
INSTALLATION GUIDE

Enhanced Support Facility 2.4.1

for Solaris™ Operating Environment

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Preface

The following pertains to trademarks concerning Solaris™ Operating Environments: Full: Solaris™ Operating Environment, Abbreviation: Solaris OE.

Full: Solaris™ 2.6 Operating Environment, Solaris™ 7 Operating Environment, Solaris™ 8 Operating Environment, Solaris™ 9 Operating Environment

Abbreviations: Hereafter Solaris 2.6 OE, Solaris 7 OE, Solaris 8 OE, Solaris 9 OE.

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.

Chapter 1 Program Components

The following components and packages comprise this software.

1.1 Solaris™ 2.6 Operating Environment

PW-K : PRIMEPOWER800/1000/2000

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

O : Supported, - : Not supported

No.	Component	Package name	Version	PW-K	PW-T	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.4.1	O	O	Installation management of Enhanced Support Facility
2	SCF Driver	FJSVscdx.us	1.9.1	-	O	RAS control device drivers(SCF,FaultLED)(64-bit)
		FJSVscd.us	1.9.1	-	O	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.1	-	O	RAS control daemon, files
		FJSVscu.us	1.9.1	-	O	RAS control commands
		FJSVscuja	1.9.1	-	O	RAS control Japanese environment
		FJSVscd1	1.0	O	-	RAS control device drivers for PRIMEPOWER800/1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr1	1.0	O	-	RAS control daemon, files for PRIMEPOWER800/1000/2000
		FJSVscu1	1.0	O	-	RAS control commands for PRIMEPOWER800/1000/2000
		FJSVscuj1	1.0	O	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000
3	SunVTS, FJVTS	SUNWvts	2.1.3	O	O	Online diagnostic test
		SUNWvtsmn	2.1.3	O	O	
		FJSVvts	2.1.3	O	O	
4	Web-Based Admin View / WWW Server for Admin View	FJSVwvcnf	2.0.3	O	O	WWW server for Web-Based Admin View
		FJSVwvbs	2.1.1	O	O	Basic communication functionality for Web application.
5	Machine Administration	FJSVmasv	2.2.1	O	O	Hardware dependent system operation and maintenance support
		FJSVmand	2.2.1	-	O	
		FJSVmadm	1.1.2	O	O	
		FJSVmaom	1.8.2	O	O	
		FJSVkmnd	1.6.2	O	-	
		FJSVkmsv	2.0	O	-	
6	Remote Support	FJSVmarm	1.8	-	O	Functions for connection to the Fujitsu Support Center
		FJSVkmrm	1.0.4	O	-	
		FJSVrlib	7.1	-	O	
		FJSVragt	2.7	-	O	
		FJSVrmaos	2.8	-	O	
		FJSVrrda	2.7	O	O	
		FJSVracm	2.7	O	O	
		FJSVsirms	3.0	O	O	

No.	Component	Package name	Version	PW-K	PW-T	Function
7	Auto Power Control System	FJSVapcs	1.4.0	O	O	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	O	O	Administrator View of the Auto Power Control System
8	Server Default Configuration	FJSVdef	1.1.4	O	O	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	O	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	O	O	The memory error inspection function
9	System Data Output Tool	FJSVsnap	2.3.1	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.
10	License Manager	FSUNlic	6.2	O	O	Manages software licenses.
11	Crash Dump Assistant	FJSVdmp	1.5	O	O	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	O	O	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	O	-	Serial port driver for PRIMEPOWER800/1000/2000 reliability
14	CPU Patrol Diagnosis	FJSVcpupd	1.3	O	O	Patrol diagnosis function for FUJITSU SPARC64 GP processors

1.2 Solaris™ 7 Operating Environment

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, - : Not supported

No.	Component	Package name	Version	PW-K	PW-T	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.4.1	O	O	Installation material data management of Enhanced Support Facility
2	SCF Driver	FJSVscdx.us	1.9.1	-	O	RAS control device drivers(SCF,FaultLED) (64-bit)
		FJSVscd.us	1.9.1	-	O	RAS control device drivers(SCF,FaultLED)

No.	Component	Package name	Version	PW-K	PW-T	Function
		FJSVscr.us	1.9.1	-	O	RAS control daemon, files
		FJSVscu.us	1.9.1	-	O	RAS control commands
		FJSVscuja	1.9.1	-	O	RAS control Japanese environment
		FJSViomp	2.3	O	-	IOMP level 2 framework for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscd2	1.2.3	O	-	RAS control device drivers for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.2.3	O	-	RAS control daemon, files for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.2.3	O	-	RAS control commands for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscuj2	1.2.3	O	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
3	SunVTS, FJVTS	SUNWvts	4.0	O	O	Online diagnostic test
		SUNWvtsmn	4.0	O	O	
		SUNWvtsx	4.0	O	O	
		FJSVvts	4.0	O	O	
4	Web-Based Admin View / WWW Server for Admin View	FJSVwvcnf	2.0.3	O	O	WWW server for Web-Based Admin View
		FJSVwvbs	2.1.1	O	O	Basic communication functionality for Web application.
5	Machine Administration	FJSVmasv	2.2.1	O	O	Hardware dependent system operation and maintenance support
		FJSVmand	2.2.1	-	O	
		FJSVmadm	1.1.2	O	O	
		FJSVmaom	1.8.2	O	O	
		FJSVkmnd	1.6.2	O	-	
		FJSVkmsv	2.0	O	-	
6	Remote Support	FJSVmarm	1.8	-	O	Functions for connection to the Fujitsu Support Center
		FJSVkmrm	1.0.4	O	-	
		FJSVrlib	7.1	-	O	
		FJSVragt	2.7	-	O	
		FJSVrmaos	2.8	-	O	
		FJSVrrda	2.7	O	O	
		FJSVracm	2.7	O	O	
		FJSVsirms	3.0	O	O	
7	Auto Power Control System	FJSVapcs	1.4.0	O	O	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	O	O	Administrator View of the Auto Power Control System
8	Server Default Configuration	FJSVdef	1.2.4	O	O	Prevents excessive use of log files by the system.
		FJSVssf	2.0.2	O	O	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	O	-	The Partition Dump Function(64-bit panel driver)

No.	Component	Package name	Version	PW-K	PW-T	Function
		FJSVpnl.us	2.1	O	-	The Partition Dump Function(32-bit panel driver)
		FJSVwarn.us	1.3	O	O	The memory error inspection function
9	System Data Output Tool	FJSVsnap	2.3.1	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.
10	License Manager	FSUNlic	6.2	O	O	Manages software licenses.
11	Crash Dump Assistant	FJSVdmp	1.5	O	O	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	O	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	O	-	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	O	O	Patrol diagnosis function for FUJITSU SPARC64 GP processors

1.3 Solaris™ 8 Operating Environment

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-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	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
1	Enhanced Support Facility Information Management	FJSVbse	2.4.1	O	O	O	O	O	O	O	O	Installation material data management of Enhanced Support Facility
2	DR Command	FJSVdrcmd	1.8	-	O	- Note1	-	-	O	-	-	Dynamic Reconfiguration command(64-bit)
3	SCF Driver	FJSVscdx.us	1.9.1	-	-	-	-	-	-	O	-	RAS control device drivers(SCF,FaultLED) (64-bit)

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
		FJSVscd.us	1.9.1	-	-	-	-	-	-	O	-	RAS control device drivers(SCF,FaultLED)
		FJSVscr.us	1.9.1	-	-	-	-	-	-	O	-	RAS control daemon, files
		FJSVscu.us	1.9.1	-	-	-	-	-	-	O	-	RAS control commands
		FJSVscuja	1.9.1	-	-	-	-	-	-	O	-	RAS control Japanese environment
		FJSViomp	2.3	O	O	O	O	O	O	-	-	IOMP level 2 framework for PRIMEPOWER250/450/650/800/850/900/1000/1500/2000/2500 and GP7000F Models 1000/2000
		FJSVscd2	1.2.3	-	-	-	-	-	O	-	-	RAS control device drivers for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.2.3	-	-	-	-	-	O	-	-	RAS control daemon, files for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.2.3	-	-	-	-	-	O	-	-	RAS control commands for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscuj2	1.2.3	-	-	-	-	-	O	-	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVlscdx	1.1.1	-	-	-	-	-	-	-	O	RAS control device drivers (SCF driver, FaultLED) (64-bit)
		FJSVlscd	1.1.1	-	-	-	-	-	-	-	O	RAS control device drivers (SCF driver, FaultLED)
		FJSVlscr	1.1.1	-	-	-	-	-	-	-	O	RAS control control daemon, files
		FJSVlscu	1.1.1	-	-	-	-	-	-	-	O	RAS control commands
		FJSVlscuj	1.1.1	-	-	-	-	-	-	-	O	RAS control Japanese environment
		FJSVscd3	1.2.1	-	O	O	O	O	-	-	-	RAS control device drivers for PRIMEPOWER650/850/900/1500/2500(SCF3 driver) (64-bit)

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
		FJSVscr3	1.2.1	-	O	O	O	O	-	-	-	RAS control daemon, files for PRIMEPOWER650/850/900/1500/2500
		FJSVscu3	1.2.1	-	O	O	O	O	-	-	-	RAS control commands for PRIMEPOWER650/850/900/1500/2500
		FJsvlscuj3	1.2.1	-	O	O	O	O	-	-	-	RAS control Japanese environment for PRIMEPOWER650/850/900/1500/2500
		FJSVpscd	1.0.1	O	-	-	-	-	-	-	-	RAS control device drivers for PRIMEPOWER250/450 (SCF3 driver) (64-bit)
		FJSVpscr	1.0.1	O	-	-	-	-	-	-	-	RAS control daemon, files for PRIMEPOWER250/450
		FJSVpscuc	1.0.1	O	-	-	-	-	-	-	-	RAS control commands for PRIMEPOWER250/450
		FJSVpscuj	1.0.1	O	-	-	-	-	-	-	-	RAS control Japanese environment for PRIMEPOWER250/450
4	SunVTS, FJVTS	SUNWvts	4.0	O	O	O	O	O	O	O	O	Online diagnostic test
		SUNWvtsmn	4.0	O	O	O	O	O	O	O	O	
		SUNWvtsx	4.0	O	O	O	O	O	O	O	O	
		FJSVvts	4.0	O	O	O	O	O	O	O	O	
5	Web-Based Admin View / WWW Server for Admin View	FJSVwvcnf	2.0.3	O	O	O	O	O	O	O	O	WWW server for Web-Based Admin View
		FJSVwvbs	2.1.1	O	O	O	O	O	O	O	O	Basic communication functionality for Web application.
6	Machine Administration	FJSVmasv	2.2.1	O	O	O	O	O	O	O	O	Hardware dependent system operation and maintenance support
		FJSVmand	2.2.1	-	-	-	-	-	-	O	O	
		FJSVmadm	1.1.2	O	O		O	O	O	O	O	
		FJSVmaom	1.8.2	O	O	O	O	O	O	O	O	
		FJSVkmnd	1.6.2	-	-	-	-	-	O	-	-	
		FJSVkmsv	2.0	-	-	-	-	-	O	-	-	
		FJSVcmnd	1.4.1	-	O	O	O	O	-	-	-	
		FJSVpmnd	1.1	O	-	-	-	-	-	-	-	
7	Remote Support	FJSVmarm	1.8	-	-	-	-	-	-	O	O	Functions for connection to the Fujitsu Support Center
		FJSVkmrm	1.0.4	-	-	-	-	-	O	-	-	
		FJSVrlib	7.1	O	-	-	O	O	-	O	O	
		FJSVragt	2.7	O	-	-	O	O	-	O	O	
		FJSVrmaos	2.8	O	-	-	O	O	-	O	O	
		FJSVrrda	2.7	O	O	O	O	O	O	O	O	

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
		FJSVracm	2.7	O	O	O	O	O	O	O	O	
		FJSVsirms	3.0	O	O	O	O	O	O	O	O	
		FJSVcmrm	1.4	-	-	-	O	O	-	-	-	
		FJSVcmrm2	1.1	-	O	O	-	-	-	-	-	
		FJSVpmrm	1.1	O	-	-	-	-	-	-	-	
8	Auto Power Control System	FJSVapcs	1.4.0	O	O	O	O	O	O	O	-	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcww	2.0	O	O	O	O	O	O	O	O	Administrator View of the Auto Power Control System.
9	Server Default Configuration	FJSVdef	1.2.4	O	O	O	O	O	O	O	O	Prevents excessive use of log files by the system .
		FJSVssf	2.0.2	O	O	O	O	O	O	O	O	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	O	O	O	O	O	O	-	-	The Partition Dump Function (64-bit panel driver)
		FJSVpnl.us	2.1	O	O	O	O	O	O	-	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	O	O	O	O	O	O	O	-	The memory error inspection function
10	System Data Output Tool	FJSVsnap	2.3.1	O	O	O	O	O	O	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	O	O	O	O	O	O	O	O	Manages software licenses.
12	Crash Dump Assistant	FJSVdmp	1.5	O	O	O	O	O	O	O	O	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.

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
13	Auto Dump Analyze Tool	FJSVana	1.1	O	O	O	O	O	O	O	O	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 /opt/FJSVana/doc/README.cocore(.ja).
14	Reliability Driver	FJSVse	2.1.2	-	-	-	-	-	O	-	-	Serial port driver
		FJSVsec	1.2.1	-	O	O	-	-	-	-	-	
15	CPU Patrol Diagnosis	FJSVcpupd	1.3	-	- Note2	O	- Note2	O	O	O	-	Patrol diagnosis function for FUJITSU SPARC64 GP processors
16	G-LAN error notification	FJSVgidad	2.0.0	O	O	O	O	O	O	O	-	GigabitEthernet interface error notification
17	G-LAN MTU setting	FJSVgidr	2.0.0	O	O	O	O	O	O	O	-	The script to set MTU changing when JumboFrame for GigabitEthernet interface.
18	HCP	FJSVhcp	1.0	O	-	-	-	-	-	-	-	XSCF User's Guide, firmware and utility.
19	System Parameter Diagnosis	FJSVparam	1.0	O	O	O	O	O	O	O	O	System parameters of the Solaris OE system are diagnosed.
20	HRM-S	FJSVhrm	2.0.1	O	O	O	O	O	-	O	-	This function supports maintenance work without a mistake early for the purpose of stable operation of a system

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

Note2: CPU patrol diagnosis FJSVcpupd, installed but unsupported on PW-CLZ and PW-CMZ models.

1.4 Solaris™ 9 Operating Environment

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-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	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function	
1	Enhanced Support Facility Information Management	FJSVbse	2.4.1	O	O	O	O	O	O	O	O	Installation material data management of Enhanced Support Facility	
2	NGDR Command	FJSVdr	1.2	-	O	- Note1	-	-	O	-	-	Dynamic Reconfiguration	
3	SCF Driver	FJSVscdx.us	1.9.1	-	-	-	-	-	-	O	-	RAS control device drivers(SCF,FaultLED) (64-bit)	
		FJSVscd.us	1.9.1	-	-	-	-	-	-	O	-	RAS control device drivers(SCF,FaultLED)	
		FJSVscr.us	1.9.1	-	-	-	-	-	-	O	-	RAS control daemon, files	
		FJSVscu.us	1.9.1	-	-	-	-	-	-	O	-	RAS control commands	
		FJSVscuja	1.9.1	-	-	-	-	-	-	O	-	RAS control Japanese environment	
		FJSViompp	2.3	O	O	O	O	O	O	O	-	-	IOMP level 2 framework for PRIMEPOWER250/450/650/800/850/1000/2000 and GP7000F Models 1000/2000
		FJSVscd2	1.2.3	-	-	-	-	-	-	O	-	-	RAS control device drivers for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000 (SCF2 driver) (32-bit/64-bit)
		FJSVscr2	1.2.3	-	-	-	-	-	-	O	-	-	RAS control daemon, files for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVscu2	1.2.3	-	-	-	-	-	-	O	-	-	RAS control commands for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
		FJSVscuj2	1.2.3	-	-	-	-	-	O	-	-	RAS control Japanese environment for PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
		FJSVlscdx	1.1.1	-	-	-	-	-	-	-	O	RAS control device drivers (SCF driver, FaultLED) (64-bit)
		FJSVlscd	1.1.1	-	-	-	-	-	-	-	O	RAS control device drivers (SCF driver, FaultLED)
		FJSVlscr	1.1.1	-	-	-	-	-	-	-	O	RAS control control daemon, files
		FJSVlsctu	1.1.1	-	-	-	-	-	-	-	O	RAS control commands
		FJSVlsctu	1.1.1	-	-	-	-	-	-	-	O	RAS control Japanese environment
		FJSVscd3	1.2.1	-	O	O	O	O	-	-	-	RAS control device drivers for PRIMEPOWER650/850 (SCF3 driver) (64-bit)
		FJSVscr3	1.2.1	-	O	O	O	O	-	-	-	RAS control daemon, files for PRIMEPOWER650/850
		FJSVscu3	1.2.1	-	O	O	O	O	-	-	-	RAS control commands for PRIMEPOWER650/850
		FJSVscuj3	1.2.1	-	O	O	O	O	-	-	-	RAS control Japanese environment for PRIMEPOWER650/850
		FJSVpscd	1.0.1	O	-	-	-	-	-	-	-	RAS control device drivers for PRIMEPOWER250/450 (SCF3 driver) (64-bit)
		FJSVpscr	1.0.1	O	-	-	-	-	-	-	-	RAS control daemon, files for PRIMEPOWER250/450
		FJSVpsctu	1.0.1	O	-	-	-	-	-	-	-	RAS control commands for PRIMEPOWER250/450
		FJSVpsctu	1.0.1	O	-	-	-	-	-	-	-	RAS control Japanese environment for PRIMEPOWER250/450
4	SunVTS, FJVTS	SUNWvts	5.1	O	O	O	O	O	O	O	O	Online diagnostic test
		SUNWvtsmn	5.1	O	O	O	O	O	O	O	O	
		SUNWvtsx	5.1	O	O	O	O	O	O	O	O	
		FJSVvts	5.1	O	O	O	O	O	O	O	O	
5	Web-Based Admin	FJSVwvcnf	2.0.3	O	O	O	O	O	O	O	O	WWW server for Web-Based Admin View

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
	View / WWW Server for Admin View	FJSVwvbs	2.1.1	O	O	O	O	O	O	O	O	Basic communication functionality for Web application.
6	Machine Administration	FJSVmasv	2.2.1	O	O	O	O	O	O	O	O	Hardware dependent system operation and maintenance support
		FJSVmand	2.2.1	-	-	-	-	-	-	O	O	
		FJSVmadm	1.1.2	O	O	O	O	O	O	O	O	
		FJSVmaom	1.8.2	O	O	O	O	O	O	O	O	
		FJSVkmnd	1.6.2	-	-	-	-	-	O	-	-	
		FJSVkmsv	2.0	-	-	-	-	-	O	-	-	
		FJSVcmnd	1.4.1	-	O	O	O	O	-	-	-	
FJSVpmnd	1.1	O	-	-	-	-	-	-	-	-		
7	Remote Support	FJSVmarm	1.8	-	-	-	-	-	-	O	O	Functions for connection to the Fujitsu Support Center
		FJSVkmrm	1.0.4	-	-	-	-	-	O	-	-	
		FJSVrlib	7.1	O	-	-	O	O	-	O	O	
		FJSVragt	2.7	O	-	-	O	O	-	O	O	
		FJSVmaos	2.8	O	-	-	O	O	-	O	O	
		FJSVrrda	2.7	O	O	O	O	O	O	O	O	
		FJSVracm	2.7	O	O	O	O	O	O	O	O	
		FJSVsirms	3.0	O	O	O	O	O	O	O	O	
		FJSVcmrm	1.4	-	-	-	O	O	-	-	-	
		FJSVcmrm2	1.1	-	O	O	-	-	-	-	-	
FJSVpmrm	1.1	O	-	-	-	-	-	-	-	-		
8	Auto Power Control System	FJSVapcs	1.4.0	O	O	O	O	O	O	O	-	Automatic powering on or off of main cabinet power to a specified schedule
		FJSVapcwv	2.0	O	O	O	O	O	O	O	O	Administrator View of the Auto Power Control System.
9	Server Default Configuration	FJSVdef	1.3	O	O	O	O	O	O	O	O	Prevents the system from using log files excessively.
		FJSVssf	2.0.2	O	O	O	O	O	O	O	O	Turns on certain trace functions to improve maintainability of the system.
		FJSVpnlx.us	2.1	O	O	O	O	O	O	-	-	The Partition Dump Function (64-bit panel driver)
		FJSVpnl.us	2.1	O	O	O	O	O	O	-	-	The Partition Dump Function (32-bit panel driver)
		FJSVwarn.us	1.3	O	O	O	O	O	O	O	-	The memory error inspection function

No.	Component	Package name	Version	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	Function
10	System Data Output Tool	FJSVsnap	2.3.1	O	O	O	O	O	O	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	O	O	O	O	O	O	O	O	Manages software licenses.
12	Crash Dump Assistant	FJSVdmp	1.5	O	O	O	O	O	O	O	O	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	2.0	O	O	O	O	O	O	O	O	Gather files that are necessary for core dump analysis. (NOTE: This version does not provide the automatic crash dump analysis function.)
14	Reliability Driver	FJSVse	3.0.1	-	-	-	-	-	O	-	-	Serial port driver
		FJSVsec	2.0.1		O	O	-	-	-	-	-	
15	CPU Patrol Diagnosis	FJSVcpupd	1.3	-	- Note2	O	- Note2	O	O	O	-	Patrol diagnosis function for FUJITSU SPARC64 GP processors
16	G-LAN error notification	FJSVgidad	2.1.0	O	O	O	O	O	O	O	-	GigabitEthernet interface error notification
17	HCP	FJSVhcp	1.0	O	-	-	-	-	-	-	-	XSCF User's Guide, firmware and utility.
18	System Parameter Diagnosis	FJSVparam	1.0	O	O	O	O	O	O	O	O	System parameters of the Solaris OE system are diagnosed.
19	HRM-S	FJSVhrm	2.0.1	O	O	O	O	O	-	O	-	This function supports maintenance work without a mistake early for the purpose of stable operation of a system

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 Applicable Manuals

2.1 Online Manuals

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

No.	Manual title	Format
1	Enhanced Support Facility User's Guide	HTML , pdf
2	Machine Administration Guide	HTML , pdf
3	REMCS Agent Operator's Guide	HTML , pdf
4	FJVTs Test Reference Manual	HTML , pdf
5	SunVTS 2.1 Quick Reference Card	PostScript™
6	Enhanced Support Facility Update Information	HTML , pdf
7	Dynamic Reconfiguration User's Guide	HTML , pdf
8	CPU Patrol Diagnosis User's Guide	HTML , pdf
9	Web-Based Admin View Operation Guide	HTML , pdf
10	Dynamic Reconfiguration User's Guide I/O device edition	HTML , pdf
11	PCI Hot Plug User's Guide	HTML , pdf
12	PCI Hot Plug User's Guide I/O device edition	HTML , pdf
13	XSCF User's Guide	pdf
14	NTP Operator's Guide	pdf
15	System Parameter Diagnosis User's Guide	HTML , pdf

2.1.1 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™. This may cause operational problems.

2.1.1.1 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
```

2.1.1.2 Using a server (Solaris™ Operating Environment)

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
```

2.1.2 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/qref21el.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 have to be installed.

No.	Name of Basic Software	Remarks
1	<p>Solaris 2.6 OE</p> <p>To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.</p> <p>SUNWbtool, SUNWtltk, SUNWxwice, SUNWdtecor, SUNWesu, SUNWxwfmt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWxcu4, SUNWdoc, SUNWipc, SUNWmfrun, SUNWxilow, SUNWxwplt, SUNWxwcoft, SUNWxwopt, SUNWjvrt, SUNWaudio, SUNWolrte, SUNWdtbas, SUNWjvjit, SUNWdtdte, SUNWdtdmn, SUNWoldst, SUNWadm, SUNWear, SUNWkvm, SUNWxi18n, SUNWjxcft, SUNWjxplt</p>	<ul style="list-style-type: none"> ● For PRIMEPOWER and GP7000F, Solaris 2.6 Hardware : 5/98 OE can be used. ● If you select the software group that contains "Developer System Support" when you install Solaris 2.6 Hardware : 5/98 OE, you can install Solaris 2.6 Hardware : 5/98 OE and the required packages at the same time.
2	<p>Solaris 7 OE</p> <p>To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.</p> <p>SUNWbtool, SUNWcslx, SUNWtltk, SUNWxwice, SUNWctpls, SUNWdtecor, SUNWesu, SUNWxwfmt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWxcu4, SUNWdoc, SUNWipc, SUNWmfrun, SUNWxilow, SUNWxwplt, SUNWxwcoft, SUNWxwopt, SUNWjvrt, SUNWaudio, SUNWolrte, SUNWdtbas, SUNWjvjit, SUNWdtdte, SUNWdtdmn, SUNWoldst, SUNWear, SUNWkvm, SUNWxi18n, SUNWjxcft, SUNWjxplt</p>	<ul style="list-style-type: none"> ● For PRIMEPOWER and GP7000F, Solaris 7 5/99 OE or later can be used. ● If you select the software group that contains "Developer System Support" when you install Solaris 7 5/99 OE or later, you can install Solaris 7 5/99 OE or later and the required packages at the same time.

No.	Name of Basic Software	Remarks
3	<p>Solaris 8 OE</p> <p>To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.</p> <p>SUNWbtool, SUNWcslx, SUNWltk, SUNWxwice, SUNWdcor, SUNWctpls, SUNWesu, SUNWxwfmt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpu, SUNWlibC, SUNWocfr, SUNWlpmmsg, SUNWpcer, SUNWpcu, SUNWppm, SUNWpsf, SUNWpsr, SUNWpsu, SUNWmp, SUNWxcu4, SUNWdoc, SUNWipc, SUNWipcx, SUNWlibCx, SUNWmfrun, SUNWxilow, SUNWj2rt, SUNWocf, SUNWxwplt, SUNWxwcf, SUNWxwopt, SUNWjvrt, SUNWaudio, SUNWolrte, SUNWdtbas, SUNWjvjit, SUNWdtde, SUNWtdmn, SUNWoldst, SUNWcar, SUNWkvm, SUNWdrr, SUNWdrrx, SUNWxi18n, SUNWjexpl</p>	<ul style="list-style-type: none"> ● For PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000, Solaris 8 OE 6/00 PRIMEPOWER800/1000/2000 Compliance or Solaris 8 OE 7/01 later can be used. ● For PRIMEPOWER650(Model equipped with SPARC64™ GP)/ 850(Model equipped with SPARC64™ GP), Solaris 8 7/01 OE PRIMEPOWER650/850 Compliance, Solaris 8 2/02 OE PRIMEPOWER(650/850 available) or Solaris 8 2/02 OE Rev.4 can be used. ● For PRIMEPOWER650(Model equipped with SPARC64™ V)/ 850(Model equipped with SPARC64™ V), Solaris 8 2/02 OE Rev.4 can be used. ● For PRIMEPOWER250/450/900/1500/2500, Solaris 8 2/02 OE Rev.4 can be used. ● If you select the software group that contains "Developer Solaris OE Software Group" when you install Solaris 8 OE, you can install Solaris 8 OE and the required packages at the same time.
4	<p>Solaris 9 OE</p> <p>To use this software on PRIMEPOWER and GP7000F systems, the following packages are required.</p> <p>SUNWbtool, SUNWcslx, SUNWltk, SUNWxwice, SUNWdcor, SUNWctpls, SUNWesu, SUNWxwfmt, SUNWxilrl, SUNWtoo, SUNWxildh, SUNWxwrtl, SUNWscpr, SUNWscpu, SUNWlibC, SUNWxcu4, SUNWdoc, SUNWipc, SUNWlibCx, SUNWmfrun, SUNWxilow, SUNWcpp, SUNWzlib, SUNWxwplt, SUNWxwcf, SUNWxwopt, SUNWolrte, SUNWdtbas, SUNWj3rt, SUNWj3irt, SUNWdrr.us, SUNWdrrx.us, SUNWcar, SUNWkvm, SUNWxi18n, SUNWlccom, SUNWeurf, SUNWxwacx, SUNWi2rf, SUNWi4rf, SUNWi5rf, SUNWi7rf, SUNWi8rf, SUNWi9rf, SUNWi15rf, SUNWarrf, SUNWkxmft, SUNWexmft, SUNW5xmft, SUNWtxfnt, SUNWeuodf, SUNWjxmft, SUNWjxcft, SUNWjxplt, SUNWlxml, SUNWlxmlx, SUNWzlibx, SUNWgss, SUNWfns, SUNWgssc, SUNWgssx, SUNWfnsx, SUNWxwplx, SUNWxwicx, SUNWepc, SUNWepcu, FJSVcpc</p>	<ul style="list-style-type: none"> ● For PRIMEPOWER1/200/400/600/800/1000/2000, GP7000F Models 200/200R/400/400R/400A/600/600R/1000/2000, Solaris 9 OE or later. ● For PRIMEPOWER650(Model equipped with SPARC64™ GP)/ 850(Model equipped with SPARC64™ GP), Solaris 9 12/02 OE or later. ● For PRIMEPOWER250/450/650(Model equipped with SPARC64™ V)/850(Model equipped with SPARC64™ V)/ 900/1500, Solaris 9 4/03 OE or later. ● For PRIMEPOWER2500, Solaris 9 12/03 OE or later. ● If you select the software group that contains "Developer Solaris OE Group" when you install Solaris 9 OE, you can install Solaris 9 OE and the required packages at the same time.

2) Software requirements

None

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 512Mbytes 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

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	3.0	3.0
2	/usr	1.5	1.5
3	/var	4.5	4.5
4	/export/home	0	0
5	/opt *	174.5	226.5

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

3.3.1.2 PRIMEPOWER1500 (Models equipped with SPARC64™ GP)

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	3.0	3.0
2	/usr	1.5	1.5
3	/var	4.5	4.5
4	/export/home	0	0
5	/opt *	174.5	226.5

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

3.3.1.3 PRIMEPOWER250/450

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	2.5	2.5
2	/usr	1.5	1.5
3	/var	3.5	3.5
4	/export/home	0	0
5	/opt *	200.5	252.5

*) 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)

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	2.5	2.5
2	/usr	1.5	1.5
3	/var	4.5	4.5
4	/export/home	0	0
5	/opt *	208.5	260.5

*) 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)

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	2.5	2.5
2	/usr	1.5	1.5
3	/var	4.5	4.5
4	/export/home	0	0
5	/opt *	208.5	260.5

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

3.3.1.6 PRIMEPOWER800/1000/2000

No.	Directory	Disk space requirement (in Mbytes)			
		Solaris 2.6 OE	Solaris 7 OE	Solaris 8 OE	Solaris 9 OE
1	root	2.0	2.5	3.0	3.0
2	/usr	1.5	1.5	1.5	1.5
3	/var	2.0	2.0	2.0	2.0
4	/export/home	0	0	0	0
5	/opt *	94.5	120.5	121.0	173.0

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

3.3.1.7 GP7000F Models 1000/2000

No.	Directory	Disk space requirement (in Mbytes)		
		Solaris 7 OE	Solaris 8 OE	Solaris 9 OE
1	root	2.5	3.0	3.0
2	/usr	1.5	1.5	1.5
3	/var	2.0	2.0	2.0
4	/export/home	0	0	0
5	/opt *	120.5	121.0	173.0

*) 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

No.	Directory	Disk space requirement (in Mbytes)			
		Solaris 2.6 OE	Solaris 7 OE	Solaris 8 OE	Solaris 9 OE
1	root	2.0	2.0	2.0	2.5
2	/usr	1.5	1.5	1.5	1.5
3	/var	2.0	2.0	2.0	2.5
4	/export/home	0	0	0	0
5	/opt *	111.5	137.5	188.0	240.0

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

3.3.1.9 PRIMEPOWER1

No.	Directory	Disk space requirement (in Mbytes)	
		Solaris 8 OE	Solaris 9 OE
1	root	2.0	2.0
2	/usr	1.5	1.5
3	/var	2.0	2.0
4	/export/home	0	0
5	/opt *	135.0	187.0

*) 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 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-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/ NGDR Command	/var/opt/FJSVdr/	1.0		
		/opt	0.01		
		/etc/opt	0.003		
2	FJVTS	/var	0.1		message log
3	Machine Administration	/opt	PW-T	0.2	
		/var	PW-T	2.0	
			PW-K	14.0	
			PW-P	203.8	
			PW-CM, PW-CMZ	237.1	
PW-CL, PW-CLZ	83.6				
4	License Manager	/var	1.0		
5	Server Default Configuration	/var	1.0		Normal operation (Solaris 7 OE or later)
6	CPU Patrol Diagnosis	/var	0.1		message log
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
		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 Configuration	0.5	Normal operation (Solaris 7 OE or later)
		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 (daemon, 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 Information Management	At version 1.3 this software name changed from "Basic Software Extension" to "Enhanced Support Facility."
		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	<ul style="list-style-type: none">● 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 number for TCP protocol. The number 9396 is preset as the default port number for UDP protocol. Confirm that other product 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. <ul style="list-style-type: none">● /var/opt/FJSVwvbs/logs/server● /var/opt/FJSVwvbs/logs/node

No.	Component	Description
3	Web-Based Admin View/ WWW Server for Admin View	<p>Web-Based Admin View is only supported on the following Java platforms.</p> <ul style="list-style-type: none"> ● Java platforms bundled with the following Solaris OE. <ol style="list-style-type: none"> 1) Solaris 2.6 OE 2) Solaris 7 OE 3) Solaris 8 OE 4) Solaris 9 OE ● 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.) <ul style="list-style-type: none"> - Latest Java(TM) Development Kit 1.1.8 - Java(TM) 2 SDK Standard Edition 1.2.2 or later, or Java(TM) Runtime Environment 1.2.2 or later ● 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. <p>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.</p> <pre>## Executing postinstall script. cat: cannot open <BE_NAME>/etc/nodename <BE_NAME>: Blank when installing normally. The root directory (e.g. /alt.copy1) of the inactive boot environment if installing by LiveUpgrade.</pre> <p>Note: however, that the installation of Enhanced Support Facility is correct and operational even if the above messages are displayed.</p>
4	Machine Administration Remote Support	<p>Users other than the root user must have their groups and user accounts registered to use the Machine Administration Menu.</p> <ul style="list-style-type: none"> ● Register the group as "cemainte." <p>The group is necessary on both the management server and the monitored node.</p> ● Register the user accounts into the group "cemainte." <p>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 OE(OS) from the System Management Console.</p> <p>The same version of Machine Administration is required on both the management server and the monitored node.</p>
5	Auto Power Control System	<p>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.</p>

No.	Component	Description
6	Server Default Configuration	<p>Although Solaris OE Documentation mentions "Editing the /etc/init.d/syssetup file to activate the saving of crash dump files" in section "Enabling and Disabling Crash Dumps." You do not need to edit the /etc/init.d/syssetup script.</p> <p>The dump configuration for saving crash dump is enabled automatically at Enhanced Support Facility installation. (Solaris 2.6 OE only)</p> <p>Reference manuals:</p> <ul style="list-style-type: none"> Solaris 2.6 System Administrator Collection Vol.1 "Solaris OE Administration Guide" Solaris OE Documentation reminds you (in "Stopping and Disabling System Accounting") that when you disable Solaris OE system accounting, you must also remove "/var/adm/pacct". <p>Reference manuals:</p> <ul style="list-style-type: none"> 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" <p>When a user logs on as a normal user using the CDE(dtlogin) login screen, "Solaris OE User Registration" will not be displayed. (PRIMEPOWER and GP7000F only)</p> <p>Do not disable the LOG_NOTICE (enabled by default) as the FJSVwarn package requires the LOG_NOTICE of syslog</p> <p>Prohibit the execution of system suspending by normal users. (PRIMEPOWER and GP7000F only)</p>
7	Reliability Driver	<p>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.</p> <p>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.</p> <ul style="list-style-type: none"> - /dev/term/a, b, ... - /dev/cua/a, b, ... - /dev/term/fa000, fa001, ... - /dev/cua/fa000, fa001, ... - /dev/se_hdlc - /dev/se_hdlc0, se_hdlc1, ... <p>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, ...</p> <p>On PRIMEPOWER900/1500/2500, up to five serial ports excluding the two used for the console path may be used for user.</p>
8	CPU Performance Counter	<p>CPU performance counter is (or will be) provided as a Solaris 8 OE standard feature on Solaris 8 10/01 OE or later versions.</p> <p>For Solaris 8 7/01 OE or earlier versions extra installation/uninstallation procedures is required in addition to those described in Chapter 5 "Installation Procedures".</p> <p>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".</p>

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."

5.1.1 Preparing for installation

5.1.1.1 Checking the system environment

1. 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 -l <Return>
```

7. Activate the network.

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

8. Start the RPC service.

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

9. Activate the network interface.

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

10. Start the nfs client.

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

11. Mount the CD-ROM.

host: host name of System Management Console

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

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

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

13. Check the package that will be updated.

This procedure is required when upgrading Enhanced Support Facility from an earlier revision. If Enhanced Support Facility has not been installed on the system, proceed to section "5.1.1.3 Notes." The `esfadd -c` command will check the system for existing revisions of Enhanced Support Facility. If an earlier revision of Enhanced Support Facility is found, a summary of the packages that will be upgraded will be displayed (See the example below). The `esfadd -c` command only checks for existing revisions of Enhanced Support Facility and does not install any packages. "5.1.2 Installing Enhanced Support Facility" describes the commands used to install Enhanced Support Facility.

```
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  2.4.1,REV=2004.05.2600
FJSVvts          4.0,REV=2000.11.2100  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).
```

Check each package for an environment setting file. If the environment setting file exists, see "5.1.1.2 Saving the environment setting file" to save it. If the environment setting file does not exist, proceed to section "5.1.1.3 Notes."

The following table lists the packages that have environment setting files.

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

Note

When the `esfadd -c` command finds that no revision of Enhanced Support Facility is currently installed, the following is displayed. This message does not indicate an error.

```
esfadd: INFO: This software is not installed on the system.

Enhanced Support Facility 2.4.1 is not installed.
```

5.1.1.2 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 -O  
save_file <Return>
```

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

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

5.1.1.3 Notes

- This software uses cron via the root and adm users. Before installing 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, install 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.)

- When using the remote support function of this software, take care with the following.

The software investigation information collection function uses 3 semaphores in order to control its program resources. It is recommended that the value of system parameter "Semmni" is increased to at least 10 before the system is rebooted.

Semmni : Max number of semaphore identifiers, (referred to using the "sysdef(1M)" command).

To set up the value of the system parameter, insert a record (as shown below) in the /etc/system file.

To set Semmni to 20:

```
set semsys:seminfo_semmni = 20
```

5.1.1.4 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 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>
```

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

Example1: Installation of Enhanced Support Facility

```
Enhanced Support Facility 2.4.1 will be installed.
```

```
Platform: FJSV,GPUSK  
OS Release: Solaris 8
```

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

Example2: Update of Enhanced Support Facility

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.4.1.
```

```
Platform: FJSV,GPUSK  
OS Release: Solaris 8
```

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

Note1

When the following message is displayed during the installation, type "n" to exit the installation process. Follow the instructions described in "A.3 Troubleshooting."

```
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,?]
```

Note2

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

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

Note3

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7 OE or Solaris 8 OE, 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 SUNWsyncfd package.

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

Note4

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

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

Note5

The following message may be displayed when installing FJSVdef or FJSVcmd package, but the installation will complete normally.

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

- If there is a correction patch for the system, the patch will be applied automatically.
See the README under Patch directory of product CD-ROM for the information of correction patch.

Application of any patches begins automatically after installation of the packages.

```
Enhanced Support Facility 2.4.1 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

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

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

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

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

Example

```
esfver: INFO: Individual Packages Version of already installed Enhanced Support
Facility.
PKGNAME      VERSION      REVISION
-----
FJSVbse      2.4.1        2004.05.2600
FJSVscuja    1.9.1        2003.11.1100
:
:
FJSVcpupd    1.0          2002.10.0900
-----
```

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.

- Unmount the CD-ROM drive.

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

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

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

5.1.3 Environment restoration after installation

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 for the PRIMEPOWER900/1500/2500>

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

5.1.4 Reactivation of system

1. Reboot the system.

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

5.1.5 Environment setting after installation

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

No.	Component	Description
1	SCF Driver	<ul style="list-style-type: none"> ● 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	<p>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.</p> <pre>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.</pre> <p>To change the System Management Console setting and start communication:</p> <ol style="list-style-type: none"> 1. Execute the /usr/sbin/FJSVmadm/scslset command, and change the System Management Console settings. <pre># /usr/sbin/FJSVmadm/scslset <host name of the System Management Console> <Return></pre> 2. Start system communication with the System Management Console. <pre># /usr/sbin/FJSVmadm/cmdevsnd -i <Return></pre>

3	Web-Based Admin View/ WWW Server for Admin View	<ul style="list-style-type: none"> ● 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". ● 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 OE 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. <ul style="list-style-type: none"> # <code>/opt/FJSVwvbs/etc/bin/wvrcscript uninstall</code> <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. <ul style="list-style-type: none"> - Machine Administration <ul style="list-style-type: none"> - 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. <ul style="list-style-type: none"> # <code>/opt/FJSVwvbs/etc/bin/wvrcscript install</code> <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 OE, 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".
---	---	---

5.1.6 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 OE Documentation:

- Solaris 8 OE System Administrator Collection
"Using CDs From the Command Line (Tasks)" in "System Administration Guide"
- Solaris 9 OE 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,anon=0
```

If you add the line "share cdrom*," you cannot invoke the `esfadd` command.

5.2.1 Preparing for installation

5.2.1.1 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 -l <Return>
```

6. Start Volume Management, and insert the Enhanced Support Facility CD-ROM into the CD-ROM drive.

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

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

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

Note: If you cannot access the CD-ROM, see "Appendix D" for manual mounting of the CD-ROM.

8. Check the package that will be updated.

This procedure is required when upgrading Enhanced Support Facility from an earlier revision. If Enhanced Support Facility has not been installed on the system, proceed to section "5.2.1.3 Notes."

The `esfadd -c` command will check the system for existing revisions of Enhanced Support Facility. If an earlier revision of Enhanced Support Facility is found, a summary of the packages that will be upgraded will be displayed (See the example below). The `esfadd -c` command only checks for existing revisions of Enhanced Support Facility and does not install any packages. "5.2.2 Installing Enhanced Support Facility" describes the commands used to install Enhanced Support Facility.


```
# 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	1.7,REV=2000.12.1100	2.4.1,REV=2004.05.2600
FJSVvts	4.0,REV=2000.11.2100	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).

Check each package for an environment setting file. If the environment setting file exists, see "5.2.1.2 Saving the environment setting file" to save it. If the environment setting file does not exist, proceed to section "5.2.1.3 Notes".

The following table lists the packages that have environment setting files.

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

Note

When the `esfadd -c` command finds that no revision of Enhanced Support Facility is currently installed, the following is displayed. This message does not indicate an error.

```
esfadd: INFO: This software is not installed on the system.
```

```
Enhanced Support Facility 2.4.1 is not installed.
```

5.2.1.2 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>
```

5.2.1.3 Notes

- This software uses cron via the root and adm users. Before installing 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, install 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.)

- When using the remote support function of this software, take care with the following.

The software investigation information collection function uses 3 semaphores in order to control its program resources. It is recommended that the value of system parameter "Semmni" is increased to at least 10 before the system is rebooted.

Semmni : Max number of semaphore identifiers (referred to using the "sysdef(1M)" command).

To set up the value of the system parameter insert a record (as shown below) in the /etc/system file.

To set Semmni to 20.

```
set semsys:seminfo_semmni = 20
```

5.2.1.4 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 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>
```

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

Example1: Installation of Enhanced Support Facility

```
Enhanced Support Facility 2.4.1 will be installed.
```

```
Platform: FJSV,GPUS
OS Release: Solaris 8
Do you want to continue with this installation? [yes or no ?]: yes <Return>
```

Example2: Update of Enhanced Support Facility

```
Enhanced Support Facility will be updated to Enhanced Support Facility 2.4.1.
```

```
Platform: FJSV,GPUS
OS Release: Solaris 8
Do you want to continue with this update? [yes or no ?]: yes <Return>
```

Example3: Installation of Enhanced Support Facility on a system on which the common package has been already installed .

```
Enhanced Support Facility 2.4.1 will be installed after the following packages
are removed.
  Packages: ...
  Platform: FJSV,GPUS
  OS Release: Solaris 8

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

Note1

When the following message is displayed during the installation, type "n" to exit the installation process. Follow the instructions described in "A.3 Troubleshooting."

```
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,?]
```

Note2

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

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

Note3

The following message may be displayed when installing SUNWvts or SUNWvtsx packages on Solaris 7 OE or Solaris 8 OE, 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 SUNWsyncfd package.
  :
  :

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

Note4

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

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

Note5

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

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

3. If there are any corrective patches for the system, those patches will be applied automatically.

See the README under Patch directory of product CD-ROM for information on patches.

Application of any patches begins automatically after installation of the packages.

```
Enhanced Support Facility 2.4.1 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

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

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

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

```
# bin/esfver -l <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.

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

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

5.2.3 Environment restoration after installation

When a previous version of the environment setting file has been saved using the instructions provided in "5.2.1.2 Saving the environment setting file" it can be restored as follows:

Restore the SCF Driver environment setting files.

```
# cd / <Return>  
# /usr/bin/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/FJSVwbs/etc/bin/wvEnvload save_file <Return>
```

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

```
# /usr/sbin/FJSVadm/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>
```

5.2.4 Reactivation of system

1. Reboot the system.

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

5.2.5 Environment setting after installation

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

No.	Component	Description
1	SCF Driver	<ul style="list-style-type: none">● 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 View/WWW Server for Admin View	<ul style="list-style-type: none"> ● 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". ● 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 OE 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 have preset as the default network ports. If, for security, you need to stop using these network port, reboot the system after executing the following command. <ul style="list-style-type: none"> # /opt/FJSVwvbs/etc/bin/wvrcscript uninstall <p>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.</p> <ul style="list-style-type: none"> - Machine Administration - SynfinityDisk - SynfinityCluster - SynfinityFile/Global, SynfinityFile/Global POWER Edition - Multipath Disk Control - PRIMECLUSTER <p>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.</p> <ul style="list-style-type: none"> # /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 OE, 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".
---	--	---

5.2.6 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, 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. 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 -l <Return>
```

7. Activate the network.

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

8. Start the RPC service.

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

9. Activate the network interface.

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

10. Start the nfs client.

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

11. Mount the CD-ROM.

host:host name of System Management Console

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

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

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

13. 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 2.4.1 will be removed.
FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
              :
              :
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 '*' does 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 2.4.1 will be removed.
FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
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) 2.0.3,REV=2002.04.1800
              :
              :

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 '*' does 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 SUNWvts package, but the removal will complete normally.

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

Note3

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

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

14. Unmount the CD-ROM.

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

15. Reboot the system.

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

16. 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 OE Documentation:

- Solaris 8 OE System Administrator Collection
"Using CDs From the Command Line (Tasks)" in "System Administration Guide"
- Solaris 9 OE 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,anon=0
```

If you add the line "share cdrom*," you cannot invoke the `esfadd` command.

- This software uses cron via the root and adm users. Before removing this software, 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 -l <Return>
```

6. Start Volume Management, and insert the Enhanced Support Facility CD-ROM into the CD-ROM drive.

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

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

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

Note: If you are unable to access the CD-ROM, see "Appendix D" for manual mounting of the CD-ROM.

8. Remove Enhanced Support Facility with the esfrm command.

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

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

```
Enhanced Support Facility 2.4.1 will be removed.

FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
              :
              :
FJSVcpupd    CPU patrol diagnosis
              (sparc) 1.3,REV=2002.10.0900

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 '*' does 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 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 2.4.1 will be removed.
FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
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 '*' does not adhere,
or input 'no' when you want to interrupt the uninstallation.
Please select. [all, no or part]:Select [all, no, part]:no
```

Note2

The following message may be displayed when removing the SUNWvts package, 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 ]
```

Note3

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

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

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

SYNOPSIS

`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 OE	< <i>mount_point</i> >/Platform/C_L_Z/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/C_L_Z/9
PW-CMZ	Solaris 8 OE	< <i>mount_point</i> >/Platform/C_M_Z/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/C_M_Z/9
PW-CL	Solaris 8 OE	< <i>mount_point</i> >/Platform/C_L/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/C_L/9
PW-CM	Solaris 8 OE	< <i>mount_point</i> >/Platform/C_M/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/C_M/9
PW-K	Solaris 2.6 OE	< <i>mount_point</i> >/Platform/K/2.6
	Solaris 7 OE	< <i>mount_point</i> >/Platform/K/7
	Solaris 8 OE	< <i>mount_point</i> >/Platform/K/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/K/9
PW-P	Solaris 8 OE	< <i>mount_point</i> >/Platform/P/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/P/9
PW-T	Solaris 2.6 OE	< <i>mount_point</i> >/Platform/T/2.6
	Solaris 7 OE	< <i>mount_point</i> >/Platform/T/7
	Solaris 8 OE	< <i>mount_point</i> >/Platform/T/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/T/9
PW-U	Solaris 8 OE	< <i>mount_point</i> >/Platform/U/8
	Solaris 9 OE	< <i>mount_point</i> >/Platform/U/9

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 OE or later.

A.2 esfrm (1M)

NAME

`esfrm` - Remove Enhanced Support Facility from the system

SYNOPSIS

```
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 does 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 does 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.s
- 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

`esfver` – Display the version of the installed Enhanced Support Facility

SYNOPSIS

```
esfver [-l] [ -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:

-l

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)`

Appendix B Troubleshooting

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 "5.1.1.2 Saving the environment setting file" or "5.2.1.2 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 Installing Enhanced Support Facility" or "5.2.2 Installing Enhanced Support Facility."
6. Restore the previously saved environment setting file, using the procedures in "5.1.3 Environment restoration after installation" or "5.2.3 Environment restoration after installation."

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.

```
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.

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

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 problem package, save the environment setting file. (Refer to "5.1.1.2 Saving the environment setting file" or "5.2.1.2 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 Installing Enhanced Support Facility" or "5.2.2 Installing Enhanced Support Facility."
7. Restore the saved environment setting file, using the procedures in "5.1.3 Environment restoration after installation" or "5.2.3 Environment restoration after installation."

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 the environment setting file exists for the problem package, save the environment setting file. (Refer to "5.1.1.2 Saving the environment setting file" or "5.2.1.2 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 Installing Enhanced Support Facility" or "5.2.2 Installing Enhanced Support Facility."
5. Restore the saved environment setting file, using the procedures in "5.1.3 Environment restoration after installation" or "5.2.3 Environment restoration after installation."

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 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>
```

2. Go on to step 13 provided in "6.1 For 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.5 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 <pkginst> 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 the environment setting file exists for the problem package, save the environment setting file. (Refer to "5.1.1.2 Saving the environment setting file" or "5.2.1.2 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 Installing Enhanced Support Facility" or "5.2.2 Installing Enhanced Support Facility."
5. Restore the saved environment setting file, using the procedures in "5.1.3 Environment restoration after installation" or "5.2.3 Environment restoration after installation."

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 OE or earlier. No additional operation is required with Solaris 8 10/01 OE 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 "2. Install Enhanced Support Facility with the esfadd command" in section 5.1.2 "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 "2. Install Enhanced Support Facility with the esfadd command" in section 5.1.2 "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. If 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 "2. Install Enhanced Support Facility with the esfadd command" in section 5.2.2 "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 "2. Install Enhanced Support Facility with the esfadd command" in section 5.2.2 "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 "1.3 Remove Enhanced Support Facility with the esfrm command" in section "6.1 For 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 Models200/200R/400/400R/400A/600/600R

Basically the same as section 6.2 "For PRIMEPOWER1/200/250/400/450/600/650/850 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 OE and can't refer to the CD-ROM, use the following solution.

- 1 Stop the volume manager.

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

- 2 Create the mount directory if it 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>
```

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 or later can be upgraded using Solaris Live Upgrade with procedures described in this appendix.

However, some Enhanced Support Facility components do not support Solaris Live Upgrade. If such packages are installed into or uninstalled from the "Inactive Boot Environment", problems may occur in both the "Inactive Boot Environment" and "Active Boot Environment". Before executing Solaris Live Upgrade for the Enhanced Support Facility, make sure you understand the information provided in this appendix.

For Solaris Live Upgrade, refer to the documents supplied by Sun Microsystems

Before performing the procedure, ensure the appropriate version of Solaris Live Upgrade is installed.

E.1 Restrictions

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

- Solaris Live Upgrade is only possible if Enhanced Support Facility 2.4.1 or later is installed.
- Solaris Live Upgrade cannot be used to upgrade to Enhanced Support Facility 2.4.1 or later from Enhanced Support Facility 2.3 or earlier.
- Update installation cannot be used.
- The following upgrade patterns are supported:
 - From Solaris8 2/02 OE to Solaris9 OE.
 - From Solaris9 OE to a later version of Solaris9 OE.

Upgrades from Solaris 2.6 OE, Solaris7 OE or Solaris8 10/01 OE or earlier are not supported

- Models supported are as follows:
 - PW-K (FJSV, GPUSK): PRIMEPOWER800/1000/2000 and GP7000F Models 1000/2000
 - PW-T (FJSV, GPUS): PRIMEPOWER200/400/600 and GP700F Models 200/200R/400/400R/400A/600/600R
 - PW-U (FJSV, GPUU): PRIMEPOWER1
 - PW-CM (FJSV, GPUSC-M): PRIMEPOWER650(Model equipped with SPARC64™ GP)/850(Model equipped with SPARC64™ GP)
 - PW-CMZ (FJSV, GPUZC-M): PRIMEPOWER650(Model equipped with SPARC64™ V)/850(Model equipped with SPARC64™ V)
 - PW-CL (FJSV, GPUSC-L): PRIMEPOWER1500(Model equipped with SPARC64™ GP)
 - PW-CLZ (FJSV, GPUZC-L): PRIMEPOWER900/1500(Model equipped with SPARC64™ V)/2500
 - PW-P (FJSV, GPUSC-M): PRIMEPOWER250/450

E.2 Upgrading Procedure

Enhanced Support Facility can be upgraded by Solaris Live Upgrade using the following procedure:

- 1) Create an “Inactive Boot Environment” and mount it.
- 2) Back up Enhanced Support Facility configuration files.
- 3) Delete current Enhanced Support Facility from “Inactive Boot Environment”.
- 4) Unmount “Inactive Boot Environment”.
- 5) Update Solaris OE and any other software packages in the “Inactive Boot Environment”.
- 6) Mount “Inactive Boot Environment”.
- 7) Install this new Enhanced Support Facility to “Inactive Boot Environment”.
- 8) Restore the configuration files of Enhanced Support Facility to “Inactive Boot Environment” to activate.
- 9) Unmount and activate the “Inactive Boot Environment”.
- 10) Restore remaining configuration files of Enhanced Support Facility to “Active Boot Environment”.

A more detailed procedure is explained in following sections.

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

Some Enhanced Support Facility components (packages) do not support Solaris Live Upgrade. If Solaris Live Upgrade is executed on a system with those components installed, problems may occur in both the “Inactive Boot Environment” and “Active Boot Environment”. Before executing Solaris Live Upgrade, check the system environment.

E.2.1.1 Mounting 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 Management Console to install this product.

1. Insert the Enhanced Support Facility CD-ROM in the CD-ROM drive connected to the System Management Console.
2. Mount the CD-ROM.

Host: Host name of System Management Console.

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

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 in the CD-ROM drive. If the machine does not have a CD-ROM drive, refer to “5.2 For PRIMEPOWER1/200/250/400/450/600/650/850 and GP7000F Models 200/200R/400/400R/400A/600/600R”.

E.2.1.2 Checking the system environment

1. Move to the CD-ROM drive directory.

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

or

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

2. Check the version of the Enhanced Support Facility installed on the system.

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

Example: When Enhanced Support Facility 2.4.1 is installed:

```
VERSION=2.4.1 REVISION=2004.05.2600,
```

Confirm the displayed version. If not 2.4.1 or later, Solaris Live Upgrade cannot be executed.

3. Check the version of each Enhanced Support Facility package installed in the running system.

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

The version of each package is displayed.

```
esfver: INFO: Individual Packages Version of already installed Enhanced
Support Facility.
PKGNAME      VERSION      REVISION
-----
FJSVbse      2.4.1        2004.05.2600
FJSVscdx     1.9.1        2003.11.1100
              :
              :
FJSVcpupd    1.3          2003.10.0900
-----
```

From the displayed installed Enhanced Support Facility packages. Confirm that each package is the same or a later version as the version listed in the table in Chapter 1, “Program Components.” If older packages are installed, Solaris Live Upgrade cannot be executed.

E.2.1.3 Notes

For notes, refer to “Chapter 4 Restrictions and Notes” installation guide.

E.3 Creating a New Boot Environment and Deleting Software

Save the environment settings files for each component and then delete all components from the “Inactive Boot Environment.”

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.

ALTERNATIVE: Boot environment name

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

A mount point is reported.

```
/.alt.ALTERNATIVE
```

E.3.2 Saving the environment settings files

E.3.2.1 Package containing environment settings files

Confirm whether there is a package that contains environment settings files for the installed packages. If there is such a package, save the environment settings files.

For the installed packages, see step 3 in Section 5.3.1.2, “Confirming the System Environment.”

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

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

For the 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 FJSVlscr FJSVscr3 FJSVpscr	/etc/opt/FJSVhwr/pwrctl.property /etc/opt/FJSVhwr/scf.conf
FJSVwvbs	Provides the wvEnvsave command to save/restore the environment setting file.
FJSVmand FJSVmarm FJSVmasv FJSVrlib FJSVragt FJSVrmaos	Provides the savelogs command to save/restore the environment setting file.

FJSVcmrm	
FJSVcmnd	
FJSVpmm	
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 Dynamic reconfiguration is used. Save the reply file for Dynamic Reconfiguration and then 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 /.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.

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

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

```
# 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 environment settings file.

```
# cd /.alt.ALTERNATIVE <Return>
# bin/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

1. Move to the directory in which the CD-ROM is mounted.

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

or

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

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

/.alt.ALTERNATIVE: Boot environment mount point

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

Note 1

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

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

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

```
Enhanced Support Facility 2.4.1 will be removed.
FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
              :
              :
FJSVcpupd    CPU patrol diagnosis
              (sparc) 1.2,REV=2003.10.0900

There is a possibility to cause problem in the system when the
packages where "*" adheres to the head of the package name is deleted

Please input "all" when you want to remove all packages
input "no"
when you want to interrupt the uninstallation, or input "part" when
you want to remove only packages where "*" does not adhere.
Please select. [no,all or part]
```

The system asks for confirmation that the -R option has been specified. Type "yes".

```
- 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 ?]:
```


When the prompt appears, type “y”, then continue the delete processing. Make sure not to delete any packages with other package dependencies. If you attempt to delete such a package, the following warning message appears. Type “n”.

Note 1

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

```
Enhanced Support Facility 2.4.1 will be removed.

FJSVbse      Enhanced Support Facility Information Management
             (sparc) 2.4.1,REV=2004.05.2600
*FJSVwvcnf   WWW Server for Admin View
             (sparc) 2.0.3,REV=2002.04.1800
             :
             :
FJSVcpupd    CPU patrol diagnosis
             (sparc) 1.5,REV=2002.11.2700

There is a possibility of system problems when package names marked "*" are deleted.

Please input "all" when you want to remove all packages. input "no"
when you want to interrupt the uninstall, or input "part" when
you want to remove only packages not marked by "*".
```

Note 2

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

```
Iar/sadm/pkg/SUNWvts/install/pre"remove: "sage: kill [ [ -sig ] id ... | -1 ]
SMM message filter module "msgfltr" not found
```

Note 3

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

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

Note 4

This message is displayed when an old package exists in the target Boot Environment. If this message is displayed, Solaris Live Upgrade cannot be used. Please upgrade the system using the procedure described in “Chapter 5 Installation Procedures”.

- There is a possibility that the current operating system may be destroyed if such packages are removed from /.alt.**ALTERNATIVE** using the “pkgm” command.

```
ERROR: Failed to install. The following old ESF packages already exists
in /.alt.ALTERNATIVE
PACKAGENAME
```

E.3.4 Unmounting the new boot environment

1. Move to the directory.

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

2. Unmount the new boot environment.

```
ALTERNATIVE: Boot environment name
# /usr/sbin/lumount ALTERNATIVE <Return>
```

E.4 Upgrading the Operating System

Use Solaris Live Upgrade to update the inactive boot environment.

Note:

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

E.5 Installing Software

E.5.1 Mounting the new boot environment

1. Mount the created new boot environment.

ALTERNATIVE: Boot environment name

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

A mount point is reported.

```
/.alt.ALTERNATIVE
```

E.5.2 Installing this software in the new boot environment

1. Move to the directory in which the CD-ROM is mounted.

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

or

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

2. Install the Enhanced Support Facility in the new boot environment.

/.alt.ALTERNATIVE: Boot environment mount point

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

Note 1

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

Error: # **bin/esfadd -R /.alt.ALTERNATIVE/** <Return>

The following message appears. Confirm the displayed information. If the information is correct, type "yes."

Example: For Enhanced Support Facility 2.4.1 PRIMEPOWER200:

```
Enhanced Support Facility 2.4.1 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 asks for confirmation that the **-R** option has been specified. Type "yes".

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

Note 1

If the following message appears during installation, type **n** to stop installation processing.

```
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 2

For Solaris 9 OE, 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 ...  
| -l ]
```

Note 3

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 Data in the New Boot Environment

Restore environment settings files for packages. This processing is necessary only when environment settings files have been saved for the running system.

/.alt.ALTERNATIVE: Mount point of boot environment

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

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 environment settings file for the SCF driver.

- For the 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 the 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 environment settings file for the automatic power control system.

```
RC2000 # cd / <Return>  
RC2000 # find var/opt/FJSVapcs/ -print -depth | cpio -pud /.alt.ALTERNATIVE
```

After starting the system in the new boot environment, restore the environment settings files for Web-Based Admin View/WWW Server for Admin View, 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 the PRIMEPOWER900/1500/2500>

```
RC2000 # cp save_file /.alt.ALTERNATIVE/etc/FJSVscslhostname <Return>
```

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

Restore the environment 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 environment settings file for the automatic power control system.

```
# cd / <Return>
# find var/opt/FJSVapcs/ -print -depth | cpio -pud /.alt.ALTNATIVE
```

After starting the system in the new boot environment, restore the environment settings files for Web-Based Admin View/WWW Server for Admin View, machine administration, and remote support.

```
# /usr/sbin/FJSVadm/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 directory.

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

2. Use the `luumount` command to unmount the new boot environment.

ALTERNATIVE: Boot environment name

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

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 of 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. Execute the command below, then remove 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, machine administration, and remote support. 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 Inactive boot environment.

1. Mount the Inactive boot environment.

ORIGINAL: Boot environment name

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

A mount point is reported.

```
/.alt.ORIGINAL
```

The boot environment is mounted at the reported mount point.

When 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 Restoring the system

Restart the system 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. Reboot the system

```
# /etc/opt/FJSVwvbs/etc/bin/wvCntl restart
# /etc/init.d/fjswvcnf restart
```

E.8.3 Environment setting after installation

Refer to “5.1.5 Environment setting after installation” or “5.2.5 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/ 600/600R PREMEPOWER200/400/600	PW-T	FJSV,GPUS	
GP7000F Models 1000/2000 PREMEPOWER800/1000/2000	PW-K	FJSV,GPUSK	
PRIMEPOWER650(Model equipped with SPARC64™ GP)/PRIMEPOWER850(Model equipped with SPARC64™ GP)	PW-CM	FJSV,GPUSC-M	
PRIMEPOWER650(Model equipped with SPARC64™ V)/PRIMEPOWER850(Model equipped with SPARC64™ V)	PW-CMZ	FJSV,GPUZC-M	Supported from Enhanced Support Facility 2.3
PREMEPOWER250/450	PW-P	FJSV,GPUZC-M	Supported from Enhanced Support Facility 2.3
PREMEPOWER1500(Model equipped with SPARC64™ GP)	PW-CL	FJSV,GPUSC-L	
PRIMEPOWER900/PRIMEPOWER1500 (Model equipped with SPARC64™ V)/ PRIMEPOWER2500	PW-CLZ	FJSV,GPUZC-L	Supported from Enhanced Support Facility 2.3
PRIMEPOWER1	PW-U	FJSV,GPUS	

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 does not support Solaris Live Upgrade.
Use the normal installation procedure.
- This option cannot be specified together with other options (-c option excepted).
This option cannot be specified together with -R and -d options.
- Only supported with Solaris8 OE/ Solaris9 OE.
- 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.

<i>Component-group</i>	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 OE

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	O	O	O	O	O	O	O	O
2	DR Command	FJSVdrcmd	-	O	- Note1	-	-	O	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	O	-
		FJSVscd.us	-	-	-	-	-	-	O	-
		FJSVscr.us	-	-	-	-	-	-	O	-
		FJSVscu.us	-	-	-	-	-	-	O	-
		FJSVscuja	-	-	-	-	-	-	O	-
		FJSViompr	O	O	O	O	O	O	-	-
		FJSVscd2	-	-	-	-	-	O	-	-
		FJSVscr2	-	-	-	-	-	O	-	-
		FJSVscu2	-	-	-	-	-	O	-	-
		FJSVscuj2	-	-	-	-	-	O	-	-
		FJSVlscdx	-	-	-	-	-	-	-	O
		FJSVlscd	-	-	-	-	-	-	-	O
		FJSVlscr	-	-	-	-	-	-	-	O
		FJSVlscu	-	-	-	-	-	-	-	O
		FJSVlscuj	-	-	-	-	-	-	-	O
		FJSVscd3	-	O	O	O	O	-	-	-
		FJSVscr3	-	O	O	O	O	-	-	-
		FJSVscu3	-	O	O	O	O	-	-	-
		FJSVscuj3	-	O	O	O	O	-	-	-
		FJSVpscd	O	-	-	-	-	-	-	-
FJSVpscr	O	-	-	-	-	-	-	-		
FJSVpscud	O	-	-	-	-	-	-	-		
FJSVpscuj	O	-	-	-	-	-	-	-		
4	SunVTS,FJVTS	SUNWvts	O	O	O	O	O	O	O	O
		SUNWvtsmn	O	O	O	O	O	O	O	O
		SUNWvtsx	O	O	O	O	O	O	O	O
		FJSVvts	O	O	O	O	O	O	O	O
5	Web-Based Admin View /WWW Server for Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
		FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	O	O
		FJSVmadm	O	O	O	O	O	O	O	O
		FJSVmaom	-	-	-	-	-	-	-	-
		FJSVkmnd	-	-	-	-	-	O	-	-

No.	Component	Package name	PW -P	PW- CLZ	PW -CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVkmsv	-	-	-	-	-	-	-	-
		FJSVcmnd	-	O	O	O	O	-	-	-
		FJSVpmnd	O	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	O	O
		FJSVkmrm	-	-	-	-	-	O	-	-
		FJSVrlib	O	-	-	O	O	-	O	O
		FJSVragt	O	-	-	O	O	-	O	O
		FJSVrmaos	O	-	-	O	O	-	O	O
		FJSVrrda	O	O	O	O	O	O	O	O
		FJSVracm	O	O	O	O	O	O	O	O
		FJSVsirms	O	O	O	O	O	O	O	O
		FJSVcmrm	-	-	-	O	O	-	-	-
		FJSVcmrm2	-	O	O	-	-	-	-	-
		FJSVpirm	O	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	O	O	O	O	O	O	O	-
		FJSVapcww	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	O	O	O	O	O	O	O	O
		FJSVssf	O	O	O	O	O	O	O	O
		FJSVpnlx.us	O	O	O	O	O	O	-	-
		FJSVpnl.us	O	O	O	O	O	O	-	-
		FJSVwarn.us	O	O	O	O	O	O	O	-
10	System Data Output Tool	FJSVsnap	O	O	O	O	O	O	O	O
11	License Manager	FSUNlic	O	O	O	O	O	O	O	O
12	Crash Dump Assistant	FJSVdmp	O	O	O	O	O	O	O	O
13	Auto Dump Analyze Tool	FJSVana	O	O	O	O	O	O	O	O
14	Reliability Driver	FJSVse	-	-	-	-	-	O	-	-
		FJSVsec	-	O	O	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	- Note2	O	- Note2	O	O	O	-
16	G-LAN error notification	FJSVgidad	O	O	O	O	O	O	O	-
17	G-LAN MTU setting	FJSVgidr	O	O	O	O	O	O	O	-
18	HCP	FJSVhpc	O	-	-	-	-	-	-	-
19	System Parameter Diagnosis	FJSVparam	O	O	O	O	O	O	O	O
20	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-

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 OE

O: Supported -: Not supported

No.	Component	Package name	PW-P	PW-CLZ Note1	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U
1	Enhanced Support Facility Information Management	FJSVbse	O	O	O	O	O	O	O	O
2	NGDR Command	FJSVdr	-	O	- Note2	-	-	O	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	O	-
		FJSVscd.us	-	-	-	-	-	-	O	-
		FJSVscr.us	-	-	-	-	-	-	O	-
		FJSVscu.us	-	-	-	-	-	-	O	-
		FJSVscuja	-	-	-	-	-	-	O	-
		FJSViomp	O	O	O	O	O	O	-	-
		FJSVscd2	-	-	-	-	-	O	-	-
		FJSVscr2	-	-	-	-	-	O	-	-
		FJSVscu2	-	-	-	-	-	O	-	-
		FJSVscuj2	-	-	-	-	-	O	-	-
		FJSVlscdx	-	-	-	-	-	-	-	O
		FJSVlscd	-	-	-	-	-	-	-	O
		FJSVlscr	-	-	-	-	-	-	-	O
		FJSVlscu	-	-	-	-	-	-	-	O
		FJSVlscuj	-	-	-	-	-	-	-	O
		FJSVscd3	-	O	O	O	O	-	-	-
		FJSVscr3	-	O	O	O	O	-	-	-
		FJSVscu3	-	O	O	O	O	-	-	-
		FJSVscuj3	-	O	O	O	O	-	-	-
		FJSVpscd	O	-	-	-	-	-	-	-
FJSVpscr	O	-	-	-	-	-	-	-		
FJSVpscud	O	-	-	-	-	-	-	-		
FJSVpscuj	O	-	-	-	-	-	-	-		
4	SunVTS,FJVTS	SUNWvts	O	O	O	O	O	O	O	O
		SUNWvtsmn	O	O	O	O	O	O	O	O
		SUNWvtsx	O	O	O	O	O	O	O	O
		FJSVvts	O	O	O	O	O	O	O	O
5	Web-Based Admin View /WWW Server for Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
		FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	O	O
		FJSVmadm	O	O	O	O	O	O	O	O
		FJSVmaom	-	-	-	-	-	-	-	-
		FJSVkmnd	-	-	-	-	-	O	-	-
		FJSVkmsv	-	-	-	-	-	-	-	-
		FJSVemnd	-	O	O	O	O	-	-	-

No.	Component	Package name	PW -P	PW- CLZ Note1	PW- CL	PW- CMZ	PW- CM	PW -K	PW -T	PW -U
		FJSVpmnd	O	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	O	O
		FJSVkmrm	-	-	-	-	-	O	-	-
		FJSVrlib	O	-	-	O	O	-	O	O
		FJSVragt	O	-	-	O	O	-	O	O
		FJSVrmaos	O	-	-	O	O	-	O	O
		FJSVrrda	O	O	O	O	O	O	O	O
		FJSVracm	O	O	O	O	O	O	O	O
		FJSVsirms	O	O	O	O	O	O	O	O
		FJSVcmrm	-	-	-	O	O	-	-	-
		FJSVcmrm2	-	O	O	-	-	-	-	-
		FJSVpmrm	O	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	O	O	O	O	O	O	O	-
		FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	O	O	O	O	O	O	O	O
		FJSVssf	O	O	O	O	O	O	O	O
		FJSVpnlx.us	O	O	O	O	-	O	-	-
		FJSVpnl.us	O	O	O	O	-	O	-	-
		FJSVwarn.us	O	O	O	O	O	O	O	-
10	System Data Output Tool	FJSVsnap	O	O	O	O	O	O	O	O
11	License Manager	FSUNlic	O	O	O	O	O	O	O	O
12	Crash Dump Assistant	FJSVdmp	O	O	O	O	O	O	O	O
13	Auto Dump Analyze Tool	FJSVana	O	O	O	O	O	O	O	O
14	Reliability Driver	FJSVse	-	-	-	-	-	O	-	-
		FJSVsec	-	O	O	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	- Note3	O	- Note3	O	O	O	-
16	G-LAN error notification	FJSVgidad	O	O	O	O	O	O	O	-
17	HCP	FJSVhcp	O	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	O	O	O	O	O	O	O	O
19	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-

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 OE

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	O	O	O	O	O	O	O	O
2	DR Command	FJSVdrcmd	-	O	O Note1	-	-	O	-	-
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	O	-
		FJSVscd.us	-	-	-	-	-	-	O	-
		FJSVscr.us	-	-	-	-	-	-	O	-
		FJSVscu.us	-	-	-	-	-	-	O	-
		FJSVscuja	-	-	-	-	-	-	O	-
		FJSViompi	O	O	O	O	O	O	-	-
		FJSVscd2	-	-	-	-	-	O	-	-
		FJSVscr2	-	-	-	-	-	O	-	-
		FJSVscu2	-	-	-	-	-	O	-	-
		FJSVscuj2	-	-	-	-	-	O	-	-
		FJSVlscdx	-	-	-	-	-	-	-	O
		FJSVlscd	-	-	-	-	-	-	-	O
		FJSVlscr	-	-	-	-	-	-	-	O
		FJSVlscu	-	-	-	-	-	-	-	O
		FJSVlscuj	-	-	-	-	-	-	-	O
		FJSVscd3	-	O	O	O	O	-	-	-
		FJSVscr3	-	O	O	O	O	-	-	-
		FJSVscu3	-	O	O	O	O	-	-	-
		FJSVscuj3	-	O	O	O	O	-	-	-
		FJSVpscd	O	-	-	-	-	-	-	-
FJSVpscr	O	-	-	-	-	-	-	-		
FJSVscu	O	-	-	-	-	-	-	-		
FJSVscuj	O	-	-	-	-	-	-	-		
4	SunVTS,FJVTS	SUNWvts	-	-	-	-	-	-	-	-
		SUNWvtsmn	-	-	-	-	-	-	-	-
		SUNWvtsx	-	-	-	-	-	-	-	-
		FJSVvts	-	-	-	-	-	-	-	-
5	Web-Based Admin View /WWW Server for Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-
		FJSVwvbs	-	-	-	-	-	-	-	-
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-
		FJSVmand	-	-	-	-	-	-	O	O
		FJSVmadm	O	O	O	O	O	O	O	O

No.	Component	Package name	PW-P	PW-CLZ	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U
		FJSVmaom	-	-	-	-	-	-	-	-
		FJSVkmnd	-	-	-	-	-	O	-	-
		FJSVkmsv	-	-	-	-	-	-	-	-
		FJSVcmnd	-	O	O	O	O	-	-	-
		FJSVpmnd	O	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	O	O
		FJSVkmrm	-	-	-	-	-	O	-	-
		FJSVrlib	O	-	-	O	O	-	O	O
		FJSVragt	O	-	-	O	O	-	O	O
		FJSVrmaos	O	-	-	O	O	-	O	O
		FJSVrrda	O	O	O	O	O	O	O	O
		FJSVracm	O	O	O	O	O	O	O	O
		FJSVsirms	O	O	O	O	O	O	O	O
		FJSVcmrm	-	-	-	O	O	-	-	-
		FJSVcmrm2	-	O	O	-	-	-	-	-
		FJSVpmrm	O	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	-	-	-	-	-	-	-	-
		FJSVapewv	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	O	O	O	O	O	O	O	O
		FJSVssf	O	O	O	O	O	O	O	O
		FJSVpnlx.us	O	O	O	O	O	O	-	-
		FJSVpnl.us	O	O	O	O	O	O	-	-
		FJSVwarn.us	O	O	O	O	O	O	O	-
10	System Data Output Tool	FJSVsnap	O	O	O	O	O	O	O	O
11	License Manager	FSUNlic	-	-	-	-	-	-	-	-
12	Crash Dump Assistant	FJSVdmp	O	O	O	O	O	O	O	O
13	Auto Dump Analyze Tool	FJSVana	O	O	O	O	O	O	O	O
14	Reliability Driver	FJSVse	-	-	-	-	-	O	-	-
		FJSVsec	-	O	O	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	-	-	-	-	-	-	-
16	G-LAN error notification	FJSVgidad	O	O	O	O	O	O	O	-
17	G-LAN MTU setting	FJSVgidr	O	O	O	O	O	O	O	-
18	HCP	FJSVhcp	O	-	-	-	-	-	-	-
19	System Parameter Diagnosis	FJSVparam	O	O	O	O	O	O	O	O
20	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-

Note2: DR command FJSVdrcmd is installed, but not supported.

Solaris 9 OE

O: Supported -: Not supported

No.	Component	Package name	PW-P	PW-CLZ Note1	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U	
1	Enhanced Support Facility Information Management	FJSVbse	O	O	O	O	O	O	O	O	
2	NGDR Command	FJSVdr	-	O	O Note2	-	-	O	-	-	
3	SCF Driver	FJSVscdx.us	-	-	-	-	-	-	O	-	
		FJSVscd.us	-	-	-	-	-	-	O	-	
		FJSVscr.us	-	-	-	-	-	-	O	-	
		FJSVscu.us	-	-	-	-	-	-	O	-	
		FJSVscuja	-	-	-	-	-	-	O	-	
		FJSViomp	O	O	O	O	O	O	O	-	-
		FJSVscd2	-	-	-	-	-	O	-	-	
		FJSVscr2	-	-	-	-	-	O	-	-	
		FJSVscu2	-	-	-	-	-	O	-	-	
		FJSVscuj2	-	-	-	-	-	O	-	-	
		FJSVlscdx	-	-	-	-	-	-	-	O	
		FJSVlscd	-	-	-	-	-	-	-	O	
		FJSVlscr	-	-	-	-	-	-	-	O	
		FJSVlscu	-	-	-	-	-	-	-	O	
		FJSVlscuj	-	-	-	-	-	-	-	O	
		FJSVscd3	-	O	O	O	O	-	-	-	
		FJSVscr3	-	O	O	O	O	-	-	-	
		FJSVscu3	-	O	O	O	O	-	-	-	
		FJSVscuj3	-	O	O	O	O	-	-	-	
		FJSVpscd	O	-	-	-	-	-	-	-	
FJSVpscr	O	-	-	-	-	-	-	-			
FJSVpscud	O	-	-	-	-	-	-	-			
FJSVpscuj	O	-	-	-	-	-	-	-			
4	SunVTS,FJVTS	SUNWvts	-	-	-	-	-	-	-	-	
		SUNWvtsmn	-	-	-	-	-	-	-	-	
		SUNWvtsx	-	-	-	-	-	-	-	-	
		FJSVvts	-	-	-	-	-	-	-	-	
5	Web-Based Admin View /WWW Server for Admin View	FJSVwvcnf	-	-	-	-	-	-	-	-	
		FJSVwvbs	-	-	-	-	-	-	-	-	
6	Machine Administration	FJSVmasv	-	-	-	-	-	-	-	-	
		FJSVmand	-	-	-	-	-	-	O	O	
		FJSVmadm	O	O	O	O	O	O	O	O	
		FJSVmaom	-	-	-	-	-	-	-	-	
		FJSVkmnd	-	-	-	-	-	O	-	-	
		FJSVkmsv	-	-	-	-	-	-	-	-	
		FJSVemnd	-	O	O	O	O	-	-	-	

No.	Component	Package name	PW-P	PW-CLZ Note1	PW-CL	PW-CMZ	PW-CM	PW-K	PW-T	PW-U
		FJSVpmnd	O	-	-	-	-	-	-	-
7	Remote Support	FJSVmarm	-	-	-	-	-	-	O	O
		FJSVkmrm	-	-	-	-	-	O	-	-
		FJSVrlib	O	-	-	O	O	-	O	O
		FJSVragt	O	-	-	O	O	-	O	O
		FJSVrmaos	O	-	-	O	O	-	O	O
		FJSVrrda	O	O	O	O	O	O	O	O
		FJSVracm	O	O	O	O	O	O	O	O
		FJSVsirms	O	O	O	O	O	O	O	O
		FJSVcmrm	-	-	-	O	O	-	-	-
		FJSVcmrm2	-	O	O	-	-	-	-	-
		FJSVpmrm	O	-	-	-	-	-	-	-
8	Auto Power Control System	FJSVapcs	-	-	-	-	-	-	-	-
		FJSVapcwv	-	-	-	-	-	-	-	-
9	Server Default Configuration	FJSVdef	O	O	O	O	O	O	O	O
		FJSVssf	O	O	O	O	O	O	O	O
		FJSVpnlx.us	O	O	O	O	O	O	-	-
		FJSVpnl.us	O	O	O	O	O	O	-	-
		FJSVwarn.us	O	O	O	O	O	O	O	-
10	System Data Output Tool	FJSVsnap	O	O	O	O	O	O	O	O
11	License Manager	FSUNlic	-	-	-	-	-	-	-	-
12	Crash Dump Assistant	FJSVdmp	O	O	O	O	O	O	O	O
13	Auto Dump Analyze Tool	FJSVana	O	O	O	O	O	O	O	O
14	Reliability Driver	FJSVse	-	-	-	-	-	O	-	-
		FJSVsec	-	O	O	-	-	-	-	-
15	CPU Patrol Diagnosis	FJSVcpupd	-	-	-	-	-	-	-	-
16	G-LAN error notification	FJSVgidad	O	O	O	O	O	O	O	-
17	HCP	FJSVhcp	O	-	-	-	-	-	-	-
18	System Parameter Diagnosis	FJSVparam	O	O	O	O	O	O	O	O
19	HRM-S	FJSVhrm	-	-	-	-	-	-	-	-

Note1: PRIMEPOWER2500 are excluded.

Note2: NGDR command FJSVdr 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 OE, 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 2.4.1 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 2.4.1 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 5.1.2 or 5.2.2, "Installing the Software."

3. To check the version of each installed package, use the `esfver` command (as in a normal installation).

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

The version of each package is displayed.

```
esfver: INFO: Individual Packages Version of already installed Enhanced
Support Facility.
COMPONENT-GROUP: BASIC
PKGNAME      VERSION    REVISION
-----
FJSVbse      2.4.1     2004.05.2600
FJSVscdx     1.9.1     2003.11.1100
              :
              :
FJSVcpupd    1.3       2002.10.0900
-----
```

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."

```
Enhanced Support Facility 2.4.1 will be removed.
COMPONENT-GROUP: BASIC
FJSVbse      Enhanced Support Facility Information Management
              (sparc) 2.4.1,REV=2004.05.2600
              :
              :
FJSVcpupd    CPU patrol diagnosis
              (sparc) 1.3,REV=2002.10.0900

There is a possibility system problem(s) when the package(s) marked with
an "*"
are deleted.

Please input "all" when you want to remove all packages. Input "part"
when you want to remove only package(s) not marked with an "*",
and input "no" if you want to interrupt the uninstal.

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

Appendix H When the corrective patches fail to be applied

See the README in the patch directory for corrective patch information.

1. The following messages will be displayed when applying of the patch was failed.
 - a. when the package does 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 "5.1.2 Installing Enhanced Support Facility" or "5.2.2 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 OE

- 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™ 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 OE Documentation:

- Solaris 9 OE 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,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 OE	<mount_point>/Platform/C_L_Z/9
PW-CMZ	Solaris 9 OE	<mount_point>/Platform/C_M_Z/9
PW-P	Solaris 9 OE	<mount_point>/Platform/P/9

-n

Indicates non-interactive mode. User intervention will not be required during the installation.

Example : Finish script for PRIMEPOWER250/450 Solaris 9 OE

```
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 OE 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 OE 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 OE 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 does 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.