INSTALLATION GUIDE Enhanced Support Facility 2.6

for Solaris™ Operating System

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Preface

■ Purpose

This document explains the procedures from installing Enhanced Support Facility to defining the environment.

■ Intended Readers

This document is intended for system administrators who use the Enhanced Support Facility. Readers of this document should understand computer network concepts and terminology and have basic knowledge of the system management of the Solaris(TM) operating system (hereinafter referred to as Solaris OS).

■ Organization

This document is organized as follows:

Chapter 1 Program Components

Chapter 1 explains the programs that constitute the system.

Chapter 2 Online Manuals

Chapter 2 explains the online manuals related to Enhanced Support Facility.

Chapter 3 Operating Environment

Chapter 3 explains the operating environment of this product.

Chapter 4 Restrictions and Notes

Chapter 4 explains restrictions and provides notes.

Chapter 5 Installation Procedures

Chapter 5 explains the procedure for installing Enhanced Support Facility.

Chapter 6 Removing Enhanced Support Facility

Chapter 6 explains the procedure for removing Enhanced Support Facility.

Appendix

The Appendix explains supplementary items.

■ Notations Used

System Control Facility driver is abbreviated to the following: SCF driver.

System Control Facility hardware is abbreviated to the following: SCF.

This documents also uses abbreviations for the names of supported models. See "Appendix. F Model Name Abbreviation and Platform Names" for the relationship between abbreviations and platform names used in this and previous Enhanced Support Facility Documents.

Contents

Preface	1
Chapter 1 Program Components	6
1.1 Solaris™ 2.6 Operating System	6
1.2 Solaris™ 7 Operating System	
1.3 Solaris™ 8 Operating System	10
1.4 Solaris™ 9 Operating System	15
1.5 Solaris™ 10 Operating System	20
Chapter 2 Online Manuals	25
2.1 Manuals Related to Enhanced Support Facility	25
2.2 Hardware and Other Manuals	
2.3 Referencing Methods	
2.3.1 Referring to the online manuals (HTML format)	
2.3.1.1 Using a PC	27
2.3.1.2 Using a server (Solaris™ Operating System)	27
2.3.2 Referring to the online manuals (PostScript™ format)	27
Chapter 3 Operating Environment	28
3.1 Software Environment	
3.2 Hardware Environment.	
3.3 Static Disk Requirements.	
3.3.1 Disk requirements	
3.3.1.1 PRIMEPOWER900/1500 (Models equipped with SPARC64™	
V)/2500	31
3.3.1.2 PRIMEPOWER1500 (Models equipped with SPARC64 TM GP)	
3.3.1.3 PRIMEPOWER250/450	
3.3.1.4 PRIMEPOWER650 (Models equipped with SPARC64™ V)/850	
(Models equipped with SPARC64 TM V)	32
3.3.1.5 PRIMEPOWER650 (Models equipped with SPARC64™ GP)/850	
(Models equipped with SPARC64™ GP)	32
3.3.1.6 PRIMEPOWER800/1000/2000	32
3.3.1.7 GP7000F Models 1000/2000	33
3.3.1.8 PRIMEPOWER200/400/600, GP7000F Models	
200/200R/400/400R/400A/600/ 600R	
3.3.1.9 PRIMEPOWER1	
3.3.2 Work area requirements	
3.4 Dynamic Disk Resources	
3.4.1 Disk space requirements	
3.5 Memory Requirements	
3.6 Swap Space	
Chapter 4 Restrictions and Notes	
4.1 Restrictions	
4.2 Cautions when Upgrading	
4.2.1 User data compatibility	
4.2.2 Environment definition file compatibility	
4.3 Notes	
Chapter 5 Installation Procedures	40
5.1 For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000	40
5.1.1 Installation	
5.1.1.1 Notes on installation	
5.1.1.2 Installation time	
5.1.1.3 Installing Enhanced Support Facility	
5.1.1.4 Messages appearing during installation	
5.1.1.5 Reactivation of system	
5.1.1.6 Environment setting after installation	
5.1.1.7 Applying modifications	47

5.1.2 Update installation	
5.1.2.1 Notes on installation	
5.1.2.2 Installation time	
5.1.2.3 Checking the system environment	48
5.1.2.4 Saving the environment setting file	
5.1.2.5 Installing Enhanced Support Facility	51
5.1.2.6 Messages appearing during installation	52
5.1.2.7 Restoring the environment settings file	54
5.1.2.8 Reactivation of system	54
5.1.2.9 Environment setting after installation	54
5.1.2.10 Applying modifications	56
5.2 For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models	
200/200R/400/400R/400A/600/600R	
5.2.1 Installation	
5.2.1.1 Notes on installation	
5.2.1.2 Installation time	
5.2.1.3 Installing Enhanced Support Facility	
5.2.1.4 Messages appearing during installation	
5.2.1.5 Reactivation of system	
5.2.1.6 Environment setting after installation	
5.2.1.7 Applying modifications	
5.2.2 Update installation	
5.2.2.1 Notes on installation	
5.2.2.2 Installation time	
5.2.2.3 Checking the system environment	
5.2.2.4 Saving the environment setting file	
5.2.2.5 Installing Enhanced Support Facility	
5.2.2.6 Messages appearing during installation	
5.2.2.7 Restoring the environment settings file	
5.2.2.8 Reactivation of system	
5.2.2.9 Environment setting after installation	
5.2.2.10 Applying modifications	72
Chapter 6 Removing Enhanced Support Facility	73
6.1 For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000	73
6.2 For PRIMEPOWER1/200/400/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R	
Appendix A Command Reference	
••	
A.1 esfadd (1M)	
A.2 esfrm (1M)	
A.3 esfver (1M)	
Appendix B Troubleshooting	83
B.1 Resolution of problems which occur when package is installed (I).	84
B.2 Resolution of problems which occur when package is installed (II)	
B.3 Resolution of problems which occur when package is installed(III).	
B.4 Resolution of problems which occur when package is installed (IV).	
B.5 Resolution of problems, which occurred when package was removed (I).	
B.6 Resolution of problems, which occurred when package was removed (II).	
Appendix C Installation of CPU performance counter (including upgrade installation)	
C.1 Installation of CPU performance counter (including upgrade installation)	
Appendix D Manual mount of CD-ROM in single-user mode	90
D.1 Mounting the CD-ROM Manually	
D.2 Removing the CD-ROM	
Appendix E Solaris Live Upgrade	90
E.1 Restrictions	91
E.2 Upgrading Procedure	
E.2.1 Preparation for creating "Inactive Boot Environment" and confirming environment	

E.2.1.1 Checking the system environment	92
E.3 Creating a New Boot Environment and Deleting Software	
E.3.1 Creating and mounting a new boot environment	92
E.3.2 Saving the environment settings files	92
E.3.2.1 Package containing environment settings files	92
E.3.2.2 Saving environment settings files	
E.3.3 Deleting the software from new boot environment	94
E.3.4 Unmounting the new boot environment	
E.3.5 Removing the CD-ROM	
E.4 Upgrading the Operating System	
E.5 Installing Software	
E.5.1 Mounting the new boot environment	
E.5.2 Installing this software in the new boot environment	
E.6 Restoring Data in the New Boot Environment	
E.7 Switching the Boot Environment	
E.7.1 Unmounting the new boot environment	
E.7.2 Switching the active boot environment	
E.7.3 Starting the system in the new boot environment	
E.8 Restoring the Environment after Starting the New Boot Environment	
E.8.1 Restoring the environment	
E.8.2 Restoring the system	
E.8.3 Environment setting after installation	
Appendix F Model Name Abbreviation and Platform Names	101
Appendix G Specifying a Component Group for Installation	102
G.1 Notes on Using the Component Group Specification Option	102
G.2 Component Groups	
G.2.1 Program components (BASIC component group)	
G.2.2 Program components (CORE component group)	
G.3 Specifying a Component Group for Installation	115
Appendix H When the patches fail to be applied	
Appendix I Custom JumpStart	117
I.1 Support Environment	117
I.2 Procedure	117
I.2.1 How to use the CD-ROM drive of installation server	117
I.2.2 Installation script for Enhanced Support Facility	117
I.3 Notes	118
Appendix J Solaris network installation using DHCP service	119
Appendix K Solaris Zone	120
Appendix L Notes on FJVTS	121

Chapter 1 Program Components

The following components and packages comprise this software.

1.1 Solaris™ 2.6 Operating System

PW-K: PRIMEPOWER800/1000/2000

 $PW-T: PRIMEPOWER200/400/600, GP7000F\ Models\ 200/200R/400/400R/400A/600/600R$

O: Supported, -: Not supported

	O: Supported, -	: Not supporte	ed	ı		T
No.	Component	Package name	Version	PW-K	PW-T	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.6	О	0	Installation management of Enhanced Support Facility
2	SCF Driver	FJSVscdx.us	1.9.2	-	О	RAS control device drivers(SCF,FaultLED)(64-bit)
		FJSVscd.us	1.9.2	-	О	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.2	-	О	RAS control daemon, files
		FJSVscu.us	1.9.2	-	О	RAS control commands
		FJSVscuja	1.9.2	-	О	RAS control Japanese environment
		FJSVscd1	1.0	0	-	RAS control device drivers for PRIMEPOWER800/1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr1	1.0	О	-	RAS control daemon, files for PRIMEPOWER800/1000/2000
		FJSVscu1	1.0	О	-	RAS control commands for PRIMEPOWER800/1000/2000
		FJSVscuj1	1.0	О	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000
3	SunVTS,	SUNWvts	2.1.3	О	О	Online diagnostic test
	FJVTS	SUNWvtsmn	2.1.3	О	О	
		FJSVvts	2.1.3	О	0	
4	Web-Based Admin View /	FJSVwvcnf	2.0.3	О	О	WWW server for Web-Based Admin View
	WWW Server for Admin View	FJSVwvbs	2.1.2	О	О	Basic communication functionality for Web application.
5	Machine	FJSVmasv	2.2.3	О	О	Hardware fault monitoring and maintenance
	Administration	FJSVmand	2.2.4	-	0	support
		FJSVsmnd	1.0.0	-	-	
		FJSVmadm	1.2.2	О	О	
		FJSVmaom	1.9.2	О	0	
		FJSVkmnd	1.7.2	О	-	
		FJSVkmsv	2.5.1	О	-	

No.	Component	Package name	Version	PW-K	PW-T	Function
6	Remote Support	FJSVmarm	2.0	-	0	Functions for connection to the Fujitsu Support
		FJSVsmrm	1.0.0	-	-	Center
		FJSVkmrm	1.0.5	О	-	
		FJSVrlib	8.2.2	-	0	
		FJSVragt	2.9	-	О	
		FJSVrmaos	2.9	-	О	
		FJSVrrda	2.9	О	О	
		FJSVracm	2.9	О	0	
		FJSVsirms	3.2	О	0	
7	Auto Power Control System	FJSVapcs	1.4.0	О	О	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	О	О	Administrator View of the Auto Power Control System
8	Server Default Configuration	FJSVdef	1.1.4	О	0	Enables the dump configuration to run the savecore command automatically at system reboot.
	_					Prevents excessive use of log files by the system .
		FJSVpnl.us	2.1	О	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	О	О	The memory error inspection function
9	System Data Output Tool	FJSVsnap	2.5	О	О	Collects data regarding command execution results, files about hardware and software configurations, environment settings, logs, and operational status, then outputs the system information for system fault analysis to a tape unit, etc.
10	License Manager	FSUNlic	6.2	О	О	Manages software licenses.
11	Crash Dump Assistant	FJSVdmp	1.5	0	0	During the creation of a crash dump file at system reboot, Crash Dump Assistant invokes the "System Data Output Tool" to save necessary system data for problem investigation.
12	Auto Dump Analyze Tool	FJSVana	1.1	О	О	This Auto Dump Analyze Tool automatically analyzes the crash dump file at system reboot following a system crash. This package contains a tool named cocore that gathers files that are necessary for analysis. Please refer to: /opt/FJSVana/doc/README.cocore(.ja).
13	Reliability Driver	FJSVsef	1.0.1	0	1	Serial port driver for PRIMEPOWER800/1000/2000 reliability
14	CPU Patrol Diagnosis	FJSVcpupd	1.3	0	О	Patrol diagnosis function for FUJITSU SPARC64 GP processors
15	Tape Driver Configuration Tool	FJSVdcnf	1.1	О	О	This function adds configuration parameters for target tape devices automatically.
16	Patch Information Collect Command	FJSVpmgc	1.0	0	0	

1.2 Solaris[™] 7 Operating System

PW-K: PRIMEPOWER800/1000/2000, GP7000F Models 1000/2000

PW-T: PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/600R

 $O: Supported, \cdot: Not \ supported$

No.	Component	Package name	Version	PW-K	PW-T	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.6	О	0	Installation material data management of Enhanced Support Facility
2	SCF Driver	FJSVscdx.us	1.9.2	-	0	RAS control device drivers(SCF,FaultLED) (64-bit)
		FJSVscd.us	1.9.2	-	О	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.2	-	О	RAS control daemon, files
		FJSVscu.us	1.9.2	-	О	RAS control commands
		FJSVscuja	1.9.2	-	0	RAS control Japanese environment
		FJSViomp	2.3	О	-	IOMP level 2 framework for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscd2	1.3.1	0	-	RAS control device drivers for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.3.1	О	-	RAS control daemon, files for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.3.1	0	-	RAS control commands for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscuj2	1.3.1	0	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
3	SunVTS,	SUNWvts	4.0	О	0	Online diagnostic test
	FJVTS	SUNWvtsmn	4.0	О	0	
		SUNWvtsx	4.0	О	0	
		FJSVvts	4.0	О	0	
4	Web-Based Admin View /	FJSVwvcnf	2.0.3	О	О	WWW server for Web-Based Admin View
	WWW Server for Admin View	FJSVwvbs	2.1.2	О	0	Basic communication functionality for Web application.
5	Machine	FJSVmasv	2.2.3	О	0	Hardware fault monitoring and maintenance
	Administration	FJSVmand	2.2.4	-	0	support
		FJSVsmnd	1.0.0	-	-	
		FJSVmadm	1.2.2	О	О	
		FJSVmaom	1.9.2	О	0	
		FJSVkmnd	1.7.2	О	-	
		FJSVkmsv	2.5.1	0	-	

No.	Component	Package name	Version	PW-K	PW-T	Function
6	Remote Support	FJSVmarm	2.0	-	0	Functions for connection to the Fujitsu Support
		FJSVsmrm	1.0.0	-	-	Center
		FJSVkmrm	1.0.5	О	-	
		FJSVrlib	8.2.2	-	О	7
		FJSVragt	2.9	-	О	
		FJSVrmaos	2.9	-	О	
		FJSVrrda	2.9	О	О	
		FJSVracm	2.9	О	О	
		FJSVsirms	3.2	О	О	
7	Auto Power Control System	FJSVapcs	1.4.0	0	0	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	О	О	Administrator View of the Auto Power Control System
8	Server Default	FJSVdef	1.2.4	О	О	Prevents excessive use of log files by the system.
	Configuration	FJSVssf	2.0.2	О	О	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	О	-	The Partition Dump Function(64-bit panel driver)
		FJSVpnl.us	2.1	О	-	The Partition Dump Function(32-bit panel driver)
		FJSVwarn.us	1.3	О	О	The memory error inspection function
9	System Data Output Tool	FJSVsnap	2.5	О	O	Collects data regarding command execution results, files about hardware and software configurations, environment settings, logs, and operational status, then outputs the system information for system fault analysis to a tape unit, etc.
10	License Manager	FSUNlic	6.2	О	О	Manages software licenses.
11	Crash Dump Assistant	FJSVdmp	1.5	O	0	During the creation of a crash dump file at system reboot, Crash Dump Assistant invokes the "System Data Output Tool" to save necessary system data for problem investigation.
12	Auto Dump Analyze Tool	FJSVana	1.1	О	O	The Auto Dump Analyze Tool automatically analyzes the crash dump file at system reboot following a system crash. This package contains a tool named cocore that gathers files that are necessary for analysis. Please refer to: /opt/FJSVana/doc/README.cocore(.ja).
13	Reliability Driver	FJSVse	1.0.1	0	-	Serial port driver for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 (32-bit driver/64-bit driver)
14	CPU Patrol Diagnosis	FJSVcpupd	1.3	0	О	Patrol diagnosis function for FUJITSU SPARC64 GP processors
15	Tape Driver Configuration Tool	FJSVdcnf	1.1	0	0	This function adds configuration parameters for target tape devices automatically.
16	Patch Information Collect Command	FJSVpmgc	1.0	О	О	

1.3 Solaris™ 8 Operating System

PW-P: PRIMEPOWER250/450

PW-CLZ : PRIMEPOWER900/1500 (Model equipped with SPARC64TM V)/2500

PW-CL : PRIMEPOWER1500 (Model equipped with SPARC64TM GP)

PW-CMZ : PRIMEPOWER650 (Model equipped with SPARC64TM V)/850 (Model equipped with SPARC64TM V) PW-CM : PRIMEPOWER650 (Model equipped with SPARC64TM GP)/850 (Model equipped with SPARC64TM GP)

PW-K: PRIMEPOWER800/1000/2000, GP7000F Models 1000/2000

PW-T: PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/600R

PW-U: PRIMEPOWER1

O: Supported, -: Not supported

No.	Component	Package name	Ver- sion	PW-P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW-	PW-	PW- U	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.6	О	О	О	О	0	0	О	О	Installation material data management of Enhanced Support Facility
2	DR Command	FJSVdrcmd	1.8	-	О	- Note1	-	-	О	-	-	Dynamic Reconfiguration command(64-bit)
3	SCF Driver	FJSVscdx.us	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED) (64-bit)
		FJSVscd.us	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.2	-	-	-	-	-	-	О	-	RAS control daemon, files
		FJSVscu.us	1.9.2	-	-	-	-	-	-	О	-	RAS control commands
		FJSVscuja	1.9.2	-	-	-	-	-	-	О	-	RAS control Japanese environment
		FJSViomp	2.3	О	0	0	0	0	О	-	-	IOMP level 2 framework for PRIMEPOWER250/450/ 650/800/850/900/1000/1 500/2000/2500 and GP7000F Models 1000/2000
		FJSVscd2	1.3.1	-	-	-	-	-	О	-	-	RAS control device drivers for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)

No.	Component	Package name	Ver- sion	PW-P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW-	PW-	PW- U	Function
		FJSVscr2	1.3.1	-	-	-	-	-	0	-	-	RAS control daemon, files for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.3.1	-	-	-	-	-	О	-	-	RAS control commands for PRIMEPOWER800/ 1000/2000 and GP7000F Models 1000/2000
		FJSVscuj2	1.3.1	-	-	-	-	-	О	-	-	RAS control Japanese environment for PRIMEPOWER800/1000 /2000 and GP7000F Models 1000/2000
		FJSVlscdx	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED) (64-bit)
		FJSVlscd	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED)
		FJSVlscr	1.2	-	-	-	-	-	-	-	О	RAS control control daemon, files
		FJSVlscu	1.2	-	-	-	-	-	-	-	О	RAS control commands
		FJSVlscuj	1.2	-	-	-	-	-	-	-	0	RAS control Japanese environment
		FJSVscd3	1.3.1	-	0	О	0	О	-	-	-	RAS control device drivers for PRIMEPOWER650/850/ 900/1500/2500(SCF3 driver) (64-bit)
		FJSVscr3	1.3.1	-	О	О	0	О	-	-	-	RAS control daemon, files for PRIMEPOWER650/850/ 900/1500/2500
		FJSVscu3	1.3.1	-	О	О	О	О	-	-	-	RAS control commands for PRIMEPOWER650/850/ 900/1500/2500
		FJsvlscuj3	1.3.1	-	0	О	0	О	-	-	-	RAS control Japanese environment for PRIMEPOWER650/850/ 900/1500/2500
		FJSVpscd	1.1	О	-	-	-	-	-	-	-	RAS control device drivers for PRIMEPOWER250/450 (SCF3 driver) (64-bit)
		FJSVpscr	1.1	О	-	-	-	-	-	-	-	RAS control daemon, files for PRIMEPOWER250/450

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW- CL	PW- CMZ	PW-	PW-	PW-	PW- U	Function
		FJSVpscu	1.1	О	-	-	-	-	-	-	-	RAS control commands for PRIMEPOWER250/ 450
		FJSVpscuj	1.1	О	-	-	-	-	-	-	-	RAS control Japanese environment for PRIMEPOWER250/450
4	SunVTS,	SUNWvts	4.0	О	0	0	0	О	О	О	О	Online diagnostic test
	FJVTS	SUNWvtsmn	4.0	О	0	0	0	О	О	О	О	
		SUNWvtsx	4.0	О	0	0	0	О	О	О	О	
		FJSVvts	4.0	О	0	0	0	О	О	О	О	
5	Web-Based Admin View	FJSVwvcnf	2.0.3	О	О	0	О	О	О	О	О	WWW server for Web-Based Admin View
	/ WWW Server for Admin View	FJSVwvbs	2.1.2	О	О	О	0	О	О	О	О	Basic communication functionality for Web application.
6	Machine	FJSVmasv	2.2.3	О	0	О	О	О	О	О	О	Hardware fault
	Administra-	FJSVmand	2.2.4	-	-	-	-	-	-	О	О	monitoring and
	tion	FJSVsmnd	1.0.0	-	-	-	-	-	-	-	-	maintenance support
		FJSVmadm	1.2.2	О	0	О	О	О	О	О	О	
		FJSVmaom	1.9.2	О	0	0	0	О	О	О	О	
		FJSVkmnd	1.7.2	-	-	-	-	-	О	-	-	
		FJSVkmsv	2.5.1	-	-	-	-	-	О	-	-	
		FJSVcmnd	1.5.2	-	0	О	0	О	-	-	-	
		FJSVpmnd	1.2.2	О	-	-	-	-	-	-	-	
7	Remote	FJSVmarm	2.0	-	-	-	-	-	-	О	О	Functions for connection
	Support	FJSVsmrm	1.0.0	-	-	-	-	-	-	-	-	to the Fujitsu Support
		FJSVkmrm	1.0.5	-	-	-	-	-	О	-	-	Center
		FJSVrlib	8.2.2	О	_	_	О	О	_	О	О	
		FJSVragt	2.9	0	_	_	0	0	_	0	0	
		FJSVrmaos	2.9	О	-	-	0	О	-	О	О	
		FJSVrrda	2.9	О	О	О	О	О	О	О	О	
		FJSVracm	2.9	О	0	0	0	О	О	О	О	
		FJSVsirms	3.2	О	0	О	0	О	О	О	О	
		FJSVcmrm	1.6	-	-	-	О	О	-	-	-	
		FJSVcmrm2	1.2	_	О	О	-	-	-	_	_	
		FJSVpmrm	1.3	О	-	-	-	-	-	-	-	
8	Auto Power Control System	FJSVapcs	1.4.0	О	О	0	О	О	О	О	-	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	О	О	О	О	О	О	О	О	Administrator View of the Auto Power Control System.

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW-	PW-	PW-	PW-	PW-	PW- U	Function
9	Server Default	FJSVdef	1.2.4	0	О	О	О	0	0	О	О	Prevents excessive use of log files by the system .
	Configuration	FJSVssf	2.0.2	О	О	О	О	О	О	О	О	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	О	О	О	О	О	0	-	-	The Partition Dump Function (64-bit panel driver)
		FJSVpnl.us	2.1	О	О	О	О	О	О	-	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	О	О	0	О	О	0	О	-	The memory error inspection function
10	System Data Output Tool	FJSVsnap	2.5	O	O	O	O	0	0	O	O	Collects data regarding command execution results, files about hardware and software configurations, environment settings, logs, and operational status, then outputs the system information for system fault analysis to a tape unit, etc.
11	License Manager	FSUNlic	6.2	О	О	О	О	О	О	О	О	Manages software licenses.
12	Crash Dump Assistant	FJSVdmp	1.5	О	0	0	0	0	О	О	О	During the creation of a crash dump file at system reboot, Crash Dump Assistant invokes the "System Data Output Tool" to save necessary system data for problem investigation.
13	Auto Dump Analyze Tool	FJSVana	1.1	0	0	0	0	0	0	0	0	Auto Dump Analyze Tool automatically analyzes the crash dump file at system reboot following a system crash. This package contains a tool named cocore that gathers files that are necessary forcer analysis. Please refer /opt/FJSVana/doc/READ ME .cocore(.ja).
14	Reliability	FJSVse	2.1.2	-	-	-	-	-	О	-	-	Serial port driver
	Driver	FJSVsec	1.2.1	-	0	О	-	-	-	-	-	
15	CPU Performance Counter	FJSVcpc	2.1	- Note 3	- Note3	- Note3	- Note3	O Note 4	O Note 4	O Note 4	O Note 4	CPU load measurement function

16	CPU Patrol Diagnosis	FJSVcpupd	1.3	-	- Note2	О	- Note2	О	0	О	-	Patrol diagnosis function for FUJITSU SPARC64 GP processors
17	G-LAN error notification	FJSVgidad.u s	2.0.1	0	О	О	О	О	0	0	-	GigabitEthernet interface error notification
18	G-LAN MTU setting	FJSVgidr.us	2.0.0	0	О	О	О	О	0	0	-	The script to set MTU changes when using JumboFrame for GigabitEthernet interface.
19	НСР	FJSVhcp	1.0	0	-	-	-	-	-	-	-	XSCF User's Guide, firmware and utility.
20	System Parameter Diagnosis	FJSVparam	1.1	0	О	О	О	О	0	О	О	System parameters of the Solaris system are diagnosed.
21	HRM-S	FJSVhrm	2.1.0	О	0	0	О	О	О	О	О	This function supports fast and reliable maintenance work for stable system operation
22	Tape Driver Configuration Tool	FJSVdcnf	1.1	O	O	O	О	О	О	O	O	This function adds configuration parameters for target tape devices automatically.
23	Patch Information Collect Command	FJSVpmgc	1.0	O	O	О	О	О	О	O	O	

Note1: DR command FJSVdrcmd is installed, but not supported.

 $Note 2: \quad CPU \ patrol \ diagnosis \ FJSV cpupd, \ installed \ but \ unsupported \ on \ PW-CLZ \ and \ PW-CMZ \ models.$

Note3: Use the CPU performance counter provided by Solaris OS. The CPU performance counter provided by Enhanced Support Facility is not supported on PW-P, PW-CLZ, PW-CMZ, and PW-CM.

Note4: Because the CPU performance counter is supported as a Solaris standard function by Solaris OS 8 10/01 OS or later, do not install the Enhanced Support Facility CPU performance counter. However, the CPU performance counter is not supported as a Solaris standard function by Solaris 8 7/01 OS or earlier. Accordingly, for such OS versions, install the Enhanced Support Facility CPU performance counter. See Appendix C, "Installation of CPU performance counter (including upgrade installation)" for more information.

1.4 Solaris™ 9 Operating System

PW-P: PRIMEPOWER250/450

PW-CLZ : PRIMEPOWER900/1500(Model equipped with SPARC64TM V)/2500

PW-CL: PRIMEPOWER1500 (Model equipped with SPARC64™ GP)

PW-CMZ: PRIMEPOWER650 (Model equipped with SPARC64[™] V)/850 (Model equipped with SPARC64[™] V) PW-CM: PRIMEPOWER650(Model equipped with SPARC64[™] GP)/850(Model equipped with SPARC64[™] GP)

PW-K: PRIMEPOWER800/1000/2000, GP7000F Models 1000/2000

PW-T: PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/600R

PW-U: PRIMEPOWER1

 $O: Supported, \cdot: Not \ supported$

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW-	PW-	PW-	PW-	PW-	PW- U	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.6	0	O	0	O	О	О	О	0	Installation material data management of Enhanced Support Facility
2	NGDR Command	FJSVdr	1.3	-	О	- Note1	-	-	О	-	-	Dynamic Reconfiguration
3	SCF Driver	FJSVscdx.u	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED) (64-bit)
		FJSVscd.us	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.2	-	-	-	-	-	-	О	-	RAS control daemon, files
		FJSVscu.us	1.9.2	-	-	-	-	-	-	О	-	RAS control commands
		FJSVscuja	1.9.2	-	-	-	-	-	-	О	-	RAS control Japanese environment
		FJSViomp	2.3	0	О	О	О	0	О	-	-	IOMP level 2 framework for PRIMEPOWER250/ 450/650/800/850/1000/200 0 and GP7000F Models 1000/2000
		FJSVscd2	1.3.1	-	-	-	-	-	О	-	-	RAS control device drivers for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.3.1	-	-	-	-	-	О	-	-	RAS control daemon, files for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.3.1	-	-	-	-	-	О	-	-	RAS control commands for PRIMEPOWER800/1000/ 2000 and GP7000F Models 1000/2000

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW-	PW-	PW-	PW-	PW-	PW- U	Function
		FJSVscuj2	1.3.1	-	-	-	-	-	0	-	-	RAS control Japanese environment for PRIMEPOWER800/1000/ 2000 and GP7000F Models 1000/2000
		FJSVlscdx	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED) (64-bit)
		FJSVlscd	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED)
		FJSVlscr	1.2	-	-	-	-	-	-	-	О	RAS control control daemon, files
		FJSVlscu	1.2	-	-	-	-	-	-	-	О	RAS control commands
		FJSVlscuj	1.2	-	-	-	-	-	-	-	О	RAS control Japanese environment
		FJSVscd3	1.3.1	-	О	О	0	О	-	-	-	RAS control device drivers for PRIMEPOWER650/850 (SCF3 driver) (64-bit)
		FJSVscr3	1.3.1	-	О	О	O	О	-	-	-	RAS control daemon, files for PRIMEPOWER650/850
		FJSVscu3	1.3.1	-	О	О	О	0	-	-	-	RAS control commands for PRIMEPOWER650/850
		FJSVscuj3	1.3.1	-	О	О	О	О	-	-	-	RAS control Japanese environment for PRIMEPOWER650/850
		FJSVpscd	1.1	О	-	-	-	-	-	-	-	RAS control device drivers for PRIMEPOWER250/450 (SCF3 driver) (64-bit)
		FJSVpscr	1.1	О	-	-	-	-	-	-	-	RAS control daemon, files for PRIMEPOWER250/450
		FJSVpscu	1.1	О	-	-	-	-	-	-	-	RAS control commands for PRIMEPOWER250/450
		FJSVpscuj	1.1	О	-	-	-	-	-	-	-	RAS control Japanese environment for PRIMEPOWER250/450
4	SunVTS,	SUNWvts	5.1	О	О	О	О	О	О	О	О	Online diagnostic test
	FJVTS	SUNWvtsmn	5.1	О	0	О	0	О	О	О	О	-
		SUNWvtsx	5.1	О	О	0	О	О	О	О	О	
		FJSVvts	5.1	О	0	О	0	О	О	О	О	

No.	Component	Package name	Ver-	PW-	PW- CLZ	PW- CL	PW-	PW-	PW-	PW-	PW- U	Function
5	Web-Based Admin View/	FJSVwvcnf	2.0.3	О	О	О	О	О	О	О	О	WWW server for Web-Based Admin View
	WWW Server for Admin View	FJSVwvbs	2.1.2	0	О	О	О	0	О	О	О	Basic communication functionality for Web application.
6	Machine	FJSVmasv	2.2.3	О	О	О	О	О	О	О	О	Hardware fault monitoring
	Administrati	FJSVmand	2.2.4	-	-	-	-	-	-	О	О	and maintenance support
	on	FJSVsmnd	1.0.0	-	-	-	-	-	-	-	-	
		FJSVmadm	1.2.2	O	О	О	О	O	О	О	О	
		FJSVmaom	1.9.2	О	О	О	О	О	О	О	О	
		FJSVkmnd	1.7.2	1	-	-	-	-	О	-	-	
		FJSVkmsv	2.5.1	1	-	-	-	-	О	-	-	
		FJSVcmnd	1.5.2	1	0	О	0	О	-	-	-	
		FJSVpmnd	1.2.2	О	-	-	-	-	-	-	-	
7	Remote	FJSVmarm	2.0	-	-	-	-	-	-	О	О	Functions for connection
	Support	FJSVsmrm	1.0.0	-	-	-	-	-	-	-	-	to the Fujitsu Support
		FJSVkmrm	1.0.5	-	-	-	-	-	О	-	-	Center
		FJSVrlib	8.2.2	О	-	-	О	О	-	О	О	
		FJSVragt	2.9	О	-	-	0	О	-	О	О	
		FJSVrmaos	2.9	О	-	-	0	О	-	О	О	
		FJSVrrda	2.9	О	0	0	0	О	О	О	О	
		FJSVracm	2.9	О	О	О	О	О	О	О	О	
		FJSVsirms	3.2	О	0	0	0	О	О	О	О	
		FJSVcmrm	1.6	-	-	-	0	О	-	-	-	
		FJSVcmrm2	1.2	-	0	0	-	-	-	-	-	
		FJSVpmrm	1.3	О	-	-	-	-	-	-	-	
8	Auto Power Control System	FJSVapcs	1.4.0	O	О	О	О	О	О	О	-	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	0	О	О	О	0	О	О	О	Administrator View of the Auto Power Control System.
9	Server Default	FJSVdef	1.3.1	0	О	О	О	О	О	О	О	Prevents the system from using log files excessively.
	Configuration	FJSVssf	2.0.2	О	0	О	0	О	О	О	О	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	0	О	О	О	0	О	-	-	The Partition Dump Function (64-bit panel driver)
		FJSVpnl.us	2.1	0	О	О	О	0	О	-	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	О	О	О	О	О	О	О	-	The memory error inspection function

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No.	Component	Package name	Ver- sion	PW- P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW- K	PW- T	PW- U	Function
10	System Data Output Tool	FJSVsnap	2.5	O	O	O	O	0	O	O	О	Collects data regarding command execution results, files about hardware and software configurations, environment settings, logs, and operational status, then outputs the system information for system fault analysis to a tape unit, etc.
11	License Manager	FSUNlic	6.2	О	О	О	О	0	О	О	О	Manages software licenses.
12	Crash Dump Assistant	FJSVdmp	1.5	О	О	О	О	О	0	О	О	During the creation of a crash dump file at system reboot, Crash Dump Assistant invokes the "System Data Output Tool" to save necessary system data for problem investigation.
13	Auto Dump Analyze Tool	FJSVana	2.1	0	О	0	О	О	О	0	О	Gather files that are necessary for core dump analysis. (NOTE: This version ds not provide the automatic crash dump analysis function.)
14	Reliability	FJSVse	3.0.1	-	-	-	-	-	О	-	-	Serial port driver
	Driver	FJSVsec	2.0.1		О	О	-	-	-	-	-	
15	CPU Patrol Diagnosis	FJSVcpupd	1.3	-	- Note2	О	- Note2	0	О	О	-	Patrol diagnosis function for FUJITSU SPARC64 GP processors
16	G-LAN error notification	FJSVgidad. us	2.1.1	О	О	О	О	О	О	О	-	GigabitEthernet interface error notification
17	НСР	FJSVhcp	1.0	О	-	-	-	-	-	-	-	XSCF User's Guide, firmware and utility.
18	System Parameter Diagnosis	FJSVparam	1.1	О	О	О	О	О	О	О	О	System parameters of the Solaris system are diagnosed.
19	HRM-S	FJSVhrm	2.1.0	О	О	О	0	О	О	О	О	This function supports fast and reliable maintenance work for stable system operation.
20	Tape Driver Configuratio n Tool	FJSVdcnf	1.1	О	О	О	О	О	О	О	О	This function adds configuration parameters for target tape devices automatically.

No.	Component	Package name	Ver-	PW-	Function							
			sion	P	CLZ	CL	CMZ	CM	K	T	U	
21	Patch Information	FJSVpmgc	1.0	0	0	0	0	О	0	0	0	
	Collect											
	Command											

Note1: NGDR command FJSVdr is installed, but not supported.

Note2: CPU patrol diagnosis FJSVcpupd, installed but not supported on PW-CLZ and PW-CMZ models.

1.5 Solaris™ 10 Operating System

PW-P: PRIMEPOWER250/450

PW-CLZ : PRIMEPOWER900/1500(Model equipped with SPARC64™ V)/2500

PW-CL: PRIMEPOWER1500 (Model equipped with SPARC64™ GP)

PW-CMZ: PRIMEPOWER650 (Model equipped with SPARC64[™] V)/850 (Model equipped with SPARC64[™] V) PW-CM: PRIMEPOWER650(Model equipped with SPARC64[™] GP)/850(Model equipped with SPARC64[™] GP)

 $PW\text{-}K: PRIMEPOWER800/1000/2000, GP7000F\ Models\ 1000/2000$

PW-T: PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/600R

PW-U: PRIMEPOWER1

O: Supported, -: Not supported

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW-	PW-	PW- U	Function
1	Enhanced Support Facility Information Managemen t	FJSVbse	2.6	О	0	0	0	0	0	О	О	Installation material data management of Enhanced Support Facility
2	NGDR Command	FJSVdr	1.3	-	О	- Note1	-	-	О	-	-	Dynamic Reconfiguration
3	SCF Driver	FJSVscdx.u	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED) (64-bit)
		FJSVscd.us	1.9.2	-	-	-	-	-	-	О	-	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.2	-	-	-	-	-	-	О	-	RAS control daemon, files
		FJSVscu.us	1.9.2	-	-	-	-	-	-	О	-	RAS control commands
		FJSVscuja	1.9.2	-	-	-	-	-	-	О	-	RAS control Japanese environment
		FJSViomp	2.3	0	О	О	О	0	О	-	-	IOMP level 2 framework for PRIMEPOWER250/ 450/650/800/850/1000/200 0 and GP7000F Models 1000/2000
		FJSVscd2	1.3.1	-	-	-	-	-	О	-	-	RAS control device drivers for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.3.1	-	-	-	-	-	О	-	-	RAS control daemon, files for PRIMEPOWER800 /1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.3.1	-	-	-	-	-	О	-	-	RAS control commands for PRIMEPOWER800/1000/ 2000 and GP7000F Models 1000/2000

No.	Component	Package name	Ver-	PW-P	PW- CLZ	PW- CL	PW-	PW-	PW-	PW-	PW-	Function
		FJSVscuj2	1.3.1	-	-	-	-	-	0	-	-	RAS control Japanese environment for PRIMEPOWER800/1000/ 2000 and GP7000F Models 1000/2000
		FJSVlscdx	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED) (64-bit)
		FJSVlscd	1.2	-	-	-	-	-	-	-	О	RAS control device drivers (SCF driver, FaultLED)
		FJSVlscr	1.2	-	-	-	-	-	-	-	О	RAS control control daemon, files
		FJSVlscu	1.2	-	_	-	_	_	_	-	О	RAS control commands
		FJSVlscuj	1.2	-	-	-	-	-	-	-	О	RAS control Japanese environment
		FJSVscd3	1.3.1	-	О	О	О	О	-	-	-	RAS control device drivers for PRIMEPOWER650/850 (SCF3 driver) (64-bit)
		FJSVscr3	1.3.1	-	О	O	O	О	-	-	-	RAS control daemon, files for PRIMEPOWER650/850
		FJSVscu3	1.3.1	-	О	О	O	О	-	-	-	RAS control commands for PRIMEPOWER650/850
		FJSVscuj3	1.3.1	-	О	О	О	О	-	-	-	RAS control Japanese environment for PRIMEPOWER650/850
		FJSVpscd	1.1	О	-	-	-	-	-	-	-	RAS control device drivers for PRIMEPOWER250/450 (SCF3 driver) (64-bit)
		FJSVpscr	1.1	О	-	-	-	-	-	-	-	RAS control daemon, files for PRIMEPOWER250/450
		FJSVpscu	1.1	О	-	-	-	-	-	-	-	RAS control commands for PRIMEPOWER250/450
		FJSVpscuj	1.1	О	-	-	-	-	-	-	-	RAS control Japanese environment for PRIMEPOWER250/450
4	SunVTS,	SUNWvts	5.1	О	О	О	О	О	О	О	О	Online diagnostic test
	FJVTS	SUNWvtsmn	5.1	О	О	О	О	О	О	О	О	
		SUNWvtsx	5.1	О	О	О	О	О	О	О	О	
		FJSVvts	5.1	О	0	0	О	О	О	О	0	

No.	Component	Package name	Ver- sion	PW-P	PW- CLZ	PW- CL	PW- CMZ	PW-	PW-	PW-	PW- U	Function
5	Web-Based Admin	FJSVwvcnf	2.0.3	О	О	О	О	О	О	О	О	WWW server for Web-Based Admin View
	View / WWW Server for Admin View	FJSVwvbs	2.1.2	0	О	О	О	0	О	0	0	Basic communication functionality for Web application.
6	Machine	FJSVmasv	2.2.3	О	0	О	О	О	О	О	О	Hardware fault monitoring
	Administrati	FJSVmand	2.2.4	-	-	-	-	-	-	О	O	and maintenance support
	on	FJSVsmnd	1.0.0	-	-	-	-	-	-	-	-	
		FJSVmadm	1.2.2	О	0	О	0	О	О	0	О	
		FJSVmaom	1.9.2	О	0	О	0	О	О	0	О	
		FJSVkmnd	1.7.2	-	-	-	-	-	О	-	-	
		FJSVkmsv	2.5.1	-	-	-	-	-	О	-	-	
		FJSVcmnd	1.5.2	-	О	О	О	О	-	-	-	
		FJSVpmnd	1.2.2	О	-	-	-	-	-	-	-	
7	Remote	FJSVmarm	2.0	-	-	-	-	-	-	О	О	Functions for connection
	Support	FJSVsmrm	1.0.0	-	-	-	-	-	-	-	-	to the Fujitsu Support
		FJSVkmrm	1.0.5	-	-	-	-	-	О	-	-	Center
		FJSVrlib	8.2.2	О	-	_	0	О	_	О	О	
		FJSVragt	2.9	О	-	-	О	О	_	О	О	
		FJSVrmaos	2.9	О	-	-	0	О	-	О	О	
		FJSVrrda	2.9	О	0	0	0	О	О	О	О	
		FJSVracm	2.9	О	0	О	0	О	О	О	О	
		FJSVsirms	3.2	0	0	О	0	О	О	0	О	
		FJSVcmrm	1.6	-	-	-	0	О	_	_	-	
		FJSVcmrm2	1.2	-	0	О	-	-	-	-	-	
		FJSVpmrm	1.3	О	-	-	-	-	-	-	-	
8	Auto Power Control System	FJSVapcs	1.4.0	О	О	О	О	О	О	О	-	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	0	О	О	О	О	О	О	О	Administrator View of the Auto Power Control System.
9	Server Default	FJSVdef	1.4	О	О	О	О	О	О	О	О	Prohibit executions of the system suspending.
	Configuration	FJSVssf	3.0.1	О	О	О	О	О	О	О	О	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnl.us	3.0	О	О	О	О	0	О	-	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	2.0.1	О	О	О	О	О	О	О	-	The memory error inspection function

No.	Component	Package name	Ver-	PW-	PW-	PW-	PW-	PW-	PW-	PW-	PW-	Function
110.	Component	r ackage name	sion	P	CLZ	CL	CMZ	CM	K	T	U	Tunction
10	System Data Output Tool	FJSVsnap	2.5	0	O	O	O	0	0	0	0	Collects data regarding command execution results, files about hardware and software configurations, environment settings, logs, and operational status, then outputs the system information for system fault analysis to a tape unit, etc.
11	License Manager	FSUNlic	6.2	0	О	О	О	0	О	О	О	Manages software licenses.
12	Crash Dump Assistant	FJSVdmp	1.5	O	О	О	O	O	0	0	0	During the creation of a crash dump file at system reboot, Crash Dump Assistant invokes the "System Data Output Tool" to save necessary system data for problem investigation.
13	Auto Dump Analyze Tool	FJSVana	2.1	О	O	O	O	О	О	О	О	Gather files that are necessary for core dump analysis. (NOTE: This version ds not provide the automatic crash dump analysis function.)
14	Reliability	FJSVse	4.0	-	-	-	-	-	О	-	-	Serial port driver
	Driver	FJSVsec	3.0		О	О	-	-	-	-	-	
15	CPU Patrol Diagnosis	FJSVcpupd	1.3	-	- Note2	О	- Note2	О	О	О	-	Patrol diagnosis function for FUJITSU SPARC64 GP processors
16	G-LAN error notification	FJSVgidad	2.2.1	О	О	О	О	О	О	О	-	GigabitEthernet interface error notification
17	НСР	FJSVhcp	1.0	О	-	-	-	-	-	-	-	XSCF User's Guide, firmware and utility.
18	System Parameter Diagnosis	FJSVparam	1.1	О	О	О	О	О	О	О	О	System parameters of the Solaris system are diagnosed.
19	HRM-S	FJSVhrm	2.1.0	О	О	О	0	О	О	О	О	This function supports fast and reliable maintenance work for stable system operation.
20	Tape Driver Configuratio n Tool	FJSVdcnf	1.1	О	О	О	О	О	О	О	О	This function adds configuration parameters for target tape devices automatically.

No.	Component	Package name	Ver-	PW-	Function							
			sion	P	CLZ	CL	CMZ	CM	K	T	U	
21	Patch Information	FJSVpmgc	1.0	0	0	0	0	О	0	0	0	
	Collect											
	Command											

Note1: NGDR command FJSVdr is installed, but not supported.

Note2: CPU patrol diagnosis FJSVcpupd, installed but not supported on PW-CLZ and PW-CMZ models.

Chapter 2 Online Manuals

2.1 Manuals Related to Enhanced Support Facility

The following manuals, in HTML or PDF format, are stored on the Software CDROM.

No.	Manual title	Covered component	Format
	Enhanced Support Facility User's Guide	SCF Driver	
		System Data Output Tool	
		License Manager	
1		Server Default Configuration	HTML , pdf
		Reliability Driver	
		Patch Version Acquisition Command	
2	Machine Administration Guide	Machine Administration/Auto Power Control System	HTML , pdf
3	REMCS Agent Operator's Guide	Remote Support	HTML , pdf
4	FJVTS Test Reference Manual	SunVTS,FJVTS	HTML , pdf
5	SunVTS 2.1 Quick Reference Card	SunVTS,FJVTS	PostScript TM
6	Dynamic Reconfiguration User's Guide	DR Command, NGDR Command	HTML , pdf
7	Dynamic Reconfiguration User's Guide I/O device edition	DR Command, NGDR Command	HTML , pdf
8	CPU Patrol Diagnosis User's Guide	CPU Patrol Diagnosis	HTML , pdf
9	Web-Based Admin View Operation Guide	Web-Based Admin View/WWW Server for Admin View	HTML , pdf
10	System Parameter Diagnosis User's Guide	System Parameter Diagnosis	HTML , pdf
11	Tape driver configuration tool User's Guide	Tape Driver Configuration Tool	pdf
12	Enhanced Support Facility Update Information	Information on each updated component	HTML , pdf
13	Security System Building Guide Enhanced Support Facility	Information on the daemons and services supported by each component	pdf

2.2 Hardware and Other Manuals

The following manuals, in HTML or PDF format, are stored on the Software CDROM.

No.	Manual title	Covered component	Format
1	XSCF User's Guide	PRIMEPOWER250/450 User's guide for XSCF (system monitor), which consists of a dedicated processor independent of the mainframe CPU	Pdf
2	PCI Hot Plug User's Guide	PCI Hot Plug supporting models PRIMEPOWER450, 900, 1500, 2500, and HPC2500, and PCI Hot Plug supporting cards	HTML , pdf
3	PCI Hot Plug User's Guide I/O device edition	PCI Hot Plug supporting models PRIMEPOWER450, 900, 1500, 2500, and HPC2500, and PCI Hot Plug supporting cards	HTML , pdf
4	NTP Operator's Guide	For each model (NTP: Network Time Protocol, Time synchronization modes)	pdf

2.3 Referencing Methods

2.3.1 Referring to the online manuals (HTML format)

You can refer to the online manuals on the server or at a personal computer (PC) by using a Web browser that supports HTML3.2 (Microsoft® Internet Explorer 3.0 or later, Netscape Navigator® 3.0 or later, or Netscape® Communicator 4.0 or later, or Netscape 6.0 or later). Do not attempt to view these online manuals using HotJava TM. This may cause operational problems.

2.3.1.1 Using a PC

- 1. Insert the CD-ROM into the CD-ROM drive.
- 2. Open the following file using the Web browser.

CD-ROM_drive_name :\MANUAL\ENGLISH\INDEX.HTM

2.3.1.2 Using a server (Solaris™ Operating System)

- 1. Insert the CD-ROM into the CD-ROM drive on the server.
- 2. If the CD-ROM has not been mounted, mount it.

/etc/init.d/volmgt start <Return>

3. Open the following file using the Web browser.

/mount_point/manual/english/index.htm

2.3.2 Referring to the online manuals (PostScript™ format)

Refer to the following file using Image Viewer, etc. or print it by PostScript™ printer.

/mount_point/manual/english/sunvts/qref21e.ps
/mount_point/manual/english/sunvts/qref21ec.ps

/mount_point/manual/english/sunvts/gref21el.ps

Chapter 3 Operating Environment

To use this software, the following software and hardware prerequisites must be satisfied.

3.1 Software Environment

1) Basic Software prerequisites

Before you can use this software, one of the following Basic Software products must be installed.

No.	Name of Basic Software	Remarks
1	Solaris 2.6 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. SUNWbtool, SUNWtltk, SUNWxwice, SUNWdtcor, SUNWesu, SUNWxwfnt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWxcu4, SUNWdoc, SUNWipc, SUNWmfrun, SUNWxilow, SUNWxwplt, SUNWxwcft, SUNWxwopt, SUNWjvrt, SUNWxwcft, SUNWolrte, SUNWdtbas, SUNWjvjit, SUNWdtdte, SUNWdtdmn, SUNWoldst, SUNWadmc, SUNWcar, SUNWkvm, SUNWxi18n, SUNWjxcft, SUNWjxplt	 For PRIMEPOWER and GP7000F, Solaris 2.6 Hardware: 5/98 can be used. If you select the software group that contains "Developer System Support" when you install Solaris, you can install Solaris and the required packages at the same time.
2	Solaris 7 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. SUNWbtool, SUNWcslx, SUNWtltk, SUNWxwice, SUNWctpls, SUNWdtcor, SUNWesu, SUNWxwfnt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWxcu4, SUNWdoc, SUNWipc, SUNWmfrun, SUNWxilow, SUNWxwplt, SUNWxwcft, SUNWxwopt, SUNWjvrt, SUNWxwcft, SUNWcar, SUNWdtdmn, SUNWjvjit, SUNWdtdte, SUNWdtdmn, SUNWoldst, SUNWcar, SUNWkvm, SUNWxi18n, SUNWjxcft, SUNWjxplt	 For PRIMEPOWER and GP7000F, Solaris 7 5/99 or later can be used. If you select the software group that contains "Developer System Support" when you install Solaris, you can install Solaris or later and the required packages at the same time.

No.	Name of Basic Software	Remarks
3	Solaris 8 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. SUNWbtool, SUNWcslx, SUNWtlk, SUNWxwice, SUNWdtcor, SUNWctpls, SUNWesu, SUNWxwfnt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWocfr, SUNWlpmsg, SUNWpcr, SUNWpcu, SUNWpm, SUNWpsf, SUNWpsr, SUNWpsu, SUNWmp, SUNWxcu4, SUNWdoc, SUNWipc, SUNWipcx, SUNWibCx, SUNWipc, SUNWxwlt, SUNWij2rt, SUNWxwoft, SUNWxwplt, SUNWxwcft, SUNWxwoft, SUNWxwoft, SUNWjvrt, SUNWxwcft, SUNWdtdte, SUNWdtdmn, SUNWjvjit, SUNWdtdte, SUNWdtdmn, SUNWdrr, SUNWdrrx, SUNWxil8n, SUNWjexpl, SUNWpiclr, S	 For PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000, Solaris 8 6/00 PRIMEPOWER800/1000/2000 Compliance or Solaris 8 7/01 or later can be used. For PRIMEPOWER650(Model equipped with SPARC64TM GP)/ 850(Model equipped with SPARC64TM GP), Solaris 8 7/01 PRIMEPOWER650/850 Compliance, Solaris 8 2/02 PRIMEPOWER(650/850 available) or Solaris 8 2/02 Rev.4 can be used. For PRIMEPOWER650(Model equipped with SPARC64TM V)/ 850(Model equipped with SPARC64TM V), Solaris 8 2/02 Rev.4 can be used. For PRIMEPOWER250/450/900/1500/2500, Solaris 8 2/02 Rev.4 can be used. If you select the software group that contains "Developer Solaris Software Group" when you install Solaris, you can install Solaris and the required packages at the same time.
4	Solaris 9 To use this software on PRIMEPOWER and GP7000F systems, the following packages are required. SUNWbtool, SUNWcslx, SUNWtltk, SUNWxwice, SUNWdtcor, SUNWctpls, SUNWesu, SUNWxwfnt, SUNWxilrl, SUNWscpr, SUNWscpu, SUNWlibC, SUNWscpr, SUNWscpu, SUNWipc, SUNWkcu4, SUNWmfrun, SUNWxilow, SUNWcpp, SUNWzlib, SUNWxwplt, SUNWxwcft, SUNWxwopt, SUNWolrte, SUNWdtbas, SUNWj3rt, SUNWj3rt, SUNWdrr.us, SUNWdrrx.us, SUNWcar, SUNWdrr.us, SUNWdrrx.us, SUNWcar, SUNWkvm, SUNWxi18n, SUNWlccom, SUNWeurf, SUNWxwacx, SUNWi2rf, SUNWi4rf, SUNWi5rf, SUNWi7rf, SUNWi4rf, SUNWi9rf, SUNWi15rf, SUNWarrf, SUNWkxmft, SUNWcxmft, SUNWsxmft, SUNWkxmft, SUNWeuodf, SUNWjxmft, SUNWkxmft, SUNWeuodf, SUNWjxmft, SUNWlxmlx, SUNWzlibx, SUNWgss, SUNWfns, SUNWgssc, SUNWgssx, SUNWfnsx, SUNWxwplx, SUNWxwicx, SUNWcpc, SUNWcpcu, FJSVcpc	 For PRIMEPOWER1/200/400/600/800/1000/2000, GP7000F Models 200/200R/400/400R/400A/600/600R/1000/2000, Solaris 9 or later. For PRIMEPOWER650(Model equipped with SPARC64™ GP)/850(Model equipped with SPARC64™ GP), Solaris 9 12/02 or later. For PRIMEPOWER250/450/650(Model equipped with SPARC64™ V)/850(Model equipped with SPARC64™ V)/900/1500, Solaris 9 4/03 or later. For PRIMEPOWER2500, Solaris 9 12/03 or later. If you select the software group that contains "Developer Solaris Group" when you install Solaris, you can install Solaris and the required packages at the same time.

No.	Name of Basic Software	Remarks
5	Solaris 10	If you select the software group that contains
	To use this software on PRIMEPOWER and GP7000F	"Developer Solaris Group" when you install
	systems, the following packages are required.	Solaris, you can install Solaris and the required packages at the same time.
	SUNWbtool, SUNWtltk,	
	SUNWxwice, SUNWdtcor, SUNWctpls,	
	SUNWesu, SUNWxwfnt, SUNWxilrl,	
	SUNWtoo, SUNWxildh, SUNWxwrtl,	
	SUNWscpr, SUNWscpu, SUNWlibC,	
	SUNWxcu4, SUNWdoc, SUNWipc,	
	SUNWmfrun, SUNWxilow,	
	SUNWcpp, SUNWzlib, SUNWxwplt,	
	SUNWxwcft, SUNWxwopt, SUNWolrte,	
	SUNWdtbas, SUNWj3rt, SUNWj3irt,	
	SUNWdrr.us, SUNWcar,	
	SUNWkvm, SUNWxi18n, SUNWlccom,	
	SUNWeurf, SUNWxwacx, SUNWi2rf,	
	SUNWi4rf, SUNWi5rf, SUNWi7rf,	
	SUNWi8rf, SUNWi9rf, SUNWi15rf,	
	SUNWarrf, SUNWkxmft, SUNWcxmft,	
	SUNW5xmft, SUNWtxfnt, SUNWeuodf,	
	SUNWjxmft, SUNWjxcft, SUNWjxplt	
	SUNWlxml,	
	SUNWgss, SUNWfns, SUNWgssc,	
	SUNWcpc, SUNWcpcu,	
	FJSVcpc	

2) Software requirements

The software products listed in the following table are required to use Web-Based Admin View

No.	Name of software product	Package name	Version	Remarks
1	Java(TM)2 Runtime Environment, Standard Edition	j2re-1_3_1_15- windows-i586-i. exe	1.3.1	Needed to use Web-Based Admin View in Microsoft(R) Windows.
		j2re-1_4_2_07- windows-i586-p .exe	1.4.2	This is stored on Enhanced Support Facility CD-ROM.
2	Java(TM) Plug-in		10.1.2.2,REV =1999.12.06. 10.02 over 20.1.2.2,REV =1999.10.14. 18.04 over	Needed to use Web-Based Admin View in Solaris OS.
3	Java(TM)2 Runtime Environment, Standard Edition	j2re-1_3_1_15-s olaris-sparc.sh j2re-1_4_2_07-s olaris-sparc.sh	1.3.1	Needed to use Web-Based Admin View in Solaris OS. This is stored on Enhanced Support Facility CD-ROM.

3) Excluded software

When this software is used, do not install the following software product.

No.	Name of software product	Package name	Version	Remarks
1	System Console Software	All packages	1.0 and later	

4) Patch requirements

None

3.2 Hardware Environment

The following hardware environment is required when using this software.

1) Main memory

Main memory of 64Mbytes or more

For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, main memory must be 512 Mbytes or more.

2) Hardware requirements

None

3.3 Static Disk Requirements

The disk space requirements for this software are shown below.

3.3.1 Disk requirements

The following tables list the disk space requirements for installing this software. If disk space is insufficient, expand the size of the appropriate file systems.

3.3.1.1 PRIMEPOWER900/1500 (Models equipped with SPARC64™ V)/2500

NT.	D't	Disk space requirement (in Mbytes)			
No.	Directory	Solaris 8	Solaris 9	Solaris 10	
1	root	3.0	3.0	3.0	
2	/usr	1.5	1.5	1.5	
3	/var	8.0	10.0	15.5	
4	/export/home	0	0	0	
5	/opt *	186.5	238.0	237.5	

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.2 PRIMEPOWER1500 (Models equipped with SPARC64™ GP)

\ 111							
No.	D: 4	Disk space requirement (in Mbytes)					
	Directory	Solaris 8	Solaris 9	Solaris 10			
1	root	3.0	3.0	3.0			
2	/usr	1.5	1.5	1.5			
3	/var	8.0	10.0	15.5			
4	/export/home	0	0	0			
5	/opt *	186.5	238.0	237.5			

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.3 PRIMEPOWER250/450

NT.	D't.	Disk space requirement (in Mbytes)			
No.	Directory	Solaris 8	Solaris 9	Solaris 10	
1	root	2.5	2.5	4.0	
2	/usr	1.5	1.5	1.5	
3	/var	6.0	8.5	13.5	
4	/export/home	0	0	0	
5	/opt *	198.0	249.5	250.0	

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.4 PRIMEPOWER650 (Models equipped with SPARC64[™] V)/850 (Models equipped with SPARC64[™] V)

), T	D: +	Disk space requirement (in Mbytes)			
No.	Directory	Solaris 8	Solaris 9	Solaris 10	
1	root	2.5	2.5	2.5	
2	/usr	1.5	1.5	1.5	
3	/var	7.5	9.5	16.0	
4	/export/home	0	0	0	
5	/opt *	222.0	273.5	273.5	

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.5 PRIMEPOWER650 (Models equipped with SPARC64[™] GP)/850 (Models equipped with SPARC64[™] GP)

NI.	D't	Disk space requirement (in Mbytes)			
No.	Directory	Solaris 8	Solaris 9	Solaris 10	
1	root	2.5	2.5	2.5	
2	/usr	1.5	1.5	1.5	
3	/var	7.5	9.5	16.0	
4	/export/home	0	0	0	
5	/opt *	220.0	273.5	273.5	

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.6 PRIMEPOWER800/1000/2000

No.	D't		Disk spa	Disk space requirement (in Mbytes)		
	Directory	Solaris 2.6	Solaris 7	Solaris 8	Solaris 9	Solaris 10
1	root	2.0	2.5	3.0	3.0	2.5
2	/usr	1.5	1.5	1.5	1.5	1.5
3	/var	4.5	5.0	5.0	7.0	11.0
4	/export/home	0	0	0	0	0
5	/opt *	105.5	133.0	177.0	229.0	228.5

^{*)} Do not attempt to install this software in a directory other than " \prime opt."

3.3.1.7 GP7000F Models 1000/2000

No.	Directory	Disk space requirement (in Mbytes)					
		Solaris 7	Solaris 8	Solaris 9	Solaris 10		
1	root	2.5	3.0	3.0	2.5		
2	/usr	1.5	1.5	1.5	1.5		
3	/var	5.0	5.0	7.0	11.0		
4	/export/home	0	0	0	0		
5	/opt *	133.0	177.0	229.0	228.5		

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.8 PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/ 600R

2.7	D: +	Disk space requirement (in Mbytes)					
No.	Directory	Solaris 2.6	Solaris 7	Solaris 8	Solaris 9	Solaris 10	
1	root	2.0	2.0	2.0	2.5	2.5	
2	/usr	1.5	1.5	1.5	1.5	1.5	
3	/var	4.5	4.5	5.0	7.5	11.0	
4	/export/home	0	0	0	0	0	
5	/opt *	122.0	149.0	193.0	245.0	245.0	

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.1.9 PRIMEPOWER1

N	D: 1	Disk space requirement (in Mbytes)				
No.	Directory	Solaris 8	Solaris 9	Solaris 10		
1	root	2.0	2.0	2.0		
2	/usr	1.5	1.5	1.5		
3	/var	5.0	7.5	11.0		
4	/export/home	0	0	0		
5	/opt *	190.5	242.0	242.0		

^{*)} Do not attempt to install this software in a directory other than "/opt."

3.3.2 Work area requirements

When you install this software with the following installation procedures, additional disk workspace as shown below might be required.

No.	Via spool directory	Directory	Disk space requirement (in Mbytes)	Remarks
1	No	/tmp	0.5	

3.4 Dynamic Disk Resources

The dynamic disk space requirements for this software are shown below.

3.4.1 Disk space requirements

When you use this software for the following operations, additional disk space might be required in the directories listed in "3.3 Static Disk Requirements." If disk space is insufficient, expand the size of the appropriate file systems as shown.

PW-P: PRIMEPOWER250/450

PW-CLZ: PRIMEPOWER900/1500(Model equipped with SPARC64TM V)/2500

PW-CL : PRIMEPOWER1500 (Model equipped with SPARC64 $^{\text{\tiny{TM}}}$ GP)

 $PW\text{-}CMZ: PRIMEPOWER650 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ SPARC64^{\tiny{\mathsf{TM}}}\ V)/850 \ (Model \ equipped \ with \ equipped \ with$

PW-CM: PRIMEPOWER650(Model equipped with SPARC64™ GP)/850(Model equipped with SPARC64™ GP)

PW-K: PRIMEPOWER800/1000/2000, GP7000F Models 1000/2000

PW-T: PRIMEPOWER200/400/600, GP7000F Models 200/200R/400/400R/400A/600/600R

PW-U: PRIMEPOWER1

No.	Component	Directory	Additional disk space requirement (in M bytes)		Operation
1	DR Command/	/var/opt/FJSVdr/		1.0	
	NGDR Command	/opt		0.15	
		/etc/opt	0.07		
2	FJVTS	/var		0.1	message log
3	Machine	/opt	PW-T	0.2	
	Administration	/var	PW-T	2.0	
			PW-K	14.0	
			PW-P	203.8	
			PW-CM,	237.1	
			PW-CMZ		
			PW-CL,	02.5	
			PW-CLZ	83.6	
4	License Manager	/var		1.0	
5	Server Default	/var		1.0	Normal operation
	Configuration				(Solaris 7 or later)
6	CPU Patrol	/var		0.1	message log
	Diagnosis				
7	System Parameter Diagnosis	/var		2.0	log, backup
8	HRM-S	/var/opt/		100.0	Operation log

3.5 Memory Requirements

The following table shows the memory required when you use this software for the following operations

No.	Component	Memory required (unit: MB)	Operation
1	FJVTS	16.1	Executing the TP option with the default value, in the following situation: • 2CPU, 1Disk(4GB), 128MB memory

No.	Component	Memory required (unit: MB)	Operation
		46.0	Executing the TP option with the default value, in the following situation: • 1CPU, 2Disk(4GBx2), 128MB memory
2	CPU Performance Counter	1.0	Using the CPU performance function.
3	CPU Patrol Diagnosis	2.5	Standard use
4	HRM-S	32.0	Equipment composition information

3.6 Swap Space

The following shows the swap space requirement of this software in normal operation. The swap space requirement depends on the system situation. The total swap space can be calculating as the sum of each individual swap space requirement. If the swap space provided by the system is insufficient, it must be expanded.

No.	Component	Swap capacity (unit: Mbytes)	Description
1	DR Command/ NGDR Command	0.1	Executing Dynamic Reconfiguration.
2	SCF Driver	0.1	Normal operation (daemon, commands)
3	FJVTS	35.4	Executing the TP option with the default value, in the following situation:
			• 2CPU, 1Disk(4GB), 128MB memory
		54.0	Executing the TP option with the default value, in the following situation:
			• 1CPU, 2Disk(4GBx2), 128MB memory
4	Web-Based Admin View / WWW Server for Admin View	0.4	Starting the web daemon, and then accessing the management server from the client.
		19.2	Starting Java VM on the management server.
		20.6	Starting Java VM on the management server, then starting the environment setting menu on the management server from the client.
		20.4	Starting Java VM on the management server, then starting the Logging View menu on the management server from the client.
5	Machine Administration	46.7	Standard use (daemon, GUI menu)
6	Remote Support	4.2	Standard use (daemon)
7	Server Default	0.5	Normal operation (Solaris 7 or later)
	Configuration	0.7	Using the memory error inspection function.
8	License Manager	0.7	Normal management. Starting a license daemon.
9	CPU Patrol Diagnosis	32.6	Standard use (deamon, diagnostic program)
10	HRM-S	40.0	Equipment composition information

Chapter 4 Restrictions and Notes

4.1 Restrictions

None

4.2 Cautions when Upgrading

The cautions when upgrading from the previous level to this software level are described below.

4.2.1 User data compatibility

There are no user data incompatibilities between this version and the previous version of this software.

4.2.2 Environment definition file compatibility

There are no environment definition file incompatibilities between this version and the previous version of this software.

4.3 Notes

The notes shown below refer to functions described in this manual.

No.	Component	Description
1	Enhanced Support Facility	At version 1.3 this software name changed from "Basic Software Extension" to "Enhanced Support Facility."
	Information Management	You cannot install this software onto the System Management Console of PRIMEPOWER800/900/1000/1500/2000/2500 or GP7000F Models 1000/2000.
		The component "Online Trace" has been removed from version 1.7.
2	SunVTS	If the SUNWvts package is installed, "/opt/SUNWvts/README" is stored on the disk. Although it contains an explanation of the SUNWodu package, this package is not supported on PRIMEPOWER and GP7000F.
3	Web-Based Admin View/ WWW Server for Admin View	• The user group "wvroot" is automatically registered after installing the product. Register user name to this "wvroot" group when using the functions Environment Setting and Logging view menus by logging in with a user name which is not "root".
		• The numbers 8081, 9397, 9398, and 9399 are preset as the default port numbers for TCP protocol. The number 9396 is preset as the default port number for UDP protocol. Confirm that other products do not use these port numbers.
		These port numbers are added to the /etc/inet/services file after this product is installed.
		Refer to "Web-Based Admin View Operation Guide" when changing them.
		Java may create a core file in the following directories while using Web-Based Admin View, but this presents not problems for the use of Web-Based Admin View. • /var/opt/FJSVwvbs/logs/server
		• /var/opt/FJSVwvbs/logs/node

No.	Component	Description		
3	Web-Based Admin View/	The following Web browsers support Web-Based Admin View/WWW Server for Admin View: DC client		
	WWW Server for Admin View	- PC client		
		- Netscape Communicator 4.5 to 4.7x,Netscape 7.x		
		- Microsoft Internet Explorer 5.x or later		
		- Solaris OS client - Netscape Communicator 4.5 to 4.7x,Netscape 7.x		
		- Mozilla Web browser (Mozilla environment bundled in Solaris 10 OS)		
		Web-Based Admin View is only supported on the following Java platforms.		
		 Java platforms bundled with the following Solaris Solaris 2.6 		
		2) Solaris 7		
		3) Solaris 8		
		4) Solaris 9		
		5) Solaris 10		
		• The following Java platforms obtained from the Internet site of Sun Microsystems, Inc. etc. (Please refer to the attached README file when applying these products.)		
		1) Latest Java(TM) Development Kit 1.1.8		
		2) Java(TM) 2 SDK Standard Edition 1.2.2 or later, or Java(TM) Runtime Environment 1.2.2		
		3) Java(TM) 2 Runtime Environment Standard Edition v1.3.1		
		4) Java(TM) 2 Runtime Environment Standard Edition v1.4.2		
		Note: When using the Mozilla Web browser with Solaris 10 OS, use Java (TM) Runtime Environment Standard Edition v1.4.2_06.		
		 It is necessary to set up the Java Plug-in software on the client to use the Machine Administration Menu. Refer to "Web-Based Admin View Operation Guide" for the set up method. 		
		Operation using the Dynamic Host Configuration Protocol(DHCP) environment is not supported in Web-Based Admin View. The following messages are displayed when Web-Based Admin View is installed in a DHCP environment.		
		## Executing postinstall script.		
		cat: cannot open <be_name>/etc/nodename</be_name>		
		<be_name>: Blank when installing normally. The root directory</be_name>		
		(e.g. /.alt.copy1) of the new boot environment if installing by LiveUpgrade.		
		Note: however, that the installation of Enhansed Support Facility is correct and operational even if the above messages are displayed.		
4	Machine Administration	Users other than the root user must have their groups and user accounts registered to use the Machine Administration Menu.		
	Remote Support	Register the group as "cemainte."		
		The group is necessary on both the management server and the monitored node.		
		Register the user accounts into the group "cemainte."		
		• The management server and the monitored node of Web-Based Admin View The user accounts are necessary on both the management server and the monitored node. However, on PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, the group "cemainte" and its users are automatically registered when you install Solaris (OS) from the System Management Console.		
		The same version of Machine Administration is required on both the management server and the monitored node.		

No	Component	Description	
5	Auto Power Control System	Set the Auto Power Control System so that PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000 can be powered on or off automatically from the System Management Console.	
6	Server Default Configuration	Although Solaris Documentation mentions "Editing the /etc/init.d/sysetup file to activate the saving of crash dump files" in section "Enabling and Disabling Crash Dumps." You do not need edit the /etc/init.d/sysetup script. The dump configuration for saving crash dump is enabled automatically at Enhanced Support Facility installation. (Solaris 2.6 only) Reference manuals: Solaris 2.6 System Administrator Collection Vol.1 "Solaris Administration Guide" Solaris Documentation reminds you (in "Stopping and Disabling System Accounting") the when you disable Solaris system accounting, you must also remove "/var/adm/pacct". Reference manuals: Solaris 2.6 System Administrator Collection Vol.1 "Solaris Administration Guide" Solaris 7 System Administrator Collection "Solaris Administration Guide" Solaris 8 System Administrator Collection "Solaris Administration Guide" Solaris 9 System Administrator Collection "System Administration Guide: Advanced Administration" When a user logs on as a normal user using the CDE(dtlogin) login screen, "Solaris User Registration" will not be displayed. (PRIMEPOWER and GP7000F only) Do not disable the LOG_NOTICE (enabled by default) as the FJSVwarn package requires the LOG_NOTICE of syslog Prohibit the execution of system suspending by normal users. (PRIMEPOWER and GP7000F only)	
7	License Manager	Please take appropriate action by referring to "11.2.5 Installing a Package" of the Enhanced Support Facility 2.6 User's Guide when you install two or more FSUNlic packages.	
8	Reliability Driver	All the serial ports on the system board of PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 can be used for the System Management Console. Do not access to the following devices relating to serial ports. And, do not change the settings of applications(such as a port monitor) using the following device files. - /dev/term/a, b, - /dev/cua/a, b, - /dev/cua/fa000, fa001, - /dev/se_hdlc - /dev/se_hdlc0, se_hdlc1, However, devices not used as the console path may only be used for FJVTS and SunVTS. The usable default devices for FJVTS and SunVTS are /dev/term/fa003, fa004, and /dev/se_hdlc3, se_hdlc4. On PRIMEPOWER900/1500/2500, up to five serial ports excluding the two used for the console path may be used for user.	
9	CPU Performance Counter	CPU performance counter is (or will be) provided as a Solaris 8 standard feature on Solaris 8 10/01 or later versions. For Solaris 8 7/01 or earlier versions extra installation/uninstallation procedures is required in addition to those described in Chapter 5 "Installation Procedures". These additional procedures are the same as required to upgrade the CPU performance counter provided by Enhanced Support Facility 1.7, 1.7.1 or 1.8. See Appendix C.1 "Installation of CPU performance counter (including upgrade installation)" and C.2 "Uninstallation of CPU performance counter".	

10	Tape Driver Configuration Tool	When one of the following tape drives is connected during installation, this product automatically adds the tape driver definition to /kernel/drv/st.conf if that, applicable definition has not been included before: DDS4: PW023DT3, PW023DT4, PW0G3DT1 DAT72: PW023DT5, PW023DT6, PW0R3DT3, PW0G3DT2	
11	Patch Information Collect Command	If this command is to be executed by a user other than the superuser, apply the following patch in advance. Otherwise, the user cannot execute the command. Note that this patch is already included in PTE R03021 or later. Solaris 2.6 OS 106125-14 version or later: SunOS 5.6: Patch for patchadd and patchrm Solaris 7 OS 107171-11 version or later: SunOS 5.7: Fixes for patchadd and patchrm Solaris 8 OS 108987-12 version or later: SunOS 5.8: Patch for patchadd and patchrm Solaris 9 OS 112951-01 version or later: SunOS 5.9: patchadd and patchrm Patch If the above patch is not applied, executing this command will cause the system to shut down after displaying the following message: ERROR: fjcollect: Command execution failed: /usr/sbin/patchadd	

Chapter 5 Installation Procedures

5.1 For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000

To install the Enhanced Support Facility on PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, use the CD-ROM drive connected to the System Management Console.

If you operate the OS console on the System Management Console, use the RC2000. For more detailed information about System Management Console and RC2000, refer to "System Console Software User's Guide."

In the following description, it assumes at the shell prompt, that operations performed in the System Management Console window use the "system console," and with PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, use the "RC2000."

- For initial installation, see Section 5.1.1, "Installation."
- If an old version of Enhanced Support Facility is already installed, see Section 5.1.2, "Update installation."

5.1.1 Installation

5.1.1.1 Notes on installation

- User authority

To install this software, cron must be set up for execution with root and adm user authority. At installation, "/etc/cron.d/cron.allow" must be set so that users with root or admin authority can use cron. By default, these users are permitted to use cron and, therefore, the setting need not be changed unless the corresponding permissions were changed.

Also, for the login shell of root users and adm users written in the "etc/passwd" file, set a shell program that can be used as a command interpreter (for example, /sbin/sh). If you set a shell program that cannot be used as a command interpreter (for example, /bin/false), Enhanced Support Facility installation will fail.

- Mounting the file system

Before installing this software, start the system in single user mode, and then mount the required file system.

5.1.1.2 Installation time

It takes about 15 minutes to install this software. Note that this installation time excludes any time for rebooting, as that depends on the system configuration.

5.1.1.3 Installing Enhanced Support Facility

- Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive connected to the System Management Console
- Type "su" at the shell prompt.

```
RC2000 % su <Return>
```

3. Enter the root (superuser) password.

```
Password: password < Return > RC2000 #
```

4. Enter the OpenBoot environment.

```
RC2000 # /usr/sbin/shutdown -y -g0 -i0 <Return>
```

5. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

INIT: SINGLE USER MODE
Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance):password <Return>

6. Mount the required file system.

```
RC2000 # /usr/sbin/mountall -1 <Return>
```

7. Activate the network.

Activate the network is different for the Solaris version being used.

Each work method is explained separately as follows for Solaris10 or Solaris2.6, Solaris7, Solaris8 or Solaris9.

Case A For Solaris10

```
RC2000 # svcadm enable /network/initial <Return>
```

Case B For Solaris2.6 or Solaris7 or Solaris8 or Solaris9

b-1) Activate the network

```
RC2000 # /etc/init.d/inetinit start <Return>
```

b-2) Start the RPC service.

```
RC2000 # /etc/init.d/rpc start <Return>
```

b-3) Activate the network interface.

```
RC2000 # /etc/init.d/inetsvc start <Return>
```

b-4) Start the nfs client.

```
RC2000 # /etc/init.d/nfs.client start <Return>
```

8. Mount the CD-ROM.

```
RC2000 # mkdir -p /cdrom <Return>
RC2000 # /usr/sbin/mount -F nfs -o ro host:/cdrom/cdrom0 /cdrom <Return>
```

host: Indicates the host name of system management console.

9. Change the directory to the CD-ROM drive.

```
RC2000 # cd /cdrom <Return>
```

10. Install Enhanced Support Facility with the esfadd command.

```
RC2000 # bin/esfadd <Return>
```

Example

```
Enhanced Support Facility 2.6 will be installed.

Platform: FJSV,GPUSK

OS Release: Solaris 8

Do you want to continue with this installation? [yes or no ?]: yes

<Return>
```

- If the file system has not been mounted

If the file system has not been mounted, the alarm message shown below is displayed. Enter "no" to terminate the esfadd command.

Example

```
esfadd: ERROR: The directory (/opt) where the packages will be installed does not exist.

Do you want to continue with this installation? [yes or no ?]:
```

Note: If the message shown above is output even though the file system is mounted, the package may have been only partly installed. Enter "yes" to continue installation.

- When an old version of Enhanced Support Facility is installed

When an old version of Enhanced Support Facility is installed, the message shown below appears. In this case, the environment settings file needs to be saved. Do this by following the procedure in Section 5.1.2, "Update installation."

Example

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.6

Platform: FJSV,GPUSK
OS Release: Solaris 8

Do you want to continue with this update? [yes or no ?]:
```

 Check the version of the individual packages included in the installed Enhanced Support Facility using the esfver command.

```
RC2000 # bin/esfver -1 <Return>
```

Example

Note

The individual package versions displayed by this command may be later than the version listed in the program components table. But the installation will be OK.

12. Unmount the CD-ROM drive.

```
RC2000 # cd / <Return>
RC2000 # umount /cdrom <Return>
```

13. After running the following commands, eject the CD-ROM.

```
system console % eject cdrom <Return>
```

5.1.1.4 Messages appearing during installation

Note 1 Cancel installation if the following occurs:

When the following message is displayed during the installation, type "n" to exit the installation process.

```
A version of the <pkginst> package is already installed on this machine. Current administration ds not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

There are n more packages to be installed.

Do you want to continue with installation [y,n,?]
```

Note 2 The message shown below may be displayed but the installation can be performed without any problems.

Note 2-1

The following message may be displayed when installing SUNWvts package on Solaris 2.6, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/postinstall: usage: kill [ [ -sig ] id ... | -1]
```

Note 2-2

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7, 8, but the installation will complete normally.

```
Note: The SyMON configd package is not installed. This package is required in order to support the SunVTS physical configuration mapping mode. SunVTS will function normally in its default logical configuration mapping mode. However, if physical configuration mapping is desired, please install the correct SyMON configd package for your platform:

* For Desktop platform, install SUNWeswsa package.

* For WorkGroup Server platform, install SUNWeswga package.

* For Enterprise Server platform, install SUNWsycfd package.

:

/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ -sig ] id ...
```

Note 2-3

The following message may be displayed when installing SUNWvts package on Solaris 9, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/i.inetdconf:usage:kill[[-sig]id... | -1]
```

Note 2-4

The following message may be displayed when installing SUNWvts package on Solaris 10, but the installation will complete normally.

Example

```
inetconv: Notice: Service manifest for 100235/1 already generated as
/var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml, skipped
inetconv: Notice: Service manifest for 100083/1 already generated as
/var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already generated as
/var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the modified conf file...
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [-sig ] id ...
| -1 ]
```

Note 2-5

The following message may be displayed when installing FJSVscr or FJSVpscr or FJSVdef or FJSVcmnd packages, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note 3 Messages output during patch application

- When patches are available

After package installation is finished, the message shown below is output and patches are automatically applied.

For information on the patches that are applied, see README or README.ja in the patch directory ESFREMCSP on the product CD-ROM. The applied patches vary depending on the system status.

```
Enhanced Support Facility 2.6 collection patches will be applied.

Checking installed patches...

Verifying sufficient filesystem capacity (dry run method)...

Installing patch packages...

:

:

:

---- esfpatchadd result. ----

Applied patches:

912542-01
```

Note 3-1

If the following message is displayed, check the system environment. See "Appendix H When the patches fail to be applied" for details.

```
---- esfpatchadd result. ----
Patches not applied:

patch
```

Note 3-2

There is no problem with patch application if the following messages are displayed with Solaris 10.

```
touch: /var/sadm/patch/.patchaddLock cannot create
chmod: WARNING: can't access /var/sadm/patch/.patchaddLock
/usr/lib/patch/patchadd[27]: /var/sadm/patch/.patchaddLock: cannot
create
```

5.1.1.5 Reactivation of system

1. Reboot the system.

RC2000 # /usr/sbin/shutdown -y -g0 -i6 <Return>

5.1.1.6 Environment setting after installation

The following table lists the environment settings required to use this software. For documentation information, refer to "2 Online Manuals."

No.	Component	Description			
1	SCF Driver	 If you use the RAS control device driver, you need to change the PATH environment variable. Refer to "1.3 Server Setup" in "Enhanced Support Facility User's Guide" for the procedure. 			
2 Machine		If the following message is displayed on the PRIMEPOWER900/1500/2500, change the System Management Console setting and start system communication with the System Management Console.			
		Feb 28 10:28:23 host_name evsndd: Can't get host name.			
		Feb 28 10:28:23 host_name evsndd: Host or IP is not found.			
		To change the System Management Console setting and start communication:			
		1. Execute the /usr/sbin/FJSVmadm/scslset command, and change the System Management Console settings.			
		<pre># /usr/sbin/FJSVmadm/scslset <host console="" management="" name="" of="" system="" the=""> <return></return></host></pre>			
		2. Start system communication with the System Management Console.			
		# /usr/sbin/FJSVmadm/cmdevsnd -i <return></return>			
3	Web-Based Admin View/	• For Web-Based Admin View client setup, refer to "3.1 Preparations for Starting the Web-Based Admin View menu" in "Web-Based Admin View Operation Guide".			
	WWW Server for Admin View	• If the browser works incorrectly, remove the "swingall.jar" file, which was copied with the browser on the client, using the description in "3.1.3.2 Required for the Web Browser Environment" in the "Web-Based Admin View Operation Guide".			
		The Web browser must be restarted, after installing this software.			
		• The working environment for Web-Based Admin View is set automatically (based on the network environment) when Enhanced Support Facility is installed. If the Solaris network environment is changed after installing Enhanced Support Facility, Web-Based Admin View may not work correctly. Refer to "Chapter 6 Changing the Settings" in "Web-Based Admin View Operation Guide" for how to change the working environment for Web-Based Admin View.			
		• When Enhanced Support Facility is pre-installed, all settings of Web-Based Admin View are configured as localhost (127.0.0.1). To use Web-Based Admin View, you must change these IP address settings used by Web-Based Admin View. Refer to "Changing an IP Address on the Public LAN" and "Changing the management server" in "Web-Based Admin View Operation Guide V20."			

	1		
3	Web-Based Admin View/ WWW Server for Admin View	• Web-Based Admin View and WWW Server for Admin View automatically use the network ports when the system boots. The numbers 8081, 9396, 9397, 9398,and 9399 are preset set as the default network ports. If, for security purposes, you need to stop using these network ports, reboot the system after executing the following command. # /opt/FJSVwvbs/etc/bin/wvrcscript uninstall <return> This command makes Web-Based Admin View and WWW Server for Admin View default to non-automatic start. Note that in this case, the following functions and products can't be used from the Web browser. Use functions such as CUI as required.</return>	
		 - Machine Administration - SynfinityDisk - SynfinityCluster - SynfinityFile/Global,SynfinityFile/Global POWER Edition - Multipath Disk Control - PRIMECLUSTER 	
		Once the Web-Based Admin View and WWW Server for Admin View functions have been reset to automatic start, reboot the system after executing the following command. # /opt/FJSVwvbs/etc/bin/wvrcscript install <return></return>	
		• If the environment setting file of the FJSVwvbs package is restored using the wvEnvload command and the procedure described in "5.2.3 Environment restoration after installation" in Solaris 8, the environmental settings of Java in Web-Based Admin View will be changed to JDK 1.1 family (JDK 1.1.x). If you want to change these settings again, refer to "6.2.3 Changing Java Environment" in "Web-Based Admin View Operation Guide".	
4	Remote Support	• The remote support function's investigation data collection function uses three system semaphore identifiers for program resource management. For this reason, Fujtsu recommends increasing the value of system parameter "Semmni"* by about 10. When changing the setting, reboot the system afterwards to activate the new setting.	
		To edit the system parameter, add the following record to the /etc/system file (The following example increases the value of system parameter "Semmni" to 20.):	
		set semsys:seminfo_semmni = 20	
		* Semmni: Number of semaphore identifiers. The current value can be checked with the sysdef(1M) command.	

5	System Data Output Tool	fjsnap uses up memory and swap resources with the increase of the size of collected data because the command uses the /tmp directory as work area.	
		Under the PRIMECLUSTER system, failover might happen when you use fjsnap while the system is operating. So be sure to change the collected data and the working area of fjsnap.	
		1) Creation of the Forbidden file	
		Create the Forbidden file (/etc/opt/FJSVsnap/exclude) and write the following two lines in order to reduce the size of collected data.	
		VAR_OPT	
		/var/adm/sa	
		2) Change of the work area	
		Specify a work area other than the /tmp directory with -T option when you execute fjsnap.	
		Example#/opt/FJSVsnap/bin/fjsnap -T /var/tmp /var/tmp/fjsnap.out	
		If the message "fjsnap:WARNING: Not enough space in <work_dir>" is output while</work_dir>	
		fjsnap is running, stop the process and re-execute fjsnap by specifying a work area whose free space is larger than the size of collected data.	
		For more information of this procedure, refer to "Chapter 10 System Data Output Tool" of	

the user's guide of "Enhanced Support Facility".

5.1.1.7 Applying modifications

If the latest version of PTF (Program Temporary Fix), patches, etc. are available, please apply them. Refer to the manual supplied with the PTF or patches for information on how to do this.

5.1.2 Update installation

5.1.2.1 Notes on installation

- User authority

To install this software, cron must be set up to be used with root and adm user authority. At installation, "/etc/cron.d/cron.allow" must be set so that users with root or admin authority can use cron. By default, these users are permitted to use cron and, therefore, the setting need not be changed unless the corresponding permissions were changed.

Also, for the login shell of root users and adm users written in the "etc/passwd" file, set a shell program that can be used as a command interpreter (for example, /sbin/sh). If you set a shell program that cannot be used as a command interpreter (for example, /bin/false), Enhanced Support Facility installation will fail.

Mounting the file system

Before installing this software, start the system in single user mode, and then mount the required file system.

- Updating from Enhanced Support Facility 1.3 and earlier versions

Update installation of Enhanced Support Facility 1.3 or an earlier version to 2.6 cannot be performed. Use the same Enhanced Support Facility version CD-ROM to remove the entire old package and then install version 2.6. Then install Enhanced Support Facility 2.6 by referring to Section 5.1.1, "Installation."

Saving the environment settings file

If an update installation is to be performed, the environment settings file may need to be saved in advance. See Section 5.1.2.3, "Checking the system environment," to check whether the environment settings file needs to be saved.

5.1.2.2 Installation time

It takes about 15 minutes to install this software. Note that this installation time excludes any time for rebooting, as that depends on the system configuration.

5.1.2.3 Checking the system environment

- Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive connected to the System Management Console.
- 2. Type "su" at the shell prompt.

```
RC2000 % su <Return>
```

Enter the root (superuser) password.

```
Password: password < Return > RC2000 #
```

4. Enter the OpenBoot environment.

```
RC2000 # /usr/sbin/shutdown -y -g0 -i0 <Return>
```

5. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE

Type Ctrl-d to proceed with normal startup,

(or give root password for system maintenance):password <Return>
```

6. Mount the required file system.

```
RC2000 # /usr/sbin/mountall -1 <Return>
```

7. Activate the network.

Activate the network differs depending on the Solaris version being used.

Each work method is explained separately as follows for Solaris10 or Solaris2.6, Solaris7, Solaris8.

Case A For Solaris10

```
RC2000 # svcadm enable /network/initial <Return>
```

Case B For Solaris2.6, Solaris7, Solaris8, Solaris9

b-1) Activate the network

```
RC2000 # /etc/init.d/inetinit start <Return>
```

b-2) Start the RPC service.

```
RC2000 # /etc/init.d/rpc start <Return>
```

b-3) Activate the network interface.

```
RC2000 # /etc/init.d/inetsvc start <Return>
```

b-4) Start the nfs client.

```
RC2000 # /etc/init.d/nfs.client start <Return>
```

8. Mount the CD-ROM.

```
RC2000 # mkdir -p /cdrom <Return>
RC2000 # /usr/sbin/mount -F nfs -o ro host:/cdrom/cdrom0 /cdrom <Return>
```

host: Indicates the host name of system management console.

9. Change the directory to the CD-ROM drive.

```
RC2000 # cd /cdrom <Return>
```

10. Check the package to be updated to see whether there is an environment settings file that needs to be saved.

```
RC2000 # bin/esfadd -c <Return>
```

When the following message is displayed, type "yes."

```
Check the package that will be updated.

Platform: FJSV,GPUSK
OS Release: Solaris 8

Do you want to continue? [yes or no ?]: yes <Return>
```

The packages being updated will be displayed.

Example

PKGNAME	CURRENT VERSION	FUTURE VERSION
FJSVbse	2.2,REV=2002.02.1100 :	2.6,REV=2005.11.2900
FSUNlic	6.1.8,REV=2000.10.1100	6.2,REV=2002.03.2500
	_	ALLATION GUIDE if the package(s) for which in the above-mentioned package(s).

Refer to the table below to check whether there is an environment settings file that needs to be saved in advance for a package to be updated.

Package name	Environment setting file		
FJSVdr	/etc/opt/FJSVdr/reply/C/dr_op		
FJSVdrcmd			
FJSVscr2 /etc/opt/FJSVhwr/pwrctl.property			
FJSVscu2	/etc/opt/FJSVhwr/scf.conf		
FJSVscr3 /etc/opt/FJSVhwr/adrc.conf			
FJSVscu3			
FJSVwvbs	Provides the wvEnvsave command to save/restore the environment setting file.		
FJSVmasv	Provides the savelogs command to save/restore the environment setting file.		
FJSVmaom			
FJSVkmnd			
FJSVcmnd			
FJSVapcs	/var/opt/FJSVapcs/*		

If the environment settings file needs to be saved, see Section 5.1.2.4, "Saving the environment settings file," and save the environment settings file. If it need not be saved, proceed to Section 5.1.2.5, "Installing software."

If the following message is displayed, initial installation is required. Proceed to Section 5.1.1.3, "Installing software."

5.1.2.4 Saving the environment setting file

Save the reply file for Dynamic reconfiguration if you use Dynamic Reconfiguration and modified the reply file. Refer to "Dynamic Reconfiguration User's Guide 3.6.2 Reply file" for detail.

```
RC2000 # cp /etc/opt/FJSVdr/reply/C/dr_op save_file <Return>
```

Save the SCF Driver environment setting files.

- For the PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.

```
RC2000 # cd /
RC2000 # ls /etc/opt/FJSVhwr/adrc.conf | cpio -o -O save_file <Return>
```

- For the PRIMEPOWER900/1500/2500.

```
RC2000 # cd /
RC2000 # ls /etc/opt/FJSVhwr/pwrctl.property /etc/opt/FJSVhwr/scfconf
/etc/opt/FJSVhwr/adrc.conf | cpio -o -O save_file <Return>
```

If you are using the Web-Based Admin View /WWW Server for Admin View, save the environment setting file of FJSVwvbs package with the wvEnvsave command.

```
RC2000 # /etc/opt/FJSVwvbs/etc/bin/wvEnvsave save_file <Return>
```

If you are using Machine Administration or Remote Support, save the environment setting files of the packages constituting Machine Administration and Remote Support with the savelogs command.

```
RC2000 # /usr/sbin/FJSVmadm/savelogs -mo save_file_directory <Return>
```

If you are using the Auto Power Control System, save the older version of the environment setting file for the FJSVapcs package.

```
RC2000 # cd / <Return>
RC2000 # find /var/opt/FJSVapcs/ -print -depth | /usr/bin/cpio -o -0
save_file <Return>
```

Save the System Management Console settings < ONLY with PRIMEPOWER900/1500/2500>.

```
RC2000 # cp /etc/FJSVscslhostname save_file <Return>
```

5.1.2.5 Installing Enhanced Support Facility

1. Change the directory to the CD-ROM drive.

```
RC2000 # cd /cdrom <Return>
```

2. Install Enhanced Support Facility with the esfadd command.

```
RC2000 # bin/esfadd <Return>
```

The message shown below is displayed. Enter "yes" to continue installation.

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.6

Platform: FJSV,GPUSK
OS Release: Solaris 8

Do you want to continue with this update? [yes or no ?]: yes <Return>
```

If the file system has not been mounted

If the file system has not been mounted, the alarm message shown below is displayed. Enter "no" to terminate the esfadd command.

```
esfadd: ERROR: The directory (/opt) where the packages will be installed does not exist.

Do you want to continue with this installation? [yes or no ?]:
```

Note: If the message shown above is output even though the file system is mounted, the package may have been installed only partly. Enter "yes" to continue installation.

- If an old version of Enhanced Support Facility is not installed

If the following message is displayed, initial installation is required. Enter "yes" to continue installation.

```
Enhanced Support Facility 2.6 will be installed.

Platform: FJSV,GPUSK

OS Release: Solaris 8

Do you want to continue with this installation? [yes or no ?]: yes <Return>
```

Check the version of the individual packages included in the installed Enhanced Support Facility using the esfver command.

```
RC2000 # bin/esfver -1 <Return>
```

Example

Note

The individual package versions displayed by this command may be later than the version listed in the program components table. But the installation will be OK.

4. Unmount the CD-ROM drive.

```
RC2000 # cd / <Return>
RC2000 # umount /cdrom <Return>
```

5. After running the following commands, eject the CD-ROM.

```
system console % eject cdrom <Return>
```

5.1.2.6 Messages appearing during installation

Note 1 Cancel installation if the following occurs:

When the following message is displayed during the installation, type "n" to exit the installation process.

```
A version of the <pkginst> package is already installed on this machine. Current administration ds not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

There are n more packages to be installed.

Do you want to continue with installation [y,n,?]
```

Note 2 The message shown below may be displayed but the installation can be performed without any problems.

Note 2-1

The following message may be displayed when installing SUNWvts package on Solaris 2.6, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/postinstall: usage: kill [[-sig]id... | -1]
```

Note 2-2

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7, 8, but the installation will complete normally.

```
Note: The SyMON configd package is not installed. This package is required in order to support the SunVTS physical configuration mapping mode. SunVTS will function normally in its default logical configuration mapping mode. However, if physical configuration mapping is desired, please install the correct SyMON configd package for your platform:

* For Desktop platform, install SUNWeswsa package.

* For WorkGroup Server platform, install SUNWeswga package.

* For Enterprise Server platform, install SUNWsycfd package.

:

:

/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ -sig ] id ...
```

Note 2-3

The following message may be displayed when installing SUNWvts package on Solaris 9, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/i.inetdconf:usage:kill[[-sig]id...
| -1]
```

Note 2-4

The following message may be displayed when installing SUNWvts package on Solaris 10, but the installation will complete normally.

[Example]

```
inetconv: Notice: Service manifest for 100235/1 already generated as
/var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml, skipped
inetconv: Notice: Service manifest for 100083/1 already generated as
/var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already generated as
/var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the modified conf file...
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [[-sig]id...
| -1 ]
```

Note 2-5

The following message may be displayed when installing FJSVscr or FJSVpscr or FJSVdef or FJSVcmnd packages, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note 3: Messages output during patch application

- When patches are available

After package installation is finished, the message shown below is output and patches are automatically applied.

For information on the patches that are applied, see README or README.ja in the patch directory ESFREMCSP on the product CD-ROM. The applied patches vary depending on the system status.

```
Enhanced Support Facility 2.6 collection patches will be applied.

Checking installed patches...

Verifying sufficient filesystem capacity (dry run method)...

Installing patch packages...

:

:

:

---- esfpatchadd result. ----

Applied patches:

912542-01
```

Note 3-1 If the following message is displayed, check the system environment. See "Appendix H When the patches fail to be applied" for details.

```
---- esfpatchadd result. ----
Patches not applied:

patch
```

Note 3-2 There is no problem with patch application even though the following messages are displayed with Solaris10.

```
touch: /var/sadm/patch/.patchaddLock cannot create

chmod: WARNING: can't access /var/sadm/patch/.patchaddLock

/usr/lib/patch/patchadd[27]: /var/sadm/patch/.patchaddLock: cannot

create
```

5.1.2.7 Restoring the environment settings file

Where a previous version of the environment setting file has been saved using the instructions provided in "5.1.1.2 Saving the environment setting file" it can be restored as follows:

Modify the new reply file that is located at /etc/opt/FJSVdr/reply/C/dr_op. (Please use the saved version of previous reply file for reference). There may be new reply messages added as a result of the Enhanced Support Facility upgrade. Please also refer to "Dynamic Reconfiguration User's Guide 6.1.3.3 or 7.1.3.3" before modifying the reply file.

Restore the SCF Driver environment setting files.

- For the PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.

```
RC2000 # cd / <Return>
RC2000 # cpio -iu -I save_file <Return>
RC2000 # chown root /etc/opt/FJSVhwr/adrc.conf <Return>
RC2000 # chgrp root /etc/opt/FJSVhwr/adrc.conf <Return>
```

- For the PRIMEPOWER900/1500/2500.

```
RC2000 # cd / <Return>
RC2000 # cpio -iu -I save_file <Return>
RC2000 # chown root /etc/opt/FJSVhwr/pwrctl.property
/etc/opt/FJSVhwr/scf.conf /etc/opt/FJSVhwr/adrc.conf <Return>
RC2000 # chgrp sys /etc/opt/FJSVhwr/pwrctl.property
/etc/opt/FJSVhwr/scf.conf <Return>
RC2000 # chgrp root /etc/opt/FJSVhwr/adrc.conf <Return>
```

Restore the environment setting file of the Web-Based Admin View /WWW Server for Admin View with the wvEnvload command.

```
RC2000 # /etc/opt/FJSVwvbs/etc/bin/wvEnvload save_file <Return>
```

Restore the environment setting file of the Machine Administration and Remote Support with the savelogs command.

```
RC2000 # /usr/sbin/FJSVmadm/savelogs -r save_file_directory <Return>
```

Restore the environment setting file of the Auto Power Control System.

```
RC2000 # /usr/bin/cpio -iu -I save_file <Return>
```

Restore the System Management Console setting <ONLY with PRIMEPOWER900/1500/2500>

```
RC2000 # cp save_file /etc/FJSVscslhostname <Return>
```

5.1.2.8 Reactivation of system

1. Reboot the system.

```
RC2000 # /usr/sbin/shutdown -y -g0 -i6 <Return>
```

5.1.2.9 Environment setting after installation

The following table lists the environment settings required to use this software. For documentation information, refer to "2 Online Manuals."

No.	Component	Description	
1	SCF Driver	 If you use the RAS control device driver, you need to change the PATH environment variable. Refer to "1.3 Server Setup" in "Enhanced Support Facility User's Guide" for procedure. 	

2	Machine Administration If the following message is displayed on PRIMEPOWER900/1500/2500, change t Management Console setting and start system communication with the System Ma Console.			
		Feb 28 10:28:23 host_name evsndd: Can't get host name.		
		Feb 28 10:28:23 host_name evsndd: Host or IP is not found.		
		To change the System Management Console setting and start communication: 1. Execute the /usr/sbin/FJSVmadm/scslset command, and change the System Management		
		Console settings.		
		<pre># /usr/sbin/FJSVmadm/scslset <host console="" management="" name="" of="" system="" the=""> <return></return></host></pre>		
		2. Start system communication with the System Management Console.		
		# /usr/sbin/FJSVmadm/cmdevsnd -i <return></return>		
3	Web-Based Admin View/	 For Web-Based Admin View client setup, refer to "3.1 Preparations for Starting the Web-Based Admin View menu" in "Web-Based Admin View Operation Guide". 		
	WWW Server for Admin View	• If the browser works incorrectly, remove the "swingall.jar" file, which was copied with the browser on the client, using the description in "3.1.3.2 Required for the Web Browser Environment" in the "Web-Based Admin View Operation Guide".		
		The Web browser must be restarted, after installing this software.		
		• The working environment for Web-Based Admin View is set automatically (based on the network environment) when Enhanced Support Facility is installed. If the Solaris network environment is changed after installing Enhanced Support Facility, Web-Based Admin View may not work correctly. Refer to "Chapter 6 Changing the Settings" in "Web-Based Admin View Operation Guide" for how to change the working environment for Web-Based Admin View.		
		• When Enhanced Support Facility is pre-installed, all settings of Web-Based Admin View are configured as localhost (127.0.0.1). To use Web-Based Admin View, you must change these IP address settings used by Web-Based Admin View. Refer to "Changing an IP Address on the Public LAN" and "Changing the management server" in "Web-Based Admin View Operation Guide V20."		
		• Web-Based Admin View and WWW Server for Admin View automatically use the network ports when the system boots. The numbers 8081, 9396, 9397, 9398,and 9399 are preset set as the default network ports. If, for security purposes, you need to stop using these network ports, reboot the system after executing the following command. # /opt/FJSVwvbs/etc/bin/wvrcscript uninstall <return> This command makes Web-Based Admin View and WWW Server for Admin View default to non-automatic start. Note that in this case, the following functions and products can't be used from the Web browser. Use functions such as CUI as required.</return>		
		 - Machine Administration - SynfinityDisk - SynfinityCluster - SynfinityFile/Global,SynfinityFile/Global POWER Edition - Multipath Disk Control - PRIMECLUSTER 		
		Once the Web-Based Admin View and WWW Server for Admin View functions have been reset to automatic start, reboot the system after executing the following command. # /opt/FJSVwvbs/etc/bin/wvrcscript install <return></return>		
		• If the environment setting file of the FJSVwvbs package is restored using the wvEnvload command and the procedure described in "5.2.3 Environment restoration after installation"		

in Solaris 8, the environmental settings of Java in Web-Based Admin View will be changed to JDK 1.1 family (JDK 1.1.x). If you want to change these settings again, refer to "6.2.3

Changing Java Environment" in "Web-Based Admin View Operation Guide".

4	Remote Support	• The remote support function's investigation data collection function uses three system semaphore identifiers for program resource management. For this reason, Fujtsu recommends increasing the value of system parameter "Semmni"* by about 10. When changing the setting, reboot the system afterwards to activate the new setting.			
		To edit the system parameter, add the following record to the /etc/system file (The following example increases the value of system parameter "Semmni" to 20.):			
		set semsys:seminfo_semmni = 20			
		* Semmni: Number of semaphore identifiers. The current value can be checked with the sysdef(1M) command.			
5	System Data Output Tool	fjsnap uses up memory and swap resources with the increase of the size of collected data because the command uses the /tmp directory as work area.			
		Under the PRIMECLUSTER system, failover might happen when you use fjsnap while the system is operating. So be sure to change the collected data and the working area of fjsnap.			
		Creation of the Forbidden file			
		Create the Forbidden file (/etc/opt/FJSVsnap/exclude) and write the following two lines in order to reduce the size of collected data.			
		VAR_OPT			
		/var/adm/sa			
		2) Change of the work area			
		Specify work area other than the /tmp directory with -T option when you execute fjsnap.			
		example# /opt/FJSVsnap/bin/fjsnap -T /var/tmp /var/tmp/fjsnap.out			
		If the message of "fjsnap:WARNING: Not enough space in <work_dir>" is output while fjsnap is running, stop the process and re-execute fjsnap by specifying work area whose free space is larger than the size of collected data.</work_dir>			
		For more information on this procedure, refer to "Chapter 10 System Data Output Tool" of the user's guide of "Enhanced Support Facility".			

5.1.2.10 Applying modifications

If the latest version of PTF (Program Temporary Fix), patches, etc. are available, please apply them. Refer to the manual supplied with the PTF or patches for information on how to do this.

5.2 For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R

In a standard configuration, no CD-ROM drive is mounted on PRIMEPOWER1. In this case, use the CD-ROM drive mounted on another system on the network.

For information on how to use the CD-ROM drive, refer to the following manual in Solaris Documentation:

- Solaris 8 System Administrator Collection
 - "Using CDs From the Command Line (Tasks)" in "System Administration Guide"
- Solaris 9 System Administrator Collection
 "Accessing Removable Media (Tasks)" in "System Administration Guide: Basic Administration"

Note

If you need to make local CDs available to other systems, add the following line to the /etc/rmmount.conf file.

share cdrom* -o ro,anon=0

- For initial installation, see Section 5.2.1, "Installation."
- If an old version of Enhanced Support Facility is already installed, see Section 5.2.2, "Update installation."

5.2.1 Installation

5.2.1.1 Notes on installation

User authority

To install this software, cron must be set up for execution with root and adm user authority. At installation, "/etc/cron.d/cron.allow" must be set so that users with root or admin authority can use cron. By default, these users are permitted to use cron and, therefore, the setting need not be changed unless the corresponding permissions were changed.

Also, for the login shell of root users and adm users written in the "etc/passwd" file, set a shell program that can be used as a command interpreter (for example, /sbin/sh). If you set a shell program that cannot be used as a command interpreter (for example, /bin/false), Enhanced Support Facility installation will fail.

- Mounting the file system

Before installing this software, start the system in single user mode, and then mount the required file system.

5.2.1.2 Installation time

It takes about 15 minutes to install this software. Note that this installation time excludes any time for rebooting, as that depends on the system configuration.

5.2.1.3 Installing Enhanced Support Facility

1. Type "su" at the shell prompt.

```
% su <Return>
```

2. Enter the root (superuser) password.

```
Password: password <Return> #
```

3. Enter the OpenBoot environment.

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

4. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE

Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance): password <Return>
```

5. Mount the required file system.

```
# /usr/sbin/mountall -1 <Return>
```

6. Mount the CD-ROM

The following explains how to mount the CD-ROM under Solaris 2.6 OS, 7 OS, and 8 OS, and under Solaris 9 OS and 10 OS.

a) Solaris 2 OS, 6 OS, 7 OS, and 8 OS

Start the volume management and insert the Enhanced Support Facility CD-ROM into the CD-ROM drive.

```
# /etc/init.d/volmgt start <Return>
volume management starting.
```

b) Solaris 9 OS and 10 OS

The CD-ROM needs to be mounted manually. Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive. Mount the CD-ROM according to Appendix D, "Manual Mount of CD-ROM in Single User Mode."

7. Change the directory to the CD-ROM drive.

```
# cd /cdrom/cdrom0 <Return>
```

8. Install Enhanced Support Facility with the esfadd command.

```
# bin/esfadd <Return>
```

Example

```
Enhanced Support Facility 2.6 will be installed.
    Platform: FJSV,GPUS
    OS Release: Solaris 8
Do you want to continue with this installation? [yes or no?]: yes <Return>
```

- If the file system has not been mounted

If the file system has not been mounted, the alarm message shown below is displayed. Enter "no" to terminate the esfadd command.

Example

```
esfadd: ERROR: The directory (/opt) where the packages will be installed does not exist.

Do you want to continue with this installation? [yes or no ?]:
```

Note

If the message shown above is output even though the file system is mounted, the package may have been only partly installed. Enter "yes" to continue installation.

- When an old version of Enhanced Support Facility is installed

When an old version of Enhanced Support Facility is installed, the message shown below appears. In this case, the environment settings file needs to be saved. Do this by following the procedure in Section 5.2.2, "Update installation."

Example

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.6

Platform: FJSV,GPUSK
OS Release: Solaris 8

Do you want to continue with this update? [yes or no ?]:
```

Check the individual package versions included in the installed Enhanced Support Facility with the esfver command.

bin/esfver -l <Return>

Support Facil	ackages Version of already installed Enhanced	
PKGNAME	VERSION	REVISION
FJSVbse	2.6	2005.11.2900
FJSVdrcmd	1.8 : :	2003.10.0200
FJSVparam	1.0	2003.10.2800

Note

The individual package versions displayed by this command may be later than the versions listed in the program components table. But the installation is OK.

10. After running the following commands, eject the CD-ROM.

```
# cd / <Return>
# eject cdrom <Return>
```

5.2.1.4 Messages appearing during installation

Note 1: Cancel installation if the following occurs:

When the following message is displayed during the installation, type "n" to exit the installation process.

A version of the <pkginst> package is already installed on this machine. Current administration ds not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

There are n more packages to be installed.

Do you want to continue with installation [y,n,?]

Note 2: The message shown below may be displayed but the installation can be performed without any problems.

Note 2-1

The following message may be displayed when installing SUNWvts package on Solaris 2.6, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/postinstall: usage: kill [ [-sig ] id ... | -1]
```

Note 2-2

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7, 8, but the installation will complete normally.

```
Note: The SyMON configd package is not installed. This package is required in order to support the SunVTS physical configuration mapping mode. SunVTS will function normally in its default logical configuration mapping mode. However, if physical configuration mapping is desired, please install the correct SyMON configd package for your platform:

* For Desktop platform, install SUNWeswsa package.

* For WorkGroup Server platform, install SUNWeswga package.

* For Enterprise Server platform, install SUNWsycfd package.

:
:
:
:
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -1]
```

Note 2-3

The following message may be displayed when installing SUNWvts package on Solaris 9, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

Note 2-4

The following message may be displayed when installing SUNWvts package on Solaris 10, but the installation will complete normally.

[Example]

```
inetconv: Notice: Service manifest for 100235/1 already generated
as /var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml,
skipped
inetconv: Notice: Service manifest for 100083/1 already generated
as /var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already generated
as /var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the modified conf file...
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ -sig ]
id ... | -1 ]
```

Note 2-5

The following message may be displayed when installing FJSVscr or FJSVdef or FJSVcmnd packages, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note 3: Messages output during patch application

- When patches are available

After package installation is finished, the message shown below is output and patches are automatically applied.

For information on the patches that are applied, see README or README.ja in the patch directory ESFREMCSP on the product CD-ROM. The applied patches vary depending on the system status.

```
Enhanced Support Facility 2.6 collection patches will be applied.

Checking installed patches...

Verifying sufficient filesystem capacity (dry run method)...

Installing patch packages...

:
:
:
:
---- esfpatchadd result. ----

Applied patches:
912542-01
```

Note 3-1

If the following message is displayed, check the system environment. See "Appendix H When the patches fail to be applied" for details.

```
---- esfpatchadd result. ----
Patches not applied:

patch
```

Note 3-2

There is no problem with patch application if the following messages are displayed with Solaris 10.

```
touch: /var/sadm/patch/.patchaddLock cannot create chmod: WARNING: can't access /var/sadm/patch/.patchaddLock /usr/lib/patch/patchadd[27]: /var/sadm/patch/.patchaddLock: cannot create
```

5.2.1.5 Reactivation of system

Reboot the system.

```
# /usr/sbin/shutdown -y -g0 -i6 <Return>
```

5.2.1.6 Environment setting after installation

The following table lists the environment settings required to use this software. For documentation information, refer to "Chapter 2 Online Manuals".

No.	Component	Description	
1	SCF Driver	• If you use the RAS control device driver, you need to change the PATH environment variable. Refer to "1.3 Server Setup" in "Enhanced Support Facility User's Guide" for the procedure.	

2	Web-Based Admin	To set up a client for Web-Based Admin View, refer to "3.1 Preparations for Starting the Web-Based Admin View menu" of "Web-Based Admin View Operation Guide".
	View/WWW Server for Admin View	• If the browser does not work correctly, remove the "swingall.jar" file which was copied with the browser on the client using the description in "3.1.3.2 Required for the Web Browser Environment" in the "Web-Based Admin View Operation Guide".
		The Web browser must be restarted, after installing this software.
		• The working environment for Web-Based Admin View is set automatically based on the network environment when Enhanced Support Facility is installed. If the Solaris network environment is changed after installing Enhanced Support Facility, Web-Based Admin View may not work correctly. Refer to "Chapter 6 Changing the Settings" of "Web-Based Admin View Operation Guide" for how to change the working environment for Web-Based Admin View.
		When Enhanced Support Facility is pre-installed, all settings of Web-Based Admin View are configured as localhost (127.0.0.1). To use Web-Based Admin View, you must change these IP settings Web-Based Admin View by referring to "Changing an IP Address on the Public LAN" and "Changing the management server" in "Web-Based Admin View Operation Guide V20."
		Web-Based Admin View and WWW Server for Admin View automatically use the network ports when the system boots. The numbers of 8081, 9396, 9397, 9398, and 9399 are preset as the default network ports. If, for security, you need to stop using these network ports, reboot the system after executing the following command. #/opt/FJSVwvbs/etc/bin/wvrcscript uninstall This command, makes Web-Based Admin View and WWW Server for Admin View default to non-automatic start. Note that in this case, the following functions and products can't be used from the Web browser. Use other functions such as CUI, as necessary.
		 - Machine Administration - SynfinityDisk - SynfinityCluster - SynfinityFile/Global,SynfinityFile/Global POWER Edition - Multipath Disk Control - PRIMECLUSTER
		Once the Web-Based Admin View and WWW Server for Admin View functions are reset to automatic start, reboot the system after executing the following command. #/opt/FJSVwvbs/etc/bin/wvrcscript install
		• If the environment setting file of the FJSVwvbs package is restored using the wvEnvload command and the procedure described in "5.2.3 Environment restoration after installation" in Solaris 8, the environment settings of Java in Web-Based Admin View will be changed to JDK 1.1 family (JDK 1.1.x). If you want to change these settings again, refer to "6.2.3 Changing Java Environment" in the "Web-Based Admin View Operation Guide".
3	Remote Support	The remote support function's investigation data collection function uses three system semaphore identifiers for program resource management. For this reason, Fujtsu recommends increasing the value of system parameter "Semmni"* by about 10. When changing the setting, reboot the system afterwards to activate the new setting.
		To edit the system parameter, add the following record to the /etc/system file (The following example increases the value of system parameter "Semmni" to 20.):
		set semsys:seminfo_semmni = 20
		* Semmni: Number of semaphore identifiers. The current value can be checked with the sysdef(1M) command.

4	System Data Output Tool	fjsnap uses up memory and swap resources with the increase of the size of collected data because the command uses the /tmp directory as work area.
		Under the PRIMECLUSTER system, failover might happen when you use fjsnap while the system is operating. So be sure to change the collected data and the working area of fjsnap.
		1) Creation of the Forbidden file
		Create the Forbidden file (/etc/opt/FJSVsnap/exclude) and write the following two lines in order to reduce the size of collected data.
		VAR_OPT
		/var/adm/sa
		2) Change of the work area
		Specify a work area other than the /tmp directory with -T option when you execute fjsnap.
		example# /opt/FJSVsnap/bin/fjsnap -T /var/tmp /var/tmp/fjsnap.out
		If the message "fjsnap:WARNING: Not enough space in <work_dir>" is output while fjsnap is running, stop the process and re-execute fjsnap by specifying a work area whose free space is larger than the size of collected data.</work_dir>
		For more information of this procedure, refer to "Chapter 10 System Data Output Tool" of the user's guide of "Enhanced Support Facility".

5.2.1.7 Applying modifications

If the latest version of PTF (Program Temporary Fix), patches, etc. are available, please apply them. Refer to the manual supplied with the PTF or patches for information on how to do this.

5.2.2 Update installation

5.2.2.1 Notes on installation

- User authority

To install this software, cron must be set up to be used with root and adm user authority. At installation, "/etc/cron.d/cron.allow" must be set so that users with root or admin authority can use cron. By default, these users are permitted to use cron and, therefore, the setting need not be changed unless the corresponding permissions were changed.

Also, for the login shell of root users and adm users written in the "etc/passwd" file, set a shell program that can be used as a command interpreter (for example, /sbin/sh). If you set a shell program that cannot be used as a command interpreter (for example, /bin/false), Enhanced Support Facility installation will fail.

- Mounting the file system

Before installing this software, start the system in single user mode, and then mount the required file system.

- Updating from Enhanced Support Facility 1.3 and earlier versions

Update installation of Enhanced Support Facility 1.3 or an earlier version to 2.6 cannot be performed. Use the same Enhanced Support Facility version CD-ROM to remove the entire old package and then install version 2.6. Then install Enhanced Support Facility 2.6 by referring to Section 5.2.1, "Installation."

- Saving the environment settings file

If an update installation is to be performed, the environment settings file may need to be saved in advance. See Section 5.2.2.3, "Checking the system environment," to check whether the environment settings file needs to be saved.

5.2.2.2 Installation time

It takes about 15 minutes to install this software. Note that this installation time excludes any time for rebooting, as that depends on the system configuration.

5.2.2.3 Checking the system environment

1. Type "su" at the shell prompt.

```
% su <Return>
```

2. Enter the root (superuser) password.

```
Password: password <Return> #
```

3. Enter the OpenBoot environment.

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

4. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE
Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance): password <Return>
```

5. Mount the required file system.

```
# /usr/sbin/mountall -1 <Return>
```

6. Mount the CD-ROM

The following explains how to mount the CD-ROM under Solaris 2.6 OS, 7 OS, and 8 OS, and under Solaris 9 OS and 10 OS.

a) Solaris 2 OS, 6 OS, 7 OS, and 8 OS

Start the volume management and insert the Enhanced Support Facility CD-ROM into the CD-ROM drive

```
# /etc/init.d/volmgt start <Return>
volume management starting.
```

b) Solaris 9 OS and 10 OS

The CD-ROM needs to be mounted manually. Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive. Mount the CD-ROM according to Appendix D, "Manual Mount of CD-ROM in Single User Mode."

7. Change the directory to the CD-ROM drive.

```
# cd /cdrom/cdrom0 <Return>
```

 Check the package to be updated to see whether there is an environment settings file that needs to be saved.

```
# bin/esfadd -c <Return>
```

When the following message is displayed, type "yes."

```
Check the package that will be updated.

Platform: FJSV,GPUS
OS Release: Solaris 8

Do you want to continue? [yes or no ?]: yes <Return>
```

The packages being updated will be displayed.

PKGNAME	CURRENT VERSION	FUTURE VERSION
FJSVbse FJSVvts	2.2,REV=2000.02.1100 4.0,REV=2000.11.2100 :	2.6,REV=2005.11.2900 4.0,REV=2003.10.2100
FSUNlic	6.1.8,REV=2000.10.1100	6.2,REV=2002.03.2500
Please save data according to the INSTALLATION GUIDE if the package(s) for which the save of data is necessary exist in the above-mentioned package(s).		

Refer to the table below to check whether there is an environment settings file that needs to be saved in advance for a package to be updated.

Package name	Environment setting file
FJSVscr.us	/etc/opt/FJSVhwr/pwrctl.property
FJSVlscr	/etc/opt/FJSVhwr/scf.conf
FJSVscr3	
FJSVpscr	
FJSVwvbs	Provides the wvEnvsave command to save/restore the environment setting file.
FJSVmand	Provides the savelogs command to save/restore the environment setting file.
FJSVmarm	
FJSVmasv	
FJSVrlib	
FJSVragt	
FJSVrmaos	
FJSVcmrm	
FJSVcmnd	
FJSVpmrm	
FJSVpmnd	
FJSVapcs	/var/opt/FJSVapcs/*

If the environment settings file needs to be saved, see Section 5.2.2.4, "Saving the environment settings file," and save the environment settings file. If it need not be saved, proceed to Section 5.2.2.5, "Installing software."

If the following message is displayed, initial installation is required. Proceed to Section 5.2.1.3, "Installing software."

5.2.2.4 Saving the environment setting file

Save the SCF Driver environment setting files.

```
# cd / <Return>
# /bin/ls /etc/opt/FJSVhwr/pwrctl.property /etc/opt/FJSVhwr/scf.conf
| /usr/bin/cpio -o -O save_file <Return>
```

If you are using the Web-Based Admin View /WWW Server for Admin View, save the environment setting file of FJSVwvbs package with the wvEnvsave command.

```
# /etc/opt/FJSVwvbs/etc/bin/wvEnvsave save_file <Return>
```

If you are using the Machine Administration or the Remote Support, save the environment setting files of the packages constituting Machine Administration and Remote Support with the savelogs command.

```
# /usr/sbin/FJSVmadm/savelogs -mo save_file_directory <Return>
```

If you are using the Auto Power Control System, save the older version of the environment setting file for the FJSVapcs package.

```
# cd / <Return>
# find /var/opt/FJSVapcs/ -print -depth | /usr/bin/cpio -o -O save_file
<Return>
```

5.2.2.5 Installing Enhanced Support Facility

1. Change the directory to the CD-ROM drive.

```
# cd /cdrom/cdrom0 <Return>
```

2. Install Enhanced Support Facility with the esfadd command.

```
# bin/esfadd <Return>
```

The message shown below is displayed.
Enter "yes" to continue installation.

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.6

Platform: FJSV,GPUSK
OS Release: Solaris 8

Do you want to continue with this update? [yes or no ?]: yes <Return>
```

- If the file system has not been mounted

If the file system has not been mounted, the alarm message shown below is displayed. Enter "no" to terminate the esfadd command.

```
esfadd: ERROR: The directory (/opt) where the packages will be installed does not exist.

Do you want to continue with this installation? [yes or no ?]:
```

Note

If the message shown above is output even though the file system is mounted, the package may have been installed only partly. Enter "yes" to continue installation.

- If an old version of Enhanced Support Facility is not installed

If the following message is displayed, initial installation is required. Enter "yes" to continue installation.

```
Enhanced Support Facility 2.6 will be installed.

Platform: FJSV, GPUSK
OS Release: Solaris 8

Do you want to continue with this installation? [yes or no?]: yes <Return>
```

Check the individual package versions included in the installed Enhanced Support Facility with the esfver command.

```
# bin/esfver -1 <Return>
```

Note

The individual package versions displayed by this command may be later than the versions listed in the program components table. But the installation is OK.

4. After running the following commands, eject the CD-ROM.

```
# cd / <Return>
# eject cdrom <Return>
```

5.2.2.6 Messages appearing during installation

Note 1: Cancel installation if the following occurs:

When the following message is displayed during the installation, type "n" to exit the installation process.

```
A version of the <pkginst> package is already installed on this machine. Current administration ds not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

There are n more packages to be installed.

Do you want to continue with installation [y,n,?]
```

Note 2: The message shown below may be displayed but the installation can be performed without any problems.

Note 2-1

The following message may be displayed when installing SUNWvts package on Solaris 2.6, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/postinstall: usage: kill [ [ -sig ] id ... | -1]
```

Note 2-2

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7, 8, but the installation will complete normally.

```
Note: The SyMON configd package is not installed. This package is required in order to support the SunVTS physical configuration mapping mode. SunVTS will function normally in its default logical configuration mapping mode. However, if physical configuration mapping is desired, please install the correct SyMON configd package for your platform:

* For Desktop platform, install SUNWeswsa package.

* For WorkGroup Server platform, install SUNWeswga package.

* For Enterprise Server platform, install SUNWsycfd package.

:
:
:
:
//var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ -sig ] id ... | -1]
```

Note 2-3

The following message may be displayed when installing SUNWvts package on Solaris 9, but the installation will complete normally.

```
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

Note 2-4

The following message may be displayed when installing SUNWvts package on Solaris 10, but the installation will complete normally.

[Example]

```
inetconv: Notice: Service manifest for 100235/1 already
generated as
/var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml,
skipped
inetconv: Notice: Service manifest for 100083/1 already
generated as
/var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already
generated as
/var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the modified conf file...
/var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill
[ [ -sig ] id ... | -1 ]
```

Note 2-5

The following message may be displayed when installing FJSVscr or FJSVpscr or FJSVdef or FJSVcmnd packages, but the installation will complete normally.

```
cron may not be running - call your system administrator
```

Note 3: Messages output during patch application

- When patches are available

After package installation is finished, the message shown below is output and patches are automatically applied.

For information on the patches that are applied, see README or README.ja in the patch directory ESFREMCSP on the product CD-ROM. The applied patches vary depending on the system status.

```
Enhanced Support Facility 2.6 collection patches will be applied.

Checking installed patches...

Verifying sufficient filesystem capacity (dry run method)...

Installing patch packages...

:
:
:
:
---- esfpatchadd result. ----

Applied patches:
912542-01
```

Note 3-1

If the following message is displayed, check the system environment. See "Appendix H When the patches fail to be applied" for details.

```
---- esfpatchadd result. ----
Patches not applied:

patch
```

Note 3-2

There is no problem with patch application even though the following messages are displayed with Solaris10.

```
touch: /var/sadm/patch/.patchaddLock cannot create chmod: WARNING: can't access /var/sadm/patch/.patchaddLock /usr/lib/patch/patchadd[27]: /var/sadm/patch/.patchaddLock: cannot create
```

5.2.2.7 Restoring the environment settings file

When a previous version of the environment setting file has been saved using the instructions provided in "5.2.2.4 Saving the environment setting file" it can be restored as follows: Restore the SCF Driver environment setting files.

```
# cd / <Return>
# cpio -iu -I save_file <Return>
# chown root /etc/opt/FJSVhwr/pwrctl.property /etc/opt/FJSVhwr/
scf.conf <Return>
# chgrp sys /etc/opt/FJSVhwr/pwrctl.property /etc/opt/FJSVhwr/
scf.conf <Return>
```

Restore the environment setting file of the Web-Based Admin View /WWW Server for Admin View with the wvEnvload command.

```
# /etc/opt/FJSVwvbs/etc/bin/wvEnvload save_file <Return>
```

Restore the environment setting file of the Machine Administration and Remote Support with the savelogs command.

```
# /usr/sbin/FJSVmadm/savelogs -r save_file_directory <Return>
```

Restore the environment setting file of the Auto Power Control System, and then change the permission.

```
# /usr/bin/cpio -iu -I save_file <Return>
# chmod 644 /var/opt/FJSVapcs/* <Return>
```

5.2.2.8 Reactivation of system

1. Reboot the system.

```
# /usr/sbin/shutdown -y -g0 -i6 <Return>
```

5.2.2.9 Environment setting after installation

The following table lists the environment settings required to use this software. For documentation information, refer to "Chapter 2 Online Manuals".

No.	Component	Description
1	SCF Driver	If you use the RAS control device driver, you need to change the PATH environment variable. Refer to "1.3 Server Setup" in "Enhanced Support Facility User's Guide" for procedure.

2	Web-Based Admin	To set up on client for Web-Based Admin View, refer to "3.1 Preparations for Starting the Web-Based Admin View menu" of "Web-Based Admin View Operation Guide".
	View/WWW Server for Admin View	• If the browser does not work correctly, remove the "swingall.jar" file which was copied with the browser on the client using the description in "3.1.3.2 Required for the Web Browser Environment" in the "Web-Based Admin View Operation Guide".
		The Web browser must be restarted, after installing this software.
		• The working environment for Web-Based Admin View is set automatically based on the network environment when Enhanced Support Facility is installed. If the Solaris network environment is changed after installing Enhanced Support Facility, Web-Based Admin View may not work correctly. Refer to "Chapter 6 Changing the Settings" of "Web-Based Admin View Operation Guide" for how to change the working environment for Web-Based Admin View.
		When Enhanced Support Facility is pre-installed, all settings of Web-Based Admin View are configured as localhost (127.0.0.1). To use Web-Based Admin View, you must change these IP settings Web-Based Admin View by referring to "Changing an IP Address on the Public LAN" and "Changing the management server" in "Web-Based Admin View Operation Guide V20."
		 Web-Based Admin View and WWW Server for Admin View automatically use the network ports when the system boots. The numbers of 8081, 9396, 9397, 9398, and 9399 are preset as the default network ports. If, for security, you need to stop using these network ports, reboot the system after executing the following command.
		 - Machine Administration - SynfinityDisk - SynfinityCluster - SynfinityFile/Global,SynfinityFile/Global POWER Edition - Multipath Disk Control - PRIMECLUSTER
		Once the Web-Based Admin View and WWW Server for Admin View functions are reset to automatic start, reboot the system after executing the following command. #/opt/FJSVwvbs/etc/bin/wvrcscript install
		• If the environment setting file of the FJSVwvbs package is restored using the wvEnvload command and the procedure described in "5.2.3 Environment restoration after installation" in Solaris 8, the environment settings of Java in Web-Based Admin View will be changed to JDK 1.1 family (JDK 1.1.x). If you want to change these settings again, refer to "6.2.3 Changing Java Environment" in the "Web-Based Admin View Operation Guide".
3	Remote Support	• The remote support function's investigation data collection function uses three system semaphore identifiers for program resource management. For this reason, Fujtsu recommends increasing the value of system parameter "Semmni"* by about 10. When changing the setting, reboot the system afterwards to activate the new setting.
		To edit the system parameter, add the following record to the /etc/system file (The following example increases the value of system parameter "Semmni" to 20.):
		set semsys:seminfo_semmni = 20
		* Semmni: Number of semaphore identifiers. The current value can be checked with the sysdef(1M) command.

4	System Data Output Tool	fjsnap uses up memory and swap resources with the increase of the size of collected data because the command uses the /tmp directory as work area.
		Under the PRIMECLUSTER system, failover might happen when you use fjsnap while the system is operating. So be sure to change the collected data and the working area of fjsnap.
		3) Creation of the Forbidden file
		Create the Forbidden file (/etc/opt/FJSVsnap/exclude) and write the following two lines in order to reduce the size of collected data.
		VAR_OPT
		/var/adm/sa
		4) Change of the work area
		Specify work area other than the /tmp directory with -T option when you execute fjsnap.
		example# /opt/FJSVsnap/bin/fjsnap -T /var/tmp /var/tmp/fjsnap.out
		If the message "fjsnap:WARNING: Not enough space in <work_dir>" is output while fjsnap is running, stop the process and re-execute fjsnap by specifying a work area whose free space is larger than the size of collected data.</work_dir>
		For more information of this procedure, refer to "Chapter 10 System Data Output Tool" of the user's guide of "Enhanced Support Facility".

5.2.2.10 Applying modifications

If the latest version of PTF (Program Temporary Fix), patches, etc. are available, please apply them. Refer to the manual supplied with the PTF or patches for information on how to do this.

Chapter 6 Removing Enhanced Support Facility

The following procedures describe how to remove all of the packages provided in this software.

6.1 For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000

To remove the Enhanced Support Facility, use the esfrm command on the CD-ROM.

As PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000 are not supplied with a CD-ROM drive, use the CD-ROM drive connected to the System Management Console.

If you operate the OS console on the System Management Console, use the RC2000. For more detailed information about System Management Console and RC2000, refer to "System Console Software User's Guide."

In the following description, it assumes at the shell prompt, that operations performed in the System Management Console window use the "system console," and with PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000 use the "RC2000."

Note

- This software uses cron via the root and adm users. Before removing this software, cron ensure that the root and adm users are not disabled. By default these users are allowed to use cron, so there is no need to check your system if no changes have been made. If any change has been made to the system, remove this software after you revert to the default settings.

(For example, the adm user must not be set to /bin/false in the /etc/passwd file.)

- Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive connected to the System Management Console
- 2. Type "su" at the shell prompt.

```
RC2000 % su <Return>
```

3. Enter the root(superuser) password.

```
Password: password < Return > RC2000 #
```

4. Enter the OpenBoot environment.

```
RC2000 # /usr/sbin/shutdown -y -g0 -i0 <Return>
```

5. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE
Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance):password <Return>
```

6. Mount the required file system.

```
RC2000 # /usr/sbin/mountall -1 <Return>
```

Activate the network.

Activate the network is different for the Solaris version being used.

Each work method is explained separately as follows for Solaris10 or Solaris2.6, Solaris7, Solaris8 or Solaris9.

Case A For Solaris10

```
RC2000 # svcadm enable /network/initial <Return>
```

Case B For Solaris2.6 or Solaris7 or Solaris8 or Solaris9

b-1) Activate the network

```
RC2000 # /etc/init.d/inetinit start <Return>
```

b-2) Start the RPC service.

```
RC2000 # /etc/init.d/rpc start <Return>
```

b-3) Activate the network interface.

```
RC2000 # /etc/init.d/inetsvc start <Return>
```

b-4) Start the nfs client.

```
RC2000 # /etc/init.d/nfs.client start <Return>
```

8. Mount the CD-ROM.

```
RC2000 # /usr/sbin/mount -F nfs -o ro host:/cdrom/cdrom0 /cdrom <Return>
```

host: Indicates the host name of system management console.

9. Change the directory to the CD-ROM drive.

```
RC2000 # cd /cdrom <Return>
```

10. Remove Enhanced Support Facility with the esfrm command.

```
RC2000 # bin/esfrm <Return>
```

When the following message is displayed, type "all.", "no", or "part".

```
Enhanced Support Facility 2.6 will be removed.

FJSVbse Enhanced Support Facility Information Management (sparc) 2.6,REV=2005.11.2900

:
:
:FJSVparam System Parameter Diagnosis (sparc) 1.0,REV=2003.11.1800

There is a possibility to cause problem(s) in the system when the package(s) where '*' adheres to the head of the package name is deleted.

Please input 'all' when you want to remove all packages, input 'part' when you want to remove only package(s) where '*' ds not adhere, or input 'no' when you want to interrupt the uninstallation.

Please select. [all, no or part]:
```

Confirmation messages will be displayed when removing the packages. Type "y" to continue the removal.

Do not remove packages that are depended on by other packages. If you attempt to remove the package, the following message will be displayed. Type "n."

```
WARNING:
The <pkg> package depends on the package currently being removed.
Dependency checking failed.
Do you want to continue with the removal of this package [y,n,?,q] n <Return>
```

If the following message is displayed, type "y" to continue the removal.

```
Do you want to continue with package removal [y,n,?,q] y <Return>
```

Note1

Please interrupt esfrm as shown in the figure below when packages preceded by "*" exist. You will need to remove the cause of the "*" display. Afterwards, execute "esfrm" again, and then use "part" to ensure package(s) still marked with "*", are not deleted.

```
Enhanced Support Facility 2.6 will be removed.

FJSVbse Enhanced Support Facility Information Management (sparc) 2.6,REV=2005.11.2900

FJSVscdx System Control Driver (SCF and Fault LED) (64-bit) (sparc.sun4us) 1.9.1,REV=2003.11.1100

*FJSVwvcnf WWW Server for Admin View (sparc) 1.5,REV=2002.11.2700

:
:
:
:

FJSVdmp Crash Dump Assistant (sparc) 1.5,REV=2002.11.2700
```

There is a possibility to cause problem(s) in the system when the package(s) where '*' adheres to the head of the package name is deleted.

Please input 'all' when you want to remove all packages, input 'part' when you want to remove only package(s) where '*' ds not adhere, or input 'no' when you want to interrupt the uninstallation. Please select. [all, no or part]:

Note2

The following message may be displayed when removing FJSVrlib package, but the removal will be complete normally.

mkdir: Faild to make directory "/opt/FJSVrlib/etc/apply"; No such file or directory

Note3

The following message may be displayed when removing FJSVmadm or FJSVmasv package, but the removal will be complete normally.

rm: /var/opt/FJSVmadm/xxx/xxxxxxxx is a directory

Note4

The following message may be displayed when removing SUNWvts package on Solaris 2.6, 7, 8, 9, but the removal will complete normally.

/var/sadm/pkg/SUNWvts/install/preremove: usage: kill [[-sig] id ... | -1] SMM message filter module 'msgfltr' not found

Note5

The following messages may be displayed when removing SUNWvts package on Solaris 10, but the removal will complete normally.

[Example]

```
inetconv: Notice: Service manifest for 100235/1 already generated as
/var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml, skipped
inetconv: Notice: Service manifest for 100083/1 already generated as
/var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already generated as
/var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the restored conf file...
/var/sadm/pkg/SUNWvts/install/r.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

Note6

The following message may be displayed when removing FJSVdef package, but the removal will complete normally.

cron may not be running - call your system administrator

Note7

The following message may be displayed when removing FJSVmadm package on Solaris 2.6, 7, 8, 9, but the removal will complete normally.

/var/sadm/pkg/FJSVmadm/install/preremove: /usr/bin/svcprop: not found

Note8

There is no problem in the deletion though the following messages might be displayed in the zone environment of Solaris 10 while deleting the package.

pkgrm: ERROR: unable to perform preremoval check of package <FJSVxxxx> in zone <zonearea>

11. Unmount the CD-ROM.

```
RC2000 # cd / <Return>
RC2000 # umount /cdrom <Return>
```

12. Reboot the system.

```
RC2000 # /usr/sbin/shutdown -y -g0 -i6 <Return>
```

13. Eject the CD-ROM.

```
system console % eject cdrom <Return>
```

6.2 For PRIMEPOWER1/200/400/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R

No CD-ROM drive is mounted on PRIMEPOWER1 as standard. In this case, use the CD-ROM drive mounted on another system on the network.

For information on how to use the CD-ROM drive, refer to the following manual in Solaris Documentation:

- Solaris 8 System Administrator Collection
 - "Using CDs From the Command Line (Tasks)" in "System Administration Guide"
- Solaris 9 System Administrator Collection
 - "Accessing Removable Media (Tasks)" in "System Administration Guide: Basic Administration"

Note

- If you need to make local CDs available to other systems, add the following line to the /etc/rmmount.conf

share cdrom* -o ro,anon=0

- This software uses cron via the root and adm users. Before removing this software, cron ensure that the root and adm users are not disabled. By default these users are allowed to use cron, so there is no need to check your system if no changes have been made. If any change has been made to the system, remove this software after you revert to the default settings.

(For example, the adm user must not be set to /bin/false in the /etc/passwd file.)

1. Type "su" at the shell prompt.

```
% su <Return>
```

2. Enter the root(superuser) password.

```
Password: password < Return>
```

3. Enter the OpenBoot environment.

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

4. Boot the system in single-user mode.

```
{?} ok boot -s <Return>
```

When the following message is displayed, enter the password.

```
INIT: SINGLE USER MODE

Type Ctrl-d to proceed with normal startup,
(or give root password for system maintenance):password <Return>
```

5. Mount the required file system.

```
# /usr/sbin/mountall -1 <Return>
```

Mount the CD-ROM

The following explains how to mount the CD-ROM under Solaris 2.6 OS, 7 OS, and 8 OS, and Solaris 9 OS and 10 OS.

a) Solaris 2 OS, 6 OS, 7 OS, and 8 OS

Start the volume management and insert the Enhanced Support Facility CD-ROM into the CD-ROM drive.

```
# /etc/init.d/volmgt start <Return>
volume management starting.
```

b) Solaris 9 OS and 10 OS

The CD-ROM needs to be mounted manually. Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive. Mount the CD-ROM according to Appendix D, "Manual Mount of CD-ROM in Single User Mode."

7. Change the directory to the CD-ROM drive.

```
# cd /cdrom/cdrom0 <Return>
```

8. Remove Enhanced Support Facility with the esfrm command.

```
# bin/esfrm <Return>
```

When the following message is displayed, type "all", "no", or "part".

Confirmation messages will be displayed when removing the packages. Type "y" to continue the removal.

Do not remove packages that are depended on by other packages. If you attempt to remove the package, the following message will be displayed. Type "n."

```
WARNING:
The <pkg> package depends on the package currently being removed.

Dependency checking failed.

Do you want to continue with the removal of this package [y,n,?,q] n <Return>
```

If the following message is displayed, type "y" to continue the removal.

```
Do you want to continue with package removal [y,n,?,q] y <Return>
```

Note1

Please interrupt esfrm as shown in the figure below when packages preceded by an "*" exist. You will need to remove the cause for the "*" display. Afterwards, please execute "esfrm" again, and then use "part" to ensure package(s) still marked by "*", are not deleted.

```
Enhanced Support Facility 2.6 will be removed.
             Enhanced Support Facility Information Management
FJSVbse
             (sparc) 2.6, REV=2005.11.2900
FJSVscdx
              System Control Driver (SCF and Fault LED) (64-bit)
             (sparc.sun4us) 1.9.1, REV=2003.11.1100
*FJSVwvcnf
              WWW Server for Admin View
             (sparc) 2.0.2, REV=2001.07.0900
FJSVdmp
              Crash Dump Assistant
             (sparc) 1.5, REV=2002.11.2700
There is a possibility to cause problem(s) in the system when the
package(s) where '*' adheres to the head of the package name is deleted.
Please input 'all' when you want to remove all packages, input 'part'
when you want to remove only package(s) where '*' ds not adhere,
or input 'no' when you want to interrupt the uninstallation.
Please select. [all, no or part]:Select [all, no, part]:nol
```

Note2

The following message may be displayed when removing FJSVrlib package, but the removal will complete normally.

```
mkdir: Faild to make directory "/opt/FJSVrlib/etc/apply"; No such file or
directory
```

Note3

The following message may be displayed when removing FJSVmadm or FJSVmasv package, but the removal will be complete normally.

```
rm: /var/opt/FJSVmadm/xxx/xxxxxxxx is a directory
```

Note4

The following messages may be displayed when removing the SUNWvts package on Solaris 2.6, 7, 8, 9, but the removal will complete normally.

```
/var/sadm/pkg/SUNWvts/install/preremove: usage: kill [ [ -sig ] id ... | -l ] SMM message filter module 'msgfltr' not found /var/sadm/pkg/SUNWvts/install/preremove: usage: kill [ [ -sig ] id ... | -l ] /var/sadm/pkg/SUNWvts/install/r.inetdconf: usage: kill [ [ -sig ] id ... | -l ]
```

Note5

The following messages may be displayed when removing SUNWvts package on Solaris 10, but the removal will complete normally.

[Example]

```
inetconv: Notice: Service manifest for 100235/1 already generated as
/var/svc/manifest/network/rpc/100235_1-rpc_ticotsord.xml, skipped
inetconv: Notice: Service manifest for 100083/1 already generated as
/var/svc/manifest/network/rpc/100083_1-rpc_tcp.xml, skipped
inetconv: Notice: Service manifest for 100068/2-5 already generated as
/var/svc/manifest/network/rpc/100068_2-5-rpc_udp.xml, skipped
Sending signal to inetd to read the restored conf file...
/var/sadm/pkg/SUNWvts/install/r.inetdconf: usage: kill [ -sig ] id ... |
-1 ]
```

Note6

The following message may be displayed when removing FJSVscr or FJSVdef or FJSVcmnd packages, but the removal will complete normally.

```
cron may not be running - call your system administrator
```

Note7

The following message may be displayed when removing FJSVmadm package on Solaris 2.6, 7, 8, 9, but the removal will complete normally.

```
/var/sadm/pkg/FJSVmadm/install/preremove: /usr/bin/svcprop: not found
```

Note8

There is no problem in the deletion though the following messages might be displayed in the zone environment of Solaris 10 while deleting the package.

```
pkgrm: ERROR: unable to perform preremoval check of package <FJSVxxxx> in
zone <zonearea>
```

9. After running the following commands, eject the CD-ROM.

```
# cd / <Return>
# eject cdrom <Return>
```

10. Reboot the system.

```
# /usr/sbin/shutdown -y -g0 -i6 <Return>
```

Appendix A Command Reference

A.1 esfadd (1M)

NAME

esfadd - Install Enhanced Support Facility onto the system

SYNOPSYS

esfadd [-c] [-R mountpoint][-O component-group] [-d directory]

DESCRIPTION

esfadd determines the system platform automatically and installs Enhanced Support Facility onto the system using the Enhanced Support Facility media(CD-ROM). If an older versions of Enhanced Support Facility is already installed on the system, this command will upgrade them.

OPTIONS

The following options are available:

-c

Display the current version and the new version of the packages to be updated.

-R mountpoint

Enhanced Support Facility will be installed in the Boot Environment specified by mountpoint

-O component-group

Specifying a Component Group for Installation. If the –O option isn't specified, Full component group will be installed.

See "Appendix G. Specifying a Component group for the Installation" for more details.

-d directory

Specify the directory where the packages of Enhanced Support Facility exist with a full pathname.

The package directories are as follows:

Platform	OS version	package directory
PW-CLZ	Solaris 8	<mount_point>/Platform/C_L_Z/8</mount_point>
	Solaris 9	<mount_point>/Platform/C_L_Z/9</mount_point>
	Solaris 10	<mount_point>/Platform/C_L_Z/10</mount_point>
PW-CMZ	Solaris 8	<mount_point>/Platform/C_M_Z/8</mount_point>
	Solaris 9	<mount_point>/Platform/C_M_Z/9</mount_point>
	Solaris 10	<pre><mount_point>/Platform/C_M_Z/10</mount_point></pre>
PW-CL	Solaris 8	<mount_point>/Platform/C_L/8</mount_point>
	Solaris 9	<mount_point>/Platform/C_L/9</mount_point>
	Solaris 10	<pre><mount_point>/Platform/C_L/10</mount_point></pre>
PW-CM	Solaris 8	<mount_point>/Platform/C_M/8</mount_point>
	Solaris 9	<mount_point>/Platform/C_M/9</mount_point>
	Solaris 10	<mount_point>/Platform/C_M/10</mount_point>
PW-K	Solaris 2.6	<pre><mount_point>/Platform/K/2.6</mount_point></pre>
	Solaris 7	<mount_point>/Platform/K/7</mount_point>
	Solaris 8	<mount_point>/Platform/K/8</mount_point>
	Solaris 9	<mount_point>/Platform/K/9</mount_point>
	Solaris 10	<mount_point>/Platform/K/10</mount_point>
PW-P	Solaris 8	<mount_point>/Platform/P/8</mount_point>
	Solaris 9	<mount_point>/Platform/P/9</mount_point>
	Solaris 10	<mount_point>/Platform/P/10</mount_point>

PW-T	Solaris 2.6	<mount_point>/Platform/T/2.6</mount_point>
	Solaris 7	<mount_point>/Platform/T/7</mount_point>
	Solaris 8	<mount_point>/Platform/T/8</mount_point>
	Solaris 9	<mount_point>/Platform/T/9</mount_point>
	Solaris 10	<mount_point>/Platform/T/10</mount_point>
PW-U	Solaris 8	<mount_point>/Platform/U/8</mount_point>
	Solaris 9	<mount_point>/Platform/U/9</mount_point>
	Solaris 10	<mount_point>/Platform/U/10</mount_point>

Note

The following messages are displayed when the model is wrong as correspond the package directory and it ends.

esfadd: ERROR: The specified source directory is incorrect.

EXIT STATUS

The following exit values are returned:

- 0 Successful execution.
- 1 Fatal error.
- 2 Usage or Warning.
- 3 Interruption.
- 4 Administration.
- 10 Reboot after installation of all packages.
- 20 Reboot after installation of this package.

SEE ALSO

esfrm(1M), pkgrm(1M), pkgadd(1M)

NOTES

- When the -c option is specified, Enhanced Support Facility will not be installed.

 This option is used to check for previous revisions of Enhanced Support Facility installed on the system.
- O option is available with Solaris 8 or later.
- When two or more packages are installed, the following messages are displayed, and the installation is ended. Please reinstall ESF after restoring the system. (Refer to appendix B.1.)

```
esfadd: ERROR: Two or more instances of the following package(s) are existing on the system.

SUNWvts SUNWvts.2

Exit installation.
```

A.2 esfrm (1M)

NAME

esfrm - Remove Enhanced Support Facility from the system

SYNOPSYS

esfrm [-n] [-R mountpoint]

DESCRIPTION

esfrm removes a previously installed Enhanced Support Facility from the system.

The default state for the command is in interactive mode, meaning that prompt messages are given during processing to allow the administrator to confirm the actions being taken for the removal of the Enhanced Support Facility. Non-interactive mode can be requested with the -n option.

When this command is invoked, the package list to be removed is displayed, and then the prompt with the input "all" displayed. The esfrm commands operates as follows after the prompt.

- 1. For the package(s) with the "*" (warning) mark is displayed in the package list, exist.
 - "all": The esfrm command removes all packages in the list.
 - "no": The esfrm command terminates, and ds not remove any Enhanced Support Facility packages.
 - "part": The esfrm command removes all package(s) with out the "*"(warning) displayed in the list.
- 2. For the package(s) with the "*" (warning) mark is displayed in the package list, do not exist.
 - "all": The esfrm command removes all packages in the list.
 - "no": The esfrm command terminates, and ds not remove any Enhanced Support Facility packages.
 - "part": Same result as "all."

OPTIONS

The following option is available:

-n

Removes Enhanced Support Facility from the system in non-interactive mode. Care must be taken as even if there is a need for interaction, esfrm will remove packages, when this option is used.

-R mountpoint

Enhanced Support Facility will be removed from the Boot Environment specified by the mountpoint.

EXIT STATUS

The following exit values are returned:

- 0 Successful execution.
- 1 Fatal error.
- 2 Usage or Warning
- 3 Interruption.
- 4 Administration.
- 10 Reboot after removal of all packages.
- 20 Reboot after removal of this package.

SEE ALSO

esfadd(1M), pkgrm(1M)

NOTES

- Be aware that other optional products may have dependencies on the packages in Enhanced Support Facility. In this case, esfrm will display WARNING messages as the result of dependency checking and ask you to verify the removal of the package.

Do not remove any package on which other software products depend, and type "y" to continue execution. Note that if the 'n option is specified, such important dependencies will not be checked.

- A "*"(warning) mark will be displayed when a package installed on the system is newer than the package on the CD-ROM. Be careful when removing the package because the package cannot be reinstalled with the CD-ROM. There may be other products on the system that require the package and removing the package may cause serious problems.

A.3 esfver (1M)

NAME

estver – Display the version of the installed Enhanced Support Facility

SYNOPSYS

```
esfver [-1] [ -R mountpoint]
```

DESCRIPTION

esfver displays the version of the installed Enhanced Support Facility.

When -l option is used, the version of each package included in the Enhanced Support Facility is displayed.

OPTIONS

The following option is available:

-1

The version of each package included in the Enhanced Support Facility is displayed..

-R mountpoint

The version of Enhanced Support Facility installed in Boot Environment specified by mountpoint will be displayed.

EXIT STATUS

The following exit values are returned:

- 0 Successful execution.
- 1 Fatal error.
- 2 Usage.

SEE ALSO

```
esfadd(1M), esfrm(1M), pkgparam(1M)
```

EXAMPLES

EXAMPLE1

```
# /opt/FJSVbse/bin/esfver
esfver: INFO: Integrated Version of already installed Enhanced Support Facility.
VERSION=2.6 REVISION=2005.11.2900,
ESF PATCH_VERSION = 2.5A00_20050215
#
```

EXAMPLE2 Example of displaying each package.

EXAMPLE3 Example where two packages or more exist.

```
# /opt/FJSVbse/bin/esfver
esfver: INFO: Integrated Version of already installed Enhanced Support Facility.
VERSION=2.6    REVISION=2005.11.2900,

ESF PATCH_VERSION = 2.5A00_20050215

-- WARNING --
Two or more instances of the following packages have been installed on the system.
FSUNlic FSUNlic.2
#
```

Note

Please restore the system. Please refer to "Appendix B.1".

Appendix B Troubleshooting

Case1

Please refer to "B.1" when the following messages are displayed while installing.

```
esfadd: ERROR: Two or more instances of the following package(s) are existing on the system.

package_name package_name.2

Exit installation.
```

Case2

Please refer to "B.2" when the following messages are displayed while installing.

```
A version of the <pkginst> package is already installed on this machine.
Current administration ds not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

esfadd: ERROR: Installation of packages failed.
```

Case3

Please refer to "B.3" when the following messages are displayed while installing.

```
# esfadd<Return>
   :
   :
   :
Installation of <pkginst> failed (error).
esfadd: ERROR:Installation of packages failed.
```

Case4

Please refer to "B.4" when the following messages are displayed while installing.

```
#esfadd
  :
esfadd: Error: Use of cron is not permitted. root and adm users have not been set up.
```

Case5

Please refer to "B.5" when the following messages are displayed while deleting the package.

```
esfrm: ERROR: Two or more instances of the following package(s) are existing on the system. package_name package_name.2

Exit installation.
```

Case6

Please refer to "B.6" when the following messages are displayed while deleting the package.

```
# esfadd<Return>
   :
   :
   Removed of <pkginst> failed.
esfadd:ERROR:Removed of packages failed.
```

B.1 Resolution of problems which occur when package is installed (I).

If the following message is displayed during installation, and the installation terminates abnormally, use the following solution.

```
esfadd: ERROR: Two or more instances of the following package(s) are existing on the
system.
package_name package_name.2

Exit installation.
```

Problem Cause

This message will be displayed when multiple instances of a particular package have already been installed on this system. Please execute the following procedures as the corrective action.

Solution

- 1. If an environment setting file exists for the package where the problem occurred, save the environment setting file. (Refer to "5.1.2.4 Saving the environment setting file" or "5.2.2.4 Saving the environment setting file" for details.)
- 2. Check the version of the package where the problem occurred.

```
# pkginfo -x package_name.\* <Return>
```

3. Remove all packages where the problem has occurred.

```
# pkgrm package_name.\* <Return>
```

- 4. If the version of the problem package is later than that provided in the software, install the later version of the package.
- 5. Go on to step 2 in "5.1.2 Update installation" or "5.2.2 Update installation."
- 6. Restore the previously saved environment setting file, using the procedures in "5.1.2.7 Restoring the environment settings file " or "5.2.2.7 Restoring the environment settings file."

B.2 Resolution of problems which occur when package is installed (II).

If the following message is displayed during installation, and the installation terminates abnormally, use the following solution.

Problem Cause

This message will be displayed when the < pkginst > package installation fails. In particular, this message will be displayed when multiple instances of the < pkginst > package have already been installed on the system

Execute the following procedure as the correction action.

Attention: Depending on the state of the system, this message might be displayed in addition to other display causes.

Therefore, you need to confirm whether there are other abnormalities, before proceeding.

Solution

- 1. If an environment setting file exists for the package where the problem occurred, save the environment setting file. (Refer to "5.1.2.4 Saving the environment setting file" or "5.2.2.4 Saving the environment setting file" for details.)
- 2. Check the version of the package where the problem occurred.

```
# pkginfo -x package_name.\* <Return>
```

3. Remove all of the packages where problems occurred.

```
# pkgrm package_name.\* <Return>
```

4. Remove the FJSVbse package.

```
# pkgrm FJSVbse <Return>
```

- 5. If the version of the problem package is later than the one provided in the software, install the later version of the package.
- 6. Go on to step 2 in "5.1.2 Update installation" or "5.2.2 Update installation."
- 7. Restore the previously saved environment setting file, using the procedures in "5.1.2.7 Restoring the environment settings file " or "5.2.2.7 Restoring the environment settings file."

B.3 Resolution of problems which occur when package is installed(III).

If the following message is displayed during installation, and the installation terminates abnormally, use the following solution.

```
# esfadd<Return>
   :
   :
   :
Installation of <pkginst> failed (error).
esfadd: ERROR:Installation of packages failed.
```

Problem Causes

This message will be displayed when the < pkginst > package installation fails. In particular, the message will be displayed if the software was installed under the following situations.

- 1. Lack of disk space (Refer to "3.1.1 Disk requirements").
- 2. If using NFS to mount the CD-ROM drive on the system prior software installation, the options on the NFS mount are not appropriately specified.
- 3. The operator has executed procedures other than those described in the Installation Guide.

Attention: Depending on the state of the system, this message might be displayed for other reasons than those mentioned above. Therefore, you need to confirm whether there are other abnormalities before proceeding.

Solution

- 1. If an environment setting file exists for the package where the problem occurred, save the environment setting file. (Refer to "5.1.2.4 Saving the environment setting file" or "5.2.2.4 Saving the environment setting file" for details.)
- 2. Remove package where problem occurred.

```
# pkgrm package_name <Return>
```

Remove the FJSVbse package.

```
# pkgrm FJSVbse <Return>
```

- 4. Go on to step 2 in "5.1.2 Update installation " or "5.2.2 Update installation."
- 5. Restore the previously saved environment setting file, using the procedures in "5.1.2.7 Restoring the environment settings file " or "5.2.2.7 Restoring the environment settings file."

Attention:

Even if the FJSVbse package is removed according to procedure3, the /opt/FJSVbse directory might not be deleted. However, this will not cause any operational problems.

B.4 Resolution of problems which occur when package is installed (IV).

If the following message is displayed during installation, and the installation terminates abnormally, use the following solution.

```
#esfadd
  :
esfadd: ERROR: use permission of cron was not set up.(root,adm) was not set up.
```

Problem Causes

The root and adm users have not been set up to use cron.

Solution

Before installing this software, set up the root and adm users so they can use cron.

B.5 Resolution of problems, which occurred when package was removed (I).

If the following message is displayed during software removal, and the remove terminates abnormally, use the following solution.

```
esfrm: ERROR: Two or more instances of the following package(s) are existing on the system. 
package_name package_name.2

Exit installation.
```

Problem Cause

This message will be displayed if multiple instances of a particular package have been installed on the system. Please execute the following procedures as the corrective action.

Solution

1. Remove package where problem occurred.

```
# pkgrm package_name <Return>
```

 Go on to step 13 provided in "6.1For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000" or step 8 provided in "6.2 For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R"

B.6 Resolution of problems, which occurred when package was removed (II).

If the following message is displayed during package removal, and the removal terminates abnormally, use the following solution.

```
# esfadd<Return>
   :
   :
   :
Removed of <pkginst> failed.
esfadd:ERROR:Removed of packages failed.
```

Problem Causes

This message will be displayed when the $\langle pkginst \rangle$ package removal fails. In particular, this message will be displayed if:

- 1. The *<pkginst>* package has dependence with other package(s).
- 2. The installed package instance has broken.
- 3. The operator executed procedures other than those described in the Installation Guide.

Attention: Depending on the state of the system, this message might be displayed in addition to others. Therefore, you need to confirm whether there are other abnormalities before proceeding.

Solution

- 1. If an environment setting file exists for the package where the problem occurred, save the environment setting file. (Refer to "5.1.2.4 Saving the environment setting file" or "5.2.2.4 Saving the environment setting file" for details.)
- 2. Remove package where problem occurred.

```
# pkgrm package_name <Return>
```

3. Remove the FJSVbse package.

pkgrm FJSVbse <Return>

- 4. Go on to step 2 in "5.1.2 Update installation" or "5.2.2 Update installation."
- 5. Restore the previously saved environment setting file, using the procedures in "5.1.2.7 Restoring the environment settings file " or "5.2.2.7 Restoring the environment settings file."

Attention:

Even if the FJSVbse package is removed according to procedure3, the /opt/FJSVbse directory might not be deleted. However, this will not cause any operational problems.

Appendix C Installation of CPU performance counter (including upgrade installation)

C.1 Installation of CPU performance counter (including upgrade installation).

NOTE: The following operations are only required with Solaris 8 7/01 or earlier. No additional operation is required with Solaris 8 10/01 or later.

(1) For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000

This is basically a similar operation to that described in section 5.1 "For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000." The differences are shown below:

a) For CPU performance counter installation only

Run the following instruction "Installation of FJSVcpc" in place of "10. Install Enhanced Support Facility with the esfadd command" in section 5.1.1.3 "Installing Enhanced Support Facility".

b)To install CPU performance counter as part of the Enhanced Support Facility Software installation. Run the following instruction "Installation of FJSVcpc" right after "10. Install Enhanced Support Facility with the esfadd command" in section 5.1.1.3 "Installing Enhanced Support Facility".

- Installation of FJSVcpc

1. Check if FJSVcpc package has been Installed.

RC2000 # pkginfo FJSVcpc <Return>

If FJSVcpc is installed, the following message is shown.

system FJSVcpc CPU Performance Counter package

Otherwise, the following message is shown.

ERROR: information for "FJSVcpc" was not found

 $2.\,\mathrm{If}\,\,\mathrm{FJSVcpc}$ has been installed, run this command to remove it. Otherwise proceed to 3.

RC2000 # pkgrm FJSVcpc <Return>

3. Install FJSVcpc package.

RC2000 # pkgadd -d .pkg/8 FJSVcpc <Return>

NOTE: See the online manual for the details of pkgadd(1M) and pkginfo(1M) commands.

(2) For PRIMEPOWER200/400/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R

This is basically a similar operation to that described in section 5.2 " For

PRIMEPOWER200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R."

The differences are shown below:

a) For CPU performance counter installation only

Run the following instruction "Installation of FJSVcpc" in place of "8. Install Enhanced Support Facility with the esfadd command" in section 5.2.1.3"Installing Enhanced Support Facility".

- b) To install CPU performance counter as part of the Enhanced Support Facility Software installation. Run the following instruction "Installation of FJSVcpc" right after "8. Install Enhanced Support Facility with the esfadd command" in section 5.2.1.3 "Installing Enhanced Support Facility".
- Installation of FJSVcpc
- 1. Check the presence of FJSVcpc package.

```
# pkginfo FJSVcpc <Return>
```

If FJSVcpc is installed, the following message is shown.

```
system FJSVcpc CPU Performance Counter package
```

Otherwise, the following message is shown.

```
ERROR: information for "FJSVcpc" was not found
```

2. If FJSVcpc has been installed, run this command to remove it. Otherwise proceed to 3.

```
# pkgrm FJSVcpc <Return>
```

3. Install FJSVcpc package.

```
# pkgadd -d .pkg/8 FJSVcpc <Return>
```

NOTE: See the online manual for the details of pkgadd(1M) and pkginfo(1M) commands.

C.2 Uninstalling the CPU performance counter

(1) For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models1000/2000

Basically the same as section 6.1 "For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models1000/2000" with the following variations.

a) To uninstall only the CPU performance counter.

Instead of using the esfrm command use the following command.

```
RC2000 # pkgrm FJSVcpc <Return>
```

b) To uninstall the CPU performance counter at the same time as Enhanced Support Facility Software. Run the following command right after "10 Remove Enhanced Support Facility with the esfrm command" in section "6.1For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000".

```
RC2000 # pkgrm FJSVcpc <Return>
```

NOTE: See the online manual for the details of pkgrm(1M) command.

(2) For PRIMEPOWER200/400/600/650/850 and GP7000F odels200/200R/400/400R/400A/600/600R

Basically the same as section 6.2 "For PRIMEPOWER1/200/250/400/450/600/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R," with the following variations.

a) To uninstall only CPU performance counter.

Instead of using the esfrm command use the following command.

```
# pkgrm FJSVcpc <Return>
```

b) To uninstall CPU performance counter at the same time as Enhanced Support Facility Software. Run the following command right after "8. Remove Enhanced Support Facility with the esfrm command" (in section 6.2 "For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models200/200R/400/400R/400A/600/600R").

```
# pkgrm FJSVcpc <Return>
```

NOTE: See the online manual for details of pkgrm(1M) command.

Appendix D Manual mount of CD-ROM in single-user mode

When installing the Enhanced Support Facility for Solaris 9, 10 and can't refer to the CD-ROM, use the following solution.

Solution

D.1 Mounting the CD-ROM Manually

1 Stop the volume manager.

```
# /etc/init.d/volmgt stop <Return>
```

2 Create the mount directory if it is doesn't exist.

```
# mkdir /cdrom/cdrom0 <Return>
```

3 Mount the CD-ROM.

```
# mount -F hsfs /dev/dsk/<CDROM_DEVICE> /cdrom/cdrom0 <Return>
```

4 Change the directory to the CD-ROM.

```
# cd /cdrom/cdrom0 <Return>
```

D.2 Removing the CD-ROM

Also perform the following when ejecting the CD-ROM.

1 Change the directory.

```
# cd / <Return>
```

2 Un-mount the CD-ROM.

```
# umount /cdrom/cdrom0 <Return>
```

3 Eject the CD-ROM.

Appendix E Solaris Live Upgrade

Enhanced Support Facility 2.4.1 and later support Solaris Live Upgrade.

- This product can be upgraded using by Solaris Live Upgrade.
 Using an unsupported version or incorrectly following the procedure may damage the system. Proceed carefully.
- Before starting the upgrade operation, be sure to confirm the procedure in the Solaris Installation Guide issued by Sun Microsystems, Inc. Also, read Section E.1, "Restrictions," provided later in this Appendix and then perform the upgrade operation according to Section E.2, "Upgrading Procedure."
- For notes on the Enhanced Support Facility installation operation, see Chapter 4. "Restrictions and Notes" in this guide.

E.1 Restrictions

There are restrictions when upgrading Enhanced Support Facility using Solaris Live Upgrade:

- Solaris Live Upgrade can be used only if Enhanced Support Facility 2.4.1 or later has been installed.
- Solaris Live Upgrade cannot be used on the system where upgrade installation has been performed from Enhanced Support Facility 2.3 or earlier to Enhanced Support Facility 2.4.1 or later.
- Upgrades from Solaris 2.6, Solaris 7 or Solaris 8 10/01 or earlier are not supported

E.2 Upgrade Procedure

An overview of the upgrade procedure for Enhanced Support Facility is described below.

For detailed procedures, see the section(s) provided in each paragraph.

- 1) Prepare for defining a new boot environment and confirm the environment.
 - E.2.1 Preparation for creating "New Boot Environment" and confirming environment
 - E.2.1.1 Checking the system environment
 - E.2.1.2 Notes
- 2) Create and mount a "New Boot Environment".
 - E.3 Creating a New Boot Environment and Deleting Software
 - E.3.1 Creating and mounting a new boot environment
- 3) Back up Enhanced Support Facility configuration files.
 - E.3.2 Saving the environment settings files
 - E.3.2.1 Package containing environment settings files
 - E.3.2.2 Saving environment settings files
- 4) Delete current Enhanced Support Facility from "New Boot Environment".
 - E.3.3 Deleting the software from new boot environment
- 5) Unmount "New Boot Environment".
 - E.3.4 Unmounting the new boot environment
 - E.3.5 Removing the CD-ROM
- 6) Update Solaris and any other software packages in the "New Boot Environment".
 - E.4 Upgrading the Operating Environment
- 7) Mount "New Boot Environment".
 - E.5 Installing Software
 - E.5.1 Mounting the new boot environment
- 8) Install new Enhanced Support Facility to "New Boot Environment".
 - E.5.2 Installing this software in the new boot environment
- 9) Restore the environment settings files that have been saved to "New Boot Environment".
 - E.6 Restoring Environment Data in the New Boot Environment.
- 10) Unmount and activate the "New Boot Environment" to switch boot environment.
 - E.7 Switching the Boot Environment
 - E.7.1 Unmounting the new boot environment
 - E.7.2 Switching the active boot environment
 - E.7.3 Starting the system in the new boot environment
- 11) Restore remaining environment settings files to "New Boot Environment".
 - E.8 Restoring the Environment after Starting the New Boot Environment
 - E.8.1 Restoring the environment
 - E.8.2 Restarting Web-Based Admin View/WWW Server for Admin View
 - E.8.3 Environment setting after installation

E.2.1 Preparation for creating "New Boot Environment" and confirming environment

E.2.1.1 Checking the system environment

Confirm in advance that Enhanced Support Facility version 2.4.1 or later is currently installed.

1) Check the version of Enhanced Support Facility installed on the running system.

```
# /opt/FJSVbse/bin/esfver <Return>
```

Example: When Enhanced Support Facility 2.4.1 is installed:

esfver: INFO: Integrated Version of already installed Enhanced Support Facility.
VERSION=2.4.1 REVISION=2004.07.2000,

Confirm the displayed version. If Enhanced Support Facility version 2.3 or earlier is installed, Solaris Live Upgrade cannot be executed.

E.3 Creating a New Boot Environment and Deleting Software

Use the new boot environment to temporarily delete all Enhanced Support Facility components before upgrading the operating system. Be sure to first save the environment settings file of each component before deleting the components.

E.3.1 Creating and mounting a new boot environment

1. Use the lucreate command to create a new boot environment.

Note:

For information about installing Solaris Live Upgrade and creating a new boot environment, refer to the documents provided by Sun Microsystems, Inc.

2. Mount the new boot environment.

```
# /usr/sbin/lumount ALTERNATIVE <Return>
```

ALTERNATIVE: Indicates the new boot environment name.

3. The mount point is reported.

/.alt.ALTERNATIVE

E.3.2 Saving the environment settings files

E.3.2.1 Package containing environment settings files

Check to see if any of the installed packages contain environment settings files. If installed packages contain environment settings files, save the files.

For the packages that contain environment settings files, see the following:

1) For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, the following packages have environment settings files.

Package name	Environment settings file
FJSVdr	/etc/opt/FJSVdr/reply/C/dr_op
FJSVdrcmd	
FJSVscr2	/etc/opt/FJSVhwr/pwrctl.property
FJSVscu2	/etc/opt/FJSVhwr/scf.conf
FJSVscr3	/etc/opt/FJSVhwr/adrc.conf
FJSVscu3	
FJSVwvbs	The wvEnvsave command is provided to save/restore the environment
	setting file.

FJSVmasv	The savelogs command is provided to save/restore the environment setting
FJSVmaom	file.
FJSVkmnd	
FJSVcmnd	
FJSVapcs	/var/opt/FJSVapcs/*

2) For PRIMEPOWER1/200/250/400/450/600/650/850, GP7000F Models 200/200R/400/400R/400A/600/600R, the following packages have environment settings files.

Package name	Environment settings file
FJSVscr.us	/etc/opt/FJSVhwr/pwrctl.property
FJSVlscr	/etc/opt/FJSVhwr/scf.conf
FJSVscr3	
FJSVpscr	
FJSVwvbs	The wvEnvsave command is provided to save/restore the environment
	setting file.
FJSVmand	The savelogs command is provided to save/restore the environment setting
FJSVmarm	file.
FJSVmasv	
FJSVrlib	
FJSVragt	
FJSVrmaos	
FJSVcmrm	
FJSVcmnd	
FJSVpmrm	
FJSVpmnd	
FJSVapcs	/var/opt/FJSVapcs/*

E.3.2.2 Saving environment settings files

1. For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000:

If the Dynamic Reconfiguration is used and the reply file has been changed save the reply file. Refer to "Dynamic Reconfiguration User's Guide", section 3.6.2 "Reply file" for details.

```
RC2000 # cp /etc/opt/FJSVdr/reply/C/dr_op save_file <Return>
```

Save the SCF Driver environment setting files.

- For the PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.

```
RC2000 # cd /.alt.ALTERNATIVE <Return>
RC2000 # ls ./etc/opt/FJSVhwr/adrc.conf | cpio -o -O save_file <Return>
```

- For the PRIMEPOWER900/1500/2500.

```
RC2000 # cd /.alt.ALTERNATIVE <Return>
RC2000 # ls ./etc/opt/FJSVhwr/pwrctl.property ./etc/opt/FJSVhwr/scfconf
./etc/opt/FJSVhwr/adrc.conf | cpio -o -O save_file <Return>
```

When Web-Based Admin View/WWW Server for Admin View is used, use the wvEnvsave command to save the environment settings file of the FJSVwvbs package.

```
RC2000 # /etc/opt/FJSVwvbs/etc/bin/wvEnvsave save_file <Return>
```

When machine administration or remote support is used, use the savelogs command to save the environment settings file of the packages that make up machine administration and remote support.

```
RC2000 # /usr/sbin/FJSVmadm/savelogs -mo save_file_directory <Return>
```

When an automatic power control system is used, save the environment settings file of the FJSVapcs package.

```
RC2000 # cd / <Return>
RC2000 # find /var/opt/FJSVapcs/-print-depth | /usr/bin/cpio-o-0 save_file <Return>
```

Save the System Management Console settings < ONLY for PRIMEPOWER900/1500/2500>.

```
RC2000 # cp /etc/FJSVscslhostname save_file <Return>
```

2. For PRIMEPOWER1/200/250/400/450/600/650/850, GP7000F Models 200/200R/400/400R/400A/600/600R:

Save the SCF driver settings file.

```
# cd /.alt.ALTERNATIVE <Return>
# ls ./etc/opt/FJSVhwr/pwrctl.property ./etc/opt/FJSVhwr/scf.conf
| /usr/bin/cpio -o -O save_file <Return>
```

When Web-Based Admin View/WWW Server for Admin View is used, use the wvEnvsave command to save the environment settings file of the FJSVwvbs package.

```
# /etc/opt/FJSVwvbs/etc/bin/wvEnvsave save_file <Return>
```

When machine administration or remote support is used, use the savelogs command to save the environment settings file of the packages that make up machine administration and remote support.

```
# /usr/sbin/FJSVmadm/savelogs -mo save_file_directory <Return>
```

When an automatic power control system is used, save the environment settings file of the FJSVapcs package.

```
# cd / <Return>
# find /var/opt/FJSVapcs/ -print -depth | /usr/bin/cpio -o -O save_file
<Return>
```

E.3.3 Deleting the software from new boot environment

To delete Enhanced Support Facility from the new boot environment, delete it using the CD-ROM containing the same version of Enhanced Support Facility that is currently installed.

1. Mount the Enhanced Support Facility CD-ROM.

For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000, use the CD-ROM drive connected to the system console.

- a) Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive connected to the system console.
- b) Mount the CD-ROM.

```
# mkdir -p /cdrom <Return>
# /usr/sbin/mount -F nfs -o ro host:/cdrom/cdrom0 /cdrom <Return>
```

host: Indicates the host name of system management console.

- For PRIMEPOWER1/200/250/400/450/600/650/850, GP7000F Models 200/200R/400/400R/400A/600/600R, insert the Enhanced Support Facility CD-ROM into the CD-ROM drive
- For information on the procedure to follow when using a machine with no built-in CD-ROM drive, see Section 5.2, "For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R."
- 2. Move to the directory in which the CD-ROM is mounted.

```
# cd /cdrom/cdrom0 <Return>
or
# cd /cdrom <Return>
```

3. Delete the Enhanced Support Facility from the new boot environment.

Note 1 The mount point must not be followed by a slash (/).

Use the esfrm command from the CD-ROM containing the same version of Enhanced Support Facility that is currently installed on the new boot environment.

```
# bin/esfrm -R /.alt.ALTERNATIVE <Return>
```

/.alt.ALTERNATIVE: Indicates the boot environment mount point.

```
Error: # bin/esfrm -R /.alt.ALTERNATIVE/ <Return>
```

The message below appears. Type "all," "part," or "no."

Note 2: If Enhanced Support Facility version 2.3 or earlier is displayed, enter "no" to quit processing.

Note that deleting Enhanced Support Facility 2.3 or earlier in the new boot environment may damage the system. Live Upgrade should not be used in this case.

```
Enhanced Support Facility 2.3 will be removed.

FJSVbse Enhanced Support Facility Information Management (sparc) 2.3,REV=2003.02.1400
:
Please select. [no,all or part]:
```

The following mesaage will be displayed. Type "yes" to proceed

- For Enhanced Support Facility 2.4.1,2.5 and 2.5.1

This message is warning that damage to the system may occur if Enhanced Support Facility 2.3 or earlier is removed from the new boot environment.

```
-Important Confirmation-
When some ESF packages which can not support to Remote Install exist in
/.alt.ALTERNATIVE,there is a possibility that not only the installation target
system but also the system operating now may be destroyed.
You should delete those packages from /.alt.ALTERNATIVE according to the
INSTALLATION GUIDE.
```

Have you Referred to the INSTALLATION GUIDE and confirmed the package versions [yes or no ?]:

Solaris Live Upgrade can not be used to upgrade from Enhanced Support

- For Enhanced Support Facility 2.6 and later.

```
Facility 2.3 or earlier. Certain Enhanced Support Facility 2.3 or earlier packages may not support remote un-installation (esfrm -R), and may cause damage to the system during un-installation.

Do not proceed with removal of Enhanced Support Facility if revision 2.3 or earlier is installed.

Do you want to continue with the removal of Enhanced Support Facility from the alternate boot environment? [yes or no?]:
```

Note 3: If the message shown below is displayed, enter "no" to quit processing.

When an asterisk (*) precedes a package name (as shown below), that package is required by another package. Do not delete a package on which another package depends. If you attempt to delete such a package, the warning message shown below appears. Enter "no" to quit processing.

When an asterisk (*) precedes the package name as shown below, stop esfrm, and then correct the package dependency situation that causes the asterisk (*) to be displayed. After making the correction, restart the esfrm operation. Use "part," to delete all packages not marked with an asterisk (*).

Note 4: The following message may appear but can be ignored.

If following message is displayed during deletion of the SUNWvts package, you can ignore this

```
/var/sadm/pkg/SUNWvts/install/preremove: usage: kill [ [ -sig ] id ... | -1 ]
SMM message filter module "msgfltr" not found
```

Note 5: The following message may appear but can be ignored.

If the following message is displayed during deletion of the FJSVdef package, ignore it.

```
cron may not be running - call your system administrator
```

E.3.4 Unmounting the new boot environment

Move to the root directory.

```
# cd / <Return>
```

2. Unmount the new boot environment.

```
# /usr/sbin/luumount ALTERNATIVE <Return>
```

ALTERNATIVE: Indicates the new boot environment name.

E.3.5 Removing the CD-ROM

Eject the CD-ROM.

```
# cd / <Return>
# eject cdrom <Return>
```

E.4 Upgrading the Operating Environment

Use Solaris Live Upgrade to update the system operating environment.

Note:

For information about updating Solaris, refer to the documents provided by Sun Microsystems, Inc.

E.5 Installing Software

Install Enhanced Support Facility in the new boot environment after upgrading the operating system.

E.5.1 Mounting the new boot environment

1. Mount the newly created boot environment.

```
# /usr/sbin/lumount ALTERNATIVE <Return>
```

ALTERNATIVE: Indicates the new boot environment name.

2. The mount point is reported.

/.alt.ALTERNATIVE

E.5.2 Installing this software in the new boot environment

Use the Enhanced Support Facility version 2.6 CD-ROM to install Enhanced Support Facility on the new boot environment.

1. Mount the Enhanced Support Facility CD-ROM.

For PRIMEPOWER800/900/1000/1500/2000/2500/ and GP7000F Models 1000/2000, use the CD-ROM drive connected to the system console.

- a) Insert the Enhanced Support Facility CD-ROM into the CD-ROM drive connected to the system console.
- b) Mount the CD-ROM.

```
# mkdir -p /cdrom <Return>
```

/usr/sbin/mount -F nfs -o ro host:/cdrom/cdrom0 /cdrom <Return>

host: Indicates the host name of system management console.

- For PRIMEPOWER1/200/250/400/450/600/650/850, GP7000F Models 200/200R/400/400R/400A/600/600R, insert the Enhanced Support Facility CD-ROM into the CD-ROM drive
- For information on the procedure to follow when using a machine with no built-in CD-ROM drive, see Section 5.2, "For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R."
- 2. Move to the directory in which the CD-ROM is mounted.

```
# cd /cdrom/cdrom0 <Return>
```

or

cd /cdrom <Return>

3. Install the Enhanced Support Facility in the new boot environment.

```
# bin/esfadd -R /.alt.ALTERNATIVE <Return>
```

/.alt.ALTERNATIVE: Indicates the new boot environment mount point.

Note 1 The mount point must not be followed by a slash (/).

Error: # bin/esfrm -R /.alt.ALTERNATIVE/ <Return>

Messages similar to the following appears. Confirm the displayed information. If the information is correct, type "yes."

Example: For Enhanced Support Facility 2.6 on PRIMEPOWER200:

```
Enhanced Support Facility 2.6 will be installed.

INSTALL-ROOT: /.alt.ALTERNATIVE

Platform: FJSV,GPUS

OS Release: Solaris 9

Do you want to continue with this installation? [yes or no ?]:
```

Next, the system confirms that the -R option has been specified. Type "yes".

```
NOTE: -R option

Do you want to continue with this installation? [yes or no ?]:
```

Note 2 If the message shown below is displayed, enter "n" to quit processing.

If the following message appears during installation, type n to stop installation processing. This message indicates that Enhanced Support Facility has not been completely removed from the new boot environment. Enhanced Support Facility must be completely removed, as described in E.3.3, before continuing the installation.

```
A version of the <pkginst> package is already installed on this machine. Current administration does not allow new instances of an existing package to be created, nor existing instances to be overwritten.

No changes were made to the system.

There are n more packages to be installed.

Do you want to continue with installation [y,n,?]
```

Note 3 The following message may appear but can be ignored.

For Solaris 9 or Solaris 10 if the following message appears during installation of the SUNWvts package, there is no problem.

```
var/sadm/pkg/SUNWvts/install/i.inetdconf: usage: kill [ [ -sig ] id ...
| -1 ]
```

Note 4 The following message may appear but can be ignored.

If the following message appears during installation of the FJSVscr and FJSVdef packages, there is no problem.

```
cron may not be running - call your system administrator
```

E.6 Restoring Environment Data in the New Boot Environment

Restore the environment settings files for packages saved according to Section E.3.2, "Saving the environment settings files." Perform this operation only if you saved environment settings files.

Restore the environment settings files for Web-Based Admin View/WWW Server for Admin View after starting the system in the new boot environment. Perform this operation by referring to "E.8 Restoring the Environment after Starting the New Boot Environment" in this appendix.

1. For PRIMEPOWER800/900/1000/1500/2000/2500 and GP7000F Models 1000/2000.

Restore the settings file for to the Dynamic Reconfiguration.

Modify the new reply file that is located at /etc/opt/FJSVdr/reply/C/dr_op. Please use the saved previous reply file for reference. There might be new reply messages added due to Enhanced Support Facility upgrade. Please refer to "Dynamic Reconfiguration User's Guide 6.1.3.3 or 7.1.3.3" before modifying the reply file.

Restore the settings file for the SCF driver.

- For PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000.

```
RC2000 # cd /.alt.ALTERNATIVE <Return>
RC2000 # cpio -iu -I save_file <Return>
RC2000 # chown root ./etc/opt/FJSVhwr/adrc.conf <Return>
RC2000 # chgrp root ./etc/opt/FJSVhwr/adrc.conf <Return>
```

- For PRIMEPOWER900/1500/2500.

```
RC2000 # cd /.alt.ALTERNATIVE <Return>
RC2000 # cpio -iu -I save_file <Return>
RC2000 # chown root ./etc/opt/FJSVhwr/pwrctl.property
./etc/opt/FJSVhwr/scf.conf ./etc/opt/FJSVhwr/adrc.conf <Return>
RC2000 # chgrp sys ./etc/opt/FJSVhwr/pwrctl.property
./etc/opt/FJSVhwr/scf.conf <Return>
RC2000 # chgrp root ./etc/opt/FJSVhwr/adrc.conf <Return>
```

Restore the settings file for the automatic power control system.

```
RC2000 # cd / <Return>
RC2000 # find var/opt/FJSVapcs/ -print -depth | cpio -pud /.alt.ALTNATIVE
```

Restore the settings files for machine administration, and remote support.

```
RC2000 # /usr/sbin/FJSVmadm/savelogs -r -R /.alt.ALTERNATIVE
save_file_directory <Return>
```

Restore the System Management Console setting <ONLY for PRIMEPOWER900/1500/2500>

```
RC2000 # cp save_file /.alt.ALTERNATIVE/etc/FJSVscslhostname <Return>
```

2. For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R.

Restore the settings file for the SCF driver.

```
# cd /.alt.ALTERNATIVE <Return>
# cpio -iu -I save_file <Return>
# chownroot ./etc/opt/FJSVhwr/pwrctl.property
./etc/opt/FJSVhwr/scf.conf <Return>
# chgrp sys ./etc/opt/FJSVhwr/pwrctl.property
./etc/opt/FJSVhwr/scf.conf <Return>
```

Restore the settings file for the automatic power control system.

```
# cd / <Return>
# find var/opt/FJSVapcs/ -print -depth | cpio -pud /.alt.ALTNATIVE
```

Restore the settings files for machine administration, and remote support.

```
# /usr/sbin/FJSVmadm/savelogs -r -R /.alt.ALTERNATIVE save_file_directory
<Return>
```

E.7 Switching the Boot Environment

E.7.1 Unmounting the new boot environment

1. Move to the root directory.

```
# cd / <Return>
```

2. Use the luumount command to unmount the new boot environment.

```
# /usr/sbin/luumount ALTERNATIVE <Return>
```

ALTERNATIVE: Indicates the new boot environment name.

E.7.2 Switching the active boot environment

1. Use the luactivate command to switch from the active boot environment to the new one.

```
# /usr/sbin/luactivate ALTERNATIVE <Return>
```

E.7.3 Starting the system in the new boot environment

After switching the active boot environment, the system restarts with the new boot environment. Before this processing, confirm that all jobs in the running system have terminated.

1. Eject the Enhanced Support Facility CD-ROM.

```
# cd / <Return>
# eject cdrom <Return>
```

2. Reboot the system.

```
# /usr/sbin/shutdown -y -g0 -i6 <Return>
```

Note

If the system is restarted with the reboot command, the boot environment will not be switched correctly.

For query messages displayed after the boot environment has been switched, refer to the documents provided by Sun Microsystems, Inc.

E.8 Restoring the Environment after Starting the New Boot Environment

After you have started the new boot environment, restore the environments for Web-Based Admin View /WWW Server for Admin View. This is necessary only when environment settings files have been saved.

E.8.1 Restoring the environment

When an environment settings file has been saved from the boot environment before switching, mount the original boot environment.

1. Mount the original boot environment.

```
# /usr/sbin/lumount ORIGINAL <Return>
```

ORIGINAL: Indicates the original boot environment name.

2. The mount point is reported.

```
/.alt.ORIGINAL
```

The boot environment is mounted at the reported mount point.

If an environment settings file has been saved from the boot environment before switching, restore saved files as follows. (i.e. save destination is under the reported mounted point.)

Use the wvEnvload command to restore the environment settings file for Web-Based Admin View /WWW Server for Admin View.

```
# /etc/opt/FJSVwvbs/etc/bin/wvEnvload save_file <Return>
```

E.8.2 Restarting Web-Based Admin View/WWW Server for Admin View

Restart Web-Based Admin View/WWW Server for Admin View so that the settings in the restored settings file take effect.

1. Use the luumount command to unmount the boot environment.

```
# /usr/sbin/luumount ORIGINAL <Return>
```

2. Restart Web-Based Admin View/WWW Server for Admin View.

(This is not necessary if the system is restarted.)

```
# /etc/opt/FJSVwvbs/etc/bin/wvCntl restart
# /etc/init.d/fjsvwvcnf restart
```

E.8.3 Environment setting after installation

Refer to "5.1.2.9 Environment setting after installation" or "5.2.2.9 Environment setting after installation"

Appendix F Model Name Abbreviation and Platform Names

This document uses unique abbreviations for the names of supported models. The following table shows the correspondence between the abbreviations and platform names used in documents for Enhanced Support Facility 2.2 and earlier versions.

Model name	Abbreviation	Platform	Remarks
GP7000F Models 200/200R/400/400R/400A/	PW-T	FJSV,GPUS	
600/600R			
PREMEPOWER200/400/600			
GP7000F Models 1000/2000	PW-K	FJSV,GPUSK	
PREMEPOWER800/1000/2000			
PRIMEPOWER650(Model equipped with	PW-CM	FJSV,GPUSC-M	
SPARC64™ GP)/PRIMEPOWER850(Model			
equipped with SPARC64 TM GP)			
PRIMEPOWER650(Model equipped with	PW-CMZ	FJSV,GPUZC-M	Supported from
SPARC64 TM V)/PRIMEPOWER850(Model			Enhanced Support
equipped with SPARC64 TM V)			Facility 2.3
PREMEPOWER250/450	PW-P	FJSV,GPUZC-M	Supported from
			Enhanced Support
			Facility 2.3
PREMEPOWER1500(Model equipped with	PW-CL	FJSV,GPUSC-L	
SPARC64™ GP)			
PRIMEPOWER900/PRIMEPOWER1500	PW-CLZ	FJSV,GPUZC-L	Supported from
(Model equipped with SPARC64 TM V)/			Enhanced Support
PRIMEPOWER2500			Facility 2.3
PRIMEPOWER1	PW-U	FJSV,GPUU	

Appendix G Specifying a Component Group for Installation

For a normal installation, you would install all the packages provided for the target system. In some cases, however, you may wish to install only the required minimum number of packages for a certain requirement level. In such cases, this software provides for installation of packages defined in a component group. You can choose packages to install by specifying a component group based on system requirements.

This appendix explains how to specify an installation component group.

Note:

When an installation component group is specified some components supplied as functions of this software are not installed. As a result, you will not be able to use some user commands and the online manual

G.1 Notes on Using the Component Group Specification Option

- Update installation cannot be used.
 - Delete this software, then perform initial installation.
 - To delete this software, save any environment settings files if as required
- This option ds not support Solaris Live Upgrade.
 - Use the normal installation procedure.
- Only supported with Solaris 8, 9, 10.
- Cannot be used on partition installer of "System Console Software".

G.2 Component Groups

The components to be installed are determined by specifying a component group. The following two component groups are provided by this software. If a component group is not specified, the Full component group will be installed.

Component-group	Description
CORE	Mandatory components for system operation of system such as DR command, SCF
	driver, Machine Administration, Reliability Driver, Server Default Configuration,
	System Data Output Tool, Crash Dump Assistant, and Auto Dump Analyze Tool will
	be installed. These components make hardware and software operation more reliable.
BASIC	CORE component group plus user utility components such as SunVTS/FJVTS, Auto
	Power Control System, License Manager, and CPU Patrol Diagnosis will be installed.
Full	All components including Web-Based Admin View /WWW Server for Admin View,
	Machine Administration GUI package and Auto Power Control System GUI package
	will be installed.
	Ensured GUI machine management is possible.

See "Security System Building Guide Enhanced Support Facility" for more detail information on components. **Note:**

The component groups are mutually exclusive; only one can be selected at a time.

G.2.1 Program components (BASIC component group)

The table below lists the packages installed when the option specifies a BASIC component group.

Note:

For package functions and unit abbreviations, see Chapter 1, "Program Components".

Solaris 8

O: Supported -: Not supported

No.	Component	Package name	PW -P	PW- CLZ	PW -CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
1	Enhanced Support Facility Information Management	FJSVbse	О	0	0	0	0	О	О	0
2	DR Command	FJSVdrcmd	-	О	- Note1	-	-	О	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	О	-
		FJSVscd.us	-	-	-	-	-	-	О	-
		FJSVscr.us	-	-	-	-	-	-	О	-
		FJSVscu.us	-	-	-	-	-	-	О	-
		FJSVscuja	-	-	-	-	-	-	О	-
		FJSViomp	О	0	О	0	О	О	-	-
		FJSVscd2	-	-	-	-	-	О	-	-
		FJSVscr2	-	-	-	-	-	О	-	-
		FJSVscu2	-	-	-	-	-	О	-	-
		FJSVscuj2	-	-	-	-	-	О	-	-
		FJSVlscdx	-	-	-	-	-	-	-	О
		FJSVlscd	-	-	-	-	-	-	-	О
		FJSVlscr	_	-	-	-	-	-	-	О
		FJSVlscu	-	-	-	-	-	-	-	О
		FJSVlscuj	_	-	-	-	-	-	-	О
		FJSVscd3	_	0	О	0	О	-	-	-
		FJSVscr3	_	О	О	О	О	-	-	-
		FJSVscu3	_	0	О	0	О	-	-	-
		FJSVscuj3	_	0	О	0	О	-	_	_
		FJSVpscd	О	-	-	-	-	_	_	_
		FJSVpscr	О	-	-	-	_	-	_	_
		FJSVpscu	О	-	_	-	-	_	-	_
		FJSVpscuj	О	-	_	_	_	-	_	-
4	SunVTS,FJVTS	SUNWvts	О	0	О	0	О	О	О	О
		SUNWvtsmn	О	0	О	0	О	О	О	О
		SUNWvtsx	О	0	О	0	О	О	О	О
		FJSVvts	О	0	0	0	0	О	0	О
5	Web-Based Admin View	FJSVwvcnf	_	-	_	-	_	_	_	_
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	О
		FJSVsmnd	-	-	-	-	_	-	-	-
		FJSVmadm	О	О	О	О	О	О	О	О
		FJSVmaom	-	-	-	-	-	-	-	-
		FJSVkmnd	_	-	_	_	_	О	_	_

No.	Component	Package name	PW -P	PW- CLZ	PW -CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVkmsv	-	-	-	-	-	-	-	-
		FJSVcmnd	-	О	О	0	О	-	-	-
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	О	О
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	О	-	-	О	О	-	О	О
		FJSVragt	О	-	-	0	О	-	О	О
		FJSVrmaos	О	-	-	0	О	-	О	О
		FJSVrrda	О	О	О	0	О	О	О	О
		FJSVracm	О	О	О	0	О	О	О	О
		FJSVsirms	О	О	О	0	О	О	О	О
		FJSVcmrm	-	-	-	0	О	-	-	-
		FJSVcmrm2	-	0	О	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control	FJSVapcs	О	О	О	0	О	О	О	-
	System	FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default	FJSVdef	О	0	О	0	О	О	О	О
	Configuration	FJSVssf	О	0	О	0	О	О	О	О
		FJSVpnlx.us	О	0	О	0	О	О	-	-
		FJSVpnl.us	О	0	О	0	О	О	-	-
		FJSVwarn.us	О	0	О	0	О	О	О	-
10	System Data Output Tool	FJSVsnap	О	0	О	0	О	О	О	О
11	License Manager	FSUNlic	О	О	О	0	О	О	О	О
12	Crash Dump Assistant	FJSVdmp	О	О	О	О	О	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	О	О	О	О	О	О	О
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	О	О	-	-	-	-	-
15	CPU Performance Counter	FJSVcpc	-	-	-	-	-	-	-	-
16	CPU Patrol Diagnosis	FJSVcpupd	-	- Note2	О	- Note2	О	О	О	-
17	G-LAN error notification	FJSVgidad	0	О	0	О	О	0	0	-
18	G-LAN MTU setting	FJSVgidr	0	О	0	0	О	0	0	-
19	НСР	FJSVhcp	0	-	-	-	-	-	-	
20	System Parameter Diagnosis	FJSVparam	О	О	0	О	О	О	О	0
21	HRM-S	FJSVhrm	-	-	-	-	-	_	-	
22	Tape Driver Configuration Tool	FJSVdcnf	О	О	О	О	0	О	О	О
23	Patch Version Acquisition Command	FJSVpmgc	О	О	0	0	О	О	О	О

Note1: DR command FJSVdrcmd is installed, but not supported.

Note2: FJSVcpupd CPU patrol diagnosis, all PW-CLZ and PW-CMZ models are installed, but they are not supported.

Solaris 9

O: Supported -: Not supported

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW-	PW -K	PW -T	PW -U
1	Enhanced Support Facility Information Management	FJSVbse	О	0	0	О	О	О	О	0
2	NGDR Command	FJSVdr	-	0	- Note2	-	-	0	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	О	-
		FJSVscd.us	-	-	-	-	-	-	О	-
		FJSVscr.us	-	-	-	-	-	-	О	-
		FJSVscu.us	-	-	-	-	-	-	О	-
		FJSVscuja	-	-	-	-	-	-	О	-
		FJSViomp	О	0	О	О	О	О	-	-
		FJSVscd2	-	-	-	-	-	О	-	-
		FJSVscr2	-	-	-	-	-	О	-	-
		FJSVscu2	-	-	-	-	-	О	-	-
		FJSVscuj2	-	-	-	-	-	О	-	-
		FJSVlscdx	-	-	-	-	-	-	-	О
		FJSVlscd	-	-	-	-	-	-	-	О
		FJSVlscr	-	-	-	-	-	-	-	О
		FJSVlscu	-	-	-	-	-	-	-	О
		FJSVlscuj	-	-	-	-	-	-	-	О
		FJSVscd3	-	0	О	О	О	-	-	-
		FJSVscr3	-	О	О	О	О	-	-	-
		FJSVscu3	-	0	О	О	О	-	-	-
		FJSVscuj3	-	О	О	О	О	-	-	-
		FJSVpscd	О	-	-	-	-	-	-	-
		FJSVpscr	О	-	-	-	-	-	-	-
		FJSVpscu	О	-	-	-	-	-	-	-
		FJSVpscuj	О	-	-	-	-	-	-	-
4	SunVTS,FJVTS	SUNWvts	О	0	О	О	О	О	О	О
		SUNWvtsmn	О	0	О	О	О	О	О	О
		SUNWvtsx	О	0	О	О	0	О	О	О
		FJSVvts	О	0	О	О	О	О	О	О
5	Web-Based Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	О
		FJSVsmnd	-	-	-	-	-	-	-	-
		FJSVmadm	О	О	О	0	О	О	О	О
		FJSVmaom	-	-	-	_	-	-	-	-
		FJSVkmnd	-	-	-	_	-	0	-	-
		FJSVkmsv	_	-	_	_	_	_	_	_

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVcmnd	-	О	О	0	О	-	-	-
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	О	О
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	0	-	-	0	О	-	О	О
		FJSVragt	О	-	-	О	О	-	О	О
		FJSVrmaos	О	-	-	О	О	-	О	О
		FJSVrrda	О	0	О	0	0	О	О	О
		FJSVracm	О	0	О	0	0	О	О	О
		FJSVsirms	О	0	О	0	0	О	О	О
		FJSVcmrm	-	-	-	О	0	-	-	-
		FJSVcmrm2	-	0	О	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	О	0	О	О	0	О	О	-
		FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default	FJSVdef	О	О	О	О	О	О	О	О
	Configuration	FJSVssf	О	О	О	О	О	О	О	О
		FJSVpnlx.us	О	О	О	0	-	О	-	-
		FJSVpnl.us	О	О	О	О	-	О	-	-
		FJSVwarn.us	О	О	О	О	О	О	О	-
10	System Data Output Tool	FJSVsnap	О	О	О	О	О	О	О	О
11	License Manager	FSUNlic	О	О	О	О	О	О	О	О
12	Crash Dump Assistant	FJSVdmp	О	О	О	О	0	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	О	О	0	О	О	О	О
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	0	О	-	-	-	-	_
15	CPU Patrol Diagnosis	FJSVcpupd	-	-	0	-	О	О	О	-
				Note3		Note3				
16	G-LAN error notification	FJSVgidad	О	О	О	0	О	О	0	-
17	НСР	FJSVhcp	О	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	О	0	О	0	О	О	О	О
19	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-
20	Tape Driver Configuration Tool	FJSVdcnf	О	О	0	О	О	О	О	О
21	Patch Version Acquisition Command	FJSVpmgc	О	О	0	О	О	О	О	О

Note1: PRIMEPOWER2500 are excluded.

Note2: NGDR command FJSVdr is installed, but supported.

Note3: FJSVcpupd CPU patrol diagnosis, all PW-CLZ and PW-CMZ models are installed, but they are not supported.

Solaris 10

O: Supported -: Not supported

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW-	PW -K	PW -T	PW -U
1	Enhanced Support Facility Information Management	FJSVbse	О	0	0	О	О	О	О	О
2	NGDR Command	FJSVdr	-	0	- Note2	-	-	О	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	О	-
		FJSVscd.us	-	-	-	-	-	_	О	-
		FJSVscr.us	-	-	-	-	-	-	О	-
		FJSVscu.us	-	-	-	-	-	-	О	-
		FJSVscuja	-	-	-	-	-	-	О	-
		FJSViomp	О	О	О	О	О	О	-	-
		FJSVscd2	-	-	-	-	-	О	-	-
		FJSVscr2	-	-	-	-	-	О	-	-
		FJSVscu2	-	-	-	-	-	О	-	-
		FJSVscuj2	-	-	-	-	-	О	-	-
		FJSVlscdx	-	-	-	-	-	-	-	О
		FJSVlscd	-	-	-	-	-	-	-	0
		FJSVlscr	-	-	-	-	-	-	-	0
		FJSVlscu	-	-	-	-	-	-	-	0
		FJSVlscuj	-	-	-	-	-	-	-	О
		FJSVscd3	-	0	О	О	О	-	-	-
		FJSVscr3	-	О	О	О	О	-	-	-
		FJSVscu3	-	0	О	О	О	-	-	-
		FJSVscuj3	-	О	О	О	О	_	-	-
		FJSVpscd	О	-	-	-	-	-	-	-
		FJSVpscr	О	-	-	-	-	-	-	-
		FJSVpscu	О	-	-	-	-	_	-	-
		FJSVpscuj	О	-	-	-	-	-	-	-
4	SunVTS,FJVTS	SUNWvts	О	0	О	О	О	О	О	0
		SUNWvtsmn	О	0	О	О	О	О	О	О
		SUNWvtsx	О	0	О	О	0	О	О	О
		FJSVvts	О	0	О	О	О	О	О	0
5	Web-Based Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	О
		FJSVsmnd	-	-	-	-	-	-	-	-
		FJSVmadm	0	0	0	0	О	О	0	О
		FJSVmaom	-	-	-	-	-	-	-	-
		FJSVkmnd	-	-	-	-	-	О	-	-
		FJSVkmsv	_	-	-	-	-	-	-	_

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVcmnd	-	0	О	О	О	-	-	-
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	О	О
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	О	-	-	0	О	-	О	О
		FJSVragt	О	-	-	О	О	-	О	О
		FJSVrmaos	О	-	-	О	О	-	О	О
		FJSVrrda	О	О	О	0	О	О	О	О
		FJSVracm	О	О	О	0	О	О	О	О
		FJSVsirms	О	О	О	О	0	О	О	О
		FJSVcmrm	-	-	-	О	0	-	-	-
		FJSVcmrm2	-	0	О	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	О	0	О	О	0	О	О	-
		FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	О	О	О	0	0	О	О	О
		FJSVssf	О	0	О	О	0	О	О	О
		FJSVpnl.us	О	0	О	0	-	О	-	-
		FJSVwarn.us	О	О	О	О	0	О	О	-
10	System Data Output Tool	FJSVsnap	О	О	О	О	0	О	О	О
11	License Manager	FSUNlic	О	О	О	0	О	О	О	О
12	Crash Dump Assistant	FJSVdmp	О	О	О	0	О	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	О	О	О	0	О	О	О
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	О	О	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	- Note3	О	- Note3	О	О	О	-
16	G-LAN error notification	FJSVgidad	О	О	0	0	О	О	0	-
17	НСР	FJSVhcp	О	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	О	О	О	0	О	О	О	О
19	HRM-S	FJSVhrm	-	-	-	-	-	-	_	-
20	Tape Driver Configuration Tool	FJSVdcnf	О	О	О	О	О	О	О	О
21	Patch Version Acquisition Command	FJSVpmgc	О	О	О	О	0	О	О	О

Note1: PRIMEPOWER2500 are excluded.

Note2: NGDR command FJSVdr is installed, but supported.

Note3: FJSVcpupd CPU patrol diagnosis, all PW-CLZ and PW-CMZ models are installed, but they are not supported.

G.2.2 Program components (CORE component group)

The table below lists the packages installed when the option specifies the CORE component group. Note: For package functions and unit abbreviations, see Chapter 1, "Program Components".

Solaris 8

O: Supported -: Not supported

No.	Component	Package name	PW -P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
1	Enhanced Support Facility Information Management	FJSVbse	О	О	О	О	О	О	О	О
2	DR Command	FJSVdrcmd	-	О	O Note1	-	-	О	-	1
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	О	-
		FJSVscd.us	-	-	-	-	-	-	О	-
		FJSVscr.us	-	-	-	-	-	-	О	-
		FJSVscu.us	-	-	-	-	-	-	О	-
		FJSVscuja	-	-	-	-	-	-	О	-
		FJSViomp	О	0	0	0	0	О	-	-
		FJSVscd2	-	-	-	-	-	О	-	-
		FJSVscr2	-	-	-	-	-	О	-	-
		FJSVscu2	-	-	-	-	-	О	-	-
		FJSVscuj2	_	-	-	-	-	О	-	-
		FJSVlscdx	_	-	-	-	-	-	-	О
		FJSVlscd	-	-	-	-	-	-	-	О
		FJSVlscr	_	-	-	-	-	-	-	О
		FJSVlscu	-	-	-	-	-	-	-	О
		FJSVlscuj	-	-	-	-	-	-	-	О
		FJSVscd3	_	0	0	0	0	_	_	-
		FJSVscr3	-	0	0	0	О	-	-	-
		FJSVscu3	-	0	0	0	О	-	-	-
		FJSVscuj3	-	0	0	0	О	-	-	-
		FJSVpscd	О	-	-	-	-	-	-	-
		FJSVpscr	О	-	-	-	-	-	-	-
		FJSVscu	О	-	_	_	-	_	_	-
		FJSVscuj	О	-	-	-	-	-	-	-
4	SunVTS,FJVTS	SUNWvts	-	-	_	_	-	_	_	-
		SUNWvtsmn	-	-	-	-	-	-	-	-
		SUNWvtsx	-	-	_	_	-	_	_	-
		FJSVvts	_	-	-	-	-	_	_	-
5	Web-Based Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	О
		FJSVsmnd	-	-	-	-	-	-	-	-
		FJSVmadm	О	О	О	О	О	О	О	О
		FJSVmaom	_	_	_	_	_	_	1_	_

No.	Component	Package name	PW -P	PW- CLZ	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVkmnd	-	-	-	-	-	О	-	-
		FJSVkmsv	-	-	-	-	-	-	-	-
		FJSVcmnd	-	О	О	О	О	-	-	-
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	О	О
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	О	-	-	О	О	-	О	О
		FJSVragt	О	-	-	О	О	-	О	О
		FJSVrmaos	О	-	-	О	0	-	О	О
		FJSVrrda	О	0	0	О	0	О	О	О
		FJSVracm	О	0	0	О	О	О	О	О
		FJSVsirms	О	0	0	О	О	О	О	О
		FJSVcmrm	-	-	-	О	О	-	-	-
		FJSVcmrm2	-	0	0	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control	FJSVapcs	-	-	-	-	-	-	-	-
	System	FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default	FJSVdef	О	0	0	0	0	О	О	О
	Configuration	FJSVssf	О	0	0	0	0	О	О	О
		FJSVpnlx.us	О	0	0	О	0	О	-	-
		FJSVpnl.us	О	0	0	0	0	О	-	-
		FJSVwarn.us	О	О	О	О	О	О	О	-
10	System Data Output Tool	FJSVsnap	О	О	О	О	О	О	О	О
11	License Manager	FSUNlic	-	-	-	-	-	-	-	-
12	Crash Dump Assistant	FJSVdmp	О	0	0	О	0	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	О	О	О	О	О	О	О
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	О	О	-	-	-	-	-
15	CPU Performance Counter	FJSVcpc	-	-	-	-	-	-	-	-
16	CPU Patrol Diagnosis	FJSVcpupd	_	-	-	-	-	-	-	-
17	G-LAN error notification	FJSVgidad	О	0	0	О	О	О	О	-
18	G-LAN MTU setting	FJSVgidr	О	0	0	О	О	О	О	-
19	НСР	FJSVhcp	О	-	-	-	-		-	_
20	System Parameter Diagnosis	FJSVparam	О	О	О	О	0	О	О	О
21	HRM-S	FJSVhrm	_	-	-	-	_	-	-	_
22	Tape Driver Configuration Tool	FJSVdcnf	О	О	О	О	О	О	О	О
23	Patch Version Acquisition Command	FJSVpmgc	О	О	О	О	0	О	О	О

Note1: DR command FJSVdrcmd is installed, but not supported.

Solaris 9

O: Supported -: Not supported

<u>у. риј</u> No.	component : Not supported	Package name	PW -P	PW- CLZ	PW- CL	PW-	PW-	PW -K	PW -T	PW -U
1	Enhanced Support Facility	FJSVbse	О	Note1 O	О	О	О	О	О	О
2	Information Management NGDR Command	FJSVdr	-	О	O Note2	-	-	О	-	-
3	SCF Driver	FJSVscdx.us	_	_	-	_	_	_	0	_
		FJSVscd.us	_	-	-	-	-	_	О	_
		FJSVscr.us	-	-	_	_	-	-	О	-
		FJSVscu.us	_	-	-	-	-	_	О	-
		FJSVscuja	_	-	-	-	-	_	О	-
		FJSViomp	О	0	0	О	0	О	_	-
		FJSVscd2	_	-	-	-	-	О	_	-
		FJSVscr2	_	-	-	-	-	О	_	-
		FJSVscu2	-	-	_	_	-	О	-	-
		FJSVscuj2	-	-	_	_	-	О	-	-
		FJSVlscdx	-	-	_	_	-	-	-	О
		FJSVlscd	_	-	-	-	-	_	_	О
		FJSVlscr	_	-	-	_	-	_	_	О
		FJSVlscu	_	-	-	_	-	_	_	О
		FJSVlscuj	_	-	-	_	-	_	_	О
		FJSVscd3	_	0	О	0	О	_	_	-
		FJSVscr3	-	0	О	О	О	-	-	-
		FJSVscu3	_	0	0	О	0	_	_	-
		FJSVscuj3	-	0	0	О	О	-	-	-
		FJSVpscd	О	-	-	-	-	-	-	-
		FJSVpscr	О	-	-	-	-	-	-	-
		FJSVpscu	О	-	-	-	-	-	-	-
		FJSVpscuj	О	-	-	-	-	-	-	-
4	SunVTS,FJVTS	SUNWvts	-	-	-	-	-	-	-	-
		SUNWvtsmn	-	-	-	-	-	-	-	-
		SUNWvtsx	-	-	-	-	-	-	-	-
		FJSVvts	-	-	-	-	-	-	-	-
5	Web-Based Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	0
		FJSVsmnd	-	-	-	-	-	-	-	-
		FJSVmadm	О	0	О	О	О	О	О	О
		FJSVmaom	-	-	_	-	_	-	-	_
		FJSVkmnd	-	-	_	-	_	0	-	_
		FJSVkmsv	_	_	_	_	_	_	_	_

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW-	PW -K	PW -T	PW -U
		FJSVcmnd	_	0	0	0	0	_	-	_
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	_	О	0
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	О	-	-	О	О	-	О	О
		FJSVragt	О	-	-	О	О	-	О	О
		FJSVrmaos	О	-	-	0	О	-	О	О
		FJSVrrda	О	0	0	0	0	О	О	О
		FJSVracm	О	О	О	О	О	О	О	О
		FJSVsirms	О	О	О	О	О	О	О	О
		FJSVcmrm	-	-	-	О	О	-	-	-
		FJSVcmrm2	-	О	О	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control	FJSVapcs	-	-	-	-	-	-	-	-
	System	FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	О	0	О	0	О	О	О	0
		FJSVssf	О	0	0	0	0	О	О	О
		FJSVpnlx.us	О	0	0	0	0	О	-	-
		FJSVpnl.us	О	0	0	0	0	О	-	-
		FJSVwarn.us	О	0	0	О	О	О	О	-
10	System Data Output Tool	FJSVsnap	О	0	0	О	О	О	О	О
11	License Manager	FSUNlic	-	-	-	-	-	-	-	-
12	Crash Dump Assistant	FJSVdmp	О	0	0	О	0	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	0	0	0	0	О	О	О
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	0	0	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	-	-	-	-	-	-	-
16	G-LAN error notification	FJSVgidad	О	0	0	0	0	О	О	-
17	НСР	FJSVhcp	О	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	О	О	О	О	О	О	О	О
19	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-
20	Tape Driver ConfigurationTool	FJSVdcnf	О	О	О	О	0	О	О	О
21	Patch Version Acquisition Command	FJSVpmgc	О	О	О	О	0	О	О	О

Note1: PRIMEPOWER2500 are excluded.

Note 2: NGDR command FJSV dr is installed, but not supported.

Solaris 10

O: Supported -: Not supported

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW-	PW -K	PW -T	PW -U
1	Enhanced Support Facility Information Management	FJSVbse	О	O	О	О	О	О	О	О
2	NGDR Command	FJSVdr	-	О	O Note2	-	-	О	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	О	-
		FJSVscd.us	-	-	-	-	-	-	О	-
		FJSVscr.us	-	-	-	-	-	-	О	-
		FJSVscu.us	-	-	-	-	-	-	О	-
		FJSVscuja	-	-	-	-	-	-	О	-
		FJSViomp	О	0	0	О	О	О	-	-
		FJSVscd2	-	-	-	-	-	О	-	-
		FJSVscr2	-	-	-	-	-	О	-	-
		FJSVscu2	-	-	-	-	-	О	-	-
		FJSVscuj2	-	-	-	-	-	О	-	-
		FJSVlscdx	-	-	-	-	-	-	-	О
		FJSVlscd	-	-	-	-	-	-	-	О
		FJSVlscr	-	-	-	-	-	-	-	О
		FJSVlscu	-	-	-	-	-	-	-	О
		FJSVlscuj	_	-	-	-	-	_	_	О
		FJSVscd3	-	0	0	О	О	-	-	-
		FJSVscr3	-	0	0	О	О	-	-	-
		FJSVscu3	-	0	0	О	О	-	-	-
		FJSVscuj3	-	0	0	О	О	-	-	-
		FJSVpscd	О	-	-	-	-	-	-	-
		FJSVpscr	О	-	-	-	-	-	-	-
		FJSVpscu	О	-	-	-	-	-	-	-
		FJSVpscuj	О	-	-	-	-	-	-	-
4	SunVTS,FJVTS	SUNWvts	-	-	-	-	-	-	-	-
		SUNWvtsmn	-	-	-	-	-	-	-	-
		SUNWvtsx	-	-	-	-	-	-	-	-
		FJSVvts	-	-	-	-	-	-	-	-
5	Web-Based Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
	/WWW Server for Admin View	FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	0	0
		FJSVsmnd	-	-	-	-	-	-	-	-
		FJSVmadm	О	0	О	0	О	О	О	О
		FJSVmaom	-	-	_	_	-	-	-	-
		FJSVkmnd	-	-	-	_	-	О	-	-
		FJSVkmsv	_	_	_	_	-	_	_	_

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVcmnd	-	0	О	0	О	-	-	-
		FJSVpmnd	О	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	О	О
		FJSVsmrm	-	-	-	-	-	-	-	-
		FJSVkmrm	-	-	-	-	-	О	-	-
		FJSVrlib	О	-	-	0	О	-	О	О
		FJSVragt	О	-	-	0	0	-	О	О
		FJSVrmaos	О	-	-	0	0	-	О	О
		FJSVrrda	О	0	О	0	0	О	О	О
		FJSVracm	О	0	О	0	0	О	О	О
		FJSVsirms	О	0	О	0	0	О	О	О
		FJSVcmrm	-	-	-	О	О	-	-	-
		FJSVcmrm2	-	0	О	-	-	-	-	-
		FJSVpmrm	О	-	-	-	-	-	-	-
8	Auto Power Control	FJSVapcs	-	-	-	-	-	-	-	-
	System	FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default	FJSVdef	О	0	О	О	О	О	О	О
	Configuration	FJSVssf	О	0	О	О	О	О	О	О
		FJSVpnl.us	О	0	О	О	О	О	-	-
		FJSVwarn.us	О	0	О	О	О	О	О	-
10	System Data Output Tool	FJSVsnap	О	0	О	О	О	О	О	О
11	License Manager	FSUNlic	-	-	-	-	-	-	-	-
12	Crash Dump Assistant	FJSVdmp	О	0	О	О	О	О	О	О
13	Auto Dump Analyze Tool	FJSVana	О	0	О	О	О	О	О	0
14	Reliability Driver	FJSVse	-	-	-	-	-	О	-	-
		FJSVsec	-	0	О	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	-	-	-	-	-	-	-
16	G-LAN error notification	FJSVgidad	О	0	О	О	О	О	О	-
17	НСР	FJSVhcp	0	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	О	О	О	О	О	О	О	О
19	HRM-S	FJSVhrm	-	-		-	-	_	_	
20	Tape Driver ConfigurationTool	FJSVdcnf	О	О	О	О	О	О	О	О
21	Patch Version Acquisition Command	FJSVpmgc	О	О	О	О	0	О	О	О

Note1: PRIMEPOWER2500 are excluded.

Note 2: NGDR command FJSV dr is installed, but not supported.

G.3 Specifying a Component Group for Installation

To specify a component group for installation, use the following component group specification option.

Format esfadd [-c] [-O COMPONENT-GROUP]

For COMPONENT-GROUP, specify the component group to be installed.

If the -c option is specified, you can confirm the package that will be installed.

Execution example (PRIMEPOWER400, Solaris 8, and BASIC component installation)

1. Confirm the package to be installed.

```
# bin/esfadd -c -O BASIC <Return>
```

The following message is displayed.

```
Check the package that will be updated.

Platform: FJSV,GPUS

OS Release: Solaris 8

COMPONENT GROUP: BASIC

Do you want to continue? [yes or no ?]: yes <Return>
```

If this software is not installed, the following message is displayed.

```
esfadd: INFO: This software is not installed on the system.
```

2. To perform installation, specify the option in the esfadd command.

```
# bin/esfadd -O BASIC <Return>
```

The following message is displayed.

```
Enhanced Support Facility 2.6 will be installed.
   Platform: FJSV,GPUS
   OS Release: Solaris 8
   COMPONENT GROUP: BASIC
Do you want to continue with this installation? [yes or no ?]: yes <Return>
```

Note 1

The following message is displayed when a package component which is not included in the specified component group, is installed on the system.

```
Enhanced Support Facility 2.6 will be installed.

Platform: FJSV,GPUS

OS Release: Solaris 8

COMPONENT GROUP: BASIC

NOTE: The following package(s) not included in the specified component group is installed.

PACKAGENAME1 PACKAGENAME2

Do you want to continue with this installation? [yes or no ?]:
```

Type "no" to exit the installation and check the system environment.

If the package has been installed by other software, there is no problem about this message. Please continue the installation.

For notes on installation, see Section 5.1.1.3 or 5.2.1.3, "Installing Enhanced Support Facility."

3. To check the version of each installed package, use the esfver command (as in a normal installation).

```
# bin/esfver -1 <Return>
```

The version of each package is displayed.

4. To delete a package, use the esfrm command (as in a normal installation). No options are required,

```
# bin/esfrm <Return>
```

```
The following message is displayed. Type "all," "part," or "no."
```

Appendix H When the patches fail to be applied

See the README in the patch directory for patch information.

- 1. The following messages will be displayed when applying of the patch was failed.
 - a. when the package ds not exist

```
(xxxxxx-xx is patch ID)
```

```
One or more patch packages included in xxxxxx-xx are not installed on this system.
WARNING: Skipping patch xxxxxx-xx
```

or

```
None of the packages included in patch xxxxxx-xx are installed on this system.
WARNING: Skipping patch xxxxxx-xx
```

If these messages are displayed, packages that would be corrected by the patch have not been installed on the system. Please check the environment of the system.

If you installed the software by specifying a component group that excluded the package being corrected, this message will be displayed. but in that case, there is no problem.

b. when the patch has already been applied

```
Patch xxxxxx-xx has already been applied.
See patchadd(1M) for instructions.
WARNING: Skipping patch xxxxxx-xx
```

If this message is displayed, the patch has already been applied to the system.

If you are doing an update installation of this software, this is not a problem

- 2. Execute the following procedures to apply the patch again
 - 1) Remove the FJSVbse package.

```
# pkgrm FJSVbse <Return>
```

2) Go on to step 2 provided in "5.1.1.3 Installing Enhanced Support Facility" or "5.2.1.3 Installing Enhanced Support Facility."

Appendix I Custom JumpStart

Enhanced Support Facility 2.4.1 can be installed using Custom JumpStart with the procedures described in this appendix.

I.1 Support Environment

Operating Environment:

Solaris 9 Solaris 10

- Models:
 - PW-CMZ (FJSV, GPUZC-M): PRIMEPOWER650(Model equipped with SPARC64™ V)/850(Model equipped with SPARC64™ V)
 - PW-CLZ (FJSV, GPUZC-L): PRIMEPOWER900/1500(Model equipped with SPARC64 $^{\text{TM}}$ V)/ 2500
 - PW-P (FJSV, GPUSC-M): PRIMEPOWER250/450

I.2 Procedure

I.2.1 How to use the CD-ROM drive of installation server

For information on how to use the CD-ROM drive, refer to the following manual in Solaris Documentation:

Solaris 9 System Administrator Collection

"Accessing Removable Media (Tasks)" in "System Administration Guide: Basic Administration"

Note

If you need to make local CDs available to other systems, add the following line to the /etc/rmmount.conf file.

share cdrom* -o ro,anon=0

If you add the line "share cdrom*," you cannot invoke the esfadd command.

I.2.2 Installation script for Enhanced Support Facility

Enhanced Support Facility can be installed by using a JumpStart finish script. The finish script should contain the following procedures.

- 1) Mount the Enhanced Support Facility directory (CD-ROM) on the installation server to the target system.
- 2) Execute the esfadd command with the following options:
 - -R <root directory>

Specify the root directory where Enhanced Support Facility is installed (/a for JumpStart)

-d <directory>

Specify the directory where the packages of Enhanced Support Facility exist with a full pathname.

The package directories are as follows:

(NOTE: Be sure to specify the correct package directory. Using an incorrect package directory may cause the system to be damaged.)

Platform	OS version	package directory
PW-CLZ	Solaris 9	<mount_point>/Platform/C_L_Z/9</mount_point>
	Solaris 10	<mount_point>/Platform/C_L_Z/10</mount_point>
PW-CMZ	Solaris 9	<mount_point>/Platform/C_M_Z/9</mount_point>
	Solaris 10	<mount_point>/Platform/C_M_Z/10</mount_point>
PW-P	Solaris 9	<mount_point>/Platform/P/9</mount_point>
	Solaris 10	<mount_point>/Platform/P/10</mount_point>

-n

Indicates non-interactive mode. User intervention will not be required during the installation.

Example : Finish script for PRIMEPOWER250/450 Solaris 9 $\,$

```
mount -F nfs <install_server_IP>:<mount_point> /a/mnt
/a/mnt/bin/esfadd -R /a -d /a/mnt/Platform/P/9 -n
```

I.3 Notes

For initial install only.

Please specify initial_install or flash_install for the JumpStart Install_type profile keyword.(Upgrade installation is not supported for either Solaris or Enhanced Support Facility). If the installation of Enhanced Support Facility fails, reinstall the operating system, then install Enhanced Support Facility.

-d option must be specified with the esfadd command for JumpStart installation
 Using the incorrect directory can cause the system to be damaged or not to function correctly.

Appendix J Solaris network installation using DHCP service

If network installation is performed using DHCP service, the system behaves as a DHCP client. Enhanced Support Facility should be installed after the system is configured to use a static IP address.

Note:

Network installation using DHCP is supported for Solaris 9, 10 only. Please refer to Hardware Platform Guide for more information about DHCP support on PRIMEPOWER system.

If Enhanced Support Facility is installed while the system is running as a DHCP client, the following symptoms may occur.

■ Web-Based Admin View

Symptom: The following messages are displayed on the client system and Web-Based Admin View ds not work correctly.

0005 Cannot connect to Management. Server. Do you want to re-connect?

Recommended action: After configuring the system to use a static IP address, modify the IP address configuration of Web-Based Admin View. See "6.1 Changing an IP Address on the Public LAN" in Web Based Admin View Operation Guide for more details.

Remote support

Influence: Reporting using Point-to-Point (PtoP) connection (ISDN) cannot be performed.

Recommended action: After configuring the system to use a static IP address, please request a service engineer to change the setting of the router for REMCS PtoP (ISDN) connection.

Appendix K Solaris Zone

Note1

Please install Enhanced Support Facility in global zone.

It is not possible to install it in non-global zone.

The following messages are displayed when "esfadd" command is executed by non-global zone and it ends.

esfadd: ERROR: This software cannot be installed in non-global zone.

Note2 License Manager

When zones are created in the Solaris 10 system, start the license manager in the global zone. Install the FSUNlic package and set the license file in the global zone, and copy the license file into non-global zones.

global# cd /etc/opt
global# find FSUNlicense ! -name bin -print | cpio -pdm zone_path/root/etc/opt

Note3 Registering the License Server

When zones are created in the Solaris 10 system, input the node name of the global zone to Node Name.

Note4 Dynamic Reconfiguration (DR)

Please note the followings when using DR in zones.

- DR operation is only possible in a global zone. DR operation is not available in a non-global zone.
- If physical devices are assigned to the non-global zone, DR disconnect operation might be failed. When using DR in zones, please consider about these limitations prior to the system deployment.

Note5 PCI Hot Plug (PHP)

Please note the followings when using PCI Hot Plug in zones.

- PCI Hot Plug operation is only possible in a global zone. PCI Hot Plug operation is not available in a non-global zone.
- If physical devices are assigned to the non-global zone, PCI Hot Plug disconnect operation might be failed. When using PCI Hot Plug in zones, please consider about these limitations prior to the system deployment.

See Also

- Solaris 10 System Administrator Collection

"System Administration Guide: Solaris Containers -- Resource Management and Solaris Zones "

Appendix L Notes on FJVTS

L1. Notes under Solaris 10 installation

Do not install the SunVTS (Sun Validation Test Suite) when you install Solaris 10.

[Screen view (Example)]

```
Select Products -----
Select the products you would like to install.
  ] Solaris 10 Extra Value Software.....
                                        0.00 MB
      68.46 MB
16.21 MB
    42.59 MB
    Java Enterprise System.....
    Solaris Software Companion CD......
Press Return to hide components
             F3_Go Back
                       Esc-4_Product Info
                                      F5_Exit
 Esc-2_Continue
                                             F6_Help
```

[Example of failure in start of the FJVTS]

```
# /opt/FJSVvts/bin/fjvts
Now, FJVTS system is under construction.
Apr 20 14:58:20 katana SunVTS6.0: entry = .customtest
Apr 20 14:58:20 katana SunVTS6.0: entry = .customtest_OtherDevices
Apr 20 14:58:21 katana SunVTS6.0: dlopen() for probe shared library ../../lib/pr
obe/sparcv9/jnifctest_probe.so failed. ld.so.1: ./vtsk: fatal: relocation error:
    file ../../lib/probe/sparcv9/jnifctest_probe.so: symbol vts_set_test_concurrenc
    y: referenced symbol not found
sunvts: Can't start vtsk properly. Stop.
#
```

L2. Action at the FJVTS failure

Take the following steps to solve the problem.

1) Stop the FJVTS related processes.

Kill whole the FJVTS related processes with the command below. [Example]

2) Save the environment setting file.

Save the environment setting file, using the procedures in "5.1.2.4 Saving the environment setting file" or "5.2.2.4 Saving the environment setting file."

 Remove packages related to the SunVTS/FJVTS. Execute the following command.

```
# pkgrm FJSVvts SUNWvtsx SUNWvtsts SUNWvtsr SUNWvtsmn SUNWvts <Return>
```

^{*} Do not install the SunVTS here. Otherwise, the FJVTS installed later will fail to run.

* Continue the removal of the package with "y", though you may see the following messages.

4) Remove the FJSVbse package. Execute the following command.

pkgrm FJSVbse <Return>

- 5) Reinstall Enhanced Support Facility.
 - Go to the single user mode. Then go on to step 2 in "5.1.1.3 Installing Enhanced Support Facility" or "5.2.1.3 Installing Enhanced Support Facility."
- 6) Restore the saved environment setting file.
 Restore the saved environment setting file, using the procedures in "5.1.2.7 Restoring the environment setting file" or "5.2.2.7 Restoring the environment setting file."

^{*}It is not necessary to delete other packages.