "4.3.1.2 Defining Hostname" for detailed information.

 To use the GigabitEthernet as an VLAN interface: See "4.3.2.6 Configuring VLAN interface", and after defining VLAN name, proceed with above 1 or 2 procedure.

## 4.3.1.2 Defining Hostname

1.

Defining an IP address with a unique hostname.

To use secondary LAN port as an IPv4 interface:

Edit IPv4 address and hostname into the /etc/hosts file.

Example	/etc/hosts file:	

• /

# IP Address	Hostname	
190.168.150.1	giga-v4	

2. To use secondary LAN port as an IPv6 interface:

Edit IPv6 address and hostname into the  $\ensuremath{\text{/etc/inet/ipnodes}}$  file.

Example /etc/inet/ipnodes file:

# IP Address Hostname
fe80::2e0:ff:fea6:2222 giga-v6

## 4.3.1.3 Defining Netmask Value

To use secondary LAN port as an IPv4 interface, define a netmask value with the IP address into /etc/netmasks file.

Example /etc/netmasks file:

# IP Address	netmask	
192.168.150.0	255.255.255.0	

## 4.3.2 Setting the Operation Mode

This section explains how to edit the file or implement a command to change the operation mode. When you use a secondary LAN port **without** the default method of automatic setup of speed/duplex/flowcontrol by autonegotiation, change the operation mode with the procedures described below:

## 4.3.2.1 fjgi.conf file

When not using the default operation mode described in 4.3.2, you should use the /platform/sun4us/kernel/drv/fjgi.conf file. The set-up procedure of this file is described below:

### 4.3.2.1.1 Parameters List

The following table shows the list of the parameters in which setting change is possible.

## Table 4.1 Parameters List

Parameter	Value	Description
name	fjgi	When using PRIMEPOWER250/450 secondary LAN port, please set name="fjgi".
	FJSV,pgtb	When using PCI card PW008GE5, please set name="FJSV,pgtb".
	FJSV,pgsb	When using PCI card PW008GE4, please set name="FJSV,pgsb".
parent	Please refer to "4.3.2.1.2 How to Set Parameter".	The location of the device node in a device tree is specified.
unit-address	Please refer to "4.3.2.1.2 How to Set Parameter".	The address within a device node is specified.
AutoNegotiation_A	On (Default)	AutoNegotiation is enabled. (In this setting, unable to connect to the remote device of a fixed mode.) When you use 1000Mbps, please use in Autonegotiation_A="On" (default) mode.
	Off	AutoNegotiation is disabled. (Fixed mode)
LinkSpeed_A	Auto (Default)	Connect in 1000/100/10Mbps by the connection partner.(This can be set when AutoNegotiation_A="On".)
	1000	Connect in 1000Mbps.
	100	Connect in 100Mbps.
	10	Connect in 10Mbps.
DuplexCapabilities_A	Both (Default)	Indicating that both Full-Duplex and Half-Duplex are being supported. (This can be set when AutoNegotiation_A="On".)
	Half	Half-Duplex operation is allowed.
	Full	Full-Duplex operation is allowed.
FlowControl_A	Auto (Default)	A flow control is performed according to a setup of partner equipment.
	Rem	Only the flow control from the remote machine is allowed. The flow control to the remote machine is not allowed.
	LocSend	Only the flow control from the main unit is allowed. The flow control from the remote machine is not allowed.
	None	Flow control is disabled.

Parameter	Value	Description
Role_A	Auto (Default)	Auto select Master or Slave by the partner. (This can be set when
		AutoNegotiation_A= On.)
	Master	Communicate by Master.
	Slave	Communicate by Slave.

### 4.3.2.1.2 How to Set Parameter

The method of setting up of each parameter of the secondary LAN port (FJSV,pwga) shown in Table 4.1 is explained. If using PCI card (PW008GE4/PW008GE5/PW008QG1), please refer to the User's guide attached with PCI card.

1. Search /etc/path\_to\_inst file for a fjgi interface.

2. The interface-related parameters should be written in the /platform/sun4us/kernel/drv/fjgi.conf file.

- Example: 1000Mbps Full-Duplex is set.	
<pre>name="fjgi" parent="/pci@83,4000" unit-address="1" AutoNegotiation_A="On" LinkSpeed="100" DuplexCapbilities_A="Full" FlowControl_A="None";</pre>	
name: In the above example, the driver name is "fjgi".	
parent: The left-hand portion of the pathname, containing the words '/FJSV,gwga@'	
/etc/path_to_inst, is to be added here.	
In this example, parent value is "/pci@83,4000".	
unit-address: Please refer to the /etc/path_to_inst, and write the number (right number of	

"/FJSV,pwga@..". In this example, unit-address value is "1".

3. After 2, the fjgi.conf setting is reflected by reboot.

# /usr/sbin/shutdow	<b>vn -i6 -y -g0</b> <return></return>	
---------------------	--	--

### 4.3.2.1.3 Caution

- Setting by fjgi.conf is necessary only when autonegation is not used for speed/duplex/flow or connecting partner cannot support autonegotiation.
- Since a setup the operation mode by the fjgi.conf file becomes effective per physical interface, when the VLAN interface is being used, a VLAN interface is also changed simultaneously.

## 4.3.2.2 Setting a JumboFrame

Use of JumboFrame makes it possible to expand the TCP/IP MTU size from 1500 to 9000. As the per-packet transmission size is expanded, the number of packets processed becomes fewer and thus the CPU load is reduced.

The procedure of setting JumboFrame is show below.

a. Add the following line to /etc/system file. set fjgi:fjgi\_jumbo=1

 Create /etc/fjmtu.fjgiX file and write a MTU-size between 1500 to 9000. And reboot, TCP/IP MTU-size will be set. If you don't create this file, TCP/IP MTU-size will be the default of 9000.

vi /etc/fjmtu.fjgiX

"X" is instance number. Instance number must be the same as /etc/hostname.fjgi\* file's \*.

Notes

- If you set a JumboFrame, it will be unable to transmit and receive the data of IEEE802.3 form.
- If you use two or more cards, or VLAN interfaces, enabling JumboFrame function becomes effective to all cards and all interfaces.
- When you perform file transfer by FTP, please set MTU size to less than 8232byte.
- Please use Jumbo Frames function only in 1000 Mbps communication. If you use Jumbo Frames in 10 Mbps or 100 Mbps, you won't be able to use the Jumbo Frame function.

## 4.3.2.3 To use ndd(1M) Utility

By using the ndd command, mode of operation can be changed dynamically.

Below shows how to reference and set each parameter by ndd command with examples.

Reference:

ndd -get /dev/f	jgi 'param'	(param:	each parameter)
example) # ndd	-get /dev	/fjgi 'li	.nk_status'

Settings:

ndd -set/dev/f value)	jgi 'par	am' value	(param: each paramet	cer, value: each
example1) # ndd example2) # ndd			'instance' 2 'adv_autoneg_cap'	0

To reflect the changed setting:

```
ndd -set /dev/fjgi 'instance'
                                value
(Set the relevant interface instance number.)
ndd -set /dev/fjgi 'adv_autoneg_cap'
                                        0
(Once, turn off the function of AutoNegotiation.)
ndd -set /dev/fjgi 'adv_autoneg_cap'
                                       1
(Then, turn on the function of AutoNegotiation.)
example) In case, to set the setting of fjgi0 1000Full => 100Half.
# ndd
        -set
               /dev/fjgi
                           'instance'
                                        0
# ndd
               /dev/fjgi
                           'adv_1000fdx_cap'
                                                0
        -set
 # ndd
        -set
               /dev/fjgi
                           'adv_1000hdx_cap'
                                                0
                                               0
# ndd
               /dev/fjgi
                           'adv_100fdx_cap'
        -set
 # ndd
        -set
               /dev/fjgi
                           'adv_autoneg_cap'
                                                0
 #
  ndd
         -set
               /dev/fjgi
                           'adv_autoneg_cap'
                                                1
```

A list of parameter can be used with ndd command.

Table 4.2 A list of parameters

Parameter	Status	Meaning
?	Read only	Display parameter list
link_status	Read only	0 : Link down
		1 : Link up
link_speed	Read only	1000 : 1000Mbps
		100 : 100Mbps
		10 : 10Mbps
link_mode	Read only	0 : Half Duplex communication
		1 : Full Duplex communication
autonego	Read only	0 : Autonegotiation is Off.
		1 : Auotnegotiation is On.

Parameter	Status	Meaning
flow_control	Read only	0 : None (Not doing flow_control)
		1 : LocSend (Can transmit pause
		frame only)
		2 : Rem (Can receive pause frame
		only)
		3 : Sym (Can receive and transmit
		pause frame)
cardtype	Read only	0 : SX(PW008GE4)
	·	1: T(PRIMEPOWER250/450
		secondary LAN port,
		PW008GE5/PW008QG1)
instance	Read and write	Instance Number
adv_10fdx_cap	Read and write	Setting of 10Mbps/FullDuplex
*		0 : Invalid
		1 : Valid (Default)
adv_10hdx_cap	Read and write	Setting of 10Mbp/HalfDuplex
1		0 : Invalid
		1 : Valid (Default)
adv_100fdx_cap	Read and write	Setting of 100Mbps/FullDuplex
h		0 : Invalid
		1 : Valid (Default)
adv_100hdx_cap	Read and write	Setting of 100Mbps/HalfDuplex
uuroonan_oup		0 : Invalid
		1 : Valid (Default)
adv_1000fdx_cap	Read and write	Setting of 1000Mbps/FullDuplex
udv_10001uh_cup	field and write	0 : Invalid
		1 : Valid (Default)
adv_1000hdx_cap	Read and write	Setting of 1000Mbps/HalfDuplex
auv_1000nux_cup	Read and write	0 : Invalid
		1 : Valid (Default)
adv_pauseTX	Read and write	Setting of transmit pause frame
auv_pause174	Read and write	0 : Invalid
		1 : Valid (Default)
adv_pauseRX	Read and write	Setting of receive pause frame
auv_pauseKA	Read and write	0 : Invalid
		1 : Valid (Default)
- d	Deed and and the	
adv_autoneg_cap	Read and write	Setting of AutoNegotiation
		0 : Invalid (Fixed mode)
1 1	<b>D</b> 1 1 1	1 : Valid (Default)
adv_role_cap	Read and write	Setting of Role (Only 1000Mbps)
		0 : Slave
		1 : Master $2 + 4 + 5 + 5 + 10$
1 100	~ • • •	2 : Auto (Default)
lp_10fdx_cap	Read only	Setting of link-partner
		10Mbps/FullDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
		1 : Valid

Parameter	Status	Meaning
lp_10hdx_cap	Read only	Setting of link-partner
		10Mbps/HalfDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_100fdx_cap	Read only	Setting of link-partner
	,	100Mbps/FullDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_100hdx_cap	Read only	Setting of link-partner
ip_roonux_cup	Read only	100Mbps/HalfDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
1 100001	D 1 1	1 : Valid
lp_1000fdx_cap	Read only	Setting of link-partner
		1000Mbps/FullDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_1000hdx_cap	Read only	Setting of link-partner
		1000Mbps/HalfDuplex, when link up
		with AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_pauseTX	Read only	Setting of link-partner transmit pause
		frame, when link up with
		AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_pauseRX	Read only	Setting of link-partner receive pause
1-1	•	frame, when link up with
		AutoNegotiation.
		0 : Invalid
		1 : Valid
lp_autoneg_cap	Read only	Setting of link-partner
ip_autoneg_cap	Read only	AutoNegotiation, when link up with
		AutoNegotiation.
		0 : Invalid
		1 : Valid
role_cap	Read only	The present Role setting, when
		1000Mbps.
		0 : Slave
		1 : Master
jumbo	Read only	0 : JumboFrame function is not used.
		1 : JumboFrame function is used.

Notes

- Because of the specification of ndd utility, if two or more processes execute ndd command for a fjgi interface at the same time, the value will be invalid.

- If you execute ndd command repeatedly, fjgi interface performance may drop.
- The values of link\_speed, link\_mode, autonego, flow\_control are effective, only when link\_status = 1. If link\_status = 0, these values are invalid.
- The values of lp\_10fdx\_cap, lp\_10hdx\_cap, lp\_100fdx\_cap, lp\_100hdx\_cap, lp\_1000hdx\_cap, lp\_1000hdx\_cap, lp\_1000hdx\_cap, lp\_pauseTX, lp\_pauseRX, lp\_autoneg\_cap are effective, only when communication is done without Autonegation or Autonegation has not been established.
- The values set by ndd command are invalid after reboot.
- Since a setup of the operation mode by the ndd command becomes effective per physical interface, when IPv4/IPv6 interface, SNA/FNA interface or the VLAN interface is being used, those are also changed simultaneously.

## 4.3.2.4 Changing the setting of FCode

This section explains how to change the communication mode settings of FCode with examples. If using PCI card (PW008GE4/PW008GE5/PW008QG1), please refer to the User's guide attached with PCI card.

It is needed when don't use autonegotiation for speed/duplex/flowcontrol or connecting partner cannot support autonegotiation.

### [FCode Force mode (Speed Fixed and disable autonegotiation) setting method]

Search for the device path of 'FJSV' or 'pwga' in the OK prompt screen.

### Example

```
ok show-nets <Return>
a) /pci@83,2000/FJSV,pwga@1
b) /pci@1f,4000/network@1,1
q) NO SELECTION
Enter Selection, q to quit:
```

In this example, a) is the device path of the pwga (secondary LAN port)

With the following command, the device is specified.

```
ok cd /pci@83,2000/FJSV,pwga@1 <Return>
```

Implement the following commands, it will change from AutoNegotiation mode to Force mode. This setting is invalid during OBP (Open Boot Prom). PW008GE4 (1000BASE-SX) can use only 3) speed setting commands.

#### 1) Role setting commands

slave-mode (slave)

2) Half Duplex setting commands

	half-duplex	(Half Duplex)		
--	-------------	---------------	--	--

3) Speed setting commands

transfer-speed=100	(Force	Speed:	100Mbps)
transfer-speed=10	(Force	Speed:	10Mbps)

With the following command, the device setting information is displayed.

```
ok .prp <Return>
```

#### **Example: PRIMEPOWER 450**

```
ok cd /pci@83,2000/FJSV,pwga@1 <Return>
ok .prp <Return>
   role
                                   *1
                        slave
   duplex
                        half
                                   *2
                                  *3
    transfer-speed
                       0000000a
                        Cabinet#0
    cabinet-name
                        Motherboard#1
    board-name
    assigned-addresses 83002810 0000000 00100000 00000000 00010000
                        82002830 0000000 00110000 0000000 00010000
```

\*1: Appears only when slave-mode is set.

\*2: Appears only when half-duplex is set.

\*3: Appears only when transfer-speed is set. [10Mbps:0xa, 100Mbps:0x64] In the default, those \*1,\*2 and \*3 are not appeared.

### FCode Change back to default setting (AutoNegotiation mode) method

To return to the default setting after setting Fcode Force mode, do as follows:

On ok prompt screen, implement below command or power-off the system and power-on again. (Implement only reset command cannot back to default setting.)

ok **reset-all** <Return>

## 4.3.2.5 Network Install

The procedure which uses fjgi interface to install the Solaris OS via a network from an installation server is explained below.

- 1. Setup the install server and the clients to install the Solaris OS.
- About setup of install server and clients, refer to "Solaris 10 Installation Guide."
- 2. In an installation server, execute the command shown below and check the root directory of a client system. The root directory of a client system is described by the /etc/bootparams file of an installation server.

# grep CLIENT\_NAME /etc/bootparams <Return>

#### Example

```
# grep CLIENT_NAME /etc/bootparams
CLIENT_NAME root=SERVER_NAME:/netinstall/Solaris_10/Tools/Boot
install=
```

In the example, the root directory of this client is set to /netinstall.

CLIENT\_NAME is the name of client system.

SERVER\_NAME is the name of install server.

### Information

When the root directory name is not described by the /etc/bootparams file, please refer to "Solaris 10 Installation Guide."

3. Check the ok prompt of OpenBootPROM is displayed on the client system.

If OS is booted, please stop a system by the shutdown(1M) command as follows.

```
# /usr/sbin/shutdown -i0 -g0 -y <Return>
```

### Example

```
(shutdown messages are displayed)
```

. . . . . . .

ok

4. Search the device path to the secondary LAN port with a show-nets command from ok prompt of a client system.

```
ok show-nets <Return>
```

### Example

```
ok show-nets
   a) /pci@83,2000/FJSV,pwga@1
   b) /pci@1f,4000/FJSV,pgsb@4
   q) NO SELECTION
   Enter Selection, q to quit:
```

- 5. From ok prompt of a client system, please start a client system using the secondary LAN port. ok boot /pci@83,2000/FJSV,pwga@1 <Return>
- 6. Install the Solaris

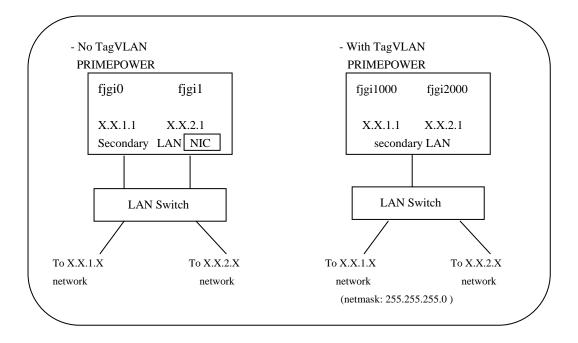
## 4.3.2.6 Configuring VLAN interface

### 4.3.2.6.1 IEEE 802.1Q TagVLAN

The outline about a VLAN interface and directions required in order to setup VLAN interface are explained.

### About IEEE802.1Q TagVLAN

By using VLAN, traffic management of two or more networks by a single physical interface becomes possible. In order to create a VLAN environment, which resembles Figure 4.1 Example of VLAN environment, a VLAN setup (VLAN ID and Tagged/Untagged) of a switch is required.



#### Figure 4.1 Example of VLAN environment

By using VLAN, traffic management of two or more networks by the single physical interface can be done. In order to create Figure 4.1 Example of VLAN environment, it is needed a VLAN setup (VLAN ID and Tagged/Untagged) of a switch.

The vlan numbers fjgi interface can offer:

VLAN ID	1 – 4094 (are available)
Max number of VLAN interfaces	1024 (can be created)

### 4.3.2.6.2 How to create the VLAN interface

-To create the VLAN interface.

By setting the interface number to more than 1000, it becomes possible to distinguish VLAN interface from physical interface.

How to set:

- In case to create the "VLAN ID = 1" VLAN interface from instance = 0 physical interface. Please refer to "4.3.1 Environment Setting ", and create the interface named as figi1000.
- In case to create the "VLAN ID = 231" VLAN interface from instance = 3 physical interface. Please refer to "4.3.1 Environment Setting", and create the interface named as **fjgi231003**.

```
Low 3 digits of VLAN interface number : physical instance number
Upper digits except low 3 digits of VLAN interface number: VLAN ID(1 - 4094).
```

VLAN interface number = VLAN ID \* 1000 + physical instance number

Note:

- When connecting with a LAN switch, Tag VLAN needs to be set to a LAN switch. (Please refer to a LAN switch specification which supported Tag VLAN.)
- Please use a VLAN interface only with TCP/IP protocol. Please do not use it with SNA/FNA and OSI

protocol.

- Since PRIMECLUSTER GLS 4.1A20 or previous version do not correspond to a VLAN interface, please do not use VLAN interface with those. PRIMECLUSTER GLS 4.1A30 or later (only Fast switching mode or NIC switching mode) can use VLAN interface.
- VLAN function can be used only in Solaris 8, Solaris 9 or Solaris 10.
- In the environment where PRIMECLUSTER has been installed, in case you use a VLAN interface, please check that the "SMAWdtcp" package has not been installed. When installed, please remove that package or do not use a VLAN interface.
- A VLAN interface uses about 700Kbyte at MTU size 1514byte or 900Kbyte at MTU size 9014byte of memory (at the time of no communicating). Therefore, when creating two or more VLAN interfaces and performing communication, a slowdown may occur due to the shortage of resources depending on the system configuration.

## 4.4 Messages

Messages by fjgi driver are listed in the following table.

ise	Workaround
pened.	When Link down not intended is generated, abnormality of the transmission line is thought. Please confirm the specification of the cable and the switch.
and receiving by and receiving by and receiving by iation itation ind receiving by nd receiving by Flowcontrol each pt Flowcontol only the other. nly own ntrol	There is no problem.
nly ntro	the other.

Table 4.3 Console Messages of the fjgi driver

Message	Cause	Workaround
	-role	
	master: Communicate as Master.	
	slave: Communicate as Slave.	
Illegal value for	Error found in the parameter of	Check whether the definition file is
[ParameterName].	definition file (fjgi.conf).	correct.
fail to FragCount	Abnormalities were found in message	
	fragmentation.	Please try re-activation of interface. If
Multiple fragments in	Abnormalities were found in message	this is not a cause, report that to your
descriptor area	fragmentation.	authorized dealer.
bind to 802.2 failed	Using protocol was different.	
pci_config_setup_failed	PCI configuration space couldn't be	Installed physical memory may be
1 _ 0_ 1_	obtained.	insufficient or hardware is failed. If
		memory insufficient is not a cause,
		report that to your authorized dealer.
soft state alloc failed.	Driver internal resources cannot be	Installed physical memory may be
	obtained.	insufficient. If this is not a cause,
Allocation of descriptor	Driver internal resources on DMA	report them to your authorized dealer.
memory failed	couldn't be allocated.	
fail to	DMA resources couldn't be allocated.	-
ddi_dma_bind_handle	Divita resources couldn't be anocated.	
Could not allocate DMA	DMA resources couldn't be allocated.	-
handle	DiviA resources couldn't be anocated.	
	-	
Could not bind descriptor		
fjgiallocthings failed !!	DMA resources couldn't be allocated.	-
Unable to map adapter		-
registers.	Mapping of register went wrong.	
-	Interrupt resources couldn't be	-
ddi_get_iblock_cookie-E RROR	Interrupt resources couldn't be allocated.	
-		-
Unable to install interrupt	Unable to install interrupt routine.	
routine.	Interrupt resources couldn't be	
ddi create minor node	allocated. Creation of a device file went wrong.	1
failed	Creation of a device the went wrong.	
	Driver resources couldn't be allocated.	-
ATTACH failed OPEN failed: ENOMEM	Driver resources couldn't be anocated.	
	Driver resources couldn't be freed.	-
CLOSE: stream==NULL		-
fjgi_param_register error	The ndd parameter couldn't be	
fini hand ll	allocated.	4
fjgi_board_alloc_mem	Driver resources couldn't be allocated.	
failed !!		4
Error filling TX ring	Transmit resources couldn't be	
	allocated.	4
status block can't alloced !!	Status information resources couldn't	
	be allocated.	4
status block can't alloced	Status information resources couldn't	
handle!	be allocated.	-
status block can't bind	Status information resources couldn't	
handle!	be allocated.	

Message	Cause	Workaround
fjgi_board_init_mem:	DMA resources cannot be allocated.	
Failed to dma_alloc !!		-
statistick block can't		
alloced!!		
hwmib block can't alloced	Statistic information resources	
handle!	couldn't be allocated.	
hwmib block can't bind		
handle!		-
fjgi_board_init_mem:	DMA resources cannot be allocated.	
Failed to dma alloc2!!		
Illegal value for	The value of LinkSpeed_A of a	Please set a right value of
LinkSpeed_A	setting file was wrong.	LinkSpeed_A.
fjgi_hw_init:Step 22		
failed !!		
fjgi_hw_init:Step 23	The error occurred in initialization.	Hardware failure was occurred. Please
failed !!		report to your authorized dealer.
fjgi_hw_init:Step 43		
failed !!		
Illegal combination of	Auto speed couldn't be set in fixed	Please set value except Auto in
values AutoNeg and Speed	mode.	LinkSpeed_A.
Except for the above	There is the possibility that is Driver	Report that to your authorized dealer.
	internal bug or Hardware failer.	

\*1: This appears only when 1000Mbps is used.

### Table 4.4 Machine management report messages

Message	Meaning	Workaround
fjgi_device_check:	The error occurred in initialization of	There is the possibility of hard
fjgi_hw_deinit failed !	an adapter.	abnormalities. Report them to your
fjgi_device_check:		authorized dealer.
fjgi_hw_init failed !		
pci_config_setup_failed	Acquisition of PCI configuration	There is the possibility of the shortage
	space went wrong.	of resources or hard abnormalities.
		Please check the empty space of a
		memory. Report them to your
		authorized dealer.

## 4.5 Using GigabitEthernet on a Cluster System

## 4.5.1 Support for Cluster System

The contents of support at the time of using by the cluster system, the environmental setting method, etc. are explained.

GigabitEthernet has the following functions on the cluster system:

• Operation standby mode

- 1:n operation standby mode
- Mutual standby mode

\_\_\_\_

- TCP/IP communication
- Using to the cluster interconnect (PRIMECLUSTER). (But, using in a JumboFrame or as VLAN interface can not be performed)

The support ranges of takeover form are the following ranges.

A. PRIMECLUSTER	
Taking over form	Support
IP	Support
MAC	Not Supported
	(Supported V4.1A10 or later)
IP+ MAC	Not Supported
	(Supported V4.1A10 or later)

### Caution

Using over operation management LAN (LAN used for cluster operation management view) cannot be supported.

## 4.5.2 Cluster Environment Setup Procedure

Set up the cluster environment in the same way as for the other LAN driver, follow "Setting up the Network" in the "PRIMECLUSTER manual". Note that the secondary LAN port (fjgi interface) resource name is "fjgi".

## 4.5.3 Notes in Cluster Environment

Please use "PRIMECLUSTER 4.1 or later" for a cluster system to use fjgi interface. If an earlier version of cluster system is used, fjgi interface cannot be used for private LAN nor for IP address fail-over on public LAN.

When using fjgi interface as the cluster interconnect, please perform the following command before initial composition setup.

# ifconfig fjgi* plumb <return></return>
* is instance-number
Then, please execute the following command and check that a MTU size of fjgi interface is not 9000byte
(JumboFrame is not set up).
<pre># ifconfig fjgi* <return></return></pre>
* is instance-number

GigabitEthernet in a JumboFrame function cannot be used to the cluster interconnect.

GigabitEthernet as VLAN interface cannot be used to the cluster interconnect.

## **Chapter 5 Precautions**

This chapter explains necessary precautions.

## 5.1 Limitations and known bugs for Solaris

This chapter explains limitations and known bugs for Solaris.

### Table 5.1 Limitations and known bugs for Solaris

No	Limitations and known bugs	Remarks
	Recommended actions	
1	<ul> <li>The following patches are required to be installed in the following order after installation of Solaris 10. In particular 119254-06 must be installed before 119254-19 or later or equivalent. If the installation order is not followed problems may occur.</li> <li>E.g. non-global zone cannot be installed, optional packages and patches cannot be installed correctly. <ol> <li>120719-01 or later SunOS 5.10: gzip patch</li> <li>121296-01 or later SunOS 5.10: fgrep Patch</li> <li>118815-03 or later SunOS 5.10: libzonecfg Patch</li> <li>121133-02 or later SunOS 5.10: zones library and zones utility patch</li> <li>119254-06 SunOS 5.10: Install and Patch Utilities Patch</li> <li>119317-01 or later: SunOS 5.10: SVr4 Packaging Commands (usr) Patch</li> <li>119042-02 or later: SunOS 5.10: patch usr/sbin/svccfg</li> </ol> </li> </ul>	Solaris 10 3/05 and Solaris 10 1/06 only
	<ul> <li>Install these patches as soon as possible after installation of Solaris 10. Also make sure of the following notes when applying/removing any patches.</li> <li>Read README files of the patches before applying them.</li> <li>Remove patches in the global zone and not in the non-global zone if needing to remove patches from the system.</li> </ul>	
2	<ul> <li>The following patch is required to use the NFS version 4.</li> <li>NFS version 4 has limitations.</li> <li>119828-04 or later SunOS 5.10: nfssrv Patch</li> </ul>	Solaris 10 3/05 only
3	Install the above patches.         For Dynamic Reconfiguration (DR) and PCI Hot Plug, the following patches are required to be installed.         119254-06 or later       SunOS 5.10: Install and Patch Utilities Patch         118822-08 or later       SunOS 5.10: kernel Patch         913732-01 or later       Enhanced Support Facility 2.5: Dynamic configuration core command patch         Install the above patches.	Solaris 10 3/05 only
4	For CPC (CPU Performance Counter) (cpustat(1M), cputrack(1M), libcpc(3LIB)), the following patches are required to be installed. 119254-06 or later SunOS 5.10: Install and Patch Utilities Patch 118822-08 or later SunOS 5.10: kernel Patch Install the above patches.	Solaris 10 3/05 only

Recommended actions For growfs(1M), the following patch is required to be installed.	Solaris 10
	Solaris 10
	Soluilo 10
120254-02 or later SunOS 5.10: ufs Patch	3/05 and
Install the above patches.	1/06 only
When using any of the following PGX cards and monitors, the display monitor does not	Solaris 10
enter standby mode if you haven't logged on from CDE (Common Desktop	3/05 only
Environment).	
• PGX frame buffer (X3660A)	
• PGX64 frame buffer (X3768A/A-A)	
• Second monitor (X7128A/AA/AJ, X7128B)	
are required to be installed.	
119254-06 or later SunOS 5.10: Install and Patch Utilities Patch	
119309-03 or later SunOS 5.10: PGX32 Graphics	
The above removes the PGX frame buffer and monitor limitation. When using the PGX,	
PGX64 frame buffer and a second monitor, ensure you turn off the power to the display	
monitor when the monitor is not in use.	
Some optional drivers are not yet supported with Solaris 10.	
Contact your support engineer for details.	
/etc/resolv.conf file might not be created when you select "DNS" name service during	Solaris 10
OS installation.	3/05 only
Install the following patch.	
• 119252-02 or later SunOS 5.10: System Administration Applications Patch	
svccfg(1M) might be terminated when editprop subcommand is used.	
# svccfg	
svc:> select /network/inetd	
svc:/network/inetd> editprop	
:q	
svccfg: unrecognized character "	
Use setprop subcommand of svccfg(1M) instead of editprop to modify properties of	
service.	
For Kernel debugger (kmdb(1), mdb(1) -K) on SPARC64 GP, the following patches are	Solaris 10
	3/05 only
-	
ERROR: cannot use the system configuration	
EXECUTE call of the second control and the systems as computed	1
ERROR: please review all file system configuration options	
	Environment). PGX frame buffer (X3660A) PGX64 frame buffer (X3660A) Environment). PGX64 frame buffer (X3668A/A-A) Second monitor (X7128A/AA/AJ, X7128B) To use PGX32 frame buffer (X3668A/A-A, X3668B/B-A/B-B), the following patches are required to be installed. PGX64 frame buffer and success and monitor limitation. When using the PGX, PGX64 frame buffer and a second monitor, ensure you turn off the power to the display monitor when the monitor is not in use. Some optional drivers are not yet supported with Solaris 10. Contact your support engineer for details. /etc/resolv.conf file might not be created when you select "DNS" name service during OS installation. Install the following patch. 119252-02 or later SunOS 5.10: System Administration Applications Patch svecfg(1M) might be terminated when editprop subcommand is used. # svecfg svc:>select /network/inetd svccfg(: unrecognized character " Use setprop subcommand of svccfg(1M) instead of editprop to modify properties of service. For Kernel debugger (kmdb(1), mdb(1) -K) on SPARC64 GP, the following patches are required to be installed. 118822-23 or later SunOS 5.10: kernel Patch Install the above patch. Solaris Live Upgrade using lu(1M) and lucreate(1M) might fail with the following error when creating a mirror disk. # lucreate -m //dev/md/dsk/d10:ufs,mirror -m \ //dev/dsk/c1t2d0s0,d11:attach -m//dev/dsk/c1t3d0s0,d12:attach -n newBE Discovering logical storage devices Cross referencing storage de

No	Limitations and known bugs	Remarks
	Recommended actions	
	Solaris Live Upgrade is not supported with RAID-1(mirror)	
12	Custom Jumpstart installation for mirror volumes using a profile that has filesys keyword	
	of both original and target disk, will fail and the following error message will be shown	
	at first boot after the installation.	
	metattach: host-name: dx: can't attach labeled submirror to an unlabeled mirror	
	Create a one-way mirror in the profile file. Define a primary submirror Disk as filesys	
	keyword. Then attach additional submirrors with the finish script to create a two-way	
	mirror.	
	• Do not include cylinder 0 of the disks in meta devices.	
	• The disks which constitute a two-way mirror should have the same specification	
	and configuration. Examples of a profile file and a finish script are shown as	
	follows:	
	1) profile file	
	# profile keywords profile values	
	#	
	filesys c0t1d0s4 0:1 unnamed	
	filesys mirror:d100 c0t1d0s0 200 /	
	metadb c0t1d0s3 size 8192 count 2	
	2) finish script	
	#!/bin/sh	
	:	
	prtvtoc /dev/rdsk/c0t1d0s2 > /a/c0t1d0.vtoc	
	fmthard -s /a/c0t1d0.vtoc /dev/rdsk/c0t0d0s2 metadb -a -c 2 c0t0d0s3	
	metanit d102 1 1 c0t0d0s0	
	metatinit d102 1 1 cotodoso metattach d100 d102	
13	in.routed might generate a core dump under the following conditions.	
15	<ol> <li>No entry of localhost name in /etc/hosts and</li> </ol>	
	<ul> <li>2) No /etc/defaultrouter file and</li> </ul>	
	3) Reboot system	
	Install the following patch.	
	<ul> <li>119712-03 or later SunOS 5.10: usr/sbin/in.routed Patch</li> </ul>	
14	Package remove using pkgrm(1M) might fail if the package provides SMF services and	
	the package has been removed and installed repeatedly.	
	## Removing pathnames in class <manifest></manifest>	
	svc:/system/fjsvmadm-evhandsd:default remains enabled; aborting	
	pkgrm: ERROR: class action script did not complete successfully	

No	Limitations and known bugs	Remarks
	Recommended actions	
	Follow these instructions to remove a package. (For example SUNWabc)	
	1) Re-install the package to system.	
	# pkgadd SUNWabc	
	2) Find out path name of SMF service manifest in the package.	
	<pre># grep SUNWabc /var/sadm/install/contents   \ grep /var/svc/manifest   awk '{ print \$1 }'   grep xml /var/svc/manifest/system/abc.xml</pre>	
	3) Run the following command.	
	# svccfg -s smf/manifest delpg {\$prp_mfst}	
	<pre>\$prp_mfst strings must be specified by removing first "/" srting of the manifest path</pre>	
	name with all "/" and "." replaced by "_". Here is an example for	
	/var/svc/manifest/system/abc.xml at step 2).	
	<ul><li>4) Remove package.</li><li># pkgrm SUNWabc</li></ul>	
15	"netstat -i" results maybe corrupted when the network interface on the system is	Solaris 10
15	unplumb/plumb by ifconfig(1M), if the system has multiple physical network interfaces.	3/05 only
	This problem is solved by the following patch.	5/05 0my
16	119990-01 or later SunOS 5.10: netstat patch	C = 1 =
10	Network instance number on Quad Fast Ethernet and Dual Gigabit Ethernet Card might	Solaris 10
	be assigned randomly to physical network interfaces when the card is installed after OS installation.	3/05 only
	# grep fjqe /etc/path_to_inst	
	"/pci@81,4000/pci@2/FJSV,pl4b@4" 0 "fjqe"	
	"/pci@81,4000/pci@2/FJSV,pl4b@5" 3 "fjqe"	
	"/pci@81,4000/pci@2/FJSV,pl4b@6" 5 "fjqe"	
	"/pci@81,4000/pci@2/FJSV,pl4b@7" 7 "fjqe"	
	"/pci@85,4000/pci@2/ethernet@4" 1 "fjqe"	
	"/pci@85,4000/pci@2/ethernet@5" 2 "fjqe"	
	"/pci@85,4000/pci@2/ethernet@6" 4 "fjqe"	
	"/pci@85,4000/pci@2/ethernet@7" 6 "fjqe"	
	Install the following patch before installation of Quad Ethernet Cards or Quad	-
	GigabitEthernet Cards.	
	118822-23 or later SunOS 5.10: kernel Patch	
17	mpstat(1M) takes an extra interval time at the ending of the command when the	Solaris 10
	command is executed with interval and count.	3/05 only
	This problem is solved by the following patch.	1
	118373-01 or later SunOS 5.10: mpstat Patch	
8	pkgadd(1M) -R command might fail when target directory is on a remote NFS server.	Solaris 10
	This problem is solved by the following patch.	3/05 only
	119254-06 or later SunOS 5.10: Install and Patch Utilities Patch	
19	The following message might be displayed if during optional driver package installation	
	the PCI Card is not installed.	
	chgrp: //dev/{driver_name}: No such file or directory	
	There is no impact on the system. The driver and required PCI Card work after a system	
	reboot.	

No	Limitations and known bugs	Remarks
	Recommended actions	
20	"Internet (IP) Address" in "Workstation information" of CDE environment is shown	Solaris 10
	with a IPv6 unicast address as "::FFFF:***.***.***.***".	3/05 only
	This problem is solved by the following patch.	
	119284-01 or later CDE 1.6: sdtwsinfo patch	
21	During system shutdown, some messages similar to the following might be displayed on	
	the console.	
	syslogd: /var/opt/FJSVmadm/evh/evh_pipe: Broken pipe	
	NFS fsinfo failed for server xxxx: error 5 (RPC: Timed out)	
	Ignore the message. It has no impact on the system.	
22	ifconfig(1M) displays "Need net number for mask" when the command is executed with	
	plumb and up option at the same time.	
	# ifconfig hme0 plumb host netmask + broadcast + up	
	Need net number for mask	
	Setting netmask of hme0 to 255.255.255.0	
	Ignore the "Need net number for mask" message. The message will not be displayed	
	when plumb and up option are specified separately.	
	# ifconfig hme0 plumb	
	<pre># ifconfig hme0 host netmask + broadcast + up</pre>	
	Setting netmask of hme0 to 255.255.255.0	
23	Solaris Management Console(SMC) 2.1, User Performance ("System Status"->	
	"Performance" -> "System" -> "Users") does not show any information and the	
	following error messages displays on the console.	
	CIM_ERR_FAILED:	
	java.lang.UnsupportedClassVersionError:	
	com/sun/wbem/solarisprovider/srm/Solaris_ActiveUser (Unsupported major.minor	
	version 49.0)	
	Use ps(1), prstat(1M) and pgrep(1) to check and report active process statistics instead of	
	the SMC feature.	
24	The following message might be shown during Solaris 10 installation.	
	application/font/fc-cache:default failed (see 'svcs -x' for details)	
	Ignore the message. It has no impact on the system.	
25	The following message might be shown during Solaris 10 installation.	
	/usr/sbin/pmconfig: cannot open "/dev/pm": No such file or directory	
	Ignore the message. It has no impact on the system.	
26	After Solaris 10 installation is finished, the following messages might be shown at first	
	boot.	
	java[16552]: [ID 874347 user.error] libpkcs11: open /var/run/kcfd_door: No such	
	file or directory	
	java[16552]: [ID 523743 user.error] libpkcs11:	
	/usr/lib/security/pkcs11_softtoken.so unexpected failure in ELF signature	
	verification. System may have been tampered with. Cannot continue parsing	
	/etc/crypto/pkcs11.conf	
	Ignore these messages. They have no impact on the system.	

No	Limitations and known bugs	Remarks
	Recommended actions	
27	There are some differences in behavior of MIB between SNMP agents of SMA and	
	SEA.	
	• sysObjectID (MIB to show system device type)	
	SEA shows the value as "enterprises.42.2.1.1", however, SMA shows the value as	
	"netSnmpAgentOIDs.3".	
	• snmpEnableAuthenTraps (MIB to show permission of trap of authorization	
	failure)	
	SEA shows the value as "enabled(1)", however, SMA shows the value as	
	"disabled(2)".	
	• ifSpeed (MIB for supported bandwidth speed of the network interface)	
	The results may be different between SEA and SMA.	
	• ifType	
	The results may be different between SEA and SMA.	
	Use SEA instead of SMA. The following disables SMA and enables only SEA.	
	1) Stop SMA and rename rc startup script of SMA.	
	#/etc/init.d/init.sma stop	
	# mv /etc/rc3.d/S82initsma /etc/rc3.d/_S82initsma	
	2) Rename /etc/rc3.d/S75seaport	
	# mv /etc/rc3.d/S75seaport /etc/rc3.d/_S75seaport	
	3) Set port number from 16161 to 161 for SEA in /etc/snmp/conf/snmpdx.reg	
	4) Create configuration files for SEA	
	# cp /etc/snmp/conf/mibiisa.rsrc- /etc/snmp/conf/mibiisa.rsrc	
	# cp /etc/snmp/conf/snmpdx.acl /etc/snmp/conf/mibiisa.acl	
	5) Restart SEA	
	# /etc/init.d/init.snmpdx stop	
	# /etc/init.d/init.snmpdx start	
28	The following error messages might be logged in SMF service log file.	
	ERROR: Restarter: Ignoring REMOVE_INSTANCE command for unknown	
	service svc:/TEMP/{FMRI}.	
	Ignore these messages. They have no impact on the system.	-
29	Packages that contain SMF service can not be removed using pkgrm(1M)	
	-R option from the other boot system, and the following messages are displayed during	
	the next system boot.	
	SunOS Release 5.10 Version Generic 64-bit	
	Copyright 1983-2005 Sun Microsystems, Inc. All rights reserved.	
	Use is subject to license terms.	
	Hostname: host-name	
	Starting SCF daemon.	
	svc.startd[7]: svc:/system/fjsvabc:default: Method "/lib/svc/method/fjsvabc" failed	
	with exit status 1.	
	svc.startd[7]: svc:/system/fjsvabc:default: Method "/lib/svc/method/fjsvabc" failed	
	with exit status 1.	
	svc.startd[7]: svc:/system/fjsvabc:default: Method "/lib/svc/method/fjsvabc" failed	
	with exit status 1.	
	[ system/fjsvabc:default failed (see 'svcs -x' for details) ]	_
	-R option for pkgrm (1M) has a limitation for packages that include SMF service.	
	Remove the package on the local file system after booting the remote image.	

No	Limitations and known bugs	Remarks
	Recommended actions	
30	A /noautoshutdown file might be created at first boot after Solaris 10 installation. If	
	/noautoshutdown file exists power management and power saving could be disabled.	
	Check for and remove /noautoshutdown file if you need to enable power management	
	and power saving features.	
31	Patch installation may fail with the following error message when the patch binary is	Solaris 10
	located in /(root) directory.	3/05 only
	# patchadd xxxxxx-xx	
	Assertion failed: *a_gzPath != '\0', file zones.c, line 2113	-
	This problem is solved by the following patch.	
	119254-06 or later SunOS 5.10: Install and Patch Utilities Patch	
32	Installation of non-global zone will fail if the patches that have .us and .u instances,	Solaris 10
	including the following patches, are installed in the system.	3/05 only
	118822-02 SunOS 5.10: Kernel Patch	
	119309-03 SunOS 5.10: PGX32 Graphics	
	118708-03 SunOS 5.10: Sun XVR-1200 and Sun XVR-600 Graphics Accelerator	
	Patch	
	118708-04 SunOS 5.10: Sun XVR-1200 and Sun XVR-600 Graphics Accelerator	
	Patch	
	If this problem occurs, the following errors show up when installing non-global zones	
	and the operation fails.	
	# zoneadm -z zone01 install	
	Preparing to install zone <zone01>.</zone01>	
	Creating list of files to copy from the global zone.	
	Copying <129399> files to the zone.	
	Initializing zone product registry.	
	Determining zone package initialization order.	
	Preparing to initialize <1119> packages on the zone.	
	Initialized <1119> packages on zone.	
	Zone <zone01> is initialized.</zone01>	
	Installation of these packages generated errors: <sunwcakr></sunwcakr>	
	Immediately install the following patch as soon as Solaris 10 is installed.	
	119254-06 or later SunOS 5.10: Install and Patch Utilities Patch	
	If you have already installed 118822-02, 119309-03, 118708-03, 118708-04 without	
	119254-06, follow the below procedure to recover the system.	
	1) Install 119254-06 (or later).	
	2) Install 118822-08 (or later) and 118708-06 (or later).	
	3) If 119309-03 has been installed, remove 119309-03 and re-install 119309-03.	
	4) Reboot system.	
33	During system booting, port monitor (like ttymon) log files are deleted and the following	Solaris 10
	error message is displayed. Moreover, once this error message is output, no further log is	3/05 only
	saved.	
	ttymon cannot create log file "/var/saf/zsmon/log": No such file or directory	
	This problem is solved by the following patch.	
	118868-01 or later SunOS 5.10: ttymon patch	

Recommended actions         On PRIMEPOWER 200 (360MHz or higher) / 400(360MHz or higher)/600/650(except         SPARC64 V)/800/850(except SPARC64 V)/1000/1500(except SPARC64 V)/2000, both         syslog message and FMA message are displayed when a Memory 1 bit error(CE) occurs.         e.g.)         FJSV,SPARC64-IV: [ID 635115 kern.notice] Softerrors:         FJSV,SPARC64-IV: [ID 663638 kern.notice] Softerrors:         FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected         Softerrors         FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd =         ox13, addr = 0x75268280).         FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error         FJSV,SPARC64-IV: [ID 805745 kern.notice] Corrected SIMM C0S00-SLOT#B00         FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00         FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)         unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page         Ox00000000.75268000 fmd: [ID 441519 daemon.error]         SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor         EVENT-TIME: Mon Feb 21 21:26:51 JST 2005	
<ul> <li>SPARC64 V)/800/850(except SPARC64 V)/1000/1500(except SPARC64 V)/2000, both syslog message and FMA message are displayed when a Memory 1 bit error(CE) occurs.</li> <li>e.g.)</li> <li>FJSV,SPARC64-IV: [ID 635115 kern.notice] Softerrors:</li> <li>FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135) unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page 0x0000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>syslog message and FMA message are displayed when a Memory 1 bit error(CE) occurs.</li> <li>e.g.)</li> <li>FJSV,SPARC64-IV: [ID 635115 kern.notice] Softerrors:</li> <li>FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Detected by Module ID = 0x87 (135) unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page 0x0000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>e.g.)</li> <li>FJSV,SPARC64-IV: [ID 635115 kern.notice] Softerrors:</li> <li>FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x0000000.75268000 fmd: [ID 441519 daemon.error]</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 635115 kern.notice] Softerrors:</li> <li>FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135) unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page 0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 663638 kern.notice] Seen 0 Intermittent and 1 Corrected Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135) unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x0000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>Softerrors</li> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x0000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 909492 kern.notice] from SIMM C0S00-SLOT#B00 (synd = 0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>0x13, addr = 0x75268280).</li> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 805745 kern.notice] Softerror: Persistent ECC Memory Error</li> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 306888 kern.notice] Corrected SIMM C0S00-SLOT#B00</li> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
<ul> <li>FJSV,SPARC64-IV: [ID 518845 kern.notice] Detected by Module ID = 0x87 (135)</li> <li>unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page</li> <li>0x00000000.75268000 fmd: [ID 441519 daemon.error]</li> <li>SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor</li> <li>EVENT-TIME: Mon Feb 21 21:26:51 JST 2005</li> </ul>	
unix: [ID 618185 kern.notice] NOTICE: Scheduling removal of page 0x00000000.75268000 fmd: [ID 441519 daemon.error] SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005	
0x00000000.75268000 fmd: [ID 441519 daemon.error] SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005	
SUNW-MSG-ID: SUN4US-8000-7D, TYPE: Fault, VER: 1, SEVERITY: Minor EVENT-TIME: Mon Feb 21 21:26:51 JST 2005	
EVENT-TIME: Mon Feb 21 21:26:51 JST 2005	
EVENT-ID: aaf47b25-cfd2-4984-f598-e81bcbba274f	
-	
	-
	-
	PLATFORM: FJSV,GPUSC-M, CSN: -, HOSTNAME: colm2 SOURCE: cpumem-diagnosis, REV: 1.3

No	Limitations and known bugs	Remarks
	Recommended actions	
37	The -R option for pkgadd(1M), pkgrm(1M), patchadd (1M), and patchrm(1M) utilities	Solaris 10
	have limitations when zones are included in the remote target image.	3/05 only
	When a package and/or patch needs to be removed from non-global zone, install the	
	following patch before patch/package removal.	
	• 119254-19 or later SunOS 5.10: Install and Patch Utilities Patch	
38	LiveUpgrade installation and Solaris Upgrade Installation of non-global zones have	
	limitations.	
	Announcement will be made when support for this feature is enabled.	
39	When you install zone using zoneadm(1M), the following error messages with FJSVdr	
	or FJSVparam is displayed.	
	# zoneadm -z myzone install	
	Preparing to install zone <myzone>.</myzone>	
	Creating list of files to copy from the global zone.	
	Copying <2784> files to the zone.	
	Initializing zone product registry.	
	Determining zone package initialization order.	
	Preparing to initialize <1081> packages on the zone.	
	Initialized <1081> packages on zone.	
	Zone <myzone> is initialized.</myzone>	
	Installation of these packages generated errors: <fjsvdr></fjsvdr>	
	Installation of <19> packages was skipped.	
	The file  contains a log of the	
	zone installation.	-
	They have no impact on the system.	
40	During boot system, the following warning message may be displayed.	
	WARNING: Time of Day clock error: reason [Reversed by 0x2] Stopped	
	tracking Time Of Day clock.	-
	Ignore the message. It has no impact on the system.	
41	The following option for patchadd(1M) does not work.	
	-d, -u, -n, -B, -k, -P, -x	-
	There is no workaround now.	
42	The following message might be displayed on the console.	
	snmpXdmid: [ID 216524 daemon.error] Registration with DMI failed. err = 831.	-
	If there is no map file except test.map in /var/dmi/map, it means DMI is not used, then	
	disable DMI service provider in the following way.	
	• On Solaris 10 OS 6/06 and earlier.	
	# mv /etc/rc3.d/S77dmi /etc/rc3.d/_S77dmi	
	• On Solaris 10 11/06 and later.	
43	# svcadm disable svc:/application/management/dmi:defaultWhen removing a patch with patchrm(1M), you may fail to remove it with the following	
+J		
	messages. First RE may not be null	
	Patchrm is terminating	
	Patchrm is terminating.	
	WARNING: patchrm returned <21> Install the following patch.	+

No	Limitations and known bugs	Remarks
	Recommended actions	
44	I Installation and removal of a package or patch may fail in a system with non-global zones, under the following conditions.	
	• non-global zone is configured using zonecfg(1M), but not installed by zoneadm(1M).	
	<ul> <li>non-global zone is just booted by zoneadm(1M) after installation, without any non-global zone settings such as host name and root password.</li> </ul>	
	• non-global zone is being installed or removed by zoneadm(1M).	
	Make sure the initial setup like hostname and password configuration of all non-global zones has been done and all the non-global zones are in "running" state before installation or removal of package and patch	
45	The following message may be displayed during an upgrade installation from Solaris 9. network/nfs/server:default failed repeatedly (see 'svcs -x' for details)	
	Ignore the message. It has no impact on the system.	

## 5.2 Specification and incompatibility for Solaris

This chapter explains specification and incompatibility for Solaris.

No	Specification and incompatibility	Remarks
	Recommended actions	
1	Solaris 10 provides Solaris Service Manager (SMF) to enhance the UNIX startup script	
	(so called RC script) and system daemons during boot up. Due to this new feature, there	
	is some unexpected and incompatible behavior compared to Solaris 9 or older versions.	
	Refer to SMF documentation as follows and smf(5) manual page.	
	Solaris 10 System Administrator Collection	
	>> System Administration Guide: Basic Administration	
	http://docs.sun.com/app/docs/doc/817-1985/	
2	/usr/bin/ln has been changed in Solaris 10.	
	• Solaris 9 or older versions.	
	/usr/bin/ln will overwrite file if target file already exists.	
	• Solaris 10.	
	/usr/bin/ln will fail if target file already exists.	
	The same behavior occurs with Solaris 9 or older versions if the -f option is used with	
	the ln command.	
3	If the DHCP sever has multiple network interfaces, it may not be able to deliver an IP	
	address to a DHCP client because of DHCP server settings.	
	pntadm(1M) -s option needs to be specified with "uname -n" or the IP address of the	
	primary network interface. If a non-primary IP address is specified with pntadm -s,	
	DHCP server will not be able to deliver an IP address to the DHCP client.	

No	Specification and incompatibility	Remarks
	Recommended actions	
ł	nslookup(1M) results on Solaris 10 differ from those of Solaris 9 or older versions.	
	e.g.)	
	• Solaris 9	
	# nslookup	
	> aaa213.sample.test.com.	
	Server: aaat11.sample.test.com	
	Address: xxx.xxx.nnn	
	Name: aaa13.sample.test.com	
	Address: xxx.xxx.mmm	
	Aliases: aaa213.sample.test.com, aaa113.sample.test.com	
	• Solaris 10	
	# nslookup	
	> aaa213.sample.test.com.	
	Server: xxx.xxx.nnn	
	Address: xxx.xxx.nnn#xx	
	aaa213.sample.test.com canonical name = aaa113.sample.test.com.	
	aaa113.sample.test.com canonical name = aaa13.sample.test.com.	
	Name: aaa13.sample.test.com	
	Address: xxx.xxx.mmm	
	* aaa113.sample.test.com is an alias of aaa13.sample.test.com	
	* aaa213.sample.test.com is an alias of aaa113.sample.test.com.	
5	1) Physical device (/devices) entries for hard disk drive are removed at system	
	reboot if the hard disk driver is removed from the system before system reboot.	
	e.g.)	
	# cd /dev/rdsk	
	# ls -l c1t6d0*	
	lrwxrwxrwx 1 root root 48 May 28 11:19 c1t6d0s0 ->//devices/pci@1f,0	
	/pci@5/scsi@2/sd@6,0:a,raw	
	# ls -IL c1t6d0*	
	c1t6d0s0: No such file or directory	
	2) "iostat –E" and "drestat –device" may not show all connected physical devices	
	right after system boot.	
	This behavior of devfs on Solaris 10, is to be expected. /devices entries are updated	
	dynamically when each device is actually attached. As a result, device entries that have	
	not been attached after system boot, are not displayed by those commands.	
;	If non-global zones are not booted, patchadd(1M) and patchrm(1M) will make all	
•	non-global zones boot up temporarily during patch installation and removal. As a result	1
	the total time for patch installation and removal will take much longer than booting up in	
	single user mode.	-
	Boot all non-global zones in single user mode before installing and removing patches.	1
	Example)	
	global# zoneadm –z myzone boot -s	

)	Specification and incompatibility	Remark
	Recommended actions	
	The following messages may be displayed during patch installation using patchadd(1M).	
	Package {PKGNAME} from directory {PKGNAME} in patch {PATCHID} is not	
	installed on the system.	
	Architecture for package {PKGNAME} from directory {PKGNAME} in patch	
	{PATCHID} differs from the package installed on the system.	
	Example)	
	# patchadd 118822-18	
	Validating patches	
	Loading patches installed on the system	
	Done!	
	Loading patches requested to install.	
	Package SUNWcti2 from directory SUNWcti2.u in patch 118822-18 is not installed	
	on the system.	
	Package SUNWdrcr from directory SUNWdrcr.u in patch 118822-18 is not	
	installed on the system.	
	Package SUNWidn from directory SUNWidn.u in patch 118822-18 is not installed on the system.	
	Architecture for package SUNWdrr from directory SUNWdrr.u in patch 118822-18	
	differs from the package installed on the system.	
	Package SUNWwrsd from directory SUNWwrsd.u in patch 118822-18 is not	
	installed on the system.	
	Architecture for package SUNWefc from directory SUNWefc.u in patch 118822-18	
	differs from the package installed on the system.	
	Package SUNWwrsm from directory SUNWwrsm.u in patch 118822-18 is not	
	installed on the system.	
	Architecture for package SUNWcakr from directory SUNWcakr.u in patch	
	118822-18 differs from the package installed on the system.	
	Architecture for package SUNWcpr from directory SUNWcpr.u in patch 118822-18	
	differs from the package installed on the system.	
	Done!	

No	Specification and incompatibility	Remarks
	Recommended actions	7
8	In Solaris10, rsh(1) will output messages according to the value of the LANG variable	
	that is defined in /etc/default/init. However, in the previous Solaris versions, the system	
	will use the LANG=C locale for a command, that is run at the server side by rsh(1),	
	without mentioning any specific value for the LANG variable.	
	In Solaris 10, if the LANG variable is not set explicitly to a process that is executed by	
	inetd(1M), the process will succeed the value of this variable from inetd(1M). To stop a	
	process from succeeding the value of the LANG variable from inetd(M), change the	
	setup with the following command:	
	e.g.) in case of rsh(1)	
	<pre>#inetadm -m network/shell:default inherit_env=FALSE</pre>	
	For details of the setting, see the inetd(1M) man page.	
9	Patch installation using patchadd(1M) will fail if the system has any zones and if the	
	patch archive is on NFS server.	
	Copy the patch archive from NFS server to local file system such as /tmp and install the	
	patch.	

Download from Www.Somanuals.com. All Manuals Search And Download.



Download from Www.Somanuals.com. All Manuals Search And Download.

Free Manuals Download Website <u>http://myh66.com</u> <u>http://usermanuals.us</u> <u>http://www.somanuals.com</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.cc</u> <u>http://www.4manuals.com</u> <u>http://www.404manual.com</u> <u>http://www.luxmanual.com</u> <u>http://aubethermostatmanual.com</u> Golf course search by state

http://golfingnear.com Email search by domain

http://emailbydomain.com Auto manuals search

http://auto.somanuals.com TV manuals search

http://tv.somanuals.com