Enhanced Support Facility
Update Information

Preface

Purpose

This manual provides an overview and details of the upgraded functions of the Enhanced Support Facility (ESF). These functions are provided for the SPARC Enterprise and PRIMEPOWER series server.

Read this manual to determine whether to upgrade the ESF version.

Intended Readers

This manual is intended for the following readers:

- System designers authorized to decide whether to install this software
- System administrators who introduce and operate this software

Organization

This manual is organized as follows:

Chapter 1: New Features

Describes the features that have been added to the latest version.

Chapter 2: Modification

Describes changes that have been made to the latest version.

Notation

The following names, abbreviated expressions, and symbols are used in this manual:

Manual names

- This manual itself is referred to as "this manual."
- Any manual for this product is sometimes referred to by omitting "Enhanced Support Facility" at beginning of the formal name and supported server models at the end of the formal name. "User's Guide for Machine Administration," or "User's Guide for REMCS" is one of such examples.

  Example: Enhanced Support Facility User's Guide for SCF Driver (PRIMEPOWER)
  → User's Guide for SCF Driver

Abbreviation

In this document, the formal names of the products below are abbreviated as follows:

Formal name	Abbreviation
SPARC Enterprise M3000/M4000/M5000/M8000/M9000	SPARC Enterprise M series
SPARC Enterprise T1000/T2000/T5120/T5140/T5220/T5240/T5440	SPARC Enterprise T series

Marks

In this manual, the marks below are used for cautionary messages and reference information.

Mark	Description
Note	Contains a warning or cautionary message. Make sure you read it carefully.
Point	Contains reference information that you will find useful.
See	Provides reference information. Refer to the information when necessary.

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Revision History

Revision	Date	Details
8	August 01, 2006	Addition of description for Enhanced Support Facility 3.0.
9	April 09, 2007	Patches of Manuals & Patches 3.0A10 are added to Table 2.3.
10	June 25, 2007	Patches of Manuals & Patches 3.0A20 are added to Table 2.3.
11	January 10, 2008	Chapter 1 New Features Manuals & Patches 3.0A10, Manuals & Patches 3.0A20, Manuals & Patches 3.0A30 are added. Patches of Manuals & Patches 3.0A30 are added to Table 2.3.
12	April 16, 2008	The description about SPARC Enterprise T5140/T5240 supported by Enhanced Support Facility 3.0.1 has been added.
13	September 02, 2008	The description of Enhanced Support Facility 3.1 has been added. The description about SPARC Enterprise M3000/T5440 supported by Enhanced Support Facility 3.1 has been added.
14	February 18, 2010	Patches of Manuals & Patches 3.1A10 are added to Table 2.3.

Contents

Chapter 1 New Features

The following table 1.1 defines new features added to previous versions of this software.

＊ System Control Facility driver is abbreviated to SCF driver and System Control Facility hardware is abbreviated to SCF in this document.

Table 1.1

Version Level		Component	New Feature Name	Description
3.1	A10	Machine Administration	The External I/O Expansion Unit is supported.	In SPARC Enterprise series T5120/T5220/T5140/T5240/T5440, the Machine Administration has supported the External I/O Expansion Unit(SENY8BE1F).
			Machine Administration support added for the Expansion File Unit connected to the standard (on board) SAS port.	In SPARC Enterprise M3000, Machine Administration has supported the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A) connected to the standard(on board) SAS port.
			Support of error monitoring of the 8Gbps fiber channel card	In SPARC Enterprise series, the Machine Administration has supported the error monitoring function of the 8Gbps fibre channel card(SE0X7F21F/SE0X7F22F).
			Error monitoring of a disk unit	The error monitoring function of the disk unit of Machine Administration has been improved.
		Remote Support	Support of the maintenance menus with the root privilege	In SPARC Enterprise T1000/T2000/T5120 /T5220/T5140/T5240/T5440, the maintenance start menu and maintenance end menu have been supported with the root privilege.
		Tape Driver Configuration Tool	Added new target tape devices	The following tape units have been newly supported: ・LTO Ultirum4 half height Tape Drives(SAS) ・LTO Ultrium4 Full height Tape Drives(SAS)

Version Level		Component	New Feature Name	Description
3.1		All components	SPARC Enterprise M3000/T5440 support	The SPARC Enterprise M3000/T5440 is supported (Solaris 10 OS).
			Accompanying DVD-ROM	Accompanying media has been changed from CD-ROM to DVD-ROM.
		Machine Administration	Support of Hot Swapping Guide menu	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240, Machine Administration "Hot Swapping Guide" menu has been supported and the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A) has been supported.
			Improvement of the monitoring Function of internal FAN/PSU	In SPARC Enterprise T1000/T2000/T5120/T5220, the Machine Administration improves the monitoring function of FAN/PSU.
			Support will be terminated.	Support for the GUI menu of the Machine Administration has been terminated.
		System Data Output Tool	Improvement of collection function	Driver and LDoms are added as collection information. Even when the path of extraction information is long, it processes normally.
		Tape Driver Configuration Tool	Added new target tape devices	The following tape units are newly supported: ・LTO Ultrium3 half height Tape Drives ・LTO Ultrium4 Tape Drives ・ETERNUS LT230 and LT250 Tape Libraries
		Patch Information Collect Command	Addition of command options -Z, -s	The function(-Z) saving patch information in zip format has been added. The function(-s) reducing CPU usage during execution of the fjcollect command has been added.
		Web-BasedAdmin View /WWW Server for Admin View	Support will be terminated.	Support for the following component has been terminated. Web-Based Admin View／WWW Server for Admin View

Version Level		Component	New Feature Name	Description
3.0.1		All components	SPARC Enterprise T5140/T5240 support	The SPARC Enterprise T5140/T5240 is supported(Solaris 10 OS).
			Inclusion of patch information on Enhanced Support Facility Manuals & Patches	Patch information from Enhanced Support Facility Manuals & Patches 3.0A10 through Enhanced Support Facility Manuals & Patches 3.0A30 has been included.
3.0		All components	Support for LDoms on SPARC Enterprise T5120/T5220	Support for LDoms on SPARC Enterprise T5120/T5220
	*A30	DR command	Dynamic Reconfiguration provided by the Enhanced Support Facility is supported on SPARC Enterprise M4000/M5000/M8000/M9000 servers equipped with SPARC64 VII processor.	Dynamic Reconfiguration provided by the Enhanced Support Facility is supported on SPARC Enterprise M4000/M5000/M8000/M9000 servers equipped with SPARC64 VII processor.
	*A20	All components	SPARC Enterprise T5120/T5220 support	The SPARC Enterprise T5120/T5220 is supported(Solaris 10 OS).
		DR command	The SPARC Enterprise M4000/M5000/M8000/M9000 series are supported. – PRIMEPOWER-DR function	The following functions for the SPARC Enterprise M4000/M5000/M8000/M9000 series are supported after Enhanced Support Facility 3.0, Enhanced Support Facility Manuals & Patches 3.0 A20, and the firmware (XCP) of the unit are updated to Version 1050 or later:
		Remote Support		– PRIMEPOWER-DR function
		Automatic power supply control		– Transmission of software investigation information to the REMCS center – Automatic power supply control
	*A10	All components	Necessary patches for SPARC Enterprise T1000/T2000/ M4000/M5000 /M8000/M9000 have been put together.	Necessary patches for SPARC Enterprise T1000/T2000/M4000/M5000/M8000/M9000 have been put together.
3.0		All components	SPARC Enterprise T1000/T2000/M4000/M5000/M8000/M9000 support	The SPARC Enterprise T1000/T2000/M4000 /M5000/M8000/M9000 is supported (Solaris 10 OS).
			Flash archive support	Flash archive including Enhanced Support Facility is supported.
			Change of the manual system	The ESF User's Guide has been changed to a document that has explanations for the ESF as a whole. Explanations for individual components have been arranged in separate volumes. For details on the new manual system, see the ESF User's Guide.
			Change of the online manual file format	The format of online manual files was changed from HTML to PDF.
			Discontinuation of old model support	Support for the following machine types has been discontinued: PRIMEPOWER 1/200/400/600/800/1000/2000, GP7000F model 200/200R/400/400R/400A/ 600/600R/1000/2000 Use ESF 2.6 for old models.

Version Level			Component	New Feature Name	Description
				Installation of the bundled driver	In case of SPARC Enterprise T1000/T2000/M4000 /M5000/M8000/M9000, the following drivers are installed. - FUJITSU PCI GigabitEthernet - FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver
			Enhanced Support Facility Information management	Automatic model recognition at custom jump start	Automatic model recognition to be performed also at custom jump start was newly implemented.
				Mount checking function at installation	The function for checking at installation whether a file system is mounted under /opt was newly added.
			SCF/SCSI Fault LED support option	SCF/SCSI Fault LED support option support	The SCF/SCSI Fault LED support option is optional software that supports the command for accessing the RCI interface included in high-end and mid-range SPARC Enterprise Server models and the DISK hot swapping of SCSI DISK provided by Machine Administration.
			Remote Support	Improvement of the software information collection function	Improvement of the information collection function when a software problem occurs
			System Data Output Tool	Addition of information to be collected	The following was added to the information to be collected: ETERNUS multipath driver/machine Administration/SNMP/OS environment/ZFS
			Tape Driver Configuration Tool	Added new target tape devices	The following tape units are newly supported: • DAT72 Tape Drives • ETERNUS LT Series Tape Libraries
			License Manager	Deletion of License Manager	License Manager is included in each middleware product.

*A30: Enhanced Support Facility Manuals & Patches 3.0A30

*A20: Enhanced Support Facility Manuals & Patches 3.0A20

*A10: Enhanced Support Facility Manuals & Patches 3.0A10

Version Level	Component	New Feature Name	Description
2.6	Web-BasedAdmin View /WWW Server for Admin View	Addition of new client environment	The clients of Web-Based Admin View newly support following type of Web browser:(Mozilla Web browser bundled in Solaris10 OS [Workstation])
	Machine Administration	Enhancement of monitoring function	The FMA message in Solaris10 monitoring function is supported on GP7000S, Fujitsu S series.
			Improved monitoring function informs of hardware errors detected by POST on PRIMEPOWER650/850.
		Enhancement of log Collection command	Support for function to collect SCF error log files by savelogs command on PRIMEPOWER650/850.
		Enhancement of Machine Administration GUI menu	Support for function that displays dialog which suppresses the use of the CUI menu when WebSysAdmin is not installed.
	Remote Support	authentication function is supported	Support for SMTP authentication function on PRIMEPOWER250/450/650/850.
		Device identification file destruction tolerance improvement	Support for Machine identification file checksum to improve resilience to file corruption.
		REMCS file compression process is improved	REMCS file compression process is improved
		Improvement of method of making temporary file	The generation of unique names of temporary file is improved
		Communication log size improvement	The default maximum communication log file size is changed to 100KB, regardless of preservation period.
		For GMT offset summer time	The GMT offset in REMCS file supports daylight saving time.
	Patch Information collect command	The addition of the information extraction function of the patch versions	A command is added to collect "Patch Information"(such as installed packages, applied patches, and hardware model information) for patch analysis using the Patch Management Tool

Version Level	Component	New Feature Name	Description
2.5.1	Machine Administration	Solaris 10 supported at PRIMEPOWER1/100	Support for monitoring function of PCI error messages.
		Adds the information by the fjsnap command.	Addition of HCP information in fjsnap.
		Support the Custom JumpStart installation.	Support for Custom JumpStart installation with Solaris 10.
		Improvement in the tape monitoring function.	Support for function to add tape drives not needing monitoring to the no-monitoring list automatically.
		Improvement of the XSCF user password administration command.	New option to specify a password by argument with command that sets an XSCF users password on PRIMEPOWER250/450.
		New CPU support	2.025GHz SPARC64-V CPUs supported on PRIMEPOWER650/850.
		Support the DR command.	Support for DR command with Solaris 10.
2.5	All components	Solaris 10 OS support	Support for Solaris 10 OS on PRIMEPOWER1/100/200/250/400/450/600/650/800/850/900/1000/1500/2000/2500/HPC2500, GP7000F model 200/200R/400/400R/400A/600/600R/800/1000//2000.
	Web-Based Admin View / WWW Server for Admin View	Addition of new client environment	Web-Based Admin View clients nowy support the following OS, Web browser, and Java Plug-in: • PC client : Windows(R) XP • Web browser : Netscape 7.X • Java Plug-in : Java(TM) 2 Runtime Environment Standard Edition v1.4.2 Note: Web browser conditions(including Java Plug-in) and clients vary depending on the operations management products use. For details, refer to the documentation with the management product.
	Machine Administration	Support the hot-exchange menu of the RCI I/O device.	Support for hot-exchange menu with RCI I/O devices.
		Enhancement to disk drive hot-exchange function.	Support for function that automatically exclude disk volumes when a disk abnormality occurs. This function is implemented is cooperation with PRIMECLUSTER/GDS 4.1A30 or later.
		The monitoring function of the DAT72 is supported.	DAT72(PW023DT5/PW023DT6) devices are added to the target of the tape cleaning monitoring function.

Version Level	Component	New Feature Name	Description
2.5	Remote Support	REMCS8.2 version function support	On PRIMEPOWER250/450/650/850, the REMCS menu is changed so that registration execution is easier.
			On PRIMEPOWER250/450/650/850, the retry method for periodic connection information errors is changed.
			On PRIMEPOWER1/100/200/250/400/450/600/ 650 /850 and GP7000F model 200/200R/400/400R/ 400A/600/600R, collected software investigation information can be sent to the REMCS Center even if the system is in maintenance mode.
	System Data Output Tool	NTP support	Addition of system information related to NTP to the collected data.
		PRIMECLUSTER Wizard for NetWorker support	Addition of system information related to PRIMECLUSTER Wizard for NetWorker to the collected data.
		Systemwalker Resource Coordinator support	Addition of system information related to Systemwalker Resource Coordinator to the collected data.
		Patch Management Tool support	Addition of system information related to Patch Management Tool to the collected data.
		fjsnaplt support	Addition of fjsnaplt command.
		Machine administration support	Addition of system information related to Machine administration to the collected data.
		Solaris 10 OS support	Addition of system information related to Solaris 10 to the collected data. System VIPC, Service Management Service, Fault Management.
	Tape Driver Configuration Tool	Tape Driver Configuration Tool support	Support for the configuration function with tape driver configuration file. On PRIMEPOWER1/100/200/250/400/ 450/600/650/ 800/850/900/1000/1500/2000/2500/HPC2500
2.4.1	All components	Solaris Custom Jump Start support	Support for Solaris Custom Jump Start on PRIMEPOWER250/450/600/650/850 /900/1500/ 2500/HPC2500(with Solaris 9 OS).
		Solaris Live Upgrade support	Support for Solaris Live Upgrade.
		SPARC64(TM) V1.82GHz Support	Support for SPARC64(TM) V 1.82GHz.
	SCF driver	SCF driver message is added	SCF driver messages for power failure and recovery added to DC models of PRIMEPOWER250/450/650/850/900/1500.
		fjprtdiag command enhance	Display of PCI card name property added to fjprtdiag command.
		diskadm command enhance	Modified diskadm command error message when diskadm command is executed for DISK not supported.

Version Level	Component	New Feature Name	Description
2.4.1	SunVTS, FJVTS	Version upgrade	The versions of SunVTS and FJVTS for Solaris 9 OS are upgraded to 5.1.
	Machine Administration	Solaris Live Upgrade support	"savelogs" command supports Solaris Live Upgrade.
	Remote Support	REMCS7.0 version function support	Software message monitoring function added.
	Auto Dump Analyze Tool	Solaris 9 OS support	"cocore" command support for Solaris 9 OS.
	G-LAN error notification	GigabitEthernet interface error Notification	Addition of GigabitEthernet interface error notification on RIMEPOWER200/250/400/450/ 600/650/800/850/900/1000/1500/2000/2500/ HPC2500(Solaris 8 OS and Solaris 9 OS)
	System Parameter Diagnosis	System Parameter Diagnosis support	Support for diagnosis function of system parameters on PRIMEPOWER1/100/200/250/ 400/450/600/650/800/850/900/1000/1500/2000/ 2500/HPC2500(Solaris 8 OS and Solaris 9 OS)
2.3	All components	PRIMEPOWER 250/450/650/850/900/1500 Support	Support for PRIMEPOWER250/450/650/850/900/ 1500(Solaris 8 OS and Solaris 9 OS)
		PRIMEPOWER 2500/HPC2500 Support	Support for PRIMEPOWER 2500/HPC2500(On Solaris 8 OS)
		External file unit (PW007FL2/PW007FL2U)	Support for external file unit (PW007FL2/PW007FL2U)
		Optional installation	Support for Optional installation on Solaris 8 OS and Solaris 9 OS.
		PCI Hot Plug support	Support for PCI Hot Plug on Solaris 8 OS.
		Document	PCI Hot Plug users guide added to online manual.
			PCI Hot Plug users guide I/O device Chapter added to online manual.
			Security System Building Guide added.
		Patch automatic application	Patch now automatically applied with the installer.
	DR command	PRIMEPOWER 900/1500/2500 support	Support for Dynamic Reconfiguration on PRIMEPOWER 900/1500/2500 with Solaris 8 OS.
		Document	Dynamic Reconfiguration users guide I/O device Chapter added to online manual.
	SunVTS, FJVTS	Network test enhance	PW008FE1 card can be diagnosed with nettest.
	Machine Administration	Enhancement of monitoring function	Power supply unit monitoring function enhanced on PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/ 600R.
			Fan monitoring function enhanced on PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/600R.
			Abnormal temperature monitoring function now supported on PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/ 600R.

Version Level	Component	New Feature Name	Description
2.3	Remote Support	Enhancement of remote maintenance	Function for software configuration information collection enhanced.
		REMCS5.5 version function support	SMTP only supported.
			User authentication of SMTP server(PoP before SMTP) supported on report to REMCS Center.
			Detailed error code display added to the error message.
	System Data Output Tool	BLASTBAND HPC Support	Addition of system information related to BLASTBAND HPC to the collected data.
		SRFS over BLASTBAND HPC support	Addition of system information related to SRFS over BLASTBAND HPC to the collected data.
		DiskSuite 4.2.1 Support	Addition of system information related to DiskSuite 4.2.1 to the collected data.
		Java Edition RC2000 support	Addition of system information related to Java Edition RC2000 to the collected data.
		Fujitsu middleware support	Addition of modification information of Fujitsu middleware to the collected data.
		WebSysAdmin support	Addition of system information related to WebSysAdmin to the collected data.
	Reliability Driver	Support general use	Serial ports on system board and PCI/Disk BOX made available for general use on PRIMEPOWER900/1500/2500/HPC2500.
	HCP	HCP management support	Addition of XSCF User's Guide, firmware and utility. (PRIMEPOWER 250/450 only)
2.2	All components	PRIMEPOWER1500(Model equipped with SPARC64TM GP) support	Support for Solaris(TM) 8(Operating Environment) on PRIMEPOWER1500(Model equipped with SPARC64TM GP)
		Solaris 9 OS support	Support for Solaris 9 OS on PRIMEPOWER1/200/400/600/1000/2000, GP7000F Models 200/200R/400/400R/400A/600/600R/800/1000/2000
	*SCF Driver	Change in command provision	Prtdiag(1M) command provided with ESF2.1 and earlier versions is replaced by Fjprtdiag(1M) command at ESF2.2 and later versions.
	SunVTS, FJVTS	Version upgrade	The versions of SunVTS and FJVTS for Solaris 9 OS are upgraded to 4.5.
	Machine Administration	Enhancement of hot swapping guide	The hot swapping guide menu of "Power Supply Unit of Main Cabinet" is enhanced on PW200/400/600 and GP7000F Models 200R/400/400R/400A/600/600R.
	Remote Support	Enhancement of remote maintenance	REMCS agent menu function is enhanced.
			Tape unit information added to HW configuration data sent to the REMCS center.

Version Level	Component	New Feature Name	Description
2.2	Web-Based Admin View / WWW Server for Admin View	Java 1.3.1 environment support	The Java 2 Runtime Environment Version 1.3.1 environment is supported when GUI is used.
		Additional manual pages	Addition of manual pages for the following commands: fjsvwvbs(1m) fjsvwvcnf(1m) wvCntl(1m) wvGetparam(1m) wvSetparam(1m) wvstat(1m)
	Server Default Configuration	CPU offline supports Parallelnavi cooperation	Processor resources used by Parallelnavi are automatically cleaned up before the processor is off-lined due to frequent ECC errors.
		Support of new processor	Single bit error watch function was is supported for new processor.
	System Data Output Tool	Parallelnavi support	Addition of system information related to Parallelnavi to the collected data.
		crash dump analysis file support	Addition of system information related to "crash dump analysis file" to the collected data.
		Enhanced Support Facility Information Management support	Addition of system information related to ESF Information Management to the collected data.
		Web-Based Admin View support	Addition of system information related to Web-Based Admin View to the collected data.
		FUJITSU PCI SCSI Adapter Driver 1.0/2.0 support	Addition of system information related to FUJITSU PCI SCSI Adapter Driver to the collected data.
		Hard Disk Driver Control Software support	Addition of system information related to Hard Disk Driver Control Software to the collected data.
		FUJITSU Fibre Channel Driver support	Addition of the system information related to FUJITSU Fibre Channel Driver to the collected data.
		Multipath Disk Control load balance option(MPLB) 4-paths/8-paths 2.x support	Addition of system information related to Multipath Disk Control load balance option to the collected data.
		BSNPS support	Addition of system information related to BSNPS to the collected data.
		MultiPath Disk Control support	Addition of system information related to MultiPath Disk Control to the collected data.
	Auto Dump Analyze Tool	Auto Dump Analyze Tool	Automatic analysis of crash dump file on system reboot, using Auto Dump Analyze Tool.
2.1	SunVTS, FJVTS	PGX64 adapter support	PGX64 adapter can be diagnosed with m64test.
		PW008GE2, PW008GE3 support	PW008GE2 and PW008GE3 adapters can be diagnosed with nettest.
	Machine Administration	Addition of the reported message	Addition of kernel driver message that reports when an error occurs.

Version Level	Component	New Feature Name	Description
2.1	Remote Support	Enhancement of remote maintenance	The function for Software Investigation Information Collection was enhanced.
			Remote maintenance system setting menu and a function that reports to REMCS Center are enhanced. Addition of Point-to-Point Connection function.
	System Data Output Tool	SynfinityLink support	Addition of system information related to SynfinityLink to the collected data.
		Emulex Adapter support	Addition of system information related to "Emulex Adapter" to the collected data.
2.0	All components	PRIMEPOWER650/850 support	Support for Solaris 8 OS on PRIMEPOWER650/850
	Enhanced Support Facility Information Management	Improvement of the esfadd command	Display method of package list, updated and improved.
		Improvement of the esfrm command	Later versions of packages previously installed using the Enhanced Support Facility removed from the deletion target.
		New addition of the esfver command.	Addition of esfver command, to confirm the name and the latest version information for Enhanced Support Facility installed packages.
		Improvement of the esfadd and esfrm command	Enhanced installation/uninstallation log collection to make troubleshooting of installation/uninstallation problems easier.
	*SCF Driver	PRIMEPOWER650/850 support	Addition of SCF 3 driver as a RAS control device driver for PRIMEPOWER650/850.
		CoD function support	CoD function support for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
	SunVTS, FJVTS	Reinforcement of the CPU tests	Ability to test CPUs improved on FJVTS.
	Web-Based Admin View / WWW Server for Admin View	Function of secondary server HA	Addition of dynamic movement function for secondary servers.
		Definition information is maintained in each node	Definition information for each node is now maintained on each respective node.
		Menu button is permanently displayed.	The menu on Web-Based Admin View made permanently accessible.
		Java2 support.	GUI can now use Java2. Java-PlugIn is necessary for displaying GUI.
		Information definition separation function.	Information on each GUI separated. Dependence can be maintained even if FJSVwvbs is user deleted with pkgrm.
		Correction of HTTP's header	The operation of the HTTP's header was corrected.
		Correction of overwrite installation	Addition of a function that stops the deamon when overwrite installation is started.
		Correction of log information	Extra information and additional function acquired for full thread dump of JavaVM.

Version Level	Component	New Feature Name	Description
2.0	Machine Administration	Java2 support.	GUI can use Java2. Java-PlugIn is necessary for displaying GUI.
		Support of function to call WSA	Function to call WSA from GUI is now supported.
		Enhancement of disk longevity monitoring system	The longevity monitoring system of the disk was enhanced. Access to the disk without the longevity monitoring system was stopped.
		Improvement of the notification message	Component description added to notification messages when errors in CPU, memory, or disk occur with PRIMEPOWER1/100/200/400/600 and GP7000F Models 200/200R/400R/400A/600/600R
	Remote Support	Enhancement of remote maintenance	The function for Software Investigation Information Collection was enhanced.
			CPU and memory information on HW configuration data is enhanced with PRIMEPOWER1/100/200/400/600 and GP7000F Models 200/200R/400R/400A/600/600R.
	Server Default Configuration	Prohibit system suspending	Prohibition of suspend system execution by a normal user. (PRIMEPOWER and GP7000F only)
		Dump Function	Support for Dump Function of PRIMEPOWER 650/850. Can save memory dump by REQUEST switch on the operator panel.
	System Data Output Tool	Synfinity-VIA support	Addition of System information related to Synfinity-VIA to the collected data.
		SynfinityCluster/HA for Oracle support	Addition of system information related to SynfinityCluster/HA for Oracle to the collected data.
		AP-Net Basic Software support	Addition of system information related to Ap-Net Basic Software to the collected data.
		Files exceeding 100 Mbytes support	Collects files exceeding 100 Mbytes.
	Reliability Driver	Automatic diagnosis of a standby path	Additional function for diagnosing standby console path automatically on the redundant console path system.
	CPU Performance Counter	CPU Performance Counter will be provided as a Solaris OS standard feature on Solaris 8 10/01 OS or later versions.	CPU Performance Counter is no longer covered by esfrm/esfadd. On Solaris 8 7/01 OS or earlier versions, an extra command is required to install or uninstall FJSVcpc.
1.8	DR Command	Dynamic Reconfiguration configuration checking mechanism	Addition of new check for the Dynamic Reconfiguration configuration.
		Additional message	Addition of function showing the execution states of the connection script.
	SunVTS, FJVTS	Enhancement of the CPU tests	fjcachetest and fjcputest of FJVTS enhanced.

Version Level	Component	New Feature Name	Description
1.8	Machine Administration	Improvement of the menu operation performance	The menu display is improved.
		Excluding function for a specific device	Addition of function to exclude a specific device from devices monitored by the regular automatic monitoring.
		Addition of the monitored tape unit	Addition of tape units monitored by the tape cleaning monitoring.
		Addition of the reported message	Addition of kernel driver message that reports when an error occurs.
	Remote Support	Enhancement of the remote maintenance	Enhancements to remote maintenance system setting menu and function that reports to Fujitsu Support Center.
	CPU Patrol Diagnosis	CPU patrol diagnosis support	Support for CPU patrol diagnosis function on PRIMEPOWER200/400/600/800/1000/2000 and GP7000F Models 200/200R/400R/400A/600/600R/1000/2000.
1.7.1	All components	Solaris 8 OS support	Support for Solaris 8 OS on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
	DR Command	Dynamic Reconfiguration support	Support for Dynamic Reconfiguration on Solaris 8 OS with PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
	*SCF Driver	Dynamic Reconfiguration support	Support for Dynamic Reconfiguration on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
	Machine Administration	Dual console path support	Addition of function to automatically shift dual console path on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000. This function is supported on Solaris 8 OS or later.
	System Data Output Tool	Dynamic Reconfiguration support	Addition of Dynamic Reconfiguration information to the collected data.
	Reliability Driver	I/O multi-pathing support	Support for serial port driver I/O multi-pathing on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000. (Solaris 8 OS only)
		Dynamic Reconfiguration support	Support for Dynamic Reconfiguration on Solaris 8 OS with PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
1.7	All components	PRIMEPOWER1 support	Support for PRIMEPOWER1.
		Solaris 8 OS support	Support for Solaris 8 OS on PRIMEPOWER200/400/600.
	*SCF Driver	Support of the scfconf command	*SCF preferences(power switch, system clock, and UPS operation) can be set using command interfaces on PRIMEPOWER200/400/600.
	SunVTS, FJVTS	Enhancement of FJVTS	fjcachetest and fjcputest added to FJVTS.
		PRIMEPOWER2000 support	FJVTS able to diagnose PRIMEPOWER2000 with CPU configurations between 65 and 128 CPUs.

Version Level	Component	New Feature Name	Description
1.7	Machine Administration	Improvement of the notification message	Addition of component description to notification messages when errors in CPU, memory, or disk occur on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
		New tape unit support	Support for tape unit(DDS4) cleaning notification.
	System Data Output Tool	Driver definition information	Addition of driver definition information to data collected.
	CPU Performance Counter	CPU performance counter support	Support for CPU performance counter feature with Fujitsu SPARC64 GP processors. Feature includes kernel driver, libraries, and utilities. For more detailed information, see manual page FJSVcpc(3CPC).
	Online Trace	Deletion of Online Trace	The Online Trace function is included in each of the following products. • Each NetCompo product • SynfinityCLUSTER/PCL • SynfinityLINK/GLSThe Online Trace function was deleted from the Enhanced Support Facility.
1.6	Enhanced Support Facility Information Management	Improvement of the esfadd command	Automatic determination of system platform. (No longer have to specify the source directory with the -d option)
	SunVTS, FJVTS	Version upgrade	SunVTS and FJVTS for Solaris 7 OS /Solaris 8 OS upgraded from version 3.4 to 4.0.
		New adapter support	GigabitEthernet Card(PP028GE1U) can be diagnosed using the nettest.
1.5	All components	PRIMEPOWER support	Support for PRIMEPOWER200/400/600/800/1000/2000.
	*SCF Driver	Operator call support	Support for function that controls the operator call signal on the user terminal board interface.
		Shutdown support via RCI network	Support for function that shuts down a system using a shutdown request via RCI network.
	SunVTS, FJVTS	Version upgrade	SunVTS and FJVTS for Solaris 7 OS/Solaris 8 OS was upgraded from version 3.2 to 3.4.
	Machine Administration	PRIMEPOWER support	Support for hardware monitoring and maintenance of PRIMEPOWER200/400/600/800/1000/2000.
		Addition of the reported message	Addition of a kernel driver message that reports when an error occurs.
		Enhancement of the remote maintenance	Enhanced remote maintenance system setting menu and function that reports to Fujitsu Support Center.
	Server Default Configuration	CPU offline function	Addition of function that offlines a CPU with frequently occuring ECC errors.

Version Level	Component	New Feature Name	Description
1.5	System Data Output Tool	SynfinityFile/Global support	Addition of SynfinityFile/Global system information to collected data.
	Crash Dump Assistant	Solaris 2.6 OS support	Support for Solaris 2.6 OS.
	Reliability Driver	Serial port driver	Up to thirty two serial ports supported for PRIMEPOWER800/1000/2000.
1.4	All components	Solaris 8 OS support	Support for Solaris 8 OS.
	*SCF Driver	GP7000F Models 1000/2000 support	SCF2 driver added as a RAS control device driver for GP7000F Models 1000/2000.
	SunVTS, FJVTS	Version upgrade	SunVTS and FJVTS for Solaris 7 OS/Solaris 8 OS upgraded from version 3.0 to 3.2.
		New ATM, FDDI adapter support	Adapters GP7B8AT1(ATM), GP7B8FD1(FDDI-SAS), and GP7B8FD2(FDDI-DAS) can be diagnosed using nettest.
		Enhancement of the serial port test	Enhanced serial port test(sptest) for GP7000F Models 1000/2000.
		Integration of the test manual	FJVTS Test Reference Manual was integrated between Solaris 2.6 OS, Solaris 7 OS and Solaris 8 OS.
	Machine Administration	GP7000F Models 1000/2000 support	Support for the hardware monitoring and maintenance of GP7000F Models 1000/2000.
		Addition of the reported message	Addition of a kernel driver message that reports when an error occurs.
		Remote maintenance support	Addition of remote maintenance system setting menu and function that reports to Fujitsu Support Center.
	Server Default Configuration	Partition Dump Function	Support for the Partition Dump Function for GP7000F Models 1000/2000.Can be used from a System Management Console or Panel switch. See manuals for more detailed information.
		Memory error inspection function	Provision of a memory error inspection function.
	System Data Output Tool	System Management Console support	Addition of information related to the System Management Console.
		Forbidden file support	Addition of a function to exclude parts of system data from data collected by the System Data Output Tool.
	Reliability Driver	Serial port driver	Up to thirty two serial ports supported for GP7000F Models 1000/2000.
1.3	All components	Change of product name	In version 1.3, Basic Software Extension was renamed Enhanced Support Facility.
		GP7000F Model 600R support	Support for GP7000F Model 600R.
	Web-Based Admin View / WWW Server for Admin View	Definition of access interface name for each node	An access interface name can be defined separately in each node.
		Improvement of the performance when collecting traces	Performance improvement when collecting traces where the name service cannot be solved.
		Binding function for a specific access interface	An access interface for use can be specified.

Version Level	Component	New Feature Name	Description
1.3	System Data Output Tool	Japanese messages support	Support for Japanese messages for Machine Administration.
		instruction set architectures	Addition of instruction set architectures with the isainfo command.
		Core file information	Addition of the specification of core file information using the coreadm command.
	License Manager	Changes the port number of a license server	Ability to change the default port number of a license server to "27000" with the setup_license command.
	Crash Dump Assistant (Solaris 7 OS only)	Crash Dump Assistant	Following crash dump file creation when system reboots after a crash, Crash Dump Assistant invokes "System Data Output Tool" to save the necessary system data for troubleshooting.
1.2	All components	Solaris 7 OS support	Support for Solaris 7 OS.
	Basic Software Extension Information Management	Support of the -c option	The -c option was added to the bseadd command. Displays the update packages with the -c option.
		Support of the Basic Software Extension update	Support for the update of Basic Software Extension with the bseadd command.
	*SCF Driver	Displays unit name required for replacement	Support for function to allow the prtdiag command to display the failed unit name.
		Displays the detailed information of the units	The following detailed information can be displayed by the prtdiag command if the hardware model has sufficient capabilities. ampere, voltage, temperature of power units RPM of fans temperature of mother boards ambient temperature
		64-bit environment support	The *SCF driver can run in a 64-bit environment with the 64-bit driver.
		Support of the new hardware model	Supports GP7000F Models 200R, 400R, and 400A.
	Online Trace	64-bit system support	Provides the Online Trace function on 64-bit Solaris 7 OS systems.
	SunVTS, FJVTS	SynfinityDisk support	Hard disk drives under SynfinityDisk can be diagnosed with fjvfytest.
		Basic communication adapter (GP7B8BA1) support	The basic communication adapter(GP7B8BA1) can be diagnosed with fjbcdrtest.
	Auto Power Control System	Auto Power Control System GUI	A function that displays or sets the Auto Power Control System Schedule by GUI is supported.

Version Level	Component	New Feature Name	Description
1.2	Machine Administration	Support of FRU property display	Addition of function that displays FRU properties of degraded components in the hardware configuration display and the degradation monitoring information display.
		Disk firmware update support	Support for firmware update of magnetic disk drives.
		GP7000F Models 200R, 400R, and 400A support	Support for hardware monitoring/maintenance on GP7000F Models 200R, 400R, and 400A.
		Auto Power Control System GUI support	Support for the calling function in the Auto Power Control System GUI menu.
	Server Default Configuration	Server Support Feature	The turning on of certain trace functions to improve maintainability of the system.
	System Data Output Tool	SynfinityFile support	Addition of system information related to SynfinityFile to the collected data.
		Support of the -C option	Addition of -C option to the fjsnap command. Adds crash dump files to the output device.
1.1	SunVTS, FJVTS	AP-Net support	AP-Net can be diagnosed with nettest.
		Multipath Disk Control support Write Test support	The hard disk drive under the Multipath Disk Control can be diagnosed with fjvfytest. Write test can be executed on the maintenance track of hard disk drive with the fjvfytest.
		English Online Manual support	Addition of English Online Manual(FJVTS Test Reference Manual).
	Web-Based Admin View / WWW Server for Admin View	Downloading function for Swing class files	Addition of function that supports the dynamic downloading of swing class files in Java Foundation Classes 1.1 from the management server.
		Supports of the multi-monitored nodes	Up to sixteen monitored nodes are supported.
	Machine Administration	Expansion of the disk monitoring function	Supports the Monitoring function of SynfinityDisk and disk array units.
		Expansion of the disk hot-swappable check function	Addition of function that checks the media during disk hot-swapping.
		Improvement of the CUI/GUI menu operation performance	CUI/GUI menu operation performance improved.
		Improvement of the monitoring function	CPU load during monitoring function decreased.
	Server Default Configuration	System log clear	Addition of function that prevents the system from using log files excessively.
	System Data Output Tool	SynfinityDisk support	Addition of system information related to SynfinityDisk to the collected data.
		System Information menu	Addition of function that displays the system information menu if "Collecting System Information" selected in the sub-menu and "Log Date" in the Machine Administration menu.

Chapter 2 Modification

Bugs found in the software of previous version levels that have been fixed.
See the following table 2.1, for details of the bugs and their P-number.

Table 2.1

Version Level	Component	Correction number	Content of correction or Corrected Bug
3.1	Auto Power Control System	PG56951	The automatic power supply control function of ESF will be supported in SPARC Enterprise M4000/M5000/M8000/M9000.
	Crush Dump Assistant	PG52975	System information(fjsnap command) may not be collected during reboot after the occurrence of a system panic.
3.0.1	–	–	No modification has been done.
3.0	SCF Driver	PG46620, PG46621	The Fault LED of a disk unit may not be controlled correctly in a Solaris 10 environment.
	Machine Administration	PG43995	When the system is rebooted the first time after the ESF is installed, an improper message might be output to the console.
		PG44057	The tape cleaning monitoring function does not work on GP7000S, FUJITSU S series.
		PG44536	The error message might be displayed at system initiation and prephp (1M), postphp (1M) or updateunitinfo (1M) command execution.
		PG46504	The hot swapping of disk drive might fail on the Solaris 10 system.
		PG48778	The error mark is reset when power is turned on to incorporate a disk unit that has been substituted by cold swapping.
		PG48779	evmond may output an unnecessary message during the first-time startup after the installation of the package.
		PG48780	The life monitoring function of tape units was improved.
		PG48781	For PRIMEPOWER250/450, GP7000S, and S Series, an improvement was added so that messages that had been suppressed in the past are not reported when notification suppression for the messages is canceled.
		PG48782	For PRIMEPOWER250/450, error descriptions in the help information of the madmin menu were corrected.
		PG48783	For PRIMEPOWER250/450, the Mask value of the configuration information may not be displayed correctly.
		PG48784	For PRIMEPOWER250/450, the hrdconf processing during startup in a large-scale configuration was improved.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		PG49356	The load of CPU increases because the hcd demon which manages hardware configuration information loops infinitely.
		PG49949	Performance improvement of the setdiskinfo command and phpcmd command
	System Data Output Tool	PG38592	Improve functions to decrease the load of the memory during execution.
		PG46966	The hardware log of the ESF/SCS machine administration became target of information collection of the fjsnap command regardless of the data size of the log.
	Reliability Driver	PG27531	The software interruption function may become inoperative and applications that output console messages may be stopped.
2.6	SCF driver	PG40825	When Dual power feed is configured and even if power is recovered, OS Shutdown might be done.
	Machine Administration	PG40558	When Dual power feed is configured and even if power is recovered, OS Shutdown might be done.
		PG40361	A part of the Machine Administration function might not work correctly when environment variable LC_MESSAGES or LC_ALL is set to ja.
		PG40732	The function to control the error report is improved.
		PG41268	The function of hardware error, life or preventive monitoring might stop.
		PG41319	"Management of Hardware Error Event" menu might mistake the detection of an error factor.
		PG41349	Cache Way information on SPARC64-V CPU of 2.08GHz is not displayed by the hrdconf command display on PRIMEPOWER2500
		PG41351	Addition of function so that the display level of "ACFAIL occered (ACS=X)" message can be changed from Information to Warning is added.
		PG42338	The name of error component may not be displayed correctly in the message of preventive replacement for disks.
		PG42740	Unnecessary messages are displayed while uninstalling ESF2.5.1 on the Solaris8 or 9.
		PG42901	Monitoring and maintenance operation for Power Supply Unit and Fan Unit on Expansion File Unit may not work correctly.
		PG43120	Some errors which occurred on the server may not report to SMC.
		PG43480	The hardware configuration display function displays the information of another PCI adapter at the line of onboard device.
		PG43524	The host selection window in the GUI menu might not close when the "End" button is pressed.
		PG43611	The wrong error component name may be displayed when system bus error occurs on PRIMEPOWER1/100.
		PG43736	Some errors which the sd driver detects may not be reported on PRIMEPOWER250/450.
		PG43902	The expansion file unit is not configured, when it is added by PCI Hot Plug.
		PG43983	The LED of the machine may not blink when an error is occurred in the machine.
		PG43993	The preventive replacement of disk is not supported on the GP7000S/Fujitsu S series. But it is not described in the machine Administration guide.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		PG44057	The tape cleaning monitoring function does not work on GP7000S, FUJITSU Sseries.
		PG44160	The function of machine administration does not work on PRIMEPOWER250(4U,DC power model)
	Remote Support	PG42515	REMCS API returns error if it cannot remove temporary file.
	DR command	PG29523	Disconnecting board fails with "Invalid Status Device=Memory Status=NULL."
		PG43473	Improve I/O reference check before disconnecting board.
		PG41242	dr_info shows devices which are not installed.
		PG43676	Fail to disconnect board by I/O access or Disable I/O after disconnect.
	NGDR command	PG40375	The board can't be disconnected once disconnecting board is failed.
		PG40559	The error message "-c: not found" was shown during disconnecting board.
		PG43473	Improve I/O reference check before disconnecting board.
		PG41676	The device is not attached to the driver after connecting the board.
	Tape Driver Configuration Tool	PG38140	The fjcnfset command core dumps during target tape device is busy.
2.5.1	Machine Administration	PG38134	Illegal message occurred in the syslog when the memory collectable error occurred.
		PG38119	Improvement of power control with target disk which tries to replace in Hot Swapping Guide.
		PG36384	The wild-card address 0.0.0.0, cannot be input in the SNMP Administration menu on PRIMEPOWER250/450.
		PG39077	The frequency of CPU displayed in Display Hardware Error Log menu is mistaken on PRIMEPOWER650/850.
		PG37816	Disk information might not be displayed on the hrdconf command on the system which runs Solaris10.
		PG37964	PCI information is mistaken by the hrdconf command for Solaris9/10 on PRIMEPOWER650/850/900/1500/2500/HPC2500.
		PG38179	The removable device mark cleared when reset hardware failure at this device by Management of Hardware Error Event menu.
		PG39870	The PCI card configuration information is wrong in Server System Manager.
	Remote Support	PG37335	When the HTTP communication is canceled, the REMCS agent doesn't respond occasionally.
		PG39370	When the HTTP abnormal connection is repeated, the REMCS agent might not be able to open the file.
		PG40322	REMCS API does not return rarely.
	SunVTS, FJVTS	PG36012	The fjcputest failed in the floating point unit test.
		PG37234	When the fjcputest is executed on Solaris 10, the program failed with core dumped.
	Server Default Configuration	PG41649	Installation scripts in package, r.manifest and preremove have been modified due to "-C" option had been missing for svcprop(1) in the script. The contents of package except the installation scripts has not been changed.
	G-LAN error notification	PG41520	When ESF is installed by the custom jump start, the "Killed" message is displayed by installing the FJSVgidad.us package.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.5	DR command	PG29523	Disconnecting board fails with "Invalid Status Device=Memory Status=NULL."
	NGDR command	PG28272	The board can't be disconnected once disconnecting kernel board is failed.
		PG28274	Disconnecting board is failed when no-obp-sb is set.
		PG28380	CPU is still offline after disconnecting board is failed.
	SCF driver	PG33692	In the environment by which UPS is connected, the power recovery processing is not correctly done when a momentary power failure occurs, and the system does shutdown occasionally.
		PG31442	The function of the Fault LED control of extended file unit (PW007FL2/PW007FL2U) is added.
		PG29871	Group ID of the /opt/FJSVhwr/sbin/fjprtdiag command was changed from 'root' to 'sys.
		PG30956	In PRIMEPOWER 650/850/900/1500/2500/HPC2500, "WARNING: interrupt level 9 not serviced" might be output in system operation, SCF driver is changed.
		PG31447	When CPU(SPARV64 V) of 2GHz or more is installed in PRIMEPOWER 650/850/900/1500/2500/HPC2500, the CPU frequency of the fjprtdiag(1M) command is displayed by a minus value.
		PG29396	Group ID of the /opt/FJSVhwr/sbin/fjprtdiag command was changed from 'root' to 'sys.
		P806854	Group ID of the /opt/FJSVhwr/sbin/fjprtdiag command was changed from 'root' to 'sys.
		PG31419	The function of the Fault LED control of extended file unit (PW007FL2/PW007FL2U) is added.
		PG31421	When CPU(SPARV64 V) of 2GHz or more is installed, the CPU frequency of the fjprtdiag(1M) command is displayed by a minus value.
	Machine Administration	PG27214	Some of mphd driver error messages cannot be detected in PRIMEPOWER650/850/900/1500/2500/HPC2500.
		P806678	The setrci command dumps core on PRIMEPOWER1/100/200/ 400/600, GP7000F Model200/200R/400/400R/400A/600/600R, FUJITSU S series and GP7000S series.
		PG30414	A new type of CPU supported.
		PG30413	The error mark of panic cannot reset.
		PG30412	The serial port device information may not display on PRIMEPOWER650/850.
		PG30411	Memory module failure not reported. If failed memory module mounted on DR-added System board.
		PG28416	DR may stop by picld restart fail.
		PG28417	The setrci command may core dump.
		PG28044	The CPU mask value display format is wrong on 1560MHz or 1620MHz type SPARC64V.
		PG28046	The TTY and onboard LAN device is not displayed in configuration display menu on PRIMEPOWER2500/HPC2500.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		PG28047	The communication between ESF(Enhanced Support facikity) and SCS(System Console Software) is failed on PRIMEPOWER900/1500/2500/HPC2500.
		PG27969	When the NFS mount to SMC fails, it cannot be judged from the message of PRIMEPOWER900/1500/2500/HPC2500.
		PG27111	The SCSI-ID of failure unit displayed by hexa-decimal number.
		PG27113	The Notification to PRIMEPOWER Server Manager when PSU(Power Supply Unit in PCIBOX)exchanged.
		PG27114	The hardware failure mark vanished when system boot.
		PG27117	The removable device mark cleared when reset hardware failure at this device.
		PG28494	The hardware configuration information management Daemon might dump core after executing PCI Hot-plug in PRIMEPOWER450.
		PG28496	The mark of "(sfdsk)" for the disk managed with SynfinityDisk or PRIMECLUSTER/GDS might not be displayed in hardware configuration information, or the hardware configuration information management daemon might dump core in PRIMEPOWER250/450.
		PG28740	When the signal is received, the command termination might not be correctly executed on PRIMEPOWER250/450.
		PG35532	A new message of Solaris 7,8,9 is supported.
		PG31493	A preventive maintenance and an automatic disk drive power supply off function were supported in Hot Swapping Guide.
		PG33902	The error mail is notified every about 30 minutes on PRIMEPOWER900/1500/2500/HPC2500
		PG32837	The message that the console path was switched might be displayed on the System Management Console on PRIMEPOWER900/1500/2500/HPC2500.
		PG33187	Spell miss in power log display command on PRIMEPOWER650/850
		PG32037	The FAN unit (in RCI-device) failure may be misdetected on PRIMEPOWER900/1500/2500/HPC2500
		PG32038	The prterrlog command may displays multiple line of 'VERSION' information.
		PG32040	The error mark not set when UPS failure detected.
		PG32035	The CPU and memory statistics information collection function is supported.
		PG32036	The New menu (Management of Hardware Error Event) supported.
		PG32560	The PCI card configuration information is wrong in REMCS.
		PG32649	Spell miss in power log display menu and error log display command. (Factor->Facter, Apr->Apl)
		P806678	The setrci command dumps core on PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/600R,FUJITSU S series and GP7000S series.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		PG33125	The hrdconf command does not display the tape device other than "st" in PRIMEPOWER250/450.
		PG33369	The hcd daemon dumps core in the root directory on PRIMEPOWER250/450.
		PG28740	When the signal is received, the command termination might not be correctly executed on PRIMEPOWER250/450.
		PG28494	The hardware configuration information management daemon might dump core after executing PCI Hot-plug in PRIMEPOWER450.
		PG28496	The mark of "(sfdsk)" for the disk managed with SynfinityDisk or PRIMECLUSTER/GDS might not be displayed in hardwareconfiguration information, or the hardware configuration information management daemon might dump core in PRIMEPOWER250/450.
		PG27214	Some of mphd driver's error message cannot be detected in PRIMEPOWER650/850/900/1500/ 2500/HPC2500.
	Remote Support	PG31535	The hardware configuration information of new CPU(1.89GHz,2.16GHz) is supported.
		PG30430	The error generating count of CPU and memory is added to the statistics information notified to a REMCS center.
		P806683	A software configuration information may not be sent.
		P807255	HPC downloading function cannot be disabled.
		PG36802	When the system panic will occur on the PRIMEPOWER650/850, remote.conf file may be broken.
2.4.1	NGDR command	PG20488	Support for Dynamic Reconfiguration on PRIMEPOWER 900/1500/2500.
	SCF driver	PG14495	When the GP7000F Model 200/200R/400/400R/400A/600/600R and PRIMEPOWER200/400/600, the Fault LED control of extended file unit (PW007FL2/PW007FL2U) is supported in the diskadm command.
		PG22262	When the window is closed while executing DR operation from the terminal , panic might be done
		PG22264	In PRIMEPOWER900/1500/2500/HPC2500, the DR operation by the drc command might fail in the system board set in the XSB mode, and the display result of the drcstat command be displayed in the PSB mode.
		PG19875	There are a lot of memory utilizations of the fjprtdiag command when large-scale composing
		PG20070	When openeepr driver's patch 110918-04 is applied, the Performance of the fjprtdiag command is deteriorated.
		PG18784	The display result of fjprtdiag generates the column gap.
		PG18852	Fjprtdiag command outputs core.
		PG22671	Correction of fjprtdevice command according to PRIMEPOWER250 rackmounting type (4U) model addition.
		PG20708	Support of PRIMEPOWER250/450 DC model.
		PG20365	When the PRIMEPOWER250/450, command addition for Option data registration for OEM which is new function of SCF.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		PG18863	The display result of of fjprtdiag generates the column gap.
		PG18864	Fjprtdiag command outputs core.
		PG20704	When the PRIMEPOWER250/450, FANTRAY is made not to be displayed in the SCF driver message in abnormal circumstances of FAN.
		PG20706	When the PRIMEPOWER250/450, the setting is enabled at the watch time of SCF after it interrupts of REQUEST.
		PG20363	When the PW250/450, correction of SCF driver according to new addition of SCF support function flag.
		PG19874	In PRIMEPOWER250/450, when it is reported power failure, power restore, UPS failure, UPS low battery from excluding self device in the RCI composition, the message display is mistaken.
		PG19155	When the PRIMEPOWER250/450, Ebus time-out is generated by SCF reset.
		P805358	In PRIMEPOWER1/100, OS panic occurs when the interruption without the factor is generated.
		PG22265	When the window is closed while executing DR operation from the terminal, panic might be done.
		PG20050	Fjprtdiag command outputs core.
		PG20051	There are a lot of memory utilizations of the fjprtdiag command When large-scale composing.
		PG20073	When openeepr driver's patch 110918-04 is applied, the Performance of the fjprtdiag command is deteriorated.
		PG20336	In GP7000F Model 200/200R/400/400R/400A/600/600R andPRIMEPOWER200/400/600, "WARNING: FJSVscf: scf cmd (0x?) incomplete" is displayed on the console.
		PG22392	The PRIMEPOWER CoD function was supported forPRIMEPOWER900/1500/2500 Cod models.
	Sunvts, FJSVvts	4339802	disktest fails with multiple instances accessing same parity.
		4489875	disktest issues a timeout error if fun with multiple instance.
		4494434	VTS 4.5 device tree lists non-existent ssc100 device.
		4508028	netlbtest creates a tmpfile in local dir.
		4513810	ifbtest needs to allow for different sizes of display list memory.
		4513580	Timed out trying to get a lock on blocks.
		4494602	disktest on Monterey produces failure.
		4532672	ifb-lite+ sunvts "segmentation violation" while testing display.
		4519508	SunVTS 4.5 pmemtest missing ECC report and Section ID Option.
		4521847	The message that is received when a fan cannister or a power.
		4546447	sunvts 4.5 ifbtest fails on Serengeti with 4 IFB cards.
		4522835	Disktest does not achieve a pass with the 12 hrs profile for high config systems.

Version Level	Component	Correction number	Content of correction or Corrected Bug
		4508863	env5test.init_picl_sem.FATAL env /psvc_semaphore failed insem_open.
		4757224	pmemtest fails on systems with Solaris 8 kernel patch 108528-16(KU16).
		4641737	cputest missing if cpu-id >= 128.
	Machine Administration	PG22765	The new mode PRMEPOWER250 4U rack-mount type is supported.
		PG21851	Improvement of notification e-mail format in PRIMEPOWER250/450.
		PG21853	The REMCS function of extended System Control Facility (XSCF) is supported in PRIMEPOWER250/450.
		PG21863	When the log directory does not exist, the collection of log fails in PRIMEPOWER250/450.
		PG21864	The function to set the hostname of the SMTP server and POP server to extended System Control Facility (XSCF) is supported in PRIMEPOWER250/450.
		PG22891	The prohibition to invalidate Name Server Administration when some parameters is specified with Hostname on the extended System Control Facility (XSCF) Basic Configuration Administration in PRIMEPOWER250/450.
		PG22892	Improvement of the Mail Administration menu of the extended System Control Facility (XSCF) menu in PRIMEPOWER250/450.
		PG22893	Improvement of the error handling process for invalid character inputs on the extended System Control Facility (XSCF) Administration Menus in PRIMEPOWER250/450.
		PG22894	The extended System Control Facility (XSCF) SSH function is supported in PRIMEPOWER250/450.
		PG22764	Enhancement of the CPU offline function to display the retry out message in PRIMEPOWER250/450.
		PG23097	When the HCP not supported is registered, an invalid message is displayed in PRIMEPOWER250/450.
		PG23082	Enhancement of the error message monitoring for the PCI Hot Plug Controller in PRIMEPOWER250/450.
		PG23101	The function of the log collection might stop when CPU trouble happens frequently in PRIMEPOWER250/450.
		PG23213	Enhancement of the judgment logic of Standard Console port selection on the extended System Control Facility (XSCF)Console Administration menu in PRIMEPOWER250/450.
		PG22961	When network products other than TCP/IP are being used, hardware configuration information may be unable to be recognized correctly in PRIMEPOWER250/450.
		PG21637	When the error of BLASTBAND is detected, an unnecessary message might be displayed on a standard console in PRIMEPOWER250/450.
		PG21638	The save of log data might fail in PRIMEPOWER250/450.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG22168	In PRIMEPOWER250/450, the empty file of a meaningless name is generated, and updated every 6 hours.
		PG22228	After many hardware error logs occur, hardware error logs might not be collected in PRIMEPOWER250/450.
		PG22243	The hardware configuration information might not be recognized when a network product other than TCP/IP is used in PRIMEPOWER250/450.
		PG20369	Enhancement of the CPU offline function.
		PG20370	Performance improvement in trace log collection library.
		PG20364	The file to be saved by the savelogs command might be doubly saved.
		PG20366	Enhancement of function to detect replacement of unit by check on serial number.
		PG20367	Enhancement of function which synchronizes with state of unit of XSCF.
		PG20368	The DC power supply models of PRIMEPOWER250/450 are supported.
		PG20373	When the error of the I/O device is informed, SCSI-ID of the unit might be displayed by the hexadecimal.
		PG20349	Display order of the selection item is wrong in "Hardware Error Log" menu.
		PG20350	Enhancement of function to display log in order of time-stamped record in "Hardware error Log" menu.
		PG20351	Enhancement of function to refer to detailed log in "Hardware Error Log" menu.
		PG20381	Improvement of the firmware update menu.
		PG20380	Improvement of the condition of HCP update.
		PG20378	Improvement of the way of collection error (details) log.
		PG20384	Enhancement of command to update configuration information at hot swap.
		PG20385	Enhancement of the Hardware configuration display function.
		PG20498	The command to display the serial number of the server is supported.
		PG20511	Improvement of the hardware configuration information update processing after the OS is booted.
		PG20436	Information is not stored in madmtrace into detail log directory
		PG20492	Enhancement of the function of the error notification control
		PG20464	The error report of the disk is not correctly reported.
		PG20512	Improvement of the order and the item names in the Machine Administration menu.
		PG20513	Enhancement of the function to operate the CHECK-LED of the server.
		PG20514	Enhancement of the notification test function.
		PG20516	Enhancement of the function to collect CPU SK-history log.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG20518	Enhancement of the warning message at the prevention replacement.
		PG20544	The usage message of setfandly command is wrong.
		PG20542	Enhancement of Automatic Power-on Prohibition Mode after FPO(Forced Power Off).
		PG20617	The CPU SK-history logs are not collected at the shutdown.
		PG20579	Improvement of function: When transfer of hardware error log information from XSCF was interrupted due to any reason, such as panic of system, Enhanced Support Facility will repair interrupted information during next starting up and store it to normal logging space.
		PG20608	An unnecessary detailed log might be displayed in the Hardware Error Log menu.
		PG20610	The input of a specific character might not be accepted in the Hardware error Log menu.
		PG20589	The improvement of the extended System Control Facility (XSCF) Administration menu.
		PG20629	The error message of the scfsnmp command is wrong.
		PG20618	Can not read the output from child processes.
		PG20680	Correction of message of "Read-only console" in the extended System control Facility (XSCF) Administration menu.
		PG20681	When informing of the error detected by XSCF, the function of the error notification control does not work correctly.
		PG20682	Enhancement of function to control syslog output about the notification of the error which XSCF detected.
		PG20709	The validity check on the address of the SNMP server might be wrong.
		PG20710	The same address setting check of the SMTP server might be wrong.
		PG20718	Enhancement of function of PHP in configuration information display.
		PG20719	Information of CPU might be wrong in configuration information display.
		PG20721	When illegal status is read, the hrdconf command dumps the core.
		PG20722	Improvement of message about the function of the error notification control.
		PG20909	Improvement of message when factor is CPU in Power Log menu.
		PG20917	Confirmation article of Notification Test is added to the help message.
		PG20818	Hardware Error Log might be terminated by program error.
		PG20881	The hardware error log might not be stored.
		PG20984	Explanation of unit is added to the help message.
		PG20986	The status of Machine Administration and XSCF might not be synchronized about PSU.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG20987	In the PRIMEPOWER250 pedestal type, the number of FAN displayed by the hot swap guide is wrong.
		PG20809	Help-documents correction about SNMP setup of SCF configuration menu.
		PG20826	Internal command error message correction about XSCF configuration menu.
		PG20956	Help-documents and message correction about XSCF configuration menu.
		PG21084	In the error notification, the unit number might be wrong.
		PG21041	The error notification of an environmental error is not controlled.
		PG21042	The notification to the REMCS center might be wrong.
		PG21181	The processing of the menu might not stop when the RCI reconfiguring fails.
		PG19639	When configuration information is displayed with the server which connects the SDU device, the same SDU device might be displayed two times
		PG19669	The error of exchanged parts cannot be detected at the hot swapping in "Management of Hardware Error Event" menu.
		PG19681	"Error detection stop" command is not reissued when you type "ok" after the count passes of 300 seconds in the "Power Supply Unit of Main Cabinet" menu of the Hot Swapping menu.
		PG19682	"FEPFAN status" is displayed in the index of the state column in the "Power Supply Unit of Expansion Cabinet" menu.
		PG19683	The message in the Hot Swapping menu might cause the mislead that the input of Cancel is recommended than the input of OK.
		PG19570	The prevention management of miss-configuration of the Standard Console.
		PG19672	Name change of "Host Name" setup menu.
		PG19676	Deletion of the function of SNMP access mode selection.
		PG19698	In the Remote Customer Support System (REMCS) Setup menu, the device serial is displayed by the decimal number.
		PG19774	The error notification mail and the syslog report is wrong.
		PG19809	The state of the list after the hot swapping might be different From the state of the hardware configuration display.
		PG19805	The help message of the machine Administration menu is incorrect.
		PG19808	The help message of the Power System Administration menu is incorrect.
		PG19807	The procedure when unmounted parts are section is not described at the help message of " Power Supply Unit of Main Cabinet" menu in the "Hot Swapping Guide".
		PG19800	The longevity of the fan and the battery which the Machine Administration monitors might not be notified.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG19797	In configuration information, detailed information of tape drive might not be display.
		PG19796	Updating of configuration information might be slow.
		PG19804	The user account registered by the extended System Control Facility (XSCF) Administration menu cannot log in XSCF.
		PG19680	When the addonflush command is executed, the daemon of the Machine Administration does not work correctly.
		PG19811	The help message of the Management of Hardware Error Event menu is incorrect.
		PG19813	The mirroring disk of the Synfinity Disk might not be correctly displayed by configuration information.
		PG19783	The function to specify and display the XSCF shell access keyword are added.
		PG19784	The number of SMTP server and Name server of XSCF Administration menu is changed.
		PG19778	The help message of the Enable mail Report (and Setup) menu is incorrect.
		PG19779	An input error is taken again by the re-input after the input error by XSCF user configuration.
		PG19780	The user name which is the sub-string of the existent user name can't be added by XSCF user configuration menu.
		PG19781	A screen transition is incorrect on the setup menu of the SNMP trap of XSCF.
		PG19818	A screen transition is incorrect on the setup menu of the Port Access of XSCF.
		PG19819	Previously set "Completion time" does not recovered when "q" is inputted in "Specification of Time" of "Hardware Error Log" menu.
		PG19867	In the Management of Hardware Error Event menu, the fan of SDU driver cannot be retrieved by specifying types of parts.
		PG19910	When Restoring Hardware Monitoring Information is executed the function of the SIRMS might not work correctly.
		PG18615	All users might be able to write the file made by the Machine Administration.
		PG19289	The spelling of "Vendor" is wrong in the hrdconf command.
		PG19295	Some commands to have permitted a general user to use do not work by general user authority.
		PG19302	The search function of the Management of Hardware Error Event menu does not work correctly.
		PG19303	The check on the input character does not work correctly in the Host Name Configuration of extended System Control Facility(XSCF) Administration menu.
		PG19304	The longevity notification mail is not transmitted.
		PG19305	The setpwrmode command displays the setting which are not supported in PRIMEPOWER250/450.
		PG19308	The message in the Hardware Error Log menu is wrong.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG19311	The Setting Monitoring Notification Information menu does not work.
		PG19319	When information on an abnormality of battery is reset, the longevity time is also reset.
		PG19322	The error notification mail is not sent to maintenance personnel.
		PG19334	The SMTP server setting is not work correctly in the extended System Control Facility (XSCF) Administration menu.
		PG19335	The HCP Administration menu changes the SCF bank even if the SCF firmware is not updated.
		PG19353	The SCF firmware version is not displayed correctly in the Hardware Configuration Display menu.
		PG19354	The CPU information is not displayed correctly in the hrdconf command.
		PG19356	The positional information which is informed to XSCF was wrong.
		PG19423	The mail address and the memo might not be able to input even the regulated number of characters in the Setting Monitoring Notification Information menu.
		PG19425	The error notification of the RCI node is not displayed correctly.
		PG19426	The status of the FAN and the PSU might not be correctly displayed in the Hot Swapping Guide menu.
		PG19427	The set object device is not displayed in the Setting the External Equipment Wait Time menu.
		PG19428	The setwarmup command cannot be executed.
		PG19429	When longevity of the disk and the tape is notified, the error Unit might not be correctly informed of.
		PG19430	The Fault LED is not displayed in the configuration information.
		PG19431	When two or more PCI cards with the same driver name and without instance number are installed, the configuration information is not normally displayed.
		PG19432	The menu might loop infinitely in the extended System Control Facility (XSCF) Administration menu.
		PG19294	The error was set both of the PCI card and the hddv device when the hddv device was defected.
		PG19477	When the battery is registered, the longevity is not reflected in configuration information.
		PG19440	The configuration change processing loops infinitely when the madmdb file is broken.
		PG19444	When the correctable error occurred at the UPA bus, the report message might be different from the manual.
		PG19429	At the error notification or the longevity notification of the I/O device, the indicated part is not occasionally informed of by a correct format.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG19560	The error mark set in the past is overwritten at the error notification of the I/O device.
		PG19561	The log of the error notification of Synfinity Disk cannot be detected by using the filtering functions of parts in Hardware Error Log menu and Management of Hardware Error Event menu.
		PG19562	The content of the message is improper in the Management of Hardware Error Event menu.
		PG19448	A part of temporary file used in the machine administration might not be erased.
		PG19442	The message notified from SCF were not stored in the machine administration monitoring log.
		PG19473	The error log list might be displayed in the Hardware Error Log menu instead of detailed information.
		PG19572	The item of the subcommand not supported is displayed in usage of setrci.
		PG19571	There is a misprint in usage of setexwait.
		PG19573	The screen update is too fast after the left count becomes 0seconds at the hot swapping of FAN/PSU in the Main Cabinet.
		PG19489	When the log of the firmware update history display overflows from one screen, the log cannot be displayed.
		PG19529	When the Auto-disconnect function of XSCF is registered, the connection to SCF LAN temporarily becomes interrupted.
		PG19528	The unit of the character is improper in the XSCF Administration menu.
		PG19527	When the host name is initialized in the Host Name Configuration menu of XSCF Administration, it becomes "-"
		PG19509	After the input is mistaken, the re-input is not correctly checked in the Host Name Configuration menu of XSCF Administration.
		PG19570	A standard console cannot be used when switching from the serial port to LAN port without correctly setting SCF LAN in the Select Standard Console menu of XSCF Administration.
		PG19565	When some PCI-CARDs of which the component-name property is different exist under U2P, Hardware Configuration is not correctly displayed.
		PG19566	The node name of degenerated CPU is not displayed by the hrdconf command.
		PG19567	The cash size of CPU might not be correctly displayed in the hardware configuration information.
		PG19568	The error mark might not be added to the degenerated memory in the hardware configuration information.
		PG19950	The function to extract the log file was supported.
		PG20387	Enhancement of function to display error message in the inst2comp command.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG18684	Disk firmware updating fails when the Ultra320 SCSI card is used.
		PG19575	PW028SY1 was supported.
		PG21929	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, the notification processing of the CPU abnormality might be delayed.
		P805293	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, the empty file of a meaningless name is generated, and updated every 6 hours
		P805737	After a certain period passes, the evsndd daemon dumps core or loops infinitely in GP7000F Models 1000/2000, PRIMEPOWER800/1000/2000.
		PG24788	PRIMEPOWER650/850 DC power input model supported.
		PG24934	The normal CPU is offlined on PRIMEPOWER650/850 with SPARC64-V model.
		PG24941	If the FAN unit failure occurred, Set wrong mark to FEP on PRIMEPOWER650/850.
		PG24014	Check CPU offline function at system boot and each 1hour added.
		PG24015	Add CPU offline fail message output.
		PG24016	The memory correctable error message level changed WARNING to ALARM.
		PG24017	The HPC3130 configuration display is wrong on PRIMEPOWER2500/HPC2500.
		PG24018	The SB(System Board) interleave information is wrong on PRIMEPOWER2500/HPC2500.
		PG23831	CoD(Capacity on Demand) illegal use message not reported to SMC(System Management Console)
		PG22907	In Cluster environment, When network products other than TCP/IP are being used, hardware configuration information may be unable to be recognized correctly.
		PG22622	The Console message "_DNFAN not found in/var/opt/FJSVmadm/etc/madmdb" displayed at system boot.
		PG22595	DN42 file unit supported.
		PG22594	Even if it makes a System Board configuration change by DR(Dynamic Reconfiguration), the old configuration is displayed by machine administration hardware configuration display menu.
		PG22295	After a certain period passes, the evsndd daemon dumps core or loops infinitely.
		PG22365	The empty file of a meaningless name is generated, and updated every 6 hours.
		PG22001	When network products other than TCP/IP are being used, hardware configuration information may be unable to be recognized correctly,
		PG21543	The CPU offline succeed message displayed when offline fail.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Machine Administration	PG21137	The environment save/restore fail in Live Upgrade.
		PG20944	The command to display the serial number of the server is supported.
		PG20945	Enhancement of the function of the error notification control.
		PG20946	Enhancement of the function of PHP in configuration information display.
		PG20947	Information of CPU might be wrong in configuration information display.
		PG20950	Enhancement of command to update configuration information at hot swap.
		PG20195	Cannot connect to stand-by SMC(System Management Console) on SMC redundant system.
		PG20048	The Hardware Configuration display menu may be fail onPRIMEPOWER2500
		PG20047	The cpucomponent command takes long time.
		PG19848	The hrdconf command takes long time.
		PG19349	The "Setting Monitoring Notification Information" sub-menu in The Hardware Monitoring menu may not open.
		PG19235	At the time of the unusual detection with unknown Failure Unit, Failure Unit is displayed as detection CPU.
		PG19234	The display of PCIBOX may not be performed in the hardware configuration display of PRIMEPOWER650/850.
		PG18254	The setmadmdb command dumps core, when unit entry deleted from Machine Administration database.
		PG18040	The SPARC64-V peculiar function (kernel message, CPU type code addition , CPU offline) supported.
		PG22597	In GP7000F Model200/200R/400/400R/400A/600/600R, the getmodelcode command terminates abnormally, and the model might not be judged correctly.
		PG22380	In PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/600R, FUJITSU S series and GP7000S series, the empty file of a meaningless name is generated, and updated every 6 hours.
	Remote Support	PG21780	Periodical connection time might not be displayed in the REMCS Environment menu under english environment.
		PG20806	Point-to-Point(VPN) connection is supported.
		PG20807	Enhancement of the function to do Periodical Connection everyday is supported.
		PG20808	Save and load of registration data is supported.
		PG21054	Enhancement of the menu message.
		PG21055	Enhancement of the help message.
		PG21080	"Update" is appended to menu which is displayed after load of registration data.
		PG21164	Core file is generated after load of registration data.
		PG17213	Internet connection (Mail Only) and POP before SMTP are supported. Error message is enhanced.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Remote Support	PG19583	The redundant configuration of System Management Console is not supported.
		PG20093	The frequency of the CPU of PRIMEPOWER200/400 supports the display of system board of 800MHz type on the Vconfig screen of WebSysAdmin(WSA).
		PG20492	Enhancement of the function of the error notification control.
		PG20658	The multithread unsafe functions are used.
		PG21773	New feature is appended for REMCS report via XSCF.
		PG21842	Address and building for the machine are appended to registration data.
		PG22267	When 'q' is selected, next menu displayed is depending on connection type
		PG22268	Information for user authentication of SMTP is not saved at creating upload-file.
		PG22284	Message improvement. When the setting is invalid, should not ask to 'change' it.
		PG22314	Some items are written to registration file as #%NUL%# if they are invalid.
		PG22520	Mail Address is not checked whether it contains '@' in the middle.
		PG22601	Space character is not accepted for the password.
		PG23135	Next registration fails when site-server is changed twice.
		PG22112	Difference of software configuration is not reported until next power-on.
		PG21767	Connection time is not displayed when periodical connection is everyday.
		PG21300	Sender E-mail Address is broken.
		PG20396	Error message are appended for save and load of registration data.
		PG20427	CPU's type, serial number and version are appended to the machine information.
		PG20468	Core file is generated when broken registration data (Length is zero) is loaded.
		PG20636	At loading of registration data, data area remains allocated.
		PG20637	Internal area is broken when length of the name of registration data file is over 64.
		PG20638	Ask (y,n,q) when the registration data can be loaded.
		PG20639	Improvement of help in the menu of selection of Connection Type.
		PG20672	Can not read environment data when connection type was Point-to-Point Connection(VPN).
		PG20937	New feature is appended for everyday periodical connection.
		PG20940	New feature is appended for save and load of registration data.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Remote Support	PG20942	New feature is appended for connection via VPN router.
		PG19907	PCI Component Name in the machine information is null string.
		PG19914	CPU Mask in the machine information is zero.
		PG18350	Password for user authentication of SMTP is displayed.
		PG19547	Temporary file is left after package remove.
		PG22200	The location information of the PCI card in the hardware configuration information sent to the REMCS Center is worng.
		PG21819	Connection time is not displayed when periodical connection is everyday.
		PG21301	The contents of registration data may break.
		PG19219	The host name of the host name displayed column of a REMCS center web may not be displayed correctly.
		PG20632	New feature is appended for everyday periodical connection.
		PG20633	New feature is appended for save and load of registration data.
		PG20634	New feature is appended for connection via VPN router.
		PG18792	The country name in the customer information may be displayed with 99 at Registration.
		PG18793	There is a security vulnerability of the POP password saving at the Registration.
		PG18827	The multithread unsafe functions are used.
		PG18829	Correction of the CPU type code within the hardware configuration information sending to the REMCS Center.
		PG20053	Customer information and Environmental setting information carrying -about function and P-P(VPN) connection are not supported.
		PG21258	When the division mail is transmitted with two or more devices at the same time, E-mail might not be able to be received normally at the center.
		PG16899	Because protocol to which RFC does not conform is used, mail might not be able to be transmitted correctly.
	Auto Power Control System	PG21595	A Automatic power control on PRIMEPOWER1500/2500 systems stopped by the performance problem of SCF.
	Server Default Configuration	PG19738	SCF might be not informed of system panic in the event of request switch or dump request from the System Console.
	Auto Dump Analyze Tool	PG21049	The following message might be displayed on the System Console during booting after panic. "scrash: ioctl TIOCREMOTE failed"

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.4.1	Reliability Driver	PG23541	soft interrupt stops, which will stop the console output and other processes later.
		PG20212	output of console stops and shutdown will be hung.
		PG20231	synchronous communication via standard serial port fails.
		PG24943	If a system board is connected by Dynamic Reconfiguration, panic may occur.
		PG25851	Disconnetion of the system board by the Dynamic Reconfiguration may fail.
		PG25846	If a system board is connected by Dynamic Reconfiguration, panic may occur.
		PG25852	Disconnetion of the system board by the Dynamic Reconfiguration may fail.
	HCP	PG23203	Patch data corresponding to HCP0501
2.3	Machine Administration	PG13550	The contents of Setting Monitoring Notification Information will be reflected in a Setting Battery Life Notification
		PG13551	The add-on detection error message of hddv may be missing
		PG13554	The Status of ETHERNET#0 on SCFA#0 and ETHERNET#0 on SCFA#1 indicate ALARM when ETHERNET#0 on SCFA#0 error detected
		PG13556	The setexrdy command fails when external power supply control device (RCIC) in INACTIVE (power off) state.
		PG13557	The list of RCI devices not updated after RCI network configuration or initial-configuration
		PG13558	The Domain creation is not permitted from WebSysAdmin
		PG13559	The PCIBOX connected SB#1 not displayed by hrdconf command
		PG13560	The notation methods differ [the check message of FirmUpdate] in Japanese and English
		PG13573	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, when the partition of the multiprocessor environment boots OS, the evsndd daemon might hangup. Therefore, the boot sequence might stop.
		PG13991	The RCI address in error message of another node panic is always 0
		PG14128	Monitoring the external file unit(PW007FL2/PW007FL2U) was supported.
		PG14705	The console display message is not compatible to other PRIMEPOWER series.
		PG14793	Cannot get System Console Software REMCS status from Enhanced Support Facility Machine Administration
		PG14794	The Disk firmware update by remote host failed
		PG14795	It guarded so that a prtpwrlog command could be executed only by the model which can operate.
		PG14796	The getmodelcode command supports all PRIMEPOWER models
		PG14797	The hardware error log and report log save for 1 entry fails
		PG14870	The error notification by mail does not work from System Console in the model with a System Console.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.3	Machine Administration	PG15042	The abnormal temperature monitoring function was supported on PRIMEPOWER1/100/200/400/600, GP7000F Model200/200R/400/400R/400A/600/600R.
		PG15048	System boot stop by Machine Administration RC command not return
		PG15170	The additional kernel message support
		PG15171	The DDC(DC-DC Converter) type displays at hardware configuration menu and failure messages
		PG15436	The sfdsk(mphd) message of the failure unit wasn't reported, the wrong driver message of the failure unit reported when the sfdsk(mphd) message and the driver message reported at the same time.
		PG15437	When the error message of the disk driver is added and monitored, the disk under the control of SynfinityDisk is monitored.
		PG15685	The all abnormality may not be reported normally when more than one monitoring of abnormality occurred in a short time.
		PG15766	Fan unit of main cabinet of another host of RCI-connected is observed by monitoring of fan unit of expansion cabinet.
		PG15816	The getmodelcode command supports new PRIMEPOWER models
		PG15817	It is not connectable with the standby side in the System Management Console redundantly setup
		PG15818	The CPU frequency display value of hardware configuration display menu is not correctly
		PG15835	When the error message of the disk driver is added and monitored, the disk under the control of SynfinityDisk is monitored.
		PG15856	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, The redundant SMC function is supported.
		PG17315	The sfdsk(mphd) message of the failure unit wasn't reported, the wrong driver message of the failure unit reported when the sfdsk(mphd) message and the driver message reported at the same time.
		PG17316	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, information is sent only to Service SMC in the Hot Spare SMC.
		PG17319	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, when the command by which SMC is set is executed, it executes the shareall command.
		PG17324	On PRIMEPOWER800/1000/2000, GP7000F Model1000/2000, the hrdconf command might display wrong information on a disk.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.3	Remote Support	PG13058	Software configuration information may not be sent to REMCS center.
		PG13315	The Periodical Connection may not be made.
		PG13317	An error code may not be displayed on the error message at the failing time of connection check.
		PG13318	Statistics information may not be notified.
		PG13319	The error output of a "cat" command may be displayed on the console.
		PG13932	The registration may be failed and a core file is created at the root directory.
		PG14677	The REMCS reported message is not compatible to other PRIMEPOWER series.
		PG15554	Can not registration from Management Server.
		PG15767	The mistake might be found in information on next Periodical Connection Schedule of Periodical Connection event information to the REMCS Center.
		PG15768	The mistake might be found in information on code of customer information to the REMCS Center.
		PG18593	The mistake might be found in information on code of customer information to the REMCS Center.
	Crash Dump Assistant	P804853	Access is impossible from a client node to a share file system after Execution of the fjdmpadm and scslset commands.
	CPU Patrol Diagnosis	PG13776	An unnecessary message may be displayed when the LANG environment variable is "ja" on Solaris 9 OS.
2.2	Web-Based Admin View / WWW Server for Admin View	PG10309	Menu which cannot be selected exists even if user logins as wvroot group.
		PG10310	Command execution processing may stop in JavaVM.
		PG10311	Phraseologies different from other screen on Environment setup screen is corrected.
		PG12175	When an illegal request was sent while connecting with WWW Server for Admin View, the content of the displayed error message is wrong.
	*SCF driver	PG10648	When abnormality such as FAN/FEP occurs with the external unit such as FDE connected on RCI, neither the part name nor the part number are output to *SCF driver's WARNING message.
		PG11623 PG11723	Scfctlbrk command support.
	SunVTS, FJVTS	PG12533	When there is a cpu which status is "no-intr", the FJVTS will be core dumped by invoking it.
	Machine Administration	PG12314	The machine administration hardware configuration display of PCI disappears PP028GE1 or PW008QE1 at PP028GE1 and PW008QE1 both installed system.
		PG12316	The Machine Administration error report message might not point out the failure unit.
	Remote Support	PG11806	A software event may not be sent to REMCS center.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.2	License Manager	P803908	When the name service has stopped, the license manager is started or stopped slowly.
	Reliability Driver	PG12200 PG12694	The drc command stops on the connection script FJSVse and doesn't return.
		P804182	"WARNING: interrupt level 4 not serviced" is displayed.
2.1	*SCF driver	P803604	When X1141A card is installed, and "drcstat -device" is executed, the device of hme and ge might be displayed duplicatede.
	Machine Administration	PG10380	The machine administration misunderstands FAN/FEP mounting data on PRIMEPOWER650 and 850.
		PG10382	The Hardware error information is not set at FAN/FEP/PCIBOX on PRIMEPOWER650 and 850.
		PG10383	Error indication of PCIBOX displays another PCIBOX on PRIMEPOWER850.
		PG10384	Error indication of PCIBOX can not be disappeared after it maintained on PRIMEPOWER650 and 850.
		PG10405	User who is not belonging to the root group can't display "Hardware Configuration" in the CUI menu.
		PG10580	Error indication of FAN/FEP can not be disappeared after it maintained on PRIMEPOWER650 and 850.
		P803654	The herdconf command may display incorrect hardware composition after changing the system configuration by Dynamic Reconfiguration.
	Auto Power Control System	PG09849	Warning message three minutes before the shutdown may not be displayed.
2.0	*SCF driver	P803424	Even if a UPS is reconnected after momentary power failure, it is likely to be shutdown.
	SunVTS, FJVTS	PG07857	When the fjswutest is executed, a core dump may be generated.
	Machine Administration	PG06692	The hrdconf command dumps core when the system has many disk instances.
		PG06714	The hrdconf command dumps core when the system has many disk instances.
		PG06724	When an abnormal report to the REMCS center happens frequently, a report omission might be generated.
		PG06904	On PRIMEPOWER1/100/200/400/600 and GP7000F Models 200/200R/400/400R/400A/600/600R, a message that is not the watch object is observed.
		PG07158	The Machine Administration might generate an incorrect message error , when two or more messages occur at the same time.
		PG07201	A fibre channel card error might not be generated.
		PG07202	The Machine Administration might generate an incorrect error message, when two or more messages occurred at the same time.
		PG07214	A fibre channel card error might not be generated.

Version Level	Component	Correction number	Content of correction or Corrected Bug
2.0	Machine Administration	PG07540	When abnormality occurs in the main Cabinet FAN, an unnecessary message of ″test: argument expected″ is displayed on the console.
		PG07653	The hrdconf command displays ″GP7000F″ as the series name for PRIMEPOWER800/1000/2000 when the product ID starts with ″PW″.
		PG08308	The Machine Administration may inform of a panic though kernel does not panic.
		PG07909, PG08309	The Machine Administration displays a normal disk as in error, when the RAID controller of the other path fails.
	Remote Support	PG06589	The menu screen of Software Investigation Information Collection is corrupted.
		PG06721	A mistake is found in the abnormal report format sent to the REMCS center.
		PG06723	HW configuration data to which the CD-ROM configuration is changed when the disk configuration is changed might be notified to the REMCS center.
		PG06727	After setting of REMCS environment, an Http Proxy password may become invalid..
		PG06772	When Remote Setup menu is executed in an English environment, a mistake is found in the displayed message.
		PG06917	Temporary file sometimes found in root directory when connection confirming failed.
		PG07046	Periodical Connection Time is not correctly set when setting or changing Periodical Connection Time on the change day for summer time/daylight saving.
		PG07536	A mistake might be found in information on FEP or FAN of HW configuration data notified to the REMCS center when a FEP or FAN abnormality occurs.
		PG07537	A mistake might be found in information on the memory of HW configuration data notified to the REMCS center.
		PG07538	A mistake might be found in information on the CPU of HW configuration data notified to the REMCS center.
		PG07539	Information on DISK of HW configuration data notified to the REMCS center might be missed.
	System Data Output Tool	P803159	Information output by prtdiag command might not be collected.
	Reliability Driver	PG05363	In a system in which the console path is made redundant, if a change occurs due to path abnormalities , the console display under reboot will not be carried out.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.8	Machine Administration	PG05054	An unnecessary message might be displayed on the console after the system panics.
		PG05154	The part of the message that indicates possible error locations(SCSI ID) may be incorrect in the tape cleaning notification.
		PG05163, PG05250	When you terminate the terminal or log out while running the Machine Administration menu, the menu loops in the background for awhile, in some cases, a core dump might be generated.
		PG05164, PG05255	When an error message is detected continuously on the same kind of I/O devices, the Machine Administration may not identify the unit correctly.
		PG05165	When system time is changed by the date command, the evsndd cannot communicate with a System Management Console normally.
		PG05166	When the evsndd is started multiple times, a core dump is generated.
		PG05056	Moving a tag on the Machine Administration GUI menu may cause the GUI menu to enter an abnormal state.
		PG05254, PG05641, PG05646	The Machine Administration GUI menu might terminate abnormally when characters such as ″!″, ″(″, and ″=″ are input.
		PG05642	Typographical errors may not be pointed out even if a nonexistent character string is input on the Machine Administration CUI menu.
		PG05643	The evsndd might not inform the system administrator of its status by mail when cutting communication with a System Management Console.
	Remote Support	PG05490	An error message may not be reported to Fujitsu Support Center even in the case of a system panic.
1.7.1	Machine Administration	PG04395	An unnecessary message might be displayed on the console.
1.7	*SCF Driver	PG00679	*SCF driver does not control twenty four or more RCI devices. In this case, the rciinfo command indicates ″0″ to each subsequent RCI device.
	SunVTS, FJVTS	PG02477	The fjvts command cannot be executed on Enhanced Support Facility 1.5 or 1.6 in the following conditions when: • The system is Solaris 7 OS or later. • Only 32-bit kernel has been installed.
	Machine Administration	PG02568	The error message displayed on the console does not have a device name when device degradation occurs during system initialization.
		PG02570	The Machine Administration does not detect a single-bit memory error on PRIMEPOWER1.
		PG02567	When using Saving the Log Data, the message ″Hit return key″ is displayed twice.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.7	Machine Administration	PG02596	The prtpwrlog command returns the value other than "0" even if the command has completed successfully with the -x option.
		PG02374	When using Saving the Log Data, the message "The file has already exist " is displayed twice if the file name already existed.
		PG02435	When using Saving the Log Data, specifying a file name with a relative path name causes to save the file is relative to the root.
		PG02276	On PRIMEPOWER and GP7000F Models 200R/400R/400A, the abnormal state of the CPU degradation displayed in the Hardware Configuration of Machine Administration is not reset even though the system is rebooted.
		PG01956, PG02484	The guidance "To specify more than one, use a comma to delimit the number such as 1,2." displayed on the menu is incorrect when using Saving the Log Data.
		PG01957, PG02487	An unreadable message is displayed on the Disk Firmware Administrator Menu when an error occurs.
		PG02274, PG02485	Even though an incorrect parameter is input, the subsequent steps request you to input the file name you want to save when using Saving the Log Data.
		PG01863, PG01857	The hardware error is not notified even if it occurs on the array disk unit(GR730 or GR740).
		PG02280	Some of *SCF error codes may not be recorded in the Power Error Log.
		PG02130, P802357	Depending on the timing of cutting and reconnecting, the "DOWN" state may be displayed on the host selection window of GUI even if the node is normal.
		PG01953	The items and the contents that indicate the battery status and life have reversed on the Adding Battery Life Information of GUI.
1.6	Machine Administration	PG00766	The menu or the command usage represented on the display is incorrect.
		PG00767, PG00771	Machine Administration does not detect any error message related to the new SCSI adapter device(LVD).
		PG00768	The RCI address may be set to the initial value on the host selection window of Machine Administration even if it has been set.
		PG00769	Letters for "ErrorCode:0x8046000" are not displayed on the *SCF error log display of Machine Administration.
		PG00924, PG00989	The hardware error is not notified immediately even if the kernel and driver error messages are detected. In the event of shutting down the system, the kernel and driver error messages may be lost.
		PG00933, PG01000	In the monitoring of disk, tape unit, fan, power supply unit, and battery life, all of their information may not be notified even if two or more units are under the report conditions.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.6	Machine Administration	PG00851, PG00850	The degradation of the array disk unit(GR720) components is not reported.
		PG00951, PG01248	The top menu does not appear when "t" is selected on the Disk Firmware Administrator Menu of Machine Administration.
		PG00999, PG00925	Some configuration data is not restored when Enhanced Support Facility is reinstalled.
		PG01029, PG00977	The date based searches are not performed correctly when date condition is specified two or more times on the CUI Log Data Menu of Machine Administration.
		PG01088, PG00976	The part of the message that indicates possible error locations may be incorrect when the WAN adapter error occurs.
		PG01114, PG00975	The setpwrmode command confuses EPCREIPL and POFFRCV when displaying and setting EPCREIPL.
		PG00766, PG01271	Wrong message is displayed on the Machine Administration menu and command usage.
		PG01234, PG01272	The syslogd error message may be displayed when shutting down the system.
		PG01236, PG01273	The host name may not be displayed on the Host Selection window of the Machine Administration GUI menu after updating Enhanced Support Facility.
		PG01008	The function for setting up IPL signal of RCIC that is not supported on the unit can be available by using the Machine Administration menu and commands.
		PG01025	Illegal characters may be displayed on the power log display of Machine Administration.
		PG01096	"Saving the log Data" on the Machine Administration CUI menu becomes abnormal.
		PG01188	The following file may remain illegally even if Machine Administration has been uninstalled. /opt/FJSVmadm/lib/regist.bin.bak
		PG01191	The part of the message that indicates possible error locations may be incorrect when a SynfinityDisk error is detected.
		PG01192	The power supply unit fan(FEPFAN) that is monitored by the Machine Administration is displayed with a maximum delay of 24 hours.
		PG01220	Reset of tape unit monitoring information and setting of tape unit monitoring notification cannot be made on the Machine Administration menu.
		PG01263	The hot-swapping of FAN#14 cannot be made on PRIMEPOWER400.
		P802362	The evsndd daemon may output a core dump if the communication with System Management Console failed on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.6	Machine Administration	P802347	The shutdown command may be ineffective if the communication with System Management Console failed on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.
		PG01247	The power supply linkage mode that is not supported on PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 can be set.
	System Data Output Tool	PG00799	The fjsnap command may be executed while it is being executed.
	License Manager	P802190	FLEXlm license daemon sometimes fails to start when the node name takeover of 1:1 standby is set with SynfinityCluster system.
1.5	*SCF Driver	PE14351	*SCF driver shuts down a system when a permanent error of *SCF hardware/firmware occurs.
	SunVTS, FJVTS	PE14523	The following error related to the semaphore occurs while the fjbcdrtest or fjwpcdtest commands is running for a long period of time. SUNWvts.fjwpcdtest.function_test.8009 12/28/99 01:53:32 fjwpcdtest pc2c-00 FATAL:"semop failed. Resource temporarily unavailable"
	Web-Based Admin View / WWW Server for Admin View	PG00532	The system status may become abnormal or the correct data for investigation may not be collected in the following conditions when: The system is Solaris 2.6 OS, Solaris 7 OS, or Solaris 8 OS. Enhanced Support Facility 1.4 has been installed. The management server is accessed from the clients to use Web-Based Admin View.
	Machine Administration	PE14273	Machine Administration sometimes continues the increasing of management log files infinitely.
		PE14484	The actual system condition is not displayed correctly on the power log display.
		PE14534	The hard disk hot-swapping may not be made.
		PE14608	In the hardware monitoring information notification setting, the display of the notification destination has reversed in the English mode.
		PG00302	Because the tape cleaning monitoring of Machine Administration conflicts with the tape device opening of another application during system start-up, the application may terminate abnormally.
		PG00303	The errors may be displayed on the console once every 24 hours when a RAID device is connected.
		PG00304	The serial number of the disk is not displayed in the hardware configuration display.
		PG00305	There is no message on the memory information display menu even when the memory error occurs.
		PG00320	FAN#12 or FAN#13 seem to not be mounted on GP7000F Models 400A and 400R in the configuration information notified the REMCS center.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.5	Machine Administration	PG00332	On GP7000F Models 200, 200R, 400, 400R, 400A, 600, and 600R, the REMCS agent menu terminates abnormally in the following conditions when: • The locale is set to C. • Set the MODE switch to MANUAL. • Select the maintenance end.
		PG00370	The hardware error is not notified even if it occurs on the hddv disk connected with the fiber channel.
		PG00410	In the fan life monitoring, FEPFAN which does not exist on GP7000F Model 200 is added.
		PG00412	The Power Recovery Mode setting by the setups command is not validated.
		PG00419	Unusual behavior may be caused by inputting a special character string in the REMCS agent menu.
		PG00420	The message of the report mail by which the error is detected by SynfinityDisk becomes abnormal.
		PG00485	The Machine Administration menu terminates abnormally when a character string containing a space character is input into a field on the top menu.
		PG00487	Battery or fan information can be registered by the setbattlife or setfanlife commands even if the identification number is not specified.
		PG00488	The setpwrmode command fails to display the state of EPCREIPL.
		P801826	When the prtmsglog command is executed, a core dump may be generated.
	Auto Power Control System	P801928	When the environment variable "LC_ALL" or "LC_MESSAGES" is set, Auto Power Control System sometimes fails to set the shutdown schedule.
		P801941	When cron daemon has been stopped, Auto Power Control System respons no error while you set the schedule.
	System Data Output Tool	PG00391	For security measures, the system information that a non-privileged user collects with the fjsnap command is changed.
1.4	Enhanced Support Facility Information Management	PE14127	If the esfadd(bseadd) command failed to install this software, the esfrm(bserm) command fails to remove.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.3	Web-Based Admin View / WWW Server for Admin View	PE13587	The directory permission of /opt is changed to "755" after installing FJSVwvcnf package.
		PE13588	The directory permission of /opt is changed to "755" after installing FJSVwvbs package.
	Machine Administration	PE13059	SCF-HALT log is not got in the following conditions when: • The SCF-HALT log has been recorded. • The log data is saved by using the "Saving the log Data" menu.
		PE13708	The fan life is not notified correctly on GP7000F Model 600R.
		PE13709	The detailed information of memory configuration error log is not displayed correctly on GP7000F Model 200R.
		PE13712	The preventive replacement of memory and U2-cache detected by the POST is not notified.
1.2	*SCF Driver	PF47443	The unit number of the warning message is incorrect when power supply unit failure occurs on Expansion Disk Cabinet and Expansion File Unit.
		PF47444	*SCF driver sometimes confuses *SCF HALT for *SCF OFFLINE and *SCF OFFLINE for *SCF HALT.
		PF47471	*SCF driver does not report "System Running" after *SCF OFFLINE occurs.
	SunVTS, FJVTS	PE12304	The FJVTS menu becomes abnormal and cannot be operated when the FJVTS in Basic Software Extension 1.1 is invoked on the system where two or more AP-Net cards are mounted.
	Web-Based Admin View /WWW Server for Admin View	PE12386	Some applications may terminate on Web Based Admin View in the following situations when: • Web Based Admin View is used on Basic Software Extension 1.1. • The maximum permitted number of files has been changed on the program that is started on the application in Web Based Admin View.
	Machine Administration	PE12208	The tape cleaning monitoring of Machine Administration rewinds the tape medium in the following conditions when: • A tape medium is in the tape drive. • The tape is not rewound. • No process remains opening the tape device.
		PE12252	PCI component names in the POST detected error logs are not indicated correctly in the error log display in the following situations when: • The lowest two digit of the error code is 0x18, 0x19, 0x1a, 0x1e, 0x1f, or 0x20.
		PE12330	The diskswap command fails to append the specified disk to the list of hot-swappable in the following situations when: • A failure, which causes the system to fail recognizing the disk occurs(e.g. selection time out). • The diskswap command cannot obtain the information of the disk with the iostat(1M) command.

Version Level	Component	Correction number	Content of correction or Corrected Bug
1.1	Web-Based Admin View /WWW Server for Admin View	PE11927	Use of the SynfinityCluster Web-Based Admin View over a long period of time causes the /var/opt partition to fill up.
		PE11940	A system sometimes hangs in the shutdown procedure when using Basic Software Extension.
	Machine Administration	PE12093	After the FEP hot-swapping by using GUI, the monitoring information of FEP is not automatically reset, and is being left an error.
		PE12094	The host selection window of GUI becomes empty after the following procedures: • Select the host of "DOWN" status. • Press the [Exec] button. • Select the [Delete from list] in the displayed dialogue window.
		PE12095	In the log information window of GUI, the following error occurs. • "All strings match" and "Any of strings match" can be selected at the same time. • The operation after displaying the dialogue window is disabled if a wrong value has been specified.
		PE12096	The operation is disabled if "08" or "09" has been input at the numerical value input field.
		PE12097	The hardware configuration tree is in disorder when the CPU or the SLOT(memory) is "needs maintenance" state.
	Auto Power Control System	PE12107	The message "Cluster control configuration management facility is not running." is output to the console in the following situations when: • The system is set up for cluster operation. • The cluster management has not yet been initialized. • The system is booted.
		PE12108	The error check for specific days in the schedule is sometimes failed in the following situations when: • The schedule is populated with specific days only. • The power control has been started(apcsset -S). • The status display has been activated(apcsset -L).
	License Manager	PE11936	The setup_license command cannot add node locked licenses to the license file if the beginning of hostid characters is 0.

As for the following packages, the patch is automatically applied with the installer.
See the following table 2.2 for details of the bugs and their P-number.

Table 2.2

Package name	Patch ID	P-number	Bug
SUNWvts SUNWvtsx	912707-01	PG20361	When the pmemtest is executed on the Solaris 8 Operation Environment with kernel patch 108528-16 over, the following message may display; "Unable to read pointer to memlist structure.
	914449-01	PG50056	Installation of SunVTS 5.1 patch 114479-11 fails on Solaris 10 OS.
FJSVdrcmd	913372-03	PG43676	Fail to disconnect board by I/O access or Disable I/O after disconnect.
		PG41242	dr_info shows devices which is not installed.
		PG43473	Improve I/O reference check before disconnecting board.
		PG29523	Disconnecting board fails with "Invalid Status Device=Memory Status=NULL."
FJSVdr	913732-06	PG60874	DR may be canceled when multiple processes are bound to a CPU.
		PG55508	If there are many devices, the dr_info command takes long time.
		PG56273	DR is canceled, if a process exits while DR processing.
		PG46395	Disconnecting board cannot proceed at "Unconfigure the memory." message.
		PG44079	The error message is shown at the installation of non-global zone.
		PG41676	The device is not attached the driver after connecting the board.
		PG40375	The board can't be disconnected once disconnecting board is failed.
		PG40559	The error message "-c: not found" was shown during disconnecting board.
		PG40560	Improve I/O reference check before disconnecting board.
FJSVdropl	914587-02	PG60840	DR disconnect procedure is failed.
		PG60873	Support for SPARC64 VII CPU message.
		PG60874	DR may be canceled when multiple processes are bound to a CPU.
		PG58061	If there are many devices, the dr_info command takes long time.
		PG58062	DR is canceled, if a process exits while DR processing.
		PG56276	SPARC Enterprise support.
FJSVscu3	914575-01	PG56170	The judgment processing is added to the drc command, and whether it is a hardware configuration to be able to process the deletion of the system board is judged.
FJSVscfsc	914590-02	PG63359	SCSI Fault LED Control function(diskadm command) supports the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A).
		PG56173	When you display the IO device list by the drcstat command, the pxb_plx driver is displayed that should not display.
		PG56176	When the system board is moved by the drc command, a correct error message might not be displayed.

Package name	Patch ID	P-number	Bug
FJSVamadm	914527-06	PG65015	The Machine Administration supports SPARC Enterprise M3000.
		PG65033	In SPARC Enterprise M4000/M5000/M8000/M9000, the Machine Administration supports the fjgi PCIe Low Profile Quad Gigabit Ethernet Card(SE0X7GQ2F/SE0X7GQ2X).
		PG65226	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the hardware configuration information of the Sun StorEdge SAN Foundation Software of the tape device is supported.
		PG62167	In SPARC Enterprise M4000/M5000/M8000/M9000, the disk drive might not be able to be replaced on the hot swap.
		PG63314	In SPARC Enterprise series, the Machine Administration supports the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A).
		PG63339	In SPARC Enterprise M4000/M5000/M8000/M9000, the disk drive where the hot swapping was executed might not be displayed in the hardware configuration information.
		PG63804	In SPARC Enterprise M4000/M5000/M8000/M9000, configuration information of the ZFS disk drive might not be correctly made.
		PG56941	In SPARC Enterprise M4000/M5000/M8000/M9000, Auto Power Control System was supported.
		PG57316	In SPARC Enterprise M4000/M5000/M8000/M9000, the performance of the function to make hardware configuration on the Machine Administration is improved.
		PG56942	In SPARC Enterprise M4000/M5000/M8000/M9000, The Domain Initiated Dynamic Reconfiguration connection script of the Machine Administration is added.
		PG56967	The error of the FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver might not be detected.
		PG57181	In SPARC Enterprise M4000/M5000/M8000/M9000, when OS is shutted down, an unnecessary message might be output.
		PG55662	In SPARC Enterprise M4000/M5000/M8000/M9000, configuration information on the External I/O Expansion Unit cannot be correctly displayed.
		PG55819	In SPARC Enterprise M4000/M5000/M8000/M9000, when the system hardware configuration is large, configuration information might not be displayed by the "Hardware Configuration" menu on the Machine Administration.
		PG54013	In SPARC Enterprise M4000/M5000/M8000/M9000, configuration information might not be correctly created.
FJSVmadm	914601-02	PG57450	In PRIMEPOWER250/450, the Machine Administration might not report error when the system panics.
		PG56967	The error of the FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver might not be detected.
FJSVamle FJSVmadm	914604-03	PG64726	In SPARC Enterprise T5140/T5240, The Machine Administration supports on the guest domain of the Logical Domains(LDoms).
		PG63314	In SPARC Enterprise series, the Machine Administration supports the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A).
		PG63315	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240, the Machine Administration supports "Hot Swapping Guide" menu.

Package name	Patch ID	P-number	Bug
		PG61088	In SPARC Enterprise T1000/T2000/T5120/T5220, the disk of the file unit cannot be replaced while OS running.
		PG63018	In SPARC Enterprise T5120/T5220/T5140/T5240, The abnormality of the FAN might not be informed of to the REMCS center.
		PG62163	The Machine Administration supports SPARC Enterprise T5140/T5240.
		PG62164	In SPARC Enterprise T5120/T5220, The Machine Administration supports the 10GbE XAUI Card(SESX7XA1F).
		PG60800	In SPARC Enterprise T5120/T5220, The Machine Administration supports on the guest domain of the Logical Domains(LDoms).
		PG57023	The Machine Administration supports SPARC Enterprise T5120/T5220.
		PG58840	In SPARC Enterprise T1000/T2000/T5120/T5220, the help of the Machine Administration menu is wrong.
		PG57020	In SPARC Enterprise T1000/T2000, the Machine Administration supports the error monitoring function of the CPU/memory when the OS is booted.
		PG57022	In SPARC Enterprise T1000/T2000, the machine administration supports the Hardware Configuration of the memory.
		PG55176	Abnormality might not be informed of to the REMCS center.
		PG54246	The hardware configuration information of the Sun StorEdge SAN Foundation Software is supported.
FJSVamle	914718-01	PG65114	In SPARC Enterprise T1000/T2000/T5120/T5220, the Machine Administration improves the monitoring function of FAN/PSU.
FJSVpmnd	914529-04	PG61804	In PRIMEPOWER250/450, the Hardware Error Log menu of the Machine Administration might not be displayed.
		PG57450	In PRIMEPOWER250/450, the Machine Administration might not report error when the system panics.
		PG40732	The function to control the error report is improved.
		PG53968	CHECK LED blinks when reading/writing mode of the SNMP community is set by the scfsnmp command.
		PG53969	CHECK LED might happen to blink when an abnormal device is detected.
FJSVcmnd	914490-01	PG55214	The report function of the RCI error is supported on PRIMEPOWER650/850.
FJSVamrm	914588-01	PG56030	Add SIRMS functions for SPARC Enterprise M4000/M5000/M8000/M9000
FJSVlmrm	914603-03	PG62160	The periodical connection event is sent to the REMCS center at the unexpected time.
		PG62159	The invalid date is stored in the REMCS setup file when the periodical connection schedule is changed by using REMCS agent menu.
		PG62151	The maximum number of CPU configurations in the hardware configuration file of REMCS is expanded to 256 CPUs.
		PG60814	In SPARC Enterprise T5120/T5220, REMCS supports on the guest domain of the Logical Domains(LDoms).
		PG57432	For SPARC Enterprise T1000/T2000, the maximum number of CPU configurations in the hardware configuration file(MIF) is expanded to 64 CPUs.

Package name	Patch ID	P-number	Bug
FJSVsirms	914585-01	PG55880	Cannot send Software Investigation Information from SPARC Enterprise M4000/M5000/M8000/M9000.
		PG56806	When Investigation Information with size exceeding 400MB cannot be sent, incorrect error message is displayed.
		PG56815	When a server name is same as its host name, software configuration information is not made correctly.
		PG56818	In SPARC Enterprise M4000/M5000/M8000/M9000, when sending confliction to the REMCS center occurs, incorrect error message is displayed.
FJSVparam	914192-02	PG61343	Improvement of check for recommendation setting of Solaris Tunable Parameters(autoup, memscrub_period_sec).
		PG61344	If the LC_ALL or LC_MESSAGES environment variable is set, the warning message of "Insufficient savecore device(0 MB)" might be displayed.
		PG43297	The warning message about the parameter related to fsflush might be displayed because of the modification of the recommendation value of "Hardware Platform Guide".
		PG43286	Even if the savecore area is appropriately set depending on "dumpadm" command, the warning message of "Insufficient savecore device(0 MB)" might be displayed.
FJSVdcnf	914644-02	PG64529	Information on the suspected parts may not be output in FJSVmadm's messages when the tape device added by fjcnfset(1M) command is out of order.
		PG64530	The fjcnfset(1M) command may output the error message("Invalid fjpfca.conf.") even if the /kernel/drv/fjpfca.conf file is correct.
		PG64532	The function to set the definition of the Ultrium3 half height drive to the /kernel/drv/st.conf automatically is supported.
		PG59345	The function to set the definition of the Ultrium4 drive to the /kernel/drv/st.conf automatically is supported.
		PG59433	The function to recognize ETERNUS LT230 and LT250 tape libraries in the fibre channel switch(Fabric) connection automatically and add the necessary settings for the libraries to the /kernel/drv/st.conf automatically is supported.
		PG60479	The fjcnfchk(1M) command does not output the error message(duplicate configuration) which ought to appear when the duplicate definitions of the tape-config-list line are given in the /kernel/drv/st.conf.
		PG60509	Unifying notation between values in "current value" outputted by fjcnfchk(1M) command and the /kernel/drv/st.conf file is performed. In the same way, uniformity of notation between values in "recommend value" and User's Guide is preserved.
FJSVdef	914429-01	PG50208	disable Sun Update Manager Registration Wizard
FJSVsnap	914679-02	PG64300	Driver and LDoms are added as collection information.
		PG65335	A message displayed when a non-existing directory is specified as the -T option is changed.
		PG61682	Even when the path of extraction information is long, it processes normally.
FJSVsec	914609-01	PG57676	close(2) of se_hdlc(7D) makes system hang.
	914610-01	PG57676	close(2) of se_hdlc(7D) makes system hang.

Package name	Patch ID	P-number	Bug
FJSVgid.v FJSVgid.u	914568-02	PG55231	Communication using NIC on External I/O Expansion Unit in SPARC Enterprise may stop.
		PG54928	System may hang when fjgi interface is plumbed using SE0X7GD2X.
FJSVulsa.v FJSVulsa.u	914572-06	PG65264	Data corruption on the problem of Fujitsu SAS card firmware.
		PG62861	Support LSI1068E SAS adapter(SE0X7SA1*).
		PG63125	Data transfer length might be abnormally notified.
		PG64598	Driver failed to attach during OS boot by the problem of Fujitsu Ultra320 SCSI card.
		PG64599	Support PCI-E Message Signal Interrupt.
		PG62834	The SCSI command timeout might be detected and it fail in the backup while using the SCSI DAT72 tape drive.
		PG61943	System panic during OS boot when broken Fujitsu Ultra320 SCSI card information cannot be correct.
		PG57005	The target device connected to the Ultra320 SCSI card may be unable to be accessed.
		PG55476	Data transfer length may become unusual on the problem of the SCSI control LSI.
SUNWvts	110041-01	4318966	sunvts hangs or dies on large E10K configuration.
SUNWvtsx	114479-11	4790846	SunVTS UI should be able to connect to the kernel on local host when xface is do
		4836292	SunVTS5.1ps2 jfbtest (Ifb3lite) failed but prompt no errors in CDE
		4861855	Connection to vtsk lost when trying to connect remotely from another system
		4870525	SunVTS Test Probe fails when DVD-RW media is insterted in the DVD drive
		4754536	netlbtest should not get registered for the port connected to network.
		4888506	cputst will fail with german locale
		4892222	this is a duplicate of 4888506 cdm/cputst locale
SUNWvts SUNWodu	110046-02	4307665	CDE GUI core dumps when adjust scroll bar in a oversize window
		4122829	vtsui disappears with no core and X error
		4318966	sunvts hangs or dies on large E10K configuration.
		4469370	Buffer overflow vulnerability in ptexec.
SUNWvts	110047-01	5034099	SunVTS UIs (tty and cde) are unable to start for large configs
SUNWcar.us	124599-01	6475595	driver_aliases conflicts with PRIMEPOWER addon package

Manuals & Patches 3.1A10 Patch CD-ROM is bundled as an accompaniment of Enhanced Support Facility 3.1.

Regarding patches included in Manuals & Patches 3.1A10, please refer to the following Table 2.3.

<div align="center">Table 2.3</div>

Package name	Patch ID	P-number	Bug
FJSVamadm	914527-11	PG71265	In PRIMEPOWER250/450, the Machine Administration improves the error monitoring function of the disk unit.
		PG73681	The error of the FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver might not be detected.
		PG72741	In SPARC Enterprise M3000, Machine Administration support added for the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A) connected to the standard(on board) SAS port.
		PG72291	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the Machine Administration supports the error monitoring function of the 8Gbps fibre channel card(SE0X7F21F/SE0X7F22F).
		PG72292	In SPARC Enterprise M3000, the Machine Administration improves the hardware configuration display function of the Expansion File Unit(SE0X9FL1F, SE0X9FL1N, SE0X9FL1X, SE0X9FL1A).
		PG72467	The size of the evh_log file about the Machine Administration might expand.
		PG68682	In SPARC Enterprise M4000/M5000/M8000/M9000, the Machine Administration might not be able to display the hardware configuration information of the External I/O Expansion Unit(SENY8BE1F).
		PG68683	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the Machine Administration might notify the XSCF of the wrong error code.
		PG68684	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the Machine Administration might not be able to detect the error of some PCI card.
		PG66802	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the Machine Administration cannot correctly display the name of the Expansion File Unit and the disk unit.
		PG66803	In SPARC Enterprise M3000/M4000/M5000/M8000/M9000, the Machine Administration cannot correctly do a preventive monitoring of the disk.
FJSVmadm	915009-02	PG68178	In PRIMEPOWER650/850/900/1500/2500/HPC2500, the Machine Administration supports the command by which all error marks are cleared.
		PG65655	In GP7000F models 200/200R/400/400A/400R/600/600R/1000/2000, PRIMEPOWER1/100/200/400/600/800/1000/2000/250/450, FUJITSU S series, GP 7000S series, the Machine Administration supports the command by which all error marks are cleared.
	914601-04	PG73681	The error of the FUJITSU ULTRA LVD SCSI Host Bus Adapter Driver might not be detected.
		PG72467	The size of the evh_log file about the Machine Administration might expand.

Package name	Patch ID	P-number	Bug
FJSVamle FJSVmadm	914604-06	PG71265	In PRIMEPOWER250/450, the Machine Administration improves the error monitoring function of the disk unit.
		PG72291	In SPARC Enterprise series, the Machine Administration supports the error monitoring function of the 8Gbps fibre channel card (SE0X7F21F/SE0X7F22F).
		PG68513	In SPARC Enterprise series T5120/T5220/T5140/T5240/T5440, the Machine Administration supports the External I/O Expansion Unit(SENY8BE1F).
		PG68514	In SPARC Enterprise series T5120/T5220/T5140/T5240/T5440, the Machine Administration cannot detect the error of the internal DVD drive.
		PG68515	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/ T5440, the Machine Administration cannot correctly do a preventive monitoring of the disk.
		PG68516	In SPARC Enterprise T5140/T5240/T5440, the Machine Administration might not operate correctly.
		PG66146	In SPARC Enterprise T5140/T5240/T5440, the Machine Administration might not be able to monitor the FAN, the PSU, and the memory.
		PG65537	In SPARC Enterprise T1000/T2000, the Machine Administration improves the error monitoring function of FAN/PSU when the OS is booted.
		PG65114	In SPARC Enterprise T1000/T2000/T5120/T5220, the Machine Administration improves the monitoring function of FAN/PSU.
FJSVpmnd	914529-05	PG73561	In PRIMEPOWER250/450, the load of the system increases because the setunitinfo command of the Machine Administration run continuously.
		PG71265	In PRIMEPOWER250/450, the Machine Administration improves the error monitoring function of the disk unit.
FJSVcmnd	914490-02	PG71265	In PRIMEPOWER250/450, the Machine Administration improves the error monitoring function of the disk unit.
FJSVsmnd	915077-01	PG71265	In PRIMEPOWER250/450, the Machine Administration improves the error monitoring function of the disk unit.
FJSVlmrm	914603-06	PG70138	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the periodical connection may be sent twice successively.
		PG70139	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the file update date and time stored in the REMCS setting file may not be correct.
		PG70140	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the maintenance start menu and maintenance end menu are supported with the root privilege.
		PG70141	In the REMCS environment setting menu of the SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440 REMCS agent, the function to automatically set the default periodical connection schedule is supported.

Package name	Patch ID	P-number	Bug
		PG70142	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, among the information set in the registration menu, the function is added so that the "Department/Division" will be optional instead of requirement.
		PG70143	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the prolonged Japanese sound displayed in the menu will be always described in one way.
		PG70144	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the function is added so that the maintenance end menu will be executable even if the REMCS agent status is "System on ordinary operation".
		PG70957	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the firmware version will be stored in the hardware configuration information.
		PG70958	In the REMCS agent of SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240/T5440, the POP server name is not displayed in the environment setting menu when selecting "POP before SMTP".
		PG68638	In SPARC Enterprise T5120/T5220/T5140/T5240/T5440, when each domain is operated with Logical Domains(LDoms) in the different time zone, the REMCS center might mistake the time of periodical connection time-out.
		PG65673	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240, even if REMCS failed to send error message of remote report, REMCS try to send error logs.
		PG65672	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240, REMCS supports power-on and power-off events.
		PG65671	In SPARC Enterprise T1000/T2000/T5120/T5220/T5140/T5240, REMCS supports Point-to-Point(Mail Only) connection.
FJSVrlib	914701-02	PG70071	Changes rmschto2.1st file for modification of the REMCS Center names.
		PG65511	Point-to-Point Connection(Mail Only) is supported in the REMCS function.
FJSVsirms	914585-02	PG72132	Process might stop for input waiting, when soft-registration-info is made.
		PG73237	Access authority of the message file is improper.
FJSVparam	914192-03	PG67705	In some cases, files to be fixed may not be replaced, though the patchadd command finishes normally.
FJSVdcnf	914644-03	PG68846	The function to set the definition of the Ultrium4 half height drive(SAS) to the /kernel/drv/st.conf automatically is supported.
		PG68848	The function to set the definition of the Ultrium4 full height drive(SAS) to the /kernel/drv/st.conf automatically is supported.
		PG68872	In some cases, the patch is not installed completely and cannot be removed once it is installed, though the patchadd command finishes normally.

Package name	Patch ID	P-number	Bug
FJSVsnap	914679-03	PG67831	Fault Management are added as collection information.
FJSVsec	914609-04	PG67122	patchadd might fail partially, and patchrm might fail.
		PG66730	Bad patch of FJSVsec causes the error message of conspathd.
		PG64863	Output of console stops because softintr stalled.
	914610-03	PG67122	patchadd might fail partially, and patchrm might fail.
		PG64863	Output of console stops because softintr stalled.
	915001-02	PG67122	patchadd might fail partially, and patchrm might fail.
		PG64863	close(2) of se_hdlc(7D) makes system hang.
FJSVgid.v FJSVgid.u	914568-06	PG66019	SE0X7GQ1X generates incorrect TCP checksum.
		PG66020	The values of link and duplex of dladm(1M) are not correct.
		PG66025	Communication may stop after link is down and up.
		PG66026	RUNNINING flag of ifconfig(1M) may not be correct after Dynamic Reconfiguration.
		PG66027	Panic occurs when Link Aggregation, VLAN and JumboFrame at the same time.
		PG66029	The kstat parameter rx_len_error and tx_len_error should be supported.
		PG66030	Inappropriate packets may be passed to ip when promiscuous.
		PG60487	link may not be up after ndd command.
		PG60552	check process of receipt data is improved.
		PG59034	System panic may occur when Link is down or up on two or more ports.
		PG57812	Link-based failure detection should be supported.
		PG57813	Checksum offload on Solaris 10 should be supported.
		PG57815	Performance improvement for SE0X7GQ1X.
		PG57819	Some fjgi driver message should be changed.
FJSVulsa.v FJSVulsa.u	914572-08	PG70705	Data corruption on the problem of Fujitsu Ultra320 SCSI card firmware with channel trouble.
		PG66760	System panic when controller notifies an asynchronous event and an error at the same time.
		PG66762	backup to DAT72 device might fail because of SCSI command timeout.