

SPARC Enterprise

M4000/M5000/M8000/M9000 Servers

XSCF Reference Manual

XSCF Control Package (XCP) 104x



SPARC® Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual

XSCF Control Package (XCP) 104x

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Preface

This manual describes how to use the shell command which can be executed in the eXtended System Control Facility (hereinafter referred to as XSCF) environment in SPARC Enterprise M4000/M5000/M8000/M9000 servers. The shell command is hereinafter referred to as XSCF shell command.

XSCF is a system monitoring facility to conduct monitoring, control, operation, or maintenance of main unit and domains of SPARC Enterprise M4000/M5000/M8000/M9000 servers. It is mounted as a firmware on the service processor which is independent from the processor of the system. For each command, this manual describes how to use and the execution examples, available in XSCF environment.

This document is provided as a manual to study the point which you can't understand or would like to check on, while using XSCF shell command. Instead of reading from the start as you do so when reading a tutorial, it is recommended to use this manual as you come across a point you would like to check on.

The description of XSCF shell command written in this manual is the same as the manual page which appears as a result of man command executed in XSCF environment. For how to use the man command, please refer to `man(1)` in this manual.

In addition, for the detail content of XSCF, please refer to *SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide*.

This section includes:

- [“Audience” on page x](#)
- [“Notation of This Manual” on page x](#)
- [“SPARC Enterprise Mx000 Servers Documentation” on page xii](#)
- [“Abbreviated References to Other Documents” on page xv](#)
- [“Models” on page xvi](#)
- [“Prompt Notations” on page xvi](#)
- [“Software License” on page xvii](#)
- [“Fujitsu Welcomes Your Comments” on page xvii](#)

Audience

This manual is intended for users, who administrate SPARC Enterprise M4000/M5000/M8000/M9000 servers (hereinafter referred to as XSCF user). The XSCF user is required to have the following knowledge:

- SolarisTM Operating System and Unix command
- SPARC Enterprise M4000/M5000/M8000/M9000 servers and basic knowledge of XSCF

Notation of This Manual

Here describes the notation used in this manual.

Intro(8) provides the XSCF shell commands and the brief description of them in the alphabetical order.

Each XSCF shell command is described in the order of sections below. When there's no relevant description provided, the section itself is omitted.

Section	Description
NAME	This section gives the names of the XSCF shell commands, followed by a brief description of what they do.
SYNOPSIS	<p>This section gives the syntax of commands. The use of font style complies with the following rule.</p> <p>bold Enters the command name or the constants as displayed.</p> <p><i>Italic</i> Substitutes the variables and so forth with the appropriate values when the command executed.</p> <p>The use of symbols such as parenthesis complies with the following rule.</p> <p>[] Brackets. The OPTIONS or OPERANDS enclosed in these brackets can be omitted. Those not enclosed can't be omitted.</p> <p>{ } Braces. The OPTIONS or OPERANDS enclosed in these braces are treated as a unit.</p> <p> Separator. You should specify one of the OPTIONS or OPERANDS delimited with this symbol " ".</p> <p>... Ellipsis. You can specify multiple OPTIONS or OPERANDS just before.</p>
DESCRIPTION	This section gives the detailed description such as the command function. It describes the behavior after the command executed and the content to be displayed. It doesn't describe how to specify the OPTIONS or OPERANDS.
Privileges	This section gives the privileges required for command execution. In case that what can be executed varies by the user privileges, it is described here.
OPTIONS	<p>This section gives the meaning of and how to specify the OPTIONS. In case the OPERANDS required for the OPTIONS, it is described here.</p> <p>To specify multiple 1-character OPTIONS, you may specify the first OPTION followed by the alphabetic part of the second.</p> <p>e.g. <code>fmadm -a -i</code> <code>fmadm -ai</code></p>

Section	Description
OPERANDS	This section gives the meaning of and how to specify the OPERANDS. The OPERANDS which follows the OPTIONS are described in "OPTIONS."
EXTENDED DESCRIPTION	This section gives the description in case the supplementary explanation required in addition to the content written in "DESCRIPTION." Also used to divide the description prolonged in "DESCRIPTION."
EXAMPLES	This section gives the examples of command execution. The explanation of examples, the execution command, and the messages returned from the system as a result of execution.
EXIT STATUS	This section gives the status which shows whether or not the command executed normally terminated. "0" for normal termination, and ">0" for abnormal termination.
SEE ALSO	This section gives the related command names.

SPARC Enterprise Mx000 Servers Documentation

The manuals listed below are provided for reference.

Book Titles	Manual Codes
SPARC Enterprise M4000/M5000 Servers Site Planning Guide	C120-H015
SPARC Enterprise M8000/M9000 Servers Site Planning Guide	C120-H014
SPARC Enterprise Equipment Rack Mounting Guide	C120-H016
SPARC Enterprise M4000/M5000 Servers Getting Started Guide	C120-E345
SPARC Enterprise M8000/M9000 Servers Getting Started Guide	C120-E323
SPARC Enterprise M4000/M5000 Servers Overview Guide	C120-E346
SPARC Enterprise M8000/M9000 Servers Overview Guide	C120-E324
Important Safety Information for Hardware Systems	C120-E391
SPARC Enterprise M4000/M5000 Servers Safety and Compliance Guide	C120-E348

Book Titles	Manual Codes
SPARC Enterprise M8000/M9000 Servers Safety and Compliance Guide	C120-E326
SPARC Enterprise M4000 Server Unpacking Guide	C120-E349
SPARC Enterprise M5000 Server Unpacking Guide	C120-E350
SPARC Enterprise M8000/M9000 Servers Unpacking Guide	C120-E327
SPARC Enterprise M4000/M5000 Servers Installation Guide	C120-E351
SPARC Enterprise M8000/M9000 Servers Installation Guide	C120-E328
SPARC Enterprise M4000/M5000 Servers Service Manual	C120-E352
SPARC Enterprise M8000/M9000 Servers Service Manual	C120-E330
External I/O Expansion Unit Installation and Service Manual	C120-E329
SPARC Enterprise M4000/M5000/M8000/M9000 Servers RCI Build Procedure	C120-E361
SPARC Enterprise M4000/M5000/M8000/M9000 Servers Administration Guide	C120-E331
SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide	C120-E332
SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual	C120-E333
SPARC Enterprise M4000/M5000/M8000/M9000 Servers Dynamic Reconfiguration (DR) User's Guide	C120-E335
SPARC Enterprise M4000/M5000/M8000/M9000 Servers Capacity on Demand (COD) User's Guide	C120-E336
SPARC Enterprise M4000/M5000/M8000/M9000 Servers RCI User's Guide	C120-E360
SPARC Enterprise M4000/M5000 Servers Product Notes	C120-E347
SPARC Enterprise M8000/M9000 Servers Product Notes	C120-E325

1. Manuals on the Web

The latest versions of all the SPARC Enterprise series manuals are available at the following websites. The latest manuals can be downloaded in a batch.

Global Site:

<http://www.fujitsu.com/sparcenterprise/manual/>

Japanese Site:

<http://primeserver.fujitsu.com/sparcenterprise/manual/>

Note – Product Notes is available on the website only. Please check for the recent update on your product.

2. Documentation CD

For the Documentation CD, please contact your local sales representative.

- SPARC Enterprise M4000/M5000 Servers Documentation CD (C120-E365)
- SPARC Enterprise M8000/M9000 Servers Documentation CD (C120-E364)

3. Manual included on the Enhanced Support Facility x.x CD-ROM disk

- Remote maintenance Service

Book Title	Manual Code
Enhanced Support Facility User's Guide for REMCS	C112-B067

4. Provided in system

Man page of the XSCF

Note – The man page can be referenced on the XSCF Shell, and it provides the same content as the *SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF Reference Manual*.

5. Documentations and Supporting on the Web

The latest information about other documents and the supporting of the SPARC Enterprise series are provided on the website.

a. Message:

<http://www.fujitsu.com/sparcenterprise/msg/>

b. Downloading the firmware program:

Contact the field engineer.

The following files or document are provided:

- i. Firmware program file (XSCF Control Package (XCP) file)
- ii. XSCF extension MIB definition file

Note – XSCF Control Package (XCP) : XCP is a package which has the control programs of hardware that configures a computing system. The XSCF firmware and the OpenBoot PROM firmware are included in the XCP file.

- c. Fault Management MIB (SUN-FM-MIB) definition file
http://src.opensolaris.org/source/xref/innv/onnv-gate/usr/src/lib/fm/libfmd_snmp/mibs/
- d. Solaris Operating System Related Manuals
<http://docs.sun.com/>
- 6. Provided in firmware program CD (For maintenance service <for FEs>)
 - a. Firmware program file (XSCF Control Package (XCP) file)
 - b. XSCF extension MIB definition file
- 7. Information on Using the RCI function
The manual does not contain an explanation of the RCI build procedure. For information on using the RCI function, refer to the *SPARC Enterprise M4000/M5000/M8000/M9000 Servers RCI Build Procedure* and *SPARC Enterprise M4000/M5000/M8000/M9000 Servers RCI User's Guide* available on the website.

Abbreviated References to Other Documents

In this manual, the following abbreviated titles may be used when referring to a systems manual. The following table lists the abbreviations used in this manual.

Abbreviated Title	Full Title
Overview Guide	SPARC Enterprise M4000/M5000 Servers Overview Guide SPARC Enterprise M8000/M9000 Servers Overview Guide
Service Manual	SPARC Enterprise M4000/M5000 Servers Service Manual SPARC Enterprise M8000/M9000 Servers Service Manual
Installation Guide	SPARC Enterprise M4000/M5000 Servers Installation Guide SPARC Enterprise M8000/M9000 Servers Installation Guide

Abbreviated Title	Full Title
Administration Guide	SPARC Enterprise M4000/M5000/M8000/M9000 Servers Administration Guide
XSCF User's Guide	SPARC Enterprise M4000/M5000/M8000/M9000 Servers XSCF User's Guide
Dynamic Reconfiguration User's Guide	SPARC Enterprise M4000/M5000/M8000/M9000 Servers Dynamic Reconfiguration (DR) User's Guide

Models

The model names used in this manual are as follows.

Server class	Model name
Midrange	SPARC Enterprise M4000 SPARC Enterprise M5000
High-end	SPARC Enterprise M8000 SPARC Enterprise M9000

Prompt Notations

The following prompt notations are used in the manual.

Shell	Prompt Notations
XSCF	XSCF>
C shell	<i>machine-name%</i>
C shell super user	<i>machine-name#</i>

Shell	Prompt Notations
Bourne shell and Korn shell	\$
Bourne shell and Korn shell super user	#
OpenBoot PROM	ok

Software License

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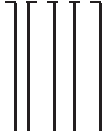
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NAME	Intro - eXtended System Control Facility (XSCF) man pages	
DESCRIPTION	This manual contains XSCF man pages.	
LIST OF COMMANDS	The following commands are supported:	
	Intro, intro	eXtended System Control Facility (XSCF) man pages
	addboard	configure an eXtended System Board(XSB) into the domain configuration or assign it to the domain configuration
	addcodlicense	add a Capacity on Demand (COD) right-to-use (RTU) license key to the COD license database
	addfru	add a Field Replaceable Unit (FRU)
	adduser	create an XSCF user account
	applynetwork	reset XSCF to reflect information that has been set for the XSCF network
	cfgdevice	connect a DVD/TAPE drive to the port, disconnect it from the port, or display the status of the drive
	clockboard	set or display the clock control unit used at system startup
	console	connect to a domain console
	deleteboard	disconnect an eXtended System Board (XSB) from the domain configuration
	deletecodlicense	remove a Capacity on Demand (COD) right-to-use (RTU) license key from the COD license database
	deletefru	delete a Field Replaceable Unit (FRU)
	deleteuser	delete an XSCF user account
	disableuser	disable an XSCF user account
	enableuser	enable an XSCF user account
	exit	exit the XSCF shell
	flashupdate	update the firmware
	fmadm	fault management configuration tool
	fmdump	view fault management logs
	fmstat	report fault management module statistics
	ioxadm	manage External I/O Expansion Units
	man	display manual pages of specified XSCF shell command

<code>moveboard</code>	move an eXtended System Board (XSB) from the current domain to another
<code>nslookup</code>	refer to the DNS server for the host
<code>password</code>	manage user passwords and expiration settings
<code>poweroff</code>	turn off the power to the specified domain
<code>poweron</code>	turn on the power to the specified domain
<code>prtfru</code>	display FRUID data on the system and External I/O Expansion Unit
<code>rebootxscf</code>	reset the XSCF
<code>replacefru</code>	replace a field replaceable unit (FRU)
<code>reset</code>	reset the specified domain
<code>resetdateoffset</code>	reset the time subtraction between XSCF and the domain
<code>sendbreak</code>	send a break signal to the specified domain
<code>setaltitude</code>	set the altitude of the system
<code>setarchiving</code>	configure the log archiving functionality
<code>setaudit</code>	manage the system auditing functionality
<code>setautologout</code>	set the session timeout time of the XSCF shell
<code>setcod</code>	set up the Capacity on Demand (COD) resources used for domains
<code>setdate</code>	set the date and time of XSCF
<code>setdcl</code>	set a domain component list (DCL)
<code>setdomainmode</code>	set a domain mode
<code>setdomparam</code>	forcibly rewrite OpenBoot PROM environment variables
<code>setdscp</code>	set the IP address assignments for the Domain to Service Processor Communications Protocol (DSCP)
<code>setdualpowerfeed</code>	set dual power feed mode
<code>setemailreport</code>	set up the email report configuration data
<code>sethostname</code>	set a host name and domain name for an XSCF unit
<code>sethttps</code>	start or stop the HTTPS service, which is used in the XSCF network. This command also performs authentication-related settings.
<code>setldap</code>	configure the Service Processor as a Lightweight Directory Access Protocol (LDAP) client

setlocale	set the default locale of the XSCF
setlocator	control the blinking of the CHECK LED on the operator panel
setlookup	enable or disable the use of the Lightweight Directory Access Protocol (LDAP) server for authentication and privilege lookup
setnameserver	set the domain name system (DNS) servers used in the XSCF network
setnetwork	configure a network interface using by XSCF
setntp	set the NTP servers used in the XSCF network
setpasswordpolicy	manage the system password policy
setpowerupdelay	set the warm-up time of the system and wait time before system startup
setprivileges	assign user privileges
setroute	set routing information for an XSCF network interface
setshutdowndelay	set the shutdown wait time at power interruption of the uninterruptible power supply (UPS)
setsmtp	set up the SMTP settings
setsnmp	manage the SNMP agent
setsnmpusm	specify the SNMPv3 agent's User-based Security Model (USM) configuration
setsnmpvacm	modify the SNMPv3 agent's View-based Access Control Model (VACM) configuration
setssh	set the SSH service used in the XSCF network. Also, generate the host public key, and register or delete the user public key, which are necessary for the SSH service
settelnet	start or stop the telnet service used in the XSCF network
settimezone	set the time zone and Daylight Saving Time of XSCF
setupfru	set up device hardware
showaltitude	display the altitude state of the system
showarchiving	display log archiving configuration and status
showaudit	display the current auditing system state
showautologout	display the session timeout time of the XSCF shell
showboards	display information on an eXtended System Board (XSB)

showcod	display Capacity on Demand (COD) configuration information
showcodlicense	display the current Capacity on Demand (COD) right-to-use (RTU) licenses stored in the COD license database
showcodusage	display the current usage statistics for Capacity on Demand (COD) resources
showconsolepath	display information on the domain console that is currently connected
showdate	show the date and time of XSCF
showdcl	display the current domain component list (DCL)
showdevices	display current information on an eXtended System Board (XSB)
showdomainmode	display the domain mode
showdomainstatus	display the current domain component list (DCL)
showdscp	display the IP addresses assigned to the Domain to Service Processor Communications Protocol (DSCP)
showdualpowerfeed	display the current setting of dual power feed mode
showemailreport	display the email report configuration data
showenvironment	display the intake air temperature and humidity, temperature sensor information, voltage sensor information, and fan rotation information about the system
showfru	display the hardware settings of specified device
showhardconf	display information about field replaceable unit (FRU) installed in the system
showhostname	display the current host name for the XSCF unit
showhttps	display the status of the HTTPS service set for the XSCF network
showldap	display the Lightweight Directory Access Protocol (LDAP) configuration for the Service Processor
showlocale	display the current setting for the XSCF locale
showlocator	display the state of the CHECK LED on the operator panel
showlogs	display the specified log
showlookup	display the configuration for authentication and privileges lookup

<code>showmonitorlog</code>	display the contents of monitoring messages in real time
<code>shownameserver</code>	display the registered domain name system (DNS) servers specified on the XSCF network
<code>shownetwork</code>	display information of network interfaces for XSCF
<code>shownotice</code>	display copyright and license information for the eXtended System Control Facility (XSCF) Control Package (XCP)
<code>showntp</code>	display the NTP servers currently set for the XSCF network
<code>showpasswordpolicy</code>	display the current password settings
<code>showpowerupdelay</code>	display the current settings for the warm-up time of the system and wait time before system startup
<code>showresult</code>	display the exit status of the most recently executed command
<code>showroute</code>	display routing information for an XSCF network interface
<code>showshutdowndelay</code>	show the shutdown wait time at power interruption of the uninterruptible power supply (UPS)
<code>showsmtp</code>	display the SMTP configuration information
<code>showsnmp</code>	display the configuration information and current status of the SNMP agent
<code>showsnmpusm</code>	display the current User-based Security Model (USM) information for the SNMP agent
<code>showsnmpvacm</code>	display the current View-based Access Control Access (VACM) information for the SNMP agent
<code>showssh</code>	display the status, host public keys, fingerprint, or user public keys of the SSH service configured for the XSCF network
<code>showstatus</code>	display the degraded Field Replaceable Units (FRUs)
<code>showtelnet</code>	display the current status of the telnet service for the XSCF network
<code>showtimezone</code>	display the XSCF time zone and Daylight Saving Time information of current settings
<code>showuser</code>	display user account information
<code>snapshot</code>	collect and transfer environment, log, error, and FRUID data
<code>switchscf</code>	switch the XSCF unit between the active and standby states

<code>testsb</code>	perform an initial diagnosis of the specified physical system board (PSB)
<code>unlockmaintenance</code>	forcibly release the locked status of XSCF
<code>version</code>	display firmware version
<code>viewaudit</code>	display audit records
<code>who</code>	display a list of the user accounts who are logged in to the XSCF

NAME	addboard - configure an eXtended System Board(XSB) into the domain configuration or assign it to the domain configuration								
SYNOPSIS	<p>addboard [[-q] [-y n]] [-f] [-v] [-c configure] -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>addboard [[-q] [-y n]] [-f] [-v] -c assign -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>addboard [[-q] [-y n]] [-f] [-v] -c reserve -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>]</p> <p>addboard -h</p>								
DESCRIPTION	<p>The addboard(8) command, based on domain component list (DCL), configures a XSB into the domain configuration or assigns it to the domain configuration.</p> <p>One of the following configuration methods can be specified:</p> <table> <tr> <td>configure</td><td>Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the operating system.</td></tr> <tr> <td>assign</td><td>Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".</td></tr> <tr> <td>reserve</td><td>Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."</td></tr> </table>	configure	Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the operating system.	assign	Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".	reserve	Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."		
configure	Configures an XSB into the specified domain configuration. The incorporated XSB can be accessed from the operating system.								
assign	Assigns an XSB to the specified domain. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned XSB is configured in the domain by reboot or execution of the addboard(8) command with "-c configure".								
reserve	Reserves incorporation of an XSB into the domain configuration. The action of "reserve" is the same as "assign."								
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td>platadm</td><td>Can run this command for all domains.</td></tr> <tr> <td>domainadm</td><td>Can run this command only for your managed domains.</td></tr> </table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.				
platadm	Can run this command for all domains.								
domainadm	Can run this command only for your managed domains.								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-c assign</td><td>Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> <tr> <td>-c configure</td><td>Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> <tr> <td>-c reserve</td><td>Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.</td></tr> <tr> <td>-d <i>domain_id</i></td><td>Specifies the ID of the domain in which an XSB is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0-23 depending on the system configuration.</td></tr> </table>	-c assign	Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.	-c configure	Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.	-c reserve	Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.	-d <i>domain_id</i>	Specifies the ID of the domain in which an XSB is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0-23 depending on the system configuration.
-c assign	Assigns an XSB to the domain configuration. If the -c option is omitted, "-c configure" is used.								
-c configure	Configures an XSB in the domain configuration. If the -c option is omitted, "-c configure" is used.								
-c reserve	Reserves incorporation of an XSB into the domain configuration. If the -c option is omitted, "-c configure" is used.								
-d <i>domain_id</i>	Specifies the ID of the domain in which an XSB is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0-23 depending on the system configuration.								

- f Forcibly incorporates into a domain an XSB.
Note – If the -f option is used to forcibly add a system board to a domain, all the added hardware resources may not work normally. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the status of every added system board and device.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- v Displays a detailed message. If this option is specified with the -q option, the -v option is ignored.
- Y Automatically answers 'Y' (yes) to all prompts.

OPERANDS

The following operand is supported:

- xs**b*** Specifies the XSB number to be configured or assigned. Multiple *xs**b*** operands are permitted, separated by spaces. The following *xs**b*** form is accepted:

x-y
where:

x An integer from 00–15.

y An integer from 0–3.

EXTENDED
DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "Y" to execute the command or "n" to cancel the command.
- If "-c configure" is specified when either the domain power has been turned off or the operating system is not running, an error occurs.
- When "-c configure" is specified, hardware diagnosis is performed on the system board before it is incorporated into the domain. Therefore, command execution may take time.
- To use the addboard(8) command to configure or assign a system board, DCL must be set up in advance using the setdcl(8) command.
- If the addboard(8) command is executed under the progress of power-on or power-off processing, the busy status is returned. After that processing in the domain is completed, reexecute the command.

- See the `setdcl(8)` and `showdcl(8)` commands for DCL.

EXAMPLES

EXAMPLE 1 Configures XSB#00-0, #01-0, #02-0, and #03-0 into domain ID 0.

```
XSCF> addboard -y -c assign -d 0 00-0 01-0 02-0 03-0
```

EXAMPLE 2 Configures XSB#00-0, #01-0, #02-0, and #03-0 forcibly into domain ID 2.

```
XSCF> addboard -f -d 2 00-0 01-0 02-0 03-0
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

`deleteboard(8)`, `moveboard(8)`, `replacefru(8)`, `setdcl(8)`, `setdomainmode(8)`, `setupfru(8)`, `showboards(8)`, `showdcl(8)`, `showdevices(8)`, `showdomainstatus(8)`, `showfru(8)`, `testsb(8)`

addboard(8)



NAME	addcodlicense - add a Capacity on Demand (COD) right-to-use (RTU) license key to the COD license database
SYNOPSIS	addcodlicense <i>license-signature</i> addcodlicense -h
DESCRIPTION	<p>addcodlicense(8) adds the COD RTU specified license key to the COD license database on the Service Processor. When the license key is added, the quantity of headroom is reduced by the quantity provided by the license key. The quantity of headroom cannot be lower than 0.</p> <p>Note – Before you run this command, you must obtain a COD license key. To obtain a license key, contact your sales representative. For details on COD RTU license keys, refer to the COD documentation for your server.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>license-signature</i> Specifies the COD RTU license key to be added to the COD license database.</p>
EXAMPLES	<p>EXAMPLE 1 Adding a COD RTU License Key</p> <pre>XSCF> addcodlicense \ 01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxxxxxxxxxx</pre> <p>After this command completes, you will see messages similar to these in the XSCF console:</p> <pre>codd 15:51:36: COD PROC Headroom changed to 1 codd 15:51:36: Headroom reduced after adding the license</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

`addcodlicense(8)`

SEE ALSO

`deletecodlicense (8)`, `setcod (8)`, `showcod (8)`, `showcodlicense (8)`,
`showcodusage (8)`

NAME	addfru - add a Field Replaceable Unit (FRU)
SYNOPSIS	addfru addfru -h
DESCRIPTION	<p>The <code>addfru(8)</code> command adds an FRU.</p> <p>The <code>addfru(8)</code> command enables the user to make the settings that are required for FRU addition and related to selecting, confirming, and mounting FRUs, interactively using menus.</p> <p>The following FRUs can be added by the <code>addfru(8)</code> command:</p> <ul style="list-style-type: none"> ■ CPU memory unit (CMU) ■ I/O unit (IOU) ■ Fan unit (FANU) ■ Power supply unit (PSU)
Privileges	<p>You must have <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p><code>-h</code> Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	deletefru(8), replacefru(8), setupfru(8), showfru(8), showhardconf(8), testsb(8), unlockmaintenance(8)

addfru(8)



NAME	adduser - create an XSCF user account						
SYNOPSIS	adduser [-u <i>UID</i>] <i>user</i> adduser -h						
DESCRIPTION	<p>adduser(8) creates a new local XSCF user account. This account is used to configure, operate, manage and administrate the XSCF firmware. Initially, this account has no password. It cannot be used for login until either the password is set (using password(8)) or Secure Shell (SSH) public key authentication is set for the user. The new account will be locked but not disabled. The system can support up to 100 local users with an average length of 10 characters for the <i>user</i> operand.</p> <p>When invoked without the -u option, adduser automatically assigns a UID for the user account. When invoked with the -u option adduser assigns the given UID to the user account. Automatic UIDs are assigned starting from 100.</p> <p>If the Service Processor is configured to use Lightweight Directory Access Protocol (LDAP) for user account data, the user name and UID (if specified) must not already be in use, either locally or in LDAP.</p> <p>When a user is created, adduser(8) command stores the current password policy values in a file for the user. For more information on setting password policy see, setpasswordpolicy(8).</p>						
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>						
OPTIONS	<p>The following options are supported.</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-u <i>UID</i></td><td>Creates a new user with the given user identifier (UID). Specifying a UID is optional. If specified, the UID must be greater than or equal to 100; and 65534 and 65535 are reserved. If not specified, a UID is automatically assigned.</td></tr></table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-u <i>UID</i>	Creates a new user with the given user identifier (UID). Specifying a UID is optional. If specified, the UID must be greater than or equal to 100; and 65534 and 65535 are reserved. If not specified, a UID is automatically assigned.
-h	Displays usage statement.						
	When used with other options or operands, an error occurs.						
-u <i>UID</i>	Creates a new user with the given user identifier (UID). Specifying a UID is optional. If specified, the UID must be greater than or equal to 100; and 65534 and 65535 are reserved. If not specified, a UID is automatically assigned.						
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>user</i></td><td>Specifies a valid user name. Name of the user account to be added. Maximum name length is 32 characters.</td></tr></table>	<i>user</i>	Specifies a valid user name. Name of the user account to be added. Maximum name length is 32 characters.				
<i>user</i>	Specifies a valid user name. Name of the user account to be added. Maximum name length is 32 characters.						
EXAMPLES	<p>EXAMPLE 1 Creating a New User</p> <pre>XSCF> adduser -u 359 jsmith</pre>						

adduser(8)

EXIT STATUS	The following exit values are returned:
	0 Successful completion.
	>0 An error occurred.
SEE ALSO	deleteuser(8), disableuser(8), enableuser(8), password(8), setldap(8), setpasswordpolicy(8), showldap(8), showpasswordpolicy(8), showuser(8)

NAME	applynetwork - reset XSCF to reflect information that has been set for the XSCF network										
SYNOPSIS	applynetwork [[-q] [-y n]] [-M] applynetwork -h										
DESCRIPTION	<p>applynetwork(8) resets XSCF to reflect network information that has been set for an XSCF unit.</p> <p>When setting one of the following, XSCF should be reset to reflect network information using the applynetwork(8) command.</p> <ul style="list-style-type: none"> ■ XSCF host name ■ DNS servers ■ DNS domain name ■ IP address ■ netmask ■ routing <p>Host name, DNS domain name, name server, IP address, net mask, and routing setting information is displayed when resetting. In case the active XSCF is normal and the standby XSCF is abnormal, resets the active XSCF only.</p> <p>Note – If XSCF is reset without using the applynetwork(8) command, network information that is set is not reflected in XSCF. Also, information that is set is deleted.</p>										
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>										
OPTIONS	<p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the more command.</td></tr> <tr> <td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr> <tr> <td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr> <tr> <td>-y</td><td>Automatically answers 'y' (yes) to all prompts.</td></tr> </table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-M	Displays text by page. This option provides a function that is the same as that of the more command.	-n	Automatically answers 'n' (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers 'y' (yes) to all prompts.
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-M	Displays text by page. This option provides a function that is the same as that of the more command.										
-n	Automatically answers 'n' (no) to all prompts.										
-q	Suppresses all messages to stdout, including prompts.										
-y	Automatically answers 'y' (yes) to all prompts.										
OPERANDS	There are no operands.										

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- Unless all of the host name, DNS domain name, IP address, net mask, and routing settings have been made, it results in errors. Please execute the `sethostname(8)`, `setnetwork(8)`, and `setroute(8)` command to set all items, then reexecute the `applynetwork(8)` command.
- To set to multiple interfaces, all of the host name, DNS domain name, IP address, net mask, and routing settings need to be set on every interface. In these interfaces, if any of these setting items omitted, it results in errors.
- To specify a host name, use the `sethostname(8)` command. To specify an IP address and net mask, use the `setnetwork(8)` command. To specify routing, use the `setroute(8)` command.

EXAMPLES

EXAMPLE 1 Resets XSCF to reflect the information that has been set for the XSCF network. The set contents are displayed and reflected after XSCF is reset.

On a midrange server:

```
XSCF> applynetwork
The following network settings will be applied:
xscf#0 hostname      :hostname-0
DNS domain name      :example.com
nameserver            :10.23.4.3

interface             :xscf#0-lan#0
status                :up
IP address            :10.24.144.214
netmask               :255.255.255.0
route                 :-n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface             :xscf#0-lan#1
status                :down
IP address            :
netmask               :
route                 :
```

The XSCF will be reset. Continue? [y|n] :**y**

On a high-end server:

The case of high-end server.

XSCF> **applynetwork**

The following network settings will be applied:

```
xscf#0 hostname :hostname-0
xscf#1 hostname :hostname-1
DNS domain name :example.com
nameserver      :10.23.4.3

interface       :xscf#0-lan#0
status          :up
IP address      :10.24.144.214
netmask         :255.255.255.0
route           : -n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface       :xscf#0-lan#1
status          :down
IP address      :
netmask         :
route           :

interface       :xscf#0-if
status          :down
IP address      :10.24.100.1
netmask         :
route           :

interface       :lan#0
status          :down
IP address      :
netmask         :
route           :

interface       :xscf#1-lan#0
status          :up
IP address      :10.24.144.215
netmask         :255.255.255.0
route           : -n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface       :xscf#1-lan#1
status          :down
IP address      :
netmask         :
route           :

interface       :xscf#1-if
status          :down
IP address      :10.24.100.2
netmask         :255.255.255.0
route           :

interface       :lan#1
status          :down
IP address      :
netmask         :
route           :
```

Both XSCF will be reset. Continue? [y|n] :**y**

EXAMPLE 2 On the midrange server, resets XSCF to reflect the information that has been set for the XSCF network. Automatically answers "y" to all prompts.

```
XSCF> applynetwork -y
The following network settings will be applied:
xscf#0 hostname :hostname-0
DNS domain name :example.com
nameserver      :10.23.4.3

interface       :xscf#0-lan#0
status          :up
IP address      :10.24.144.214
netmask         :255.255.255.0
route           :-n 0.0.0.0 -m 0.0.0.0 -g 10.24.144.1

interface       :xscf#0-lan#1
status          :down
IP address      :
netmask         :
route           :
```

The XSCF will be reset. Continue? [y|n] :**y**

EXAMPLE 3 Resets XSCF to reflect the information that has been set for the XSCF network. Suppresses prompts, and automatically answers "y" to all prompts.

```
XSCF> applynetwork -q -y
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

sethostname(8), **setnetwork(8)**, **setroute(8)**

NAME	cfgdevice - connect a DVD/TAPE drive to the port, disconnect it from the port, or display the status of the drive
SYNOPSIS	cfgdevice [[-q] -{y n}] -c attach -p <i>port_no</i> cfgdevice [[-q] -{y n}] -c detach -p <i>port_no</i> cfgdevice -l [-M] cfgdevice -h
DESCRIPTION	<p>The <code>cfgdevice(8)</code> connects a DVD/TAPE drive to the specified port, disconnects it from the domain, or displays the current status of the DVD/TAPE drive.</p> <p>To connect the DVD/TAPE drive, the port number which is a PCI slot number on the I/O unit which installed IOU Onboard Device Card A (IOUA) needs to specify. Executing the <code>cfgdevice(8)</code> command, the DVD/TAPE drive is connected to specified port by the built-in switching unit.</p>

The current status of the drive that is displayed with this command includes the following types of status information:

port_no	Port number of the port where the IOUA is installed and that can be connected to a DVD/TAPE drive. It is displayed in the " <i>IOU number-PCI slot number</i> " format.
IOU/SAS-status	<p>Connection status between IOUA and built-in switching unit. It is changed by specifying "attach" or "detach."</p> <ul style="list-style-type: none"> ■ enable/disable: Setting status of the cfgdevice(8) command <ul style="list-style-type: none"> enable: Connected with "-c attach." disable: Not connected. ■ up/down: Logical connection between IOUA and built-in switching unit. <ul style="list-style-type: none"> up: Connected. down: Not connected.
SAS-status	<p>Connection status between I/O unit and the system.</p> <ul style="list-style-type: none"> ■ enable/disable: Connection setting between I/O unit and the system. When starting a domain with no I/O unit, the "disable" may be displayed. <ul style="list-style-type: none"> enable: Yes disable: No ■ up/down: Logical connection between I/O unit and the system. <ul style="list-style-type: none"> up: Connected. down: Not connected.

The `cfgdevice(8)` command is valid only for high-end server.

Privileges

You must have one of the following privileges to run this command:

- For connection and disconnection:
platadm, fieldeng
- For displaying the status:
platadm, fieldeng

Refer to `setprivileges(8)` for more information.

OPTIONS	The following options are supported:	
	-c attach	Connects a DVD/TAPE drive to the specified port.
	-c detach	Disconnects the DVD/TAPE drive from the specified port.
	-h	Displays usage statement. When used with other options or operands, an error occurs.
	-l	Displays the current status of the DVD/TAPE drive currently set up.
	-M	Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.
	-n	Automatically answers 'n' (no) to all prompts.
	-p <i>port_no</i>	Specifies the number of the port, in the specified domain, to which the DVD/TAPE drive is to be connected. <i>port_no</i> can be specified in the ' <i>IOU number-PCI slot number</i> ' format. The -p option cannot be omitted.
	-q	Suppresses all messages to stdout, including prompts.
	-y	Automatically answers 'y' (yes) to all prompts.

EXTENDED
DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- If connection or disconnection is made when the power supply of the system is ON, settings are made immediately after `cfgdevice(8)` command execution. When the power supply of the system is OFF, connection or disconnection is reserved and settings are made after the power supply is turned on.
- The DVD/TAPE connection is maintained even if the domain configuration is changed, or a CPU memory unit (CMU) or I/O unit (IOU) is replaced with a connected DVD/TAPE drive.
- The DVD/TAPE connection is maintained even if the domain power is turned off or the system is rebooted.

- A DVD/TAPE drive is mounted in each of the base and expansion cabinets in a high-end server that has the expansion cabinet. In such cases, each DVD/TAPE drive can be connected only to a domain within the cabinet in which the drive is mounted. Settings for connection must be made for both the base cabinet and expansion cabinet.

```
XSCF> cfgdevice -l
Current connection for DVD/DAT:
  Main chassis:      port 0-0
  Expansion chassis: port 8-0
Expander status
Port No. IOU/SAS-status SAS-status
-----
0-0      enable up      enable up
0-2      disable up     enable up
0-4      disable up     enable up
0-6      disable up     enable up
1-0      disable up     enable up
1-2      disable up     enable up
1-4      disable up     enable up
1-6      disable up     enable up
2-0      disable up     enable up
2-2      disable up     enable up
2-4      disable up     enable up
2-6      disable up     enable up
8-0      enable up      enable up
8-2      disable up     enable up
8-4      disable up     enable up
8-6      disable up     enable up
```

EXAMPLES

- EXAMPLE 1** When the system is being powered off, reserves the connection of a DVD/TAPE drive to the port 0-0.

```
XSCF> cfgdevice -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.( Reservation )
```

- EXAMPLE 2** When the system is being powered on, connects a DVD/TAPE drive to port 0-0.

```
XSCF> cfgdevice -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.
```

- EXAMPLE 3** Disconnects the DVD/TAPE drive from the port 0-0.

```
XSCF> cfgdevice -f -c detach -p 0-0
Are you sure you want to detach the device [y|n] :y
Completed.
```

EXAMPLE 4 Displays the status of individual DVD/TAPE drives set (without the expansion cabinet).

```
XSCF> cfgdevice -l
Current connection for DVD/DAT: port 0-0
Expander status
Port No. IOU/SAS-status SAS-status
-----
0-0      enable up      enable up
0-2      disable up      enable up
```

EXAMPLE 5 Displays the status of individual DVD/TAPE drives set (with the expansion cabinet).

```
XSCF> cfgdevice -l
Current connection for DVD/DAT: port 0-0
Expander status
Port No. IOU/SAS-status SAS-status
-----
0-0      enable up      enable up
0-2      disable up      enable up
0-4      disable up      enable up
0-6      disable up      enable up
1-0      disable up      enable up
1-2      disable up      enable up
1-4      disable up      enable up
1-6      disable up      enable up
2-0      disable up      enable up
2-2      disable up      enable up
2-4      disable up      enable up
2-6      disable up      enable up
8-0      enable up      enable up
8-2      disable up      enable up
8-4      disable up      enable up
8-6      disable up      enable up
```

EXAMPLE 6 Connects a DVD/TAPE drive to port 0-0 when the system is being powered on. Automatically answers "y" to all prompts.

```
XSCF> cfgdevice -y -c attach -p 0-0
Are you sure you want to attach the device [y|n] :y
Completed.
```

EXAMPLE 7 Connects a DVD/TAPE drive to port 0-0 when the system is being powered on. Automatically answers "y" to all prompts without displaying messages.

```
XSCF> cfgdevice -q -y -c attach -p 0-0
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.



NAME	clockboard - Set or display the clock control unit used at system startup
SYNOPSIS	clockboard -c display clockboard -c set -s <i>CLKU_B-number</i> clockboard -h
DESCRIPTION	<p>The <code>clockboard(8)</code> command specifies the clock control unit used when the system power is turned on, or it displays the clock control unit that is currently used and the clock control unit used at the next system startup.</p> <p>The number 0 or 1 is used to specify or display a clock control unit. When the <code>clockboard(8)</code> command is executed with no options, the clock control unit that is currently used and the one used at the next system startup are displayed.</p> <p>The <code>clockboard(8)</code> command is valid only for duplicated configuration of the clock control unit.</p>
Privileges	<p>You must have <code>fieldeng</code> privilege to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-s <i>CLKU_B-number</i> Specifies the clock control unit to be used the next time the system power is turned on. Either 0 or 1 can be specified for <i>CLKU_B-number</i>.</p>
EXAMPLES	<p>EXAMPLE 1 Displays the clock control unit that is currently used and the one used at the next system startup.</p> <pre>XSCF> clockboard current CLKU_B number :0 next CLKU_B number :1</pre> <p>EXAMPLE 2 Specifies the clock control unit used at the next system startup.</p> <pre>XSCF> clockboard -s 1</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

clockboard(8)



NAME	console - connect to a domain console
SYNOPSIS	<p>console [[-q] -{y n}] -d <i>domain_id</i> [-f -r] [-s <i>escapeChar</i>]</p> <p>console -h</p>
DESCRIPTION	<p>The console(8) command connects the XSCF shell console to the console of the specified domain (domain console).</p> <p>Domain consoles include a writable console and read-only console. Only one writable console and multiple read-only consoles can be connected to one domain. An attempt to set up a connection to another writable console while one writable console is already connected results in an error. Even in this case, however, a user with the platadm or domainadm privilege can forcibly establish a connection to a writable console, in which case the currently connected writable console is disconnected.</p> <p>To exit the domain console and return to the XSCF shell console, press the Enter key and then enter '#.'.</p> <p>Note – The console(8) command does not automatically log out the domain command line. Make certain to log out from the domain prior to exiting the console.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, fieldeng</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported.</p> <p>-d <i>domain_id</i> Specifies only one ID of the domain in which a system board is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0–23 depending on the system configuration.</p> <p>-f Forcibly connects to a writable console. The currently connected writable console is disconnected. Only users who belong to the platadm or domainadm privilege can specify this option.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p>

**EXTENDED
DESCRIPTION**

- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- r Sets up a connection to a read-only console.
- s *escapeChar* Specifies an escape character. The default is '#' (sharp). The character specified for *escapeChar* must be enclosed in double quotation (" "). The following symbols can be specified for *escapeChar*:

 '#', '@', '^', '&', '?', '*', '=', '.', '|'

 Specified escape character is available only in the session that executed the console(8) command.
- y Automatically answers 'y' (yes) to all prompts.

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- The domain console regards '#' used at the beginning of a line as an escape character. An escape character is specified to instruct the console to perform special processing. Examples of processing that can be specified in combination with '#' are as follows.

- #? Outputs a status message.
- #. Disconnects the console.

- To enter '#' at the beginning of a line, enter '#' twice.
- To display information on the currently connected domain console, use the showconsolepath(8) command.

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

sendbreak(8), **showconsolepath(8)**

NAME	deleteboard - disconnect an eXtended System Board (XSB) from the domain configuration						
SYNOPSIS	deleteboard [[-q] -{y n}] [-f] [-v] [-c disconnect] <i>xsb</i> [<i>xsb...</i>] deleteboard [[-q] -{y n}] [-f] [-v] -c unassign <i>xsb</i> [<i>xsb...</i>] deleteboard [[-q] -{y n}] [-f] [-v] -c reserve <i>xsb</i> [<i>xsb...</i>] deleteboard -h						
DESCRIPTION	<p>The deleteboard(8) command disconnects an XSB from the domain configuration in which it has been configured.</p> <p>One of the following disconnection methods can be specified:</p> <table><tr><td>disconnect</td><td>Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.</td></tr><tr><td>unassign</td><td>Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.</td></tr><tr><td>reserve</td><td>Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.</td></tr></table>	disconnect	Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.	unassign	Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.	reserve	Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.
disconnect	Disconnects the XSB from the domain configuration but keeps it assigned. Because the XSB thus remains assigned to the domain configuration, it can be configured again in the domain by reboot the domain or execution of the addboard(8) command.						
unassign	Completely disconnects the XSB from the main configuration and puts it in the system board pool. The XSB in the system board pool can be incorporated into or assigned to other domain configurations.						
reserve	Does not immediately disconnects the XSB from the domain configuration but only reserves detachment. When the domain power is shut down, the reserved XSB is disconnected from the domain configuration and put in the system board pool.						
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.		
platadm	Can run this command for all domains.						
domainadm	Can run this command only for your managed domains.						

OPTIONS

The following options are supported.

- c disconnect Detaches the XSB from the domain configuration and keeps it assigned. If the -c option is omitted, "-c disconnect" is used.
- c reset Reserves disconnect of an XSB. If the -c option is omitted, "-c disconnect" is used.
- c unassign Disconnects the XSB completely from the domain configuration and puts it in the system board pool. If the -c option is omitted, "-c disconnect" is used.
- f Forcibly detaches the specified XSB.
Note – If the -f option is used to forcibly add a system board to a domain, all the added hardware resources may not work normally. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the status of every added system board and device.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- v Displays a detailed message. If this option is specified with the -q option, the -v option is ignored.
- y Automatically answers 'y' (yes) to all prompts.

OPERANDS

The following operand is supported:

- xsb* Specifies the XSB number to be disconnected. Multiple *xsb* operands are permitted, separated by spaces. The following *xsb* form is accepted:

x-y

where:

x An integer from 00–15.

y An integer from 0–3.

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- If "-c disconnect" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, no operation is performed. If domain power-on or power-off is in progress, the command results in an error.
- If "-c unassign" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, the XSB is switched from the assigned state to a system board pool. If the XSB is already in a system board pool, no operation is performed.
- If "-c reserve" is specified when either the domain power has been turned off or the XSB is already disconnected from the domain configuration, the XSB is immediately switched from the assigned state to a system board pool. If the XSB is already in a system board pool, no operation is performed. If domain power-on or power-off is in progress, the command results in an error.
- When the XSB is disconnected, the hardware resource on the XSB is disconnected from the operating system. For this reason, command execution may take time.
- The state in which an XSB has been assigned means that configuring the XSB in the specified domain has been reserved. The reserved XSB is configured when the domain is rebooted or the addboard(8) command is executed. An already assigned XSB cannot be specified for configuring or assignment from other domains.
- An XSB in the system board pool means that the XSB belongs to no domain and is therefore available for configuring or assignment.

EXAMPLES

EXAMPLE 1 Puts the system board XSB#00-0, #01-0, #02-0, and #03-0 in the system board pool

```
XSCF> deleteboard -c unassign 00-0 01-0 02-0 03-0
```

EXAMPLE 2 Reserves disconnection of XSB#00-0, #01-0, #02-0, and #03-0.

```
XSCF> deleteboard -c reserve 00-0 01-0 02-0 03-0
```

EXIT STATUS

The following exit values are returned:

- | | |
|----|------------------------|
| 0 | Successful completion. |
| >0 | An error occurred. |

SEE ALSO

addboard(8), **moveboard(8)**, **replacefru(8)**, **setdcl(8)**, **setupfru(8)**, **showboards(8)**, **showdcl(8)**, **showdevices(8)**, **showdomainstatus(8)**, **showfru(8)**

deleteboard(8)



NAME	deletecodlicense - remove a Capacity on Demand (COD) right-to-use (RTU) license key from the COD license database
SYNOPSIS	deletecodlicense [-f] <i>license-signature</i> deletecodlicense -h
DESCRIPTION	<p>The <code>deletecodlicense(8)</code> command removes the specified COD RTU license key from the COD license database on the Service Processor. For further information about COD RTU license keys, refer to the <i>OPL Administration Guide</i>.</p> <p>The system checks the number of COD RTU licenses against the number of COD CPUs in use. If the license removal will result in an insufficient number of COD RTU licenses with respect to the CPU in use, the system does not delete the license key from the COD RTU license database. If you still want to delete the COD RTU license key, you must reduce the number of COD CPUs in use. Power off the appropriate number of domains or disconnect the appropriate number of boards.</p>
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-f Forces the specified COD RTU license key to be deleted from the COD license database.</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>license-signature</i> Specifies the COD RTU license key to be deleted from the COD license database.</p>
EXAMPLES	<p>EXAMPLE 1 Deleting a COD RTU license key</p> <pre>XSCF> deletecodlicense\ 01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxxxxxxxxxx</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

deletecodlicense(8)

SEE ALSO

addcodlicense (8), setcod (8), showcod (8), showcodlicense (8), showcodusage (8)

NAME	deletefru - delete a Field Replaceable Unit (FRU)
SYNOPSIS	deletefru deletefru -h
DESCRIPTION	<p>The <code>deletefru(8)</code> command deletes a FRU.</p> <p>The <code>deletefru(8)</code> command allows the user to make the settings that are required for FRU deletion and related to selecting, confirming, and removing FRUs interactively using menus.</p> <p>The following FRUs can be deleted:</p> <ul style="list-style-type: none"> ■ CPU memory unit (CMU) ■ I/O unit (IOU)
Privileges	<p>You must have <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p><code>-h</code> Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	<code>addfru(8)</code>, <code>deleteboard(8)</code>, <code>replacefru(8)</code>, <code>setupfru(8)</code>, <code>showdomainstatus(8)</code>, <code>showfru(8)</code>, <code>showhardconf(8)</code>, <code>unlockmaintenance(8)</code>

deletefru(8)



NAME	deleteuser - delete an XSCF user account
SYNOPSIS	deleteuser <i>user</i> deleteuser -h
DESCRIPTION	<p>deleteuser(8) deletes a local XSCF user account. All local account data associated with the user account is deleted including password and Secure Shell (SSH) keys.</p> <p>The local user's currently running XSCF shell and browser sessions are terminated at once. The user's account is removed from the system and they cannot log back in. You cannot delete your own account.</p>
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>user</i> Specifies a valid user name. The name of the user account to be deleted.</p>
EXAMPLES	<p>EXAMPLE 1 Deleting a User</p> <p>XSCF> deleteuser jsmith</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	adduser (8), disableuser (8), enableuser (8)

deleteuser(8)



NAME	disableuser - disable an XSCF user account				
SYNOPSIS	<p>disableuser <i>user</i></p> <p>disableuser -h</p>				
DESCRIPTION	<p>disableuser(8) disables a local XSCF user account for subsequent logins. Current sessions are not affected.</p> <p>When an account is disabled, it cannot be used for login. This applies to console (serial) and telnet connections, as well as the Secure Shell (SSH). XSCF Web login is also disabled. All local XSCF account data associated with the user remains on the system. This includes password and SSH keys. You can reenable a disabled account using enableuser(8).</p>				
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>				
OPTIONS	<p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> </table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.
-h	Displays usage statement.				
	When used with other options or operands, an error occurs.				
OPERANDS	<p>The following operand is supported:</p> <table> <tr> <td><i>user</i></td><td>Specifies a valid user name of the user account to be disabled.</td></tr> </table>	<i>user</i>	Specifies a valid user name of the user account to be disabled.		
<i>user</i>	Specifies a valid user name of the user account to be disabled.				
EXAMPLES	<p>EXAMPLE 1 Disabling a User Account</p> <pre>XSCF> disableuser jsmith</pre>				
EXIT STATUS	<p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>>0</td><td>An error occurred.</td></tr> </table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	adduser (8), deleteuser (8), enableuser (8), showuser (8)				

disableuser(8)



NAME	enableuser - enable an XSCF user account
SYNOPSIS	enableuser <i>user</i> enableuser -h
DESCRIPTION	enableuser(8) enables a local XSCF user account. An enabled account can be used for login at the console, using Secure Shell (SSH). Using this command, you can reen able accounts disabled by disableuser.
Privileges	You must have useradm privileges to run this command. Refer to setprivileges(8) for more information.
OPTIONS	The following option is supported. -h Displays usage statement. When used with other options or operands, an error occurs.
OPERANDS	The following operand is supported: <i>user</i> Specifies the valid user name of the account to be enabled.
EXAMPLES	EXAMPLE 1 Enable a User Account XSCF> enableuser jsmith
EXIT STATUS	The following exit values are returned: 0 Successful completion. >0 An error occurred.
SEE ALSO	adduser (8), deleteuser (8), disableuser (8), showuser (8)

enableuser(8)



NAME	exit - exit the XSCF shell
SYNOPSIS	exit exit -h
DESCRIPTION	The <code>exit(1)</code> command exits and closes the XSCF shell.
Privileges	No privileges are required to run this command. Refer to <code>setprivileges(8)</code> for more information.
OPTIONS	The following options are supported: -h Displays usage statement.

exit(1)

NAME	flashupdate - update the firmware												
SYNOPSIS	<p>flashupdate -c check -m xcp -s <i>version</i></p> <p>flashupdate [[-q] -{y n}] -c update -m xcp -s <i>version</i></p> <p>flashupdate -c sync</p> <p>flashupdate -h</p>												
DESCRIPTION	<p>The flashupdate(8) command updates the firmware that is provided for the SPARC Enterprise M4000/M5000/M8000/M9000 servers.</p> <p>The entire firmware shown below is updated. Whether update can be performed can be checked beforehand.</p> <ul style="list-style-type: none">■ Update of the entire firmware (XSCF, OpenBoot PROM) (xcp)												
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:.</p> <table><tr><td>-c check</td><td>Checks whether the specified firmware can be updated.</td></tr><tr><td>-c update</td><td>Updates the specified firmware. In case the XSCF unit is duplicated configuration, updates the firmware of both XSCF units.</td></tr><tr><td>-c sync</td><td>Synchronizes the firmware versions of the XSCF units when the XSCF units are duplicated configuration. This option is used when replacing an XSCF unit.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-m xcp</td><td>Specifies the entire firmware as a target.</td></tr><tr><td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr></table>	-c check	Checks whether the specified firmware can be updated.	-c update	Updates the specified firmware. In case the XSCF unit is duplicated configuration, updates the firmware of both XSCF units.	-c sync	Synchronizes the firmware versions of the XSCF units when the XSCF units are duplicated configuration. This option is used when replacing an XSCF unit.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-m xcp	Specifies the entire firmware as a target.	-n	Automatically answers 'n' (no) to all prompts.
-c check	Checks whether the specified firmware can be updated.												
-c update	Updates the specified firmware. In case the XSCF unit is duplicated configuration, updates the firmware of both XSCF units.												
-c sync	Synchronizes the firmware versions of the XSCF units when the XSCF units are duplicated configuration. This option is used when replacing an XSCF unit.												
-h	Displays usage statement. When used with other options or operands, an error occurs.												
-m xcp	Specifies the entire firmware as a target.												
-n	Automatically answers 'n' (no) to all prompts.												

	<div><div>-q</div><div>Suppresses all messages to stdout, including prompts.</div></div> <div><div>-s <i>version</i></div><div>Specifies a XCP comprehensive firmware version. For version, specify a major version, minor version and micro version continuously.</div><div>The XCP version number appears as xyyz by four digits, where:</div><div><div>x</div><div>Major firmware release number</div></div><div><div>yy</div><div>Minor release number</div></div><div><div>z</div><div>Micro release number</div></div></div> <div><div>-y</div><div>Automatically answers 'y' (yes) to all prompts.</div></div>
EXTENDED DESCRIPTION	<div><div>■</div><div>When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.</div></div> <div><div>■</div><div>When the firmware is updated, the XSCF unit is reset. Therefore, LAN connection to the XSCF is canceled if already established.</div></div> <div><div>■</div><div>When there's a faulty FRU, can't update the firmware. Resolve the FRU fault then update.</div></div>
EXAMPLES	<div><div>EXAMPLE 1</div><div>Check whether the entire firmware can be updated to version 1020.</div></div> <div><div>XSCF></div><div>flashupdate -c check -m xcp -s 1020</div></div>

EXAMPLE 2 Updates the entire firmware to version from 1010 to 1020.

```
XSCF> flashupdate -c update -m xcp -s 1020
The XSCF will be reset. Continue? [y|n] :y
XCP update is started (XCP version=1020:last version=1010)
OpenBoot PROM update is started
OpenBoot PROM update has been completed (OpenBoot PROM version=01010001)
XSCF update is started (SCF=0, bank=1, XCP version=1020:last version=1010)
XSCF download is started (SCF=0, bank=1, XCP version=1020:last
version=1010, Firmware Element ID=00:version=01010002:last
version=01010001)
XSCF download has been completed (SCF=0, bank=1, XCP version=1020:last
version=1010, Firmware Element ID=00:version=01010002:last
version=01010001)
:
:
XSCF download is started (SCF=0, bank=1, XCP version=1020:last
version=1010, Firmware Element ID=07:version=01010002:last
version=01010001)
XSCF download has been completed (SCF=0, bank=1, XCP version=1020:last
version=1010, Firmware Element ID=07:version=01010002:last
version=01010001)
XSCF update has been completed (SCF=0, bank=1, XCP version=1020:last
version=1010)
XSCF update is started (SCF=0, bank=0, XCP version=1020:last version=1010)
XSCF download is started (SCF=0, bank=0, XCP version=1020:last
version=1010, Firmware Element ID=00:version=01010002:last
version=01010001)
XSCF download has been completed (SCF=0, bank=0, XCP version=1020:last
version=1010, Firmware Element ID=00:version=01010002:last
version=01010001)
:
:
XSCF download is started (SCF=0, bank=0, XCP version=1020:last
version=1010, Firmware Element ID=07:version=01010002:last
version=01010001)
XSCF download has been completed (SCF=0, bank=0, XCP version=1020:last
version=1010, Firmware Element ID=07:version=01010002:last
version=01010001)
XSCF is rebooting to update the reserve bank
```

EXAMPLE 3 When XSCF unit is duplicated configuration, synchronizes the firmware versions after replacement of the XSCF unit.

```
XSCF> flashupdate -c sync
```

EXIT STATUS

The following exit values are returned:

0	Successful completion
>0	An error occurred.

SEE ALSO

version (8)

flashupdate(8)



NAME	fmadm - fault management configuration tool						
SYNOPSIS	fmadm [-q] config fmadm -h						
DESCRIPTION	<p>fmadm (8) can be used to view system configuration parameters related to fault management.</p> <p>fmadm can be used to:</p> <ul style="list-style-type: none">View the set of diagnosis engines and agents that are currently participating in fault managementView the list of system components that have been diagnosed as faulty <p>The Fault Manager attempts to automate as many activities as possible, so use of fmadm is typically not required. When the Fault Manager needs help from a human administrator or service representative, it produces a message indicating its needs. It also refers you to a URL containing the relevant knowledge article. The web site might ask you to use fmadm or one of the other fault management utilities to gather more information or perform additional tasks. The documentation for fmdump(8) describes more about tools to observe fault management activities.</p>						
Privileges	<p>You must have platop, platadm, or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>						
OPTIONS	<p>The following options are supported.</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-q</td><td>Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.</td></tr></table>	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-q	Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.
-h	Displays usage statement.						
	When used with other options or operands, an error occurs.						
-q	Sets quiet mode. fmadm does not produce messages indicating the result of successful operations to standard output.						
OPERANDS	<p>The following operands are supported:</p> <table><tr><td>config</td><td>Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.</td></tr></table>	config	Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.				
config	Displays the configuration of the Fault Manager itself, including the module name, version, and description of each component module. Fault Manager modules provide services such as automated diagnosis, self-healing, and messaging for hardware and software present on the system.						

EXAMPLES

EXAMPLE 1 Displaying the Fault Manager Configuration

```
XSCF> fmadm config
MODULE          VERSION STATUS DESCRIPTION
case-close      1.0   active Case-Close Agent
fmd-self-diagnosis 1.0   active Fault Manager Self-
Diagnosis
sysevent-transport 1.0   active SysEvent Transport Agent
syslog-msgs      1.0   active Syslog Messaging Agent
```

EXIT STATUS

The following exit values are returned:

```
0           Successful completion.
>0          An error occurred.
```

SEE ALSO

fmdump(8), **fmstat**(8)

NAME	fmdump - view fault management logs				
SYNOPSIS	<p>fmdump</p> <p>fmdump [-e] [-f] [-M] [-v] [-V] [-c <i>class</i>] [-t <i>time</i>] [-T <i>time</i>] [-u <i>uuid</i>]</p> <p>fmdump -m [-M] [-t <i>time</i>] [-T <i>time</i>]</p> <p>fmdump -h</p>				
DESCRIPTION	<p>The fmdump utility displays the contents of any of the logs associated with the Fault Manager (fault manager daemon). The Fault Manager runs in the background on each server. It records, in the error log, faults detected by the XSCF, and initiates proactive self-healing activities, such as disabling faulty components.</p> <p>The Fault Manager maintains two sets of logs for use by administrators and service personnel:</p> <table> <tr> <td>Error log</td><td>Records error telemetry, the symptoms of problems detected by the system</td></tr> <tr> <td>Fault log</td><td>Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.</td></tr> </table> <p>Each problem recorded in the fault log is identified by:</p> <ul style="list-style-type: none"> ■ The time of its diagnosis ■ A Universal Unique Identifier (UUID) that can be used to uniquely identify this particular problem across any set of systems ■ A message identifier (MSG-ID) that can be used to access a corresponding knowledge article located at the specified website. <p>If a problem requires action by a human administrator or service technician or affects system behavior, the Fault Manager also issues a human-readable message.</p> <p>This message provides a summary of the problem and a reference to the knowledge article on the specified website.</p> <p>You can use the -v and -V options to expand the display from a single-line summary to increased levels of detail for each event recorded in the log. You can also use the -M option to display only one screen at a time. The -c, -t, -T, and -u options can be used to filter the output by selecting only those events that match the specified <i>class</i>, range of times, or <i>uuid</i>. If more than one filter option is present on the command line, the options combine to display only those events that are selected by the logical AND of the options. If more than one instance of the same</p>	Error log	Records error telemetry, the symptoms of problems detected by the system	Fault log	Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.
Error log	Records error telemetry, the symptoms of problems detected by the system				
Fault log	Records fault diagnosis information; the problems believed to explain these symptoms. By default, fmdump displays the contents of the fault log, which records the result of each diagnosis made by the fault manager or one of its component modules.				

	filter option is present on the command-line, the like options combine to display any events selected by the logical OR of the options.
	You can use the <code>-m</code> option to display the Fault Manager syslog contents.
Privileges	<p>You must have <code>platop</code>, <code>platadm</code>, or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported.</p> <ul style="list-style-type: none"> <code>-c class</code> Selects events that match the specified class. The class argument can use the global pattern matching syntax, which is similar to global pattern matching for files. For example <code>xyz.*</code> would match <code>xyz.sxc</code> and <code>xyz.pdf</code>. The class represents a hierarchical classification string indicating the type of telemetry event. <code>-h</code> Displays usage statement. <code>-e</code> Displays events from the fault management error log instead of the fault log. <code>-f</code> Displays only lines that have been appended to the dump file since the command was executed. Output continues until interrupted by <code>Ctrl-C</code>. <code>-m</code> Displays the Fault Manager syslog message contents. <code>-M</code> Displays text by page. This option provides a function that is the same as that of the <code>more</code> command. <code>-t time</code> Selects events that occurred at or after the specified time. The time can be specified using the forms in the Time Formats following this section. Used with <code>-T</code> you can specify a range. <code>-T time</code> Selects events that occurred at or before the specified time. <i>time</i> can be specified using any of the time formats described for the <code>-t</code> option. Used with <code>-t</code> you can specify a range.

- `-u uuid` Selects fault diagnosis events that exactly match the specified *uuid*. Each diagnosis is associated with a Universal Unique Identifier (UUID) for identification purposes. The `-u` option can be combined with other options such as `-v` to show all of the details associated with a particular diagnosis.
- If the `-e` option and `-u` option are specified at the same time, `fmdump` displays the relevant error events.
- `-v` Displays verbose event detail. The event display is enlarged to show additional common members of the selected events.
- `-V` Displays very verbose event detail. The event display is enlarged to show every member of the name-value pair list associated with each event. In addition, for fault logs, the event display includes a list of cross-references to the corresponding errors that were associated with the diagnosis.

The following are the Time Formats:

Time Format	Description
<i>mm/dd/yy hh:mm:ss</i>	Month, day, year, hour in 24-hour format, minute, and second. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>mm/dd/yy hh:mm</i>	Month, day, year, hour in 24-hour format, and minute. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>mm/dd/yy</i>	12:00:00AM on the specified month, day, and year
<i>ddMonyy hh:mm:ss</i>	Day, month name, year, hour in 24-hour format, minute, and second. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.
<i>Mon dd hh:mm:ss</i>	Month, day, hour in 24-hour format, minute, and second of the current year. Any amount of whitespace can separate the date and time. The argument should be quoted so that the shell interprets the two strings as a single argument.

Time Format	Description
<i>yyyy-mm-dd [T hh:mm[:ss]]</i>	Year, month, day, and optional hour in 24-hour format, minute, and second, where T is an integer value specified in base 10. The second, or hour, minute, and second, can be optionally omitted.
<i>ddMonyy</i>	12:00:00AM on the specified day, month name, and year.
<i>hh:mm:ss</i>	Hour in 24-hour format, minute, and second of the current day.
<i>hh:mm</i>	Hour in 24-hour format and minute of the current day.
<i>Tns</i> <i>Tnsec</i>	T nanoseconds ago where T is an integer value specified in base 10.
<i>Tus</i> <i>Tusec</i>	T microseconds ago where T is an integer value specified in base 10
<i>Tms</i> <i>Tmsec</i>	T milliseconds ago where T is an integer value specified in base 10.
<i>Ts</i> <i>Tsec</i>	T seconds ago where T is an integer value specified in base 10.
<i>Tm</i> <i>Tmin</i>	T minutes ago where T is an integer value specified in base 10.
<i>Th</i> <i>Thour</i>	T hours ago where T is an integer value specified in base 10.
<i>Td</i> <i>Tday</i>	T days ago where T is an integer value specified in base 10.

You can append a decimal fraction of the form *.n* to any *-t* option argument to indicate a fractional number of seconds beyond the specified time.

EXAMPLES

EXAMPLE 1 Default fmdump Display

```

XSCF> fmdump
TIME                UUID                MSG-ID
Aug 12 16:12:13.2811 7868c1cc-23d4-c575-8659-85cbe61842e FMD-8000-77
Aug 12 16:12:13.2985 7868c1cc-23d4-c575-8659-85cbe61842e FMD-8000-77
Sep 01 16:06:57.5839 3ceca439-b0b2-4db1-9123-c8ace3f2b371 FMD-8000-77
Sep 01 16:06:57.6278 3ceca439-b0b2-4db1-9123-c8ace3f2b371 FMD-8000-77
Sep 06 09:37:05.0983 6485b42b-6638-4c5d-b652-bec485290788 LINUX-8000-1N
Sep 06 09:38:10.8584 77435994-5b99-4db8-bdcd-985c7d3ae3e4 LINUX-8000-1N
Sep 06 09:57:44.6502 0087d58c-e5b9-415d-91bc-adf7c41dd316 LINUX-8000-1N
Sep 06 12:40:59.2801 97de2cef-8ea1-407a-8a53-c7a67e61987a LINUX-8000-1N
Sep 06 12:41:10.1076 fa7304f9-c9e8-4cd1-9ca5-e35f57d53b2c LINUX-8000-1N
Sep 06 13:01:49.1462 ce550611-4308-4336-8a9a-19676f828515 LINUX-8000-1N
Sep 06 15:42:56.6132 0f4b429f-c048-47cd-9d9f-a2f7b6d4c957 LINUX-8000-1N
Sep 06 16:07:14.4652 7d5fb282-e01b-476a-b7e1-1a0f8de80758 LINUX-8000-1N
Sep 06 16:08:16.3755 41379237-9750-4fd6-bce3-b5131d864d34 LINUX-8000-1N
Sep 29 14:49:27.8452 0455ceaa-e226-424a-9b34-27603ca603f1 FMD-8000-58
Sep 29 15:02:00.3039 fb550ebc-80e9-41c8-8afc-ac680b9eb613 FMD-8000-58
Sep 29 15:09:25.4335 8cec9a83-e2a3-4dc3-a7cd-de01caef5c63 FMD-8000-4M
Sep 29 15:10:09.6151 5f88d7d5-a107-4435-99c9-7c59479d22ed FMD-8000-58

```

EXAMPLE 2 Display in Verbose Mode

```

XSCF> fmdump -v
TIME                UUID                MSG-ID
Nov 30 20:44:55.1283 9f773e33-e46f-466c-be86-fd3fcc449935 FMD-8000-0W
100% defect.sunos.fmd.nosub
:

```

EXAMPLE 3 Display Very Verbose Event Detail for the Last UUID

```

XSCF> fmdump -e -V -u 5f88d7d5-a107-4435-99c9-7c59479d22ed
TIME                CLASS
Sep 29 2005 15:10:09.565220864 ereport.io.iox.cp.seeprom0.nresp
nvlist version: 0
  detector = (embedded nvlist)
  nvlist version: 0
    scheme = hc
    version = 0
    hc-root = /
    hc-list_sz = 0x1
    hc-list = (array of embedded nvlists)
      (start hc-list[0])
    nvlist version: 0
      scheme = hc
      hc-name = iox
      hc-id = 0
    (end hc-list[0])
  (end detector)
IOXserial_no = 123456
class = ereport.io.iox.cp.seeprom0.nresp
ena = 0x921b650000000001

```

EXAMPLE 4 Displaying the Full Fault Report for the Specified UUID

```

XSCF> fmdump -V -u 5f88d7d5-a107-4435-99c9-7c59479d22ed
TIME          UUID          MSG-ID
Sep 29 15:10:09.6151 5f88d7d5-a107-4435-99c9-7c59479d22ed FMD-8000-58
TIME          CLASS          ENA
Sep 29 15:10:09.5652 ereport.io.iox.cp.seeprom0.nresp
0x921b65000000001
nvlist version: 0
    version = 0x0
    class = list.suspect
    uuid = 5f88d7d5-a107-4435-99c9-7c59479d22ed
    code = FMD-8000-58
    diag-time = 1128021009 615016
    de = (embedded nvlist)
    nvlist version: 0
        version = 0x0
        scheme = fmd
        authority = (embedded nvlist)
        nvlist version: 0
            version = 0x0
            product-id = SUNW,SPARC-Enterprise
            chassis-id = BF0000001V
            server-id = localhost
        (end authority)
        mod-name = sde
        mod-version = 1.13
    (end de)
    fault-list-sz = 0x1
    fault-list = (array of embedded nvlists)
    (start fault-list[0])
    nvlist version: 0
        version = 0x0
        class = fault.io.iox.cp.seeprom
        certainty = 0x64
        fru = (embedded nvlist)
        nvlist version: 0
            scheme = hc
            version = 0x0
            hc-root =
            hc-list-sz = 0x1
            hc-list = (array of embedded nvlists)
            (start hc-list[0])
            nvlist version: 0
                hc-name = iox
                hc-id = 0
            (end hc-list[0])
        (end fru)
    (end fault-list[0])

```


EXAMPLE 5 Displaying Contents of the Fault Manager syslog Message

```

XSCF> fmdump -m -M
MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor
EVENT-TIME: Tue Nov  7 07:01:44 PST 2006
PLATFORM: SUNW,SPARC-Enterprise, CSN: 7860000764, HOSTNAME: san-ff2-20-0
SOURCE: sde, REV: 1.5
EVENT-ID: 2daddee0-2f42-47ee-b5b2-57ae6a41bfc0
DESC: A Solaris Fault Manager component generated a diagnosis for which
no message summary exists. Refer to http://www.sun.com/msg/FMD-8000-11
for more information.
AUTO-RESPONSE: The diagnosis has been saved in the fault log for
examination by Sun.
IMPACT: The fault log will need to be manually examined using fmdump(1M)
in order to determine if any human response is required.

MSG-ID: FMD-8000-11, TYPE: Defect, VER: 1, SEVERITY: Minor
EVENT-TIME: Tue Nov  7 07:03:25 PST 2006
PLATFORM: SUNW,SPARC-Enterprise, CSN: 7860000764, HOSTNAME: san-ff2-20-0
SOURCE: sde, REV: 1.5
EVENT-ID: 2b03ab60-96db-439d-a13a-2f420a1b73c7
DESC: A Solaris Fault Manager component generated a diagnosis for which
no message summary exists. Refer to http://www.sun.com/msg/FMD-8000-11
for more information.
AUTO-RESPONSE: The diagnosis has been saved in the fault log for
examination by Sun.
IMPACT: The fault log will need to be manually examined using fmdump(1M)
in order to determine if any human response is required.

```

EXIT STATUS

The following exit values are returned:

- | | |
|----|--|
| 0 | Successful completion. All records in the log file were examined successfully. |
| >0 | An error occurred. |

SEE ALSO

fmadm(8), **fmstat**(8)

fmdump(8)



NAME	fmstat - report fault management module statistics																
SYNOPSIS	<p>fmstat</p> <p>fmstat [-a] [[-s] [-z] [-m <i>module</i>]] [<i>interval</i> [<i>count</i>]]</p> <p>fmstat -h</p>																
DESCRIPTION	<p>The <code>fmstat</code> utility can be used by administrators and service personnel to report statistics associated with the Fault Manager (fault manager daemon), and its associated set of modules. The Fault Manager runs in the background on each OPL system. It receives telemetry information relating to problems detected by the system software, diagnoses these problems, and initiates proactive self-healing activities such as disabling faulty components.</p> <p>You can use <code>fmstat</code> to view statistics for diagnosis engines and agents that are currently participating in fault management. The <code>fmadm(8)</code>, and <code>fmdump(8)</code> man pages describe more about tools to observe fault management activities.</p> <p>If the <code>-m</code> option is present, <code>fmstat</code> reports any statistics kept by the specified fault management module. The module list can be obtained using <code>fmadm config</code>.</p> <p>If the <code>-m</code> option is not present, <code>fmstat</code> reports the following statistics for each of its client modules:</p> <table> <tr> <td>module</td><td>The name of the fault management module as reported by <code>fmadm config</code>.</td></tr> <tr> <td>ev_recv</td><td>The number of telemetry events received by the module.</td></tr> <tr> <td>ev_acpt</td><td>The number of events accepted by the module as relevant to a diagnosis.</td></tr> <tr> <td>wait</td><td>The average number of telemetry events waiting to be examined by the module.</td></tr> <tr> <td>svc_t</td><td>The average service time for telemetry events received by the module, in milliseconds.</td></tr> <tr> <td>%w</td><td>The percentage of time that there were telemetry events waiting to be examined by the module.</td></tr> <tr> <td>%b</td><td>The percentage of time that the module was busy processing telemetry events.</td></tr> <tr> <td>open</td><td>The number of active cases (open problem investigations) owned by the module.</td></tr> </table>	module	The name of the fault management module as reported by <code>fmadm config</code> .	ev_recv	The number of telemetry events received by the module.	ev_acpt	The number of events accepted by the module as relevant to a diagnosis.	wait	The average number of telemetry events waiting to be examined by the module.	svc_t	The average service time for telemetry events received by the module, in milliseconds.	%w	The percentage of time that there were telemetry events waiting to be examined by the module.	%b	The percentage of time that the module was busy processing telemetry events.	open	The number of active cases (open problem investigations) owned by the module.
module	The name of the fault management module as reported by <code>fmadm config</code> .																
ev_recv	The number of telemetry events received by the module.																
ev_acpt	The number of events accepted by the module as relevant to a diagnosis.																
wait	The average number of telemetry events waiting to be examined by the module.																
svc_t	The average service time for telemetry events received by the module, in milliseconds.																
%w	The percentage of time that there were telemetry events waiting to be examined by the module.																
%b	The percentage of time that the module was busy processing telemetry events.																
open	The number of active cases (open problem investigations) owned by the module.																

solve	The total number of cases solved by this module since it was loaded.
memsz	The amount of dynamic memory currently allocated by this module.
bufsz	The amount of persistent buffer space currently allocated by this module.

Privileges You must have platadm, platop, or fieldeng privileges to run this command.
Refer to setprivileges(8) for more information.

OPTIONS The following options are supported.

- a Prints the default global statistics for the Fault Manager or a module. If used without the -m *module* option, the default global Fault Manager statistics are displayed. If used with the -m *module* option, the global statistics for a module are displayed.
- h Displays usage statement.

When used with other options or operands, an error occurs.
- m *module* Prints a report on the statistics associated with the specified fault management module, instead of the default statistics report.

Modules can publish an arbitrary set of statistics to help service the fault management software itself.

If used without the -a option, displays only those statistics kept by the module. If used with the -a option, displays statistics kept by the module and the global statistics associated with the module.
- s Prints a report on Soft Error Rate Discrimination (SERD) engines associated with the module instead of the default module statistics report. A SERD engine is a construct used by fault management software to determine if a statistical threshold measured as *N* events in some time *T* has been exceeded. The -s option can only be used in combination with the -m option.
- z Omits statistics with a zero value from the report associated with the specified fault management module. The -z option can only be used in combination with the -m option.

OPERANDS The following operands are supported:

count Print only *count* reports, and then exit.

interval Print a new report every *interval* seconds.

If neither *count* nor *interval* is specified, a single report is printed and fmstat exits.

If an *interval* is specified but no *count* is specified, fmstat prints reports every *interval* seconds indefinitely until the command is interrupted by Control-C.

EXAMPLES

EXAMPLE 1 Displaying FM Statistics for the Syslog Module

```
XSCF> fmstat -a -m syslog-msgs
NAME VALUE DESCRIPTION
bad_code 0 event code has no dictionary name
bad_fmri 0 event fmri is missing or invalid
bad_time 0 event time is not properly encoded
bad_vers 0 event version is missing or invalid
fmd.accepted 0 total events accepted by module
fmd.buflimit 10M limit on total buffer space
fmd.buftotal 0 total buffer space used by module
fmd.caseclosed 0 total cases closed by module
fmd.caseopen 0 cases currently open by module
fmd.casesolved 0 total cases solved by module
fmd.ckptcnt 0 number of checkpoints taken
fmd.ckptrestore true restore checkpoints for module
fmd.ckptsave true save checkpoints for module
fmd.ckpttime 0d total checkpoint time
fmd.ckptzero false zeroed checkpoint at startup
fmd.debugdrop 4 dropped debug messages
fmd.dequeued 1 total events dequeued by module
fmd.dispatched 1 total events dispatched to module
fmd.dlastupdate 1144424838299131us hrtime of last event dequeue
completion
fmd.dropped 0 total events dropped on queue overflow
fmd.dtime 0d total processing time after dequeue
fmd.loadtime 1144424251692484us hrtime at which module was loaded
fmd.memlimit 10M limit on total memory allocated
fmd.memtotal 97b total memory allocated by module
fmd.prdequeued 0 protocol events dequeued by module
fmd.snaptime 1144424838299148us hrtime of last statistics snapshot
fmd.thrlimit 8 limit on number of auxiliary threads
fmd.thrtotal 0 total number of auxiliary threads
fmd.wcnt 0 count of events waiting on queue
fmd.wlastupdate 1144424838299131us hrtime of last wait queue update
fmd.wlentime 30us total wait length * time product
fmd.wtime 30us total wait time on queue
fmd.xprtlimit 256 limit on number of open transports
fmd.xprtopen 0 total number of open transports
fmd.xprtqlimit 256 limit on transport event queue length
log_err 0 failed to log message to log(7D)
msg_err 0 failed to log message to syslog(7D)
no_msg 0 message logging suppressed
```

```
XSCF> fmstat
module          ev_rcv ev_acpt wait  svc_t  %w  %b  open solve  memsz
bufsz
case-close      0      0 0.0   0.0   0  0   0   0    0
fmd-self-diagnosis 1      1 0.0   0.2   0  0   1   0   27b  0
sysevent-transport 0      0 0.0  573.2 0  0   0   0    0  0
syslog-msgs     0      0 0.0   0.0   0  0   0   0   97b  0
```

EXAMPLE 2 Displaying FM Statistics for fmd Self-Diagnosis Module

```
XSCF> fmstat -z -m fmd-self-diagnosis
NAME VALUE          DESCRIPTION
module 1            error events received from fmd modules
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO `fmadm(8)`, `fmdump(8)`

NAME	ioxadm - manage External I/O Expansion Units								
SYNOPSIS	<p>ioxadm [-f] [-p] [-v] [-M] env [-e] [-l] [-t] [<i>target</i> [<i>sensors</i>]]</p> <p>ioxadm [-f] [-p] [-v] [-M] list [<i>target</i>]</p> <p>ioxadm [-f] [-p] [-v] [-M] locator [on off] [<i>target</i>]</p> <p>ioxadm [-f] [-p] [-v] [-M] poweroff <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] poweron <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] reset <i>target</i></p> <p>ioxadm [-f] [-p] [-v] [-M] settled [on off slow fast] <i>target</i> <i>led_type</i></p> <p>ioxadm -h</p>								
DESCRIPTION	<p>ioxadm(8) manages External I/O Expansion Units and link cards attached to the system.</p> <p>For this utility, an operand with parameters and a target device must both be specified. The target device can be a downlink card mounted in a built-in PCI slot in the host system; an External I/O Expansion Unit; or a field replaceable unit (FRU) in an External I/O Expansion Unit. The downlink card is identified by a string which identifies the host path to the card. An uplink card is a FRU in the I/O boat.</p>								
Privileges	<p>You must have one of the following privileges to run these commands:</p> <table><tr><th>Required Privileges</th><th>Commands</th></tr><tr><td>platop</td><td>env, list</td></tr><tr><td>platadm</td><td>locator, poweroff, poweron</td></tr><tr><td>fieldeng</td><td>reset, settled</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	Required Privileges	Commands	platop	env, list	platadm	locator, poweroff, poweron	fieldeng	reset, settled
Required Privileges	Commands								
platop	env, list								
platadm	locator, poweroff, poweron								
fieldeng	reset, settled								
OPTIONS	<p>The following options are supported.</p> <p>-f Forces command execution by ignoring warnings.</p> <p>-h Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p>								

- M Displays text by page. This option provides a function that is the same as that of the `more` command.
- p Parsable output. Suppresses headers in display output. Fields are separated by single tabs.
- v Specifies verbose output. Refer to specific operands for details.

OPERANDS

The following operands are supported:

`env [-elt] [target [sensors]]`

Displays a summary of an External I/O Expansion Unit or link card's environmental state.

■ -e

Displays electrical states: measured voltage, current, fan speed, switch settings.

■ -l

Displays LED states.

■ -t

Displays thermal readings.

If no *target* is specified, *env* displays a list of all sensors for all External I/O Expansion Units.

If *target* specifies a *box_id*, *env* displays a list of sensor readings for all frus in the specified External I/O Expansion Unit and the attached downlink cards.

If *target* is in the form of *box_id* followed by *fru*, then only environmentals from that FRU will be printed. If an optional value for *sensors* is specified, then only those types of sensors are displayed. These options may be used concurrently.

If *target* is in the form of a *host path*, only the downlink card information is displayed. See EXAMPLE 2.

The results are listed in tabular format. Each FRU sensor is listed in the first column. In the next column is the sensor name, such as `T_AMBIENT` for ambient temperature, or `V_12V_0V` for the voltage reading of the 12V rail. The third, fourth, and fifth columns display the sensor reading (Value), sensor resolution (Res), and Units, respectively. See EXAMPLE 1.

Each FRU can have a variety of different sensors. When specifying multiple values for *sensors*, use spaces to separate the values. Possible values for *sensors* can be seen in the *Sensor* column of EXAMPLE 1. Units are given in Celsius degrees, Volts, Amperes, SWITCH and RPM.

The *sensors* names are FRU-dependent and may change from FRU type to FRU type and even among individual FRUs.

If the `-v` option is set, verbose output is displayed. In addition to the regular output, the output also includes: the maximum and minimum values supported by the sensors (*Max* and *Min*), along with the low and high warning thresholds (*Min Alarm* and *Max Alarm*).

LED indicators do not support these fields.

(*cont'd*)

Fields containing a dash (-) indicate an unsupported setting. For example, there may be no minimum temperature alarm threshold.

led_type

Used with the `setled` operand, specifies a software-controlled FRU LED. The following table indicates which LED states can be controlled using the `setled` operand with the `off`, `on`, `fast`, and `slow` LED state settings. Y (yes) indicates that the LED can be controlled, N (no) indicates that it cannot be controlled.

LED	off	on	fast	slow
ACTIVE	Y	Y	Y	Y
LOCATE	Y	N	Y	N
SERVICE	Y	Y	Y	Y
RDY2RM	Y	Y	Y	Y
OVERTEMP	*	*	*	*
DCOK	N	N	N	N
POWER	N	N	N	N
DATA	N	N	N	N
MGMT	N	N	N	N

* The `OVERTEMP` LED may be set to each state. However, the hardware updates the LED state based on the sampled temperatures, so changes to the LED state may not be visible.

Note – Other LEDs are not under software control. A list of LEDs present in the system can be displayed by using the `env -l` operand.

`list` [*target*]

Lists the External I/O Expansion Units under system management.

If no *target* is specified, `list` displays a list of External I/O Expansion Units, one per line. Each line contains the unique identifier for that box and the host-specific name(s) for its downlink card(s). See EXAMPLE 3.

If an External I/O Expansion Unit argument or downlink card path is specified, the command displays a single line with the indicated FRU. If a *host path* is specified, only the downlink card information is displayed. See EXAMPLE 4 and EXAMPLE 6.

If the verbose option is set [`-v`], the output includes detailed FRU information. See EXAMPLE 5.

`locator` [`on` | `off`] [*target*]

Sets or queries the state of the locator indicator (LED).

Without options, `locator` reports the current state of the LED on the specified FRU.

If no *target* is specified, `locator` returns the current state of all locator LEDs.

A *target* argument is required when using the option fields:

`on`

Turns the LED on.

`off`

Turns the LED off.

The chassis locator is a white LED. If a FRU is specified, the FRU yellow service LED is used along with the chassis (locator) LED.

Only one FRU can have a location indicator enabled at a time in an External I/O Expansion Unit chassis. Turning off the chassis (locator) LED will also turn off the blinking (service) FRU LED.

poweroff target

Powers down the given FRU and lights appropriate LEDs to indicate the FRU is ready to remove. Must be used with the `-f` option. Be aware that using `-f` can crash the domain.

Do not remove both power supply units (PSUs) in the same External I/O Expansion Unit. If both PSUs are powered down in this way, then the External I/O Expansion Unit cannot be turned back on from the command line. It must be powered on physically.

Note – When a power supply is powered off, the LEDs and fan may still run since they receive power from both supplies.

poweron target

Restores full power to an I/O boat or reenables output from the power supply (PS) that has previously been marked ready-to-remove. When a PSU is newly installed and the power switch is in the on position, or a boat is connected to a powered link card, they automatically power themselves on. However, this command can be used to power a PSU or I/O boat back on that previously had been powered down for removal as long as the power switch is in the on position.

reset target

Reinitializes FRU components used to monitor External I/O Expansion Unit environmental. If a boat or link card is specified, the bridge controllers in the link cards are reset and re-initialized. If a box is specified, the fan controller and demux in the box are reset and re-initialized along with all bridge controllers associated with the External I/O Expansion Unit.

setled [on|off|slow|fast] *target led_type*

Sets LED state:

off	Off.
on	On.
fast	Fast blink.
slow	Slow blink.

Refer to the entry for *led_type* in this section for detailed information about LED types.

target

Specifies the target device which can be a downlink card in a host slot, an External I/O Expansion Unit, or a FRU in an External I/O Expansion Unit.

The downlink card is identified by the *hostpath* to the card.

hostpath is platform dependent and indicates the path to the slot on the host system which contains the downlink card. On SPARC Enterprise M4000/M5000/M8000/M9000 servers, the *hostpath* has the following format:

```
IOU#0-PCI#0 IO Board 0, PCI-E slot0
```

The External I/O Expansion Unit (*box_id*) is identified by serial number.

Use *iox@nnnn*, where *nnnn* represents the last four digits of the box serial number.

Some commands affect only a single component of an External I/O Expansion Unit system. For example, individual boats and power supplies may be turned on and turned off independently.

A FRU in an External I/O Expansion Unit (*fru*) is identified as:

```
iox@nnnn/iob0 – I/O boat in the left tray (rear view)
```

```
iox@nnnn/iob1 – I/O boat in the right tray (rear view)
```

```
iox@nnnn/iob0/link – Uplink card in boat 0
```

```
iox@nnnn/iob1/link – Uplink card in boat 1
```

```
iox@nnnn/ps0 – Power supply in the left bay (front view)
```

```
iox@nnnn/ps1 – Power supply in the right bay (front view)
```

EXAMPLES

EXAMPLE 1 Displaying Temperature, Voltage, Current, and Fanspeed Sensor Readings

```
XSCF> ioxadm env -te iox@A3B5
```

Location	Sensor	Value	Res	Units
IOX@A3B5/PS0	T_AMBIENT	28.000	1.000	C
IOX@A3B5/PS0	T_CHIP	28.000	1.000	C
IOX@A3B5/PS0	T_HOTSPOT	31.000	1.000	C
IOX@A3B5/PS0	SWITCH	On	-	SWITCH
IOX@A3B5/PS0	V_12V_ANODE	11.703	0.059	V
IOX@A3B5/PS0	V_12V_CATHODE	11.703	0.059	V
IOX@A3B5/PS0	V_ISHARE	0.632	0.040	V
IOX@A3B5/PS0	I_DC	2.316	0.289	A
IOX@A3B5/PS0	S_FAN_ACTUAL	3708.791	40.313	RPM
IOX@A3B5/PS0	S_FAN_SET	4500.000	300.000	RPM
IOX@A3B5/PS1	T_AMBIENT	28.000	1.000	C
IOX@A3B5/PS1	T_CHIP	29.000	1.000	C
IOX@A3B5/PS1	T_HOTSPOT	31.000	1.000	C
IOX@A3B5/PS1	SWITCH	On	-	SWITCH
IOX@A3B5/PS1	V_12V_ANODE	11.762	0.059	V
IOX@A3B5/PS1	V_12V_CATHODE	11.762	0.059	V
IOX@A3B5/PS1	V_ISHARE	0.672	0.040	V
IOX@A3B5/PS1	I_DC	5.211	0.289	A
IOX@A3B5/PS1	S_FAN_ACTUAL	4115.854	49.588	RPM
IOX@A3B5/PS1	S_FAN_SET	4500.000	300.000	RPM
IOX@A3B5/IOB0	T_CHIP	32.000	1.000	C
IOX@A3B5/IOB0	T_HOTSPOT	35.000	1.000	C
IOX@A3B5/IOB1	T_CHIP	33.000	1.000	C
IOX@A3B5/IOB1	T_HOTSPOT	36.000	1.000	C
IOX@A3B5/IOB1	V_12_0V	12.052	0.005	V
IOX@A3B5/IOB1	V_12V_MAIN	12.000	0.400	V
IOX@A3B5/IOB1	V_1_0V	1.030	0.001	V
IOX@A3B5/IOB1	V_1_5V	1.496	0.001	V
IOX@A3B5/IOB1	V_3_3V	3.291	0.002	V
IOX@A3B5/IOB1	V_3_3AUX	3.308	0.002	V
IOX@A3B5/IOB1	I_DC	8.600	0.200	A
IOX@A3B5/IOB1/LINK	T_SIGCON0	45.000	40.000	C
IOX@A3B5/IOB1/LINK	T_SIGCON1	45.000	40.000	C
IOU#1-PCI#1	T_SIGCON0	45.000	40.000	C
IOU#1-PCI#1	T_SIGCON1	45.000	40.000	C

EXAMPLE 2 Display All Sensor Readings on a Link and Suppressing Headers

```
XSCF> ioxadm -p env iou#1-pci#1
```

IOU#1-PCI#1	T_SIGCON0	45.000	40.000	C
IOU#1-PCI#1	T_SIGCON1	45.000	40.000	C
IOU#1-PCI#1	DATA	On	-	LED
IOU#1-PCI#1	MGMT	Flash	-	LED

EXAMPLE 3 Display All External I/O Expansion Units or Downlink Card Paths

```
XSCF> ioxadm list
```

IOX	Link 0	Link 1
IOX@0033	IOU#1-PCIE#4	IOU#1-PCIE#1
IOX@12B4	-	IOU#1-PCIE#2
-	IOU#2-PCIE#1	

In EXAMPLE 3, the `list` command is used to display the connections between External I/O Expansion Units and downlink cards in the host. IOX@0033 (which includes boats, uplink cards, and power supplies) is connected to the host through two downlink cards. The `Link 0` column shows which host downlink card is attached to `boat0`. The `Link 1` column shows which host downlink card is attached to `boat1`. IOX@12B4 is connected to the host through one downlink card. This card is connected to `boat1`. A dash (-) shows that there is no host link connection to the box. It may have a boat and uplink card installed in the bay, or the bay could be empty. If the boat is installed, either it is not connected to the host, or the host downlink card slot is powered off.

EXAMPLE 4 Displaying a Single External I/O Expansion Unit

```
XSCF> ioxadm list iox@12B4
IOX                Link 0                Link 1
IOX@12B4           -                    IOU#1-PCIE#2
```

EXAMPLE 5 Displaying a Single External I/O Expansion Unit Using Verbose Output

```
XSCF> ioxadm -v list IOU#1-PCI#1
Location          Type      FW Ver  Serial Num Part Num  State
IOX@A3B5          IOX       1.4    CP0001    5016937-01 On
IOX@A3B5/PS0      A195     -      PS0001    3001701-02 On
IOX@A3B5/PS1      A195     -      PS0001    3001701-02 On
IOX@A3B5/IOB1     PCIE      -      PCIE01    5016939-01 On
IOX@A3B5/IOB1/LINK CU        1.2    CU0001    5017041-03 On
IOU#1-PCI#1       CU        1.2    CU0001    5017041-03 On
```

EXAMPLE 6 Displaying a Downlink Card Using Hostpath in Verbose Mode With Headers Suppressed

```
XSCF> ioxadm -p -v list IOU#2-PCIE#1
IOU#2-PCIE#1  OP      1.1    IL0542    5404321-01  on
```

EXAMPLE 7 Powering On the Locator LED for Power Supply 0 in External I/O Expansion Unit 12B4

```
XSCF> ioxadm locator on iox@12B4/ps0
```

EXAMPLE 8 Displaying Locator LED Status for the External I/O Expansion Unit

```
XSCF> ioxadm locator iox@12B4
Location          Sensor      Value      Resolution Units
IOX@12B4          LOCATE      Fast       -          LED
IOX@12B4/PS0      SERVICE     Fast       -          LED
```

If the FRU service indicator is already on due to a detected fault condition, only the box locator LED will be set to fast.

EXAMPLE 9 Enabling the Indicator for Power Supply 0 When Power Supply 0 Has a Fault Indication

```
XSCF> ioxadm locator on iox@x031/ps1
XSCF> ioxadm locator
Location      Sensor      Value Resolution Units
IOX@X031      LOCATE      Fast         - LED
XSCF> ioxadm env -1 iox@x031/ps1 SERVICE
Location      Sensor      Value Resolution Units
IOX@X031/PS1  SERVICE      On           - LED
```

The External I/O Expansion Unit chassis white LED has an integrated push button. The button can be used to toggle the state of the chassis white locator LED between off and fast. If the push button is used to turn off the locator LED, fast blink FRU service LEDs are cleared.

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

NAME	man - display manual pages of specified XSCF shell command										
SYNOPSIS	man <i>command_name</i> ... man -h										
DESCRIPTION	man(1) displays manual pages of specified XSCF shell command.										
Privileges	No privileges are required to run this command. Refer to setprivileges(8) for more information.										
OPTIONS	The following option is supported; -h Displays usage statement. When used with other options or operands, an error occurs.										
OPERANDS	The following operand is supported: <i>command_name</i> Specifies the command name whose manual page is displayed. Multiple <i>command_name</i> can be specified by delimited the spaces.										
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ If the relevant manual page is too long, the page is divided into pages that each can fit on one screen. In such cases, the following key operations are available:<table><tr><th>Key</th><th>Description</th></tr><tr><td>Enter</td><td>Displays the next line.</td></tr><tr><td>space</td><td>Displays the next page.</td></tr><tr><td>b</td><td>Goes back half a page.</td></tr><tr><td>q</td><td>Quits display of the page in the manual.</td></tr></table>■ If intro is specified for <i>command_name</i>, a list of XSCF shell commands is displayed.	Key	Description	Enter	Displays the next line.	space	Displays the next page.	b	Goes back half a page.	q	Quits display of the page in the manual.
Key	Description										
Enter	Displays the next line.										
space	Displays the next page.										
b	Goes back half a page.										
q	Quits display of the page in the manual.										
EXAMPLES	EXAMPLE 1 Displays the manual page of the addboard(8) command. XSCF> man addboard EXAMPLE 2 Displays a list of XSCF shell commands. XSCF> man intro										

EXIT STATUS

The following exit values are returned:

0	Successful completion
>0	An error occurred.

NAME	moveboard - move an eXtended System Board (XSB) from the current domain to another						
SYNOPSIS	<pre> moveboard [[-q] [-{y n}] [-f] [-v] [-c configure] -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>] moveboard [[-q] [-{y n}] [-f] [-v] -c assign -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>] moveboard [[-q] [-{y n}] [-f] [-v] -c reserve -d <i>domain_id</i> <i>xsb</i> [<i>xsb...</i>] moveboard -h </pre>						
DESCRIPTION	<p>The <code>moveboard(8)</code> command disconnects a XSB from the current domain and, based on the domain component list (DCL), assigns it to, or configures it in, the specified domain.</p> <p>One of the following movement methods can be specified:</p> <table> <tr> <td><code>configure</code></td><td>Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the operating system.</td></tr> <tr> <td><code>assign</code></td><td>Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the <code>addboard(8)</code> command with <code>-c configure</code>.</td></tr> <tr> <td><code>reserve</code></td><td>Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.</td></tr> </table>	<code>configure</code>	Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the operating system.	<code>assign</code>	Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the <code>addboard(8)</code> command with <code>-c configure</code> .	<code>reserve</code>	Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.
<code>configure</code>	Disconnects a configured XSB from its domain configuration and configures it into the specified destination domain configuration. The incorporated XSB can be accessed from the operating system.						
<code>assign</code>	Disconnects a configured XSB from its domain configuration and assigns it to the specified destination domain configuration. The assigned XSB is reserved for the specified domain and cannot be configured in or assigned to other domains. The assigned system board is configured in the domain by reboot the domain or execution of the <code>addboard(8)</code> command with <code>-c configure</code> .						
<code>reserve</code>	Reserves disconnection of the specified XSB from the domain configuration of the move source, and reserves assignment of the XSB to the domain configuration of the move destination. The XSB is assigned to the domain configuration of the move destination when the domain power of the move source is turned off or rebooted. The XSB is subsequently incorporated when the domain power of the move destination is turned on or rebooted.						
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td><code>platadm</code></td><td>Can run this command for all domains.</td></tr> <tr> <td><code>domainadm</code></td><td>Can run this command only for your managed domains.</td></tr> </table> <p>Note – You must have the <code>domainadm</code> privileges for both of source domain and destination domain to run <code>moveboard(8)</code> command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>	<code>platadm</code>	Can run this command for all domains.	<code>domainadm</code>	Can run this command only for your managed domains.		
<code>platadm</code>	Can run this command for all domains.						
<code>domainadm</code>	Can run this command only for your managed domains.						

OPTIONS

The following options are supported:

- c assign Disconnects a configured XSB from its domain configuration and assigns it to the domain configuration of the move destination. If the -c option is omitted, '-c configure' is used.
- c configure Disconnects a configured XSB from its domain configuration and configures it in the domain configuration of the move destination. If the -c option is omitted, '-c configure' is used.
- c reserve Reserves disconnection of an XSB from its current domain configuration, and reserves assignment of the XSB to the domain configuration of the move destination. If the -c option is omitted, '-c configure' is used.
- d *domain_id* Specifies the ID of the destination domain in which an XSB is to be configured or to which it is to be assigned. *domain_id* can be 0–23 depending on the system configuration.
- f Forcibly detaches the specified XSB.

Note – If the -f option is used to forcibly remove the XSB from the source domain, a serious problem may occur in a process bound to CPU or process accessing a device. For this reason, use of the -f option is not recommended in normal operation. If the -f option must be specified, verify the statuses of the source domain and job processes.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- v Specifies verbose output. If this option is specified with the -q option, the -v option is ignored.
- y Automatically answers 'y' (yes) to all prompts.

OPERANDS The following operand is supported:

xsb Specifies the XSB number to be moved. Multiple *xsb* operands are permitted, separated by spaces. The following *xsb* form is accepted:

$x-y$

where:

x An integer from 00–15.

y An integer from 0–3.

**EXTENDED
DESCRIPTION**

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- If '-c configure' is specified when either of the following conditions apply to the domains, the XSB is configured in the domain configuration:
 - The operating systems of both the source and destination domains are running.
 - The operating system of the destination domain is running even though the source domain is powered off.
- If '-c assign' is specified when either of the following conditions apply to the domains, the XSB is assigned to the domain configuration:
 - The operating system of the source domain is running.
 - The source domain is powered off
- If '-c reserve' is specified when either the domain power of the move source has been turned off or the operating system is not running, the XSB is immediately disconnected from the domain of the move source and assigned to the domain of the move destination
- Moving the XSB involves the following internal operations and therefore command execution may take time.
 - Disconnecting the hardware resource of the system board from the operating system
 - Running a hardware diagnosis on the system board when connecting it
- See the `setdcl(8)` and `showdcl(8)` commands for DCL.

EXAMPLES

EXAMPLE 1 Disconnects XSB#00-0 from the current domain and attaches it to domain ID 1.

```
XSCF> moveboard -d 1 00-0
```

EXAMPLE 2 Reserves assignment of the XSB#00-0 to the domain ID 1.

```
XSCF> moveboard -d 1 -c reserve 00-0
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.


SEE ALSO

addboard (8), deleteboard (8), setdcl (8), setupfru (8), showboards (8), showdcl (8), showdevices (8), showdomainstatus (8), showfru (8)

NAME	nslookup - refer to the DNS server for the host								
SYNOPSIS	nslookup <i>hostname</i> nslookup -h								
DESCRIPTION	<p>nslookup(8) refers to the DNS server for the host.</p> <p>The following information is displayed:</p> <table><tr><td>Server</td><td>DNS server name</td></tr><tr><td>Address</td><td>IP address of DNS server</td></tr><tr><td>Name</td><td>Specified host name</td></tr><tr><td>Address</td><td>IP address of the host name</td></tr></table>	Server	DNS server name	Address	IP address of DNS server	Name	Specified host name	Address	IP address of the host name
Server	DNS server name								
Address	IP address of DNS server								
Name	Specified host name								
Address	IP address of the host name								
Privileges	<p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.						
-h	Displays usage statement. When used with other options or operands, an error occurs.								
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>hostname</i></td><td>Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.</td></tr></table>	<i>hostname</i>	Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.						
<i>hostname</i>	Specifies the host name to be referred. A Fully Qualified Domain Name (FQDN) or a short form of the name can be specified.								
EXAMPLES	<p>EXAMPLE 1 Displays the host whose host name is scf0_hostname0.</p> <pre>XSCF> nslookup scf0_hostname0 Server: server.example.com Address: xx.xx.xx.xx Name: scf0_hostname0.example.com Address: xx.xx.xx.xx</pre>								
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.				
0	Successful completion.								
>0	An error occurred.								

nslookup(8)



NAME	password - manage user passwords and expiration settings								
SYNOPSIS	<p>password</p> <p>password [-e <i>days</i> <i>date</i> Never] [-i <i>inactive</i>] [-M <i>maxdays</i>] [-n <i>mindays</i>] [-w <i>warn</i>] [<i>user</i>]</p> <p>password -h</p>								
DESCRIPTION	<p>password (8) changes a user's password and password expiration settings.</p> <p>When invoked with one or more options, password will make changes to the expiration settings of the account. See setpasswordpolicy(8) for a description of default values.</p> <p>When invoked without options, password prompts you to change the account password.</p> <p>When invoked without a <i>user</i> operand, password operates on the current user account.</p> <div><p>Caution – When you change the password for another user by using the <i>user</i> operand, the system password policy is <i>not</i> enforced. The <i>user</i> operand is intended only for creating a new user's initial password or replacing a lost or forgotten password for a user account. When changing another user's password, be sure to choose a password that conforms with the system password policy. You can display the current password policy settings with the showpasswordpolicy(8) command.</p></div> <p>Whether the user name is specified or not, the account must be local. password returns an error if it is not local.</p>								
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td>None required</td><td>No privileges are required:</td></tr><tr><td></td><td>■ To change the password for the current user account</td></tr><tr><td></td><td>■ To use the -h option</td></tr><tr><td>useradm</td><td>Can run this command with or without any options or operand. Can change the password for any account.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>	None required	No privileges are required:		■ To change the password for the current user account		■ To use the -h option	useradm	Can run this command with or without any options or operand. Can change the password for any account.
None required	No privileges are required:								
	■ To change the password for the current user account								
	■ To use the -h option								
useradm	Can run this command with or without any options or operand. Can change the password for any account.								

OPTIONS	<p>The following options are supported</p> <p>-e <i>days</i> <i>date</i> Never Sets the number of days, starting from today, during which the XSCF account is enabled. Otherwise, it sets the date when the account expires.</p> <p>The date format can be <i>yyyy-mm-dd</i>.</p> <p>Never (or its equivalent in the language of the system locale) means an account will never expire. It is case insensitive.</p> <p>-h Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p> <p>-i <i>inactive</i> Sets the number of days after a password expires until the account is locked. This value is assigned to new user accounts when they are created. The initial value is -1. A value of -1 means that the account will not be locked after the password expires. Valid values are integers with value of -1 or greater.</p> <p>-M <i>maxdays</i> Sets the maximum number of days that a password is valid. This value is assigned to new user accounts when they are created. The initial value is 999999.</p> <p>Valid values are integers with value of zero or greater.</p> <p>-n <i>mindays</i> Sets the minimum number of days between password changes. An initial value of zero for this field indicates that you can change the password at any time.</p> <p>Valid values are integers with value of zero or greater.</p> <p>This value is assigned to new user accounts when they are created.</p> <p>-w <i>warn</i> Sets the default number of days before password expiration at which to start warning the user. This value is assigned to new user accounts when they are created. The initial value is 7.</p> <p>Valid values are integers with value of zero or greater.</p>
OPERANDS	<p>The following operand is supported:</p> <p><i>user</i> Specifies a valid user name.</p>

EXAMPLES	EXAMPLE 1 Enabling Password Until February 2, 2008 XSCF> password -e 2008-02-02
	EXAMPLE 2 Set Password Lock 10 Days After Password Expiration XSCF> password -i 10
EXIT STATUS	The following exit values are returned: 0 Successful completion. >0 An error occurred.
SEE ALSO	setpasswordpolicy (8), showpasswordpolicy (8)

password(8)

NAME	poweroff - turn off the power to the specified domain
SYNOPSIS	<p>poweroff [[-q] [-y n]] [-f] [-M] -d <i>domain_id</i></p> <p>poweroff [[-q] [-y n]] -a [-M]</p> <p>poweroff -h</p>
DESCRIPTION	<p>The <code>poweroff(8)</code> command turns off the power to the specified domain.</p> <p>The command can turn off the power to the specified domain or to all domains. After ordinary shutdown processing for the operating system is executed, the power is turned off.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <p><code>platadm, fieldeng</code> Can run this command for all domains.</p> <p><code>domainadm, domainmgr</code> Can run this command only for your managed domains.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-a Turns off the power to all domains. Only users who have the <code>platadm</code> and <code>fieldeng</code> privileges can specify this option.</p> <p>-d <i>domain_id</i> Specifies the ID of the domain to be turned off. <i>domain_id</i> can be 0-23 depending on the system configuration.</p> <p>-f Uses XSCF to forcibly turn off the power to the specified domain. This option is used together with the <code>-d</code> option.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-M Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.</p> <p>-n Automatically answers 'n' (no) to all prompts.</p> <p>-q Suppresses all messages to stdout, including prompts.</p> <p>-y Automatically answers 'y' (yes) to all prompts.</p>
EXTENDED DESCRIPTION	<ul style="list-style-type: none"> ■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- If the operating system of the target domain is running, the `poweroff(8)` command processing is equivalent to that of the `shutdown(1M)` command with the `"-i5"` option specified.
- A domain cannot be powered off while the operating system of the domain is booting. Execute the `poweroff(8)` command again after the booting is completed.
- A domain cannot be powered off by the `poweroff(8)` command while the operating system of the domain is running in single-user mode. Execute the `shutdown(1M)` command in the domain.
- When the `poweroff(8)` command is executed, power-off results for each of the specified domains are displayed in the following format:

Powered off The power was turned off normally.

Not Powering off An error occurred, and the power could not be turned off. An error message is displayed with 'Not Powering off.'

- The `showdomainstatus(8)` command can be used to check whether the system power is off.

EXAMPLES

EXAMPLE 1 Turns off power to all domains.

```
XSCF> poweroff -a
DomainIDs to power off:00,01,02,03
Continue? [y|n]:y
00:Powering off
01:Powering off
02:Powering off
03:Powering off

*Note*
This command only issues the instruction to power-off.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 2 Turns off power to domains with domain IDs 0.

```
XSCF> poweroff -d 0
DomainIDs to power off:00
Continue? [y|n]:y
00:Powering off

*Note*
This command only issues the instruction to power-off.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 3 Turns off power to domains with domain IDs 1. An error occurs because the user has no control privilege.

```
XSCF> poweroff -d 1
DomainIDs to power off:01
Continue? [y|n]:y
01:Not powering off:Permission denied.
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 4 Forcibly turns off power to domains with domain IDs 0.

```
XSCF> poweroff -f -d 0
DomainIDs to power off:00
The -f option will cause domains to be immediately resets.
Continue? [y|n]:y
00:Powering off
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 5 Turns off power to domains with domain IDs 2. Automatically replies with 'y' to the prompt.

```
XSCF> poweroff -y -d 2
DomainIDs to power off:02
Continue? [y|n]:y
02:Powering off
```

Note

This command only issues the instruction to power-off.

The result of the instruction can be checked by the "showlogs power".

EXAMPLE 6 Turns off power to domains with domain IDs 2. Automatically replies with 'y' without displaying the prompt.

```
XSCF> poweroff -q -y -d 2
```

EXAMPLE 7 Cancels the poweroff(8) command execution that is in progress.

```
XSCF>poweroff -d 0
DomainIDs to power off:00
Continue? [y|n]:n
```

EXAMPLE 8 Cancels the poweroff(8) command execution that is in progress. Automatically replies with 'n' to the prompt.

```
XSCF>poweroff -n -d 3
DomainIDs to power off:03
Continue? [y|n]:n
```

EXAMPLE 9 Cancels the `poweroff(8)` command execution that is in progress. Automatically replies with 'n' without displaying the prompt.

```
XSCF>poweroff -q -n -d 3
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

`poweron(8)`, `reset(8)`, `showdomainstatus(8)`

NAME	poweron - turn on the power to the specified domain
SYNOPSIS	<p>poweron [[-q] [-Y n]] [-M] -d <i>domain_id</i></p> <p>poweron [[-q] [-Y n]] [-M] -a</p> <p>poweron -h</p>
DESCRIPTION	<p>The poweron(8) command turns on the power to the specified domain.</p> <p>The command can turn on the power to the specified domain or to all domains.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <p>platadm, fieldeng Can run this command for all domains.</p> <p>domainadm, domainmgr Can run this command only for your managed domains.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-a Turns on the power to every domain that has been completely set up. Only users who have the platadm or fieldeng privileges can specify this option. The "domain that has been completely set up" means a domain that has been completely set up with the setdcl(8) and addboard(8) commands.</p> <p>-d <i>domain_id</i> Specifies the ID of the domain to be turned on. <i>domain_id</i> can be 0-23 depending on the system configuration.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-M Displays text by page. This option provides a function that is the same as that of the more command.</p> <p>-n Automatically answers 'n' (no) to all prompts.</p> <p>-q Suppresses all messages to stdout, including prompts.</p> <p>-Y Automatically answers 'y' (yes) to all prompts.</p>
EXTENDED DESCRIPTION	<ul style="list-style-type: none"> ■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- When the `poweron(8)` command is executed, power-on results for each of the specified domains are displayed in the following format:

Powering on	The power was turned on normally.
Not Powering on	An error occurred, and the power could not be turned on. An error message is displayed with Not Powering on.

- The `showdomainstatus(8)` command can be used to check whether the system power is on.

EXAMPLES

EXAMPLE 1 Turns on power to all domains.

```
XSCF> poweron -a
DomainIDs to power on:00,01,02,03
Continue? [y|n]:y
00:Powering on
01:Powering on
02:Powering on
03:Powering on

*Note*
This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 2 Turns on power to domains with domain IDs 0.

```
XSCF> poweron -d 0
DomainIDs to power on:00
Continue? [y|n]:y
00:Powering on

*Note*
This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
```

EXAMPLE 3 Turns on power to domains with domain IDs 0. Automatically replies with 'y' to the prompt.

```
XSCF> poweron -y -d 0
DomainIDs to power on:00
Continue? [y|n]:y
00:Powering on

*Note*
This command only issues the instruction to power-on.
The result of the instruction can be checked by the "showlogs power".
XSCF>
```

EXAMPLE 4 Turns on power to domains with domain IDs 1. Automatically replies with 'y' without displaying the prompt.

```
XSCF> poweron -q -y -d 1
```

EXAMPLE 5 Cancels the `poweron(8)` command execution that is in progress.

```
XSCF> poweron -d 1
DomainIDs to power on:01
Continue? [y|n]:n
```

EXAMPLE 6 Cancels the `poweron(8)` command execution that is in progress. Automatically replies with 'n' to the prompt.

```
XSCF> poweron -n -d 1
DomainIDs to power on:01
Continue? [y|n]:n
```

EXAMPLE 7 Cancels the `poweron(8)` command execution that is in progress. Automatically replies with 'n' without displaying the prompt.

```
XSCF> poweron -q -n -d 1
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

`poweroff(8)`, `reset(8)`, `showdomainstatus(8)`

poweron(8)



NAME	prtfru - display FRUID data on the system and External I/O Expansion Unit												
SYNOPSIS	<p>prtfru</p> <p>prtfru [-c] [-l] [-M] [-x] [<i>container</i>]</p> <p>prtfru -h</p>												
DESCRIPTION	<p>prtfru is used to obtain FRUID (Field-Replaceable Unit Identifier) data from the system. Its output is a tree structure, echoing the path in the FRU tree to each container. When a container is found, the data from that container is printed in a tree structure as well.</p> <p>prtfru without any arguments prints the FRU hierarchy and all of the FRUID container data. prtfru prints to the screen. Output can be redirected to a file.</p> <p>Note – FRU information from the domains is not available using this command.</p>												
Privileges	<p>You must have <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c</td><td>Prints only the containers and their data. This option does not print the FRU tree hierarchy.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.</td></tr><tr><td>-l</td><td>Prints only the FRU tree hierarchy. This option does not print the container data.</td></tr><tr><td>-x</td><td>Prints in XML format with a system identifier (SYSTEM) of <code>prtfrureg.dtd</code>.</td></tr></table>	-c	Prints only the containers and their data. This option does not print the FRU tree hierarchy.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-M	Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.	-l	Prints only the FRU tree hierarchy. This option does not print the container data.	-x	Prints in XML format with a system identifier (SYSTEM) of <code>prtfrureg.dtd</code> .
-c	Prints only the containers and their data. This option does not print the FRU tree hierarchy.												
-h	Displays usage statement.												
	When used with other options or operands, an error occurs.												
-M	Displays text by page. This option provides a function that is the same as that of the <code>more</code> command.												
-l	Prints only the FRU tree hierarchy. This option does not print the container data.												
-x	Prints in XML format with a system identifier (SYSTEM) of <code>prtfrureg.dtd</code> .												
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>container</i></td><td>The name of the particular hardware that holds data, in the FRU hierarchy. Either the name or path/name of a container is displayed in the <code>-l</code> option. The <i>container</i> operand must be in upper case and is applicable to the External I/O Expansion Unit FRUs.</td></tr></table>	<i>container</i>	The name of the particular hardware that holds data, in the FRU hierarchy. Either the name or path/name of a container is displayed in the <code>-l</code> option. The <i>container</i> operand must be in upper case and is applicable to the External I/O Expansion Unit FRUs.										
<i>container</i>	The name of the particular hardware that holds data, in the FRU hierarchy. Either the name or path/name of a container is displayed in the <code>-l</code> option. The <i>container</i> operand must be in upper case and is applicable to the External I/O Expansion Unit FRUs.												

EXAMPLES

EXAMPLE 1 Displaying FRU Tree Hierarchy

```

XSCF> prtfru -l
...
/frutree
/frutree/chassis (fru)
/frutree/chassis/SYS?Label=SYS
/frutree/chassis/SYS?Label=SYS/led-location (fru)
/frutree/chassis/SYS?Label=SYS/key-location (fru)
/frutree/chassis/SC?Label=SC
/frutree/chassis/SC?Label=SC/system-controller (container)
/frutree/chassis/MB?Label=MB
/frutree/chassis/MB?Label=MB/system-board (container)
/frutree/chassis/MB?Label=MB/system-board/BAT?Label=BAT
/frutree/chassis/MB?Label=MB/system-board/BAT?Label=BAT/battery (fru)
/frutree/chassis/FT0?Label=FT0
/frutree/chassis/FT0?Label=FT0/F0?Label=F0
/frutree/chassis/FT0?Label=FT0/F0?Label=F0/fan (fru)
/frutree/chassis/HDD0?Label=HDD0
/frutree/chassis/HDD0?Label=HDD0/disk (fru)
/frutree/chassis/DVD?Label=DVD
/frutree/chassis/SCC?Label=SCC
/frutree/chassis/SCC?Label=SCC/scc (fru)
/frutree/chassis/PCI0?Label=PCI0
/frutree/chassis/PCI1?Label=PCI1
/frutree/chassis/SCSIBP?Label=SCSIBP
/frutree/chassis/SCSIBP?Label=SCSIBP/system-board (container)
/frutree/chassis/PS0?Label=PS0
/frutree/chassis/PS0?Label=PS0/power-supply (container)
/frutree/chassis/C0?Label=C0
/frutree/chassis/C0?Label=C0/system-board/P0?Label=P0/cpu/B1?Label=B1/
bank/D0?Label=D0/mem-module (container)

```

EXAMPLE 2 Displaying System-Board FRU ID Data

```

XSCF> prtfru -c system-board
/frutree/chassis/MB?Label=MB/system-board (container)
  SEGMENT: SD
    /ManR
      /ManR/UNIX_Timestamp32: Thu Oct  9 17:45:34 PDT 2003
      /ManR/Fru_Description: ASSY,A42,MOTHERBOARD
      /ManR/Manufacture_Loc: Toronto, Ontario, Canada
      /ManR/Sun_Part_No: 5016344
      /ManR/Sun_Serial_No: 008778
      /ManR/Vendor_Name: Celestica
      /ManR/Initial_HW_Dash_Level: 08
      /ManR/Initial_HW_Rev_Level: 50
      /ManR/Fru_Shortname: A42_MB
      /SpecPartNo: 885-0060-10

```

EXAMPLE 3 Displaying System-Board FRU ID Data

```

XSCF> prtfru -l system-board
/frutree/chassis/MB?Label=MB/system-board (container)

```

EXAMPLE 4 Displaying Power Supply FRU ID Data

```
XSCF> prtfriu -l power-supply
/frutree/chassis/PS0?Label=PS0/power-supply (container)
```

EXAMPLE 5 Displaying Memory Module FRU ID Data

```
XSCF> prtfriu -l mem-module
/frutree/chassis/C0?Label=C0/system-board/P0?Label=P0/cpu/B0?Label=B0/
bank/D0?Label=D0/mem-module (container)
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO **ioxadm** (8)

prtfu(8)



NAME	rebootxscf - reset the XSCF
SYNOPSIS	rebootxscf [[-q] -{y n}] rebootxscf -h
DESCRIPTION	The rebootxscf (8) command resets the XSCF.
Privileges	<p>You must have platadm or fieldeng privilege to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -h Displays usage statement. When used with other options or operands, an error occurs. -n Automatically answers 'n' (no) to all prompts. -q Suppresses all messages to stdout, including prompts. -y Automatically answers 'y' (yes) to all prompts.
EXTENDED DESCRIPTION	When you cancel the XSCF reset using the applynetwork (8), setdate (8), sethttps (8), or setssh (8), which commands reset XSCF automatically, even if you perform this command, the network information that is set is not applied in XSCF.
EXAMPLES	<p>EXAMPLE 1 Resets the XSCF.</p> <pre>XSCF> rebootxscf The XSCF will be reset. Continue? [y n]:y</pre> <p>EXAMPLE 2 Resets the XSCF. Automatically replies with 'y' to the prompt.</p> <pre>XSCF> rebootxscf -y The XSCF will be reset. Continue? [y n]:y</pre> <p>EXAMPLE 3 Resets the XSCF. Automatically replies with 'y' without displaying the prompt.</p> <pre>XSCF> rebootxscf -q -y</pre> <p>EXAMPLE 4 Cancels the rebootxscf(8) command execution that is in progress.</p> <pre>XSCF> rebootxscf The XSCF will be reset. Continue? [y n]:n XSCF></pre>

rebootxscf(8)

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

applynetwork (8), setdate (8), sethttps (8), setssh (8)

NAME	replacefru - replace a field replaceable unit (FRU)
SYNOPSIS	replacefru replacefru -h
DESCRIPTION	<p>The <code>replacefru(8)</code> command replaces a FRU. The command allows the user to select, confirm, and replace the FRU interactively using menus.</p> <p>The following FRUs can be replaced using the <code>replacefru(8)</code> command.</p> <ul style="list-style-type: none"> ■ CPU memory unit (CMU) ■ I/O unit (IOU) ■ FAN unit (FANU) ■ Power supply unit (PSU) ■ XSCF unit (XSCFU)
Privileges	<p>You must have <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following option is supported.</p> <p><code>-h</code> Displays usage statement.</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	addboard(8), addfru(8), deleteboard(8), deletefru(8), setupfru(8), showdcl(8), showdomainstatus(8), showfru(8), showhardconf(8), testsb(8), unlockmaintenance(8)

replacefru(8)

NAME	reset - reset the specified domain										
SYNOPSIS	reset [[-q] -{y n}] -d <i>domain_id</i> <i>level</i> reset -h										
DESCRIPTION	<p>Note – Since the <code>reset(8)</code> command forcibly resets the system, this command may cause a failure in a hard disk drive or other components. Use this command only for the purpose of recovery, such as if the operating system hangs, and for other limited purposes.</p> <p>The <code>reset(8)</code> command resets the specified domain.</p> <p>The following three levels of resetting can be specified:</p> <table><tr><td><code>por</code></td><td>Resets the domain system.</td></tr><tr><td><code>panic</code></td><td>Instructs the domain operating system to generate a panic. The command is ignored if it is issued during power-off or shutdown.</td></tr><tr><td><code>xir</code></td><td>Resets the domain CPU.</td></tr></table>	<code>por</code>	Resets the domain system.	<code>panic</code>	Instructs the domain operating system to generate a panic. The command is ignored if it is issued during power-off or shutdown.	<code>xir</code>	Resets the domain CPU.				
<code>por</code>	Resets the domain system.										
<code>panic</code>	Instructs the domain operating system to generate a panic. The command is ignored if it is issued during power-off or shutdown.										
<code>xir</code>	Resets the domain CPU.										
Privileges	<p>You must have one of the following privileges to run this command:</p> <table><tr><td><code>platadm, fieldeng</code></td><td>Can run this command for all domains.</td></tr><tr><td><code>domainadm, domainmgr</code></td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to <code>setprivileges(8)</code> for more information.</p>	<code>platadm, fieldeng</code>	Can run this command for all domains.	<code>domainadm, domainmgr</code>	Can run this command only for your managed domains.						
<code>platadm, fieldeng</code>	Can run this command for all domains.										
<code>domainadm, domainmgr</code>	Can run this command only for your managed domains.										
OPTIONS	<p>The following options are supported:</p> <table><tr><td><code>-d domain_id</code></td><td>Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td><code>-h</code></td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td><code>-n</code></td><td>Automatically answers 'n' (no) to all prompts.</td></tr><tr><td><code>-q</code></td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td><code>-y</code></td><td>Automatically answers 'y' (yes) to all prompts.</td></tr></table>	<code>-d domain_id</code>	Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.	<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.	<code>-n</code>	Automatically answers 'n' (no) to all prompts.	<code>-q</code>	Suppresses all messages to stdout, including prompts.	<code>-y</code>	Automatically answers 'y' (yes) to all prompts.
<code>-d domain_id</code>	Specifies only one ID of the domain to be reset. <i>domain_id</i> can be 0–23 depending on the system configuration.										
<code>-h</code>	Displays usage statement. When used with other options or operands, an error occurs.										
<code>-n</code>	Automatically answers 'n' (no) to all prompts.										
<code>-q</code>	Suppresses all messages to stdout, including prompts.										
<code>-y</code>	Automatically answers 'y' (yes) to all prompts.										

OPERANDS

The following operand is supported:

<i>level</i>	Specifies the level of resetting. One of the following can be specified. This operand cannot be omitted.
<i>por</i>	Resets the domain system.
<i>request</i>	Instructs the domain operating system to generate a panic.
<i>xir</i>	Resets the domain CPU.

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- The `showdomainstatus(8)` command can be used to check whether the domain has been reset.
- If the `reset(8)` command is executed under either of the following conditions, processing is stopped before the operating system is started:
 - The Mode switch on the operator panel is set to Service mode
 - The Auto boot function has been disabled by the `setdomainmode (8)` command

EXAMPLES

EXAMPLE 1 Causes a panic in domain ID 0.

```
XSCF> reset -d 0 panic
DomainID to panic:00
Continue? [y|n]:y
00:Panicked
```

Note

This command only issues the instruction to reset.
The result of the instruction can be checked by the "showlogs power".

EXAMPLE 2 Resets the CPU in domain ID 0. Automatically answers 'y' to all prompts.

```
XSCF> reset -y -d 0 xir
DomainID to reset:00
Continue? [y|n]:y
00:Reset
```

Note

This command only issues the instruction to reset.
The result of the instruction can be checked by the "showlogs power".

EXAMPLE 3 Resets domain ID 0. Suppresses prompts, and automatically answers 'y' to all prompts.

```
XSCF> reset -q -y -d 0 por
```

EXAMPLE 4 Cancels the `reset` command execution that is in progress.

```
XSCF> reset -d 0 panic  
DomainID to panic:00  
Continue? [y|n]:n
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO `poweroff(8)`, `poweron(8)`, `setdomainmode(8)`, `showdomainstatus(8)`

reset(8)

NAME	resetdateoffset - reset the time subtraction between XSCF and the domain
SYNOPSIS	resetdateoffset resetdateoffset -h
DESCRIPTION	<p>The resetdateoffset(8) command resets the time subtraction between XSCF and the domain, which stored in XSCF.</p> <p>Usually, the time of the domain is synchronized with the time of XSCF. When the time of the domain changed by using a command such as the date(1M) which prepared in the operating system of domain, the time subtraction between the time of XSCF and the changed time of domain will be stored in XSCF. The stored time subtraction remains after the domain reboot or after the XSCF reset by using a command such as the rebootxscf(8), with the result that the time subtraction between XSCF and the domain remains stored.</p> <p>The resetdateoffset(8) command resets the every time subtraction between XSCF and each domain, which stored in XSCF. As a result, the time of domain after startup will be set to the same time as XSCF.</p>
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-h Displays usage statement.</p>
EXTENDED DESCRIPTION	The resetdateoffset(8) command needs to be executed in the system power-off status.
EXAMPLES	<p>EXAMPLE 1 Resets the time subtraction between XSCF and the domain.</p> <p>XSCF> resetdateoffset</p>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

resetdateoffset(8)

NAME	sendbreak - send a break signal to the specified domain				
SYNOPSIS	sendbreak -d <i>domain_id</i> sendbreak -h				
DESCRIPTION	<p>The sendbreak(8) command sends a break signal to the specified domain.</p> <p>When a break signal is sent from the domain console to the domain operating system, control is transferred from the operating system to OpenBoot PROM and the OpenBoot PROM prompt "ok>" is displayed.</p>				
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td>platadm</td><td>Can run this command for all domains.</td></tr> <tr> <td>domainadm</td><td>Can run this command only for your managed domains.</td></tr> </table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domains.
platadm	Can run this command for all domains.				
domainadm	Can run this command only for your managed domains.				
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-d <i>domain_id</i></td><td>Specifies only one ID of the destination domain in which a system board is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>	-d <i>domain_id</i>	Specifies only one ID of the destination domain in which a system board is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0–23 depending on the system configuration.	-h	Displays usage statement. When used with other options or operands, an error occurs.
-d <i>domain_id</i>	Specifies only one ID of the destination domain in which a system board is to be configured or to which it is to be assigned. <i>domain_id</i> can be 0–23 depending on the system configuration.				
-h	Displays usage statement. When used with other options or operands, an error occurs.				
EXIT STATUS	<p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>>0</td><td>An error occurred.</td></tr> </table>	0	Successful completion.	>0	An error occurred.
0	Successful completion.				
>0	An error occurred.				
SEE ALSO	console (8) , showconsolepath (8)				

sendbreak(8)



NAME	setaltitude - set the altitude of the system						
SYNOPSIS	setaltitude -s <i>key=value</i> setaltitude -h						
DESCRIPTION	<p>The setaltitude(8) command sets the altitude of the system.</p> <p>The specified value becomes valid when the circuit breakers of the system are switched on again.</p>						
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>						
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>key=value</i></td><td>The item to be set is specified by <i>key</i>. The following value can be specified: <table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr></table><p>Specifies the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded off to the nearest hundred meters. The value may be rounded up to the nearest hundred meters.</p><p>The default value is 0 meters.</p></td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>key=value</i>	The item to be set is specified by <i>key</i> . The following value can be specified: <table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr></table> <p>Specifies the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded off to the nearest hundred meters. The value may be rounded up to the nearest hundred meters.</p> <p>The default value is 0 meters.</p>	altitude	Sets the altitude of the system.
-h	Displays usage statement. When used with other options or operands, an error occurs.						
-s <i>key=value</i>	The item to be set is specified by <i>key</i> . The following value can be specified: <table><tr><td>altitude</td><td>Sets the altitude of the system.</td></tr></table> <p>Specifies the altitude of the system in <i>value</i> in units of meters (m). An integer equal to or greater than 0 can be specified, and the specified value is rounded off to the nearest hundred meters. The value may be rounded up to the nearest hundred meters.</p> <p>The default value is 0 meters.</p>	altitude	Sets the altitude of the system.				
altitude	Sets the altitude of the system.						
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ If the altitude of the system is set, any abnormality in the intake air temperature can be detected quickly. If the altitude of the system is unknown, set a high value. However, even if no altitude is set for the system, any abnormality in temperatures such as the CPU temperature can still be detected, so the system would not be damaged by a fatal error.■ When the showaltitude(8) command is executed, the current settings are displayed.						
EXAMPLES	<p>EXAMPLE 1 Sets the altitude of the system to 1000 m.</p> <pre>XSCF> setaltitude -s altitude=1000 1000m</pre>						

EXAMPLE 2 Sets the altitude of the system to 200 m. The specified value is rounded up to the nearest hundred meters.

```
XSCF> setaltitude -s altitude=157  
200m
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

showaltitude (8)

NAME	setarchiving - configure the log archiving functionality
SYNOPSIS	<p>setarchiving [-k <i>host-key</i>] [-l <i>audit-limit, non-audit-limit</i>] [-p <i>password</i> -r] [-t <i>user@host:directory</i>] [-v] [-y -n]</p> <p>setarchiving enable disable</p> <p>setarchiving -h</p>
DESCRIPTION	<p>setarchiving(8) manages the log archiving configuration. Persistent storage space on the Service Processor is limited. Some logs may grow to the point where old log entries must be overwritten or deleted. Log archiving allows the user to set up the Service Processor to automatically archive its log data on a remote host.</p> <p>Note – You must set up the archive host correctly prior to enabling the log archiving feature. (See EXAMPLE 1.) If you attempt to enable archiving while the configuration is invalid (for example, if the specified archive host does not exist), setarchiving exits with an error message. setarchiving exits with an error message if you request invalid configuration changes while archiving is enabled.</p> <p>Note – setarchiving(8) requires at least one option or operand.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

- h** Displays usage statement.
- When used with other options or operands, an error occurs.
- k *host-key*** Sets the public key that XSCF uses to verify the identity of the host. Possible values for the *host-key* are shown here:
- none**
- This literal value specifies that a public key should not be used to authenticate the archive host. If an archive host public key was previously configured, it is deleted.
- download**
- This literal value specifies that setarchiving should download the public host key from the archive host using the SSH protocol. If the **-t** option is used, setarchiving downloads the key from the host specified in the argument to **-t**. Otherwise, setarchiving downloads the key from the current archive host. Next, setarchiving displays the key's md5 fingerprint and prompts you for confirmation of the identity of the host to continue. If you accept the key, it is saved and used for server authentication. If you reject the key, setarchiving exists without changing the configuration.
- public-key***
- The specified public key is stored and used for server authentication. The *host-key* argument should be the complete *public-key* for the archive host, beginning with the key type.

Note – The *public-key* should be enclosed in quotes to ensure that the shell treats it as a single word.

- `-l audit-limit,non-audit-limit` Sets the space limits for log archives in megabytes. The option argument must consist of two values separated by a comma.
- The *audit-limit* value specifies the archive space limit for audit logs. It must be either 0 (zero), *unlimited* or an integer in the range of 500–50000. If you do not use the `-l` option to modify the value of *audit-limit*, the initial archive space limit for audit logs is *unlimited*.
- The *non-audit-limit* value specifies the archive space limit for all other logs, in megabytes. It must be an integer in the range of 500–50000. If unset, the initial value for *non-audit-limit* depends on the type of server. Use the `showarchiving(8)` command to determine the value for your server.
- If either of the specified values is invalid, the command displays an error and exits without making any changes.
- `-n` Automatically answers no to all prompts. Prompts are displayed.
- `-p password` Sets the password used for ssh login. This option is provided to facilitate scripting. To change the password interactively, use the `-r` option.
- `-r` Reads the password used for ssh login. The `setarchiving` command displays a prompt and reads the new password without echoing it to the screen.
- `-t user@host:directory` Sets the archive target. The *host* field specifies the host name or IP address of the archive host. The *user* field specifies the user name for the ssh login to the archive host. The *directory* field specifies the archive directory on the archive host where the archives should be stored. The directory field must not begin with a tilde (~).
- `-v` Specifies verbose output. When this option is used in conjunction with `-k download`, `setarchiving` displays the downloaded public key in addition to its md5 fingerprint.
- `-y` Automatically answers yes to all prompts. Prompts are displayed.

OPERANDS	<p>The following operands are supported:</p> <p>enable Activates the log archiving feature. Cannot be used with any options.</p> <p>disable De-activates the log archiving feature. Cannot be used with any options.</p>
EXAMPLES	<p>EXAMPLE 1 Setting the Archiving Target and Password</p> <pre>XSCF> setarchiving -t jsmith@somehost.company.com:/home/jsmith/ logs -r Enter ssh password for jsmith@somehost.company.com: []</pre> <p>EXAMPLE 2 Setting the Public Host Key</p> <pre>XSCF> setarchiving -k download Downloading public host key from somehost.company.com... Fingerprint: c3:75:f9:97:7d:dc:le:le:62:06:cl:6f:87:bc:e8:0d Accept this public key (yes no): yes</pre> <p>EXAMPLE 3 Setting the Space Limits for Archives</p> <pre>XSCF> setarchiving -l 10000,10000</pre> <p>EXAMPLE 4 Enabling Archiving</p> <pre>XSCF> setarchiving enable Testing the archiving configuration... Logs will be archived to somehost.company.com.</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion. Configuration updated.</p> <p>>0 An error occurred.</p>
SEE ALSO	<p>showarchiving (8)</p>

NAME	setaudit - manage the system auditing functionality
SYNOPSIS	<p>setaudit enable disable archive delete</p> <p>setaudit [-p count suspend] [-m mailaddr] [-a users=enable disable default] [-c classes= {enable disable }]... [-e events=enable disable]... [-g {enable disable }] [-t percents]</p> <p>setaudit -h</p>
DESCRIPTION	<p>setaudit(8) manages the collection of data on the use of system resources. Audit data provides a record of security-related system events. This data can be used to assign responsibility for actions that have taken place on the system. Auditing generates records when specified events occur. Events that generate audit records include:</p> <ul style="list-style-type: none">■ System startup and shutdown■ Login and logout■ Authentication actions■ Administrative actions
Privileges	<p>You must have auditadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported.

-a *users*=enable|disable|default

Sets the audit record generation policy for the specified users. *users* is a comma-separated list of valid user names.

When set to *enable* or *disable*, audit record generation for the users is turned on or off respectively. This setting overrides the global policy for the specified user.

When set to *default*, the policy for the users is set to follow the global policy. Use `showaudit -g` to display the global user audit record generation policy.

-c *classes* = enable|disable

Changes the audit record generation policy for the specified audit classes. *classes* is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit-related events can be expressed as ACS_AUDIT, AUDIT or 2.

The following are valid classes:

all	Denotes all classes: LOGIN, CONFIG, AUDIT, DOMAIN, USER, STATUS, PLATFORM, SERVICE
ACS_LOGIN(0)	Login-related events
ACS_CONFIG(1)	Configuration-related events
ACS_AUDIT(2)	Audit-related events
ACS_DOMAIN(3)	Domain-related events
ACS_USER(4)	User management-related events
ACS_STATUS(5)	Status inquiry-related events
ACS_PLATFORM(6)	Platform management-related events
ACS_SERVICE(7)	Service-related events

This option may be specified multiple times. Multiple specification are processed together with an *-e* options in the order listed. See EXAMPLE 1.

When set to *enable* or *disable*, audit record generation for the classes is turned on or off respectively. This setting overrides the global policy. When set to *default*, the policy for the users is set to follow the global policy. Use `showaudit -g` to display the global user audit record generation policy.

-e *events* = enable|disable

Changes the audit record generation policy for the specified audit events. *events* is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The `AEV_` prefix may be omitted. For example, the event for SSH login can be expressed as `AEV_LOGIN_SSH`, `LOGIN_SSH` or `0`.

See `showaudit -e all` for a list of valid events.

This option may be specified multiple times. Multiple specification are processed together with an `-c` options in the order listed. See EXAMPLE 3.

When set to `enable` or `disable`, audit record generation for the events is turned on or off respectively. This setting overrides the global policy. When set to `default`, the policy for the users is set to follow the global policy. Use `showaudit -g` to display the global user audit record generation policy.

`-g enable|disable`

Sets the global user audit record generation policy.

When set to `disable`, no audit record which can be attributed to any user account is generated. These settings can be overridden on an individual user basis using the `-a` option.

`-h`

Displays usage statement.

When used with other options or operands, an error occurs.

`-m mailaddr`

Sets the mail address to which email is sent when the local audit storage space usage reaches a threshold (see option `-t`). Email addresses must be a valid email address of the form *user@company.com*. Specifying `none` for *mailaddr* turns off email notification.

`-p suspend|count`

Sets the policy to follow when the audit trail becomes full. The following are valid values:

<code>suspend</code>	All processes which try to write to audit records will be suspended until either space becomes available and records can be written, or the policy is changed to <code>count</code> .
<code>count</code>	New audit records are dropped and a count is kept of how many records are dropped.

-t *percents*

Sets thresholds at which to issue a warning about local audit storage usage. *percents* is a comma-separated list of percentages of available space used. At most two values may be set. For example, a value of 50, 75 would cause warnings to be issued when 50% and 75%, respectively, of the available storage for audit records is consumed. The default value is 80%.

Warnings are issued as a message to the console and optionally to an administrator using email. See **-m** *mailaddr*.

OPERANDS

The following operands are supported:

archive	Notifies the log archiving facility to archive the current audit trail.
delete	Delete the portion of the local audit trail in the secondary partition. This can be used to free space for new audit records if the local audit trail becomes full. For more information on the secondary partition, refer to the administration guide for your server.
disable	Turns off the writing of audit records to the audit trail and notifies the log archiving facility to archive the current audit trail.
enable	Turns on the writing of audit records to the audit trail.

EXAMPLES

EXAMPLE 1 Changing Classes Using Names

```
XSCF> setaudit -c LOGIN,AUDIT=disable -c ACS_CONFIG=enable
Auditing for LOGIN and AUDIT classes has been disabled.
Auditing for CONFIG class is enabled.
```

EXAMPLE 2 Changing Classes Using Numbers

```
XSCF> setaudit -c 0,2=disable -c 1=enable
Auditing for classes 1 (LOGIN) and 3 (AUDIT) has been disabled.
Auditing for class 2 (CONFIG) is enabled.
```

EXAMPLE 3 Disabling and Disabling Events

```
XSCF> setaudit -e ENTER,EXIT,LOGIN_SSH=disable -e 5=enable
Auditing for Enter, Exit and Login_SSH events has been disabled. Auditing
for 5 (LOGOUT) is enabled.
```

EXAMPLE 4 Changing Classes and Enabling an Event

```
XSCF> setaudit -c 1=enable -e 5=disable  
Auditing is enabled for all of Class 1 (CONFIG) except for event 5 (LOGOUT)  
is disabled.
```

EXAMPLE 5 Enabling Auditing

```
XSCF> setaudit enable  
Turns on writing of the audit records for the audit trail.
```

EXAMPLE 6 Enabling Warnings

```
XSCF> setaudit -t 50,75  
Warnings will be sent at 50% capacity and 75% capacity.
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO `showaudit(8)`

setaudit(8)



NAME	setautologout - set the session timeout time of the XSCF shell
SYNOPSIS	setautologout -s <i>timeout</i> setautologout -h
DESCRIPTION	<p>The setautologout(8) command sets the session timeout time of the XSCF shell.</p> <p>The default of the session timeout time is 10 minutes.</p>
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-s <i>timeout</i> Specifies the session timeout time of the XSCF shell. Specify a timeout time value in units of minutes for <i>timeout</i>. An integer ranging from 1 to 255 can be specified.</p>
EXTENDED DESCRIPTION	<p>The specified session timeout time becomes effective after the subsequent login.</p>
EXAMPLES	<p>EXAMPLE 1 Sets the session timeout time of the XSCF shell to 30 minutes.</p> <pre>XSCF> setautologout -s 30 30min</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>
SEE ALSO	showautologout (8)

setautologout(8)

NAME	setcod - set up the Capacity on Demand (COD) resources used for domains								
SYNOPSIS	<p>setcod</p> <p>setcod [-v] <i>headroom</i></p> <p>setcod [-v] -d <i>domain_id</i> [<i>proc-rtus</i>]</p> <p>setcod -h</p>								
DESCRIPTION	<p>setcod(8) sets up the COD resources to be used for domains. License keys must be installed (see addcodlicense(8)) before COD boards in a domain can be utilized. You can also enable headroom and reserve licenses for some domains with setcod(8).</p> <p>When no <i>domain_id</i> is specified, current values are displayed in the square brackets ([]) at the command prompt. If no value is specified for an operand, it retains its current value.</p>								
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-d <i>domain_id</i></td><td>Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-v</td><td>Specifies verbose output.</td></tr></table>	-d <i>domain_id</i>	Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-v	Specifies verbose output.
-d <i>domain_id</i>	Domain identifier. <i>domain_id</i> can be 0–23 depending on the system configuration.								
-h	Displays usage statement.								
	When used with other options or operands, an error occurs.								
-v	Specifies verbose output.								
OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>headroom</i></td><td>Amount of headroom (processors) to be enabled. Maximum value is 4.</td></tr><tr><td><i>proc-rtus</i></td><td>The number of Right To Use (RTUs) licenses reserved for a domain. One RTU license is required for each CPU.</td></tr></table>	<i>headroom</i>	Amount of headroom (processors) to be enabled. Maximum value is 4.	<i>proc-rtus</i>	The number of Right To Use (RTUs) licenses reserved for a domain. One RTU license is required for each CPU.				
<i>headroom</i>	Amount of headroom (processors) to be enabled. Maximum value is 4.								
<i>proc-rtus</i>	The number of Right To Use (RTUs) licenses reserved for a domain. One RTU license is required for each CPU.								
EXTENDED DESCRIPTION	<p>If you run the setcod command without specifying any options, the command prompts you for COD information.</p> <p>You are asked to specify the amount of COD headroom to be used, and the number of COD RTU licenses to be reserved for your domains. When you are prompted for</p>								

COD information, the maximum values allowed are displayed within parentheses () and default values are displayed within brackets [].

setcod enables COD headroom (processors to be used on demand). Use the **-d domain_id** to specify the number of domain COD RTU licenses to be reserved.

EXAMPLES

EXAMPLE 1 Setting COD CPU Headroom Quantity and Reserve Domain COD RTU Licenses

```
XSCF> setcod
COD
---
PROC RTUs installed: 0
PROC Headroom Quantity (0 to disable, 4 MAX) [0]:
PROC RTUs reserved for domain 0 (0 MAX) [0]:
PROC RTUs reserved for domain 1 (0 MAX) [0]:
PROC RTUs reserved for domain 2 (0 MAX) [0]:
PROC RTUs reserved for domain 3 (0 MAX) [0]:
PROC RTUs reserved for domain 4 (0 MAX) [0]:
PROC RTUs reserved for domain 5 (0 MAX) [0]:
PROC RTUs reserved for domain 6 (0 MAX) [0]:
PROC RTUs reserved for domain 7 (0 MAX) [0]:
PROC RTUs reserved for domain 8 (0 MAX) [0]:
PROC RTUs reserved for domain 9 (0 MAX) [0]:
PROC RTUs reserved for domain 10 (0 MAX) [0]:
PROC RTUs reserved for domain 11 (0 MAX) [0]:
PROC RTUs reserved for domain 12 (0 MAX) [0]:
PROC RTUs reserved for domain 13 (0 MAX) [0]:
PROC RTUs reserved for domain 14 (0 MAX) [0]:
PROC RTUs reserved for domain 15 (0 MAX) [0]:
```

EXAMPLE 2 Set the COD Headroom CPUs to 3

```
XSCF> setcod 3
```

After this command completes, you will see a message similar to this one in the XSCF console:

```
codd 15:51:36: COD PROC Headroom changed to 3
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

addcodlicense (8), **showcod (8)**

NAME	setdate - set the date and time of XSCF																
SYNOPSIS	setdate [[-q] -{y n}] [-u] -s <i>date</i> setdate -h																
DESCRIPTION	<p>The setdate(8) command sets the date and time of XSCF.</p> <p>If the local date and time are specified, they are set following conversion to coordinated universal time (UTC).</p> <p>When date and time are set, the set date and time are reflected after XSCF is reset.</p>																
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>																
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-s <i>date</i></td><td>Sets date and time. <i>date</i> can be specified in either of the following formats: <table><tr><td><i>YYYY.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "<i>year.month.day-hour:minute:second.</i>"</td></tr><tr><td><i>MMDDhhmmYYYY.ss</i></td><td>Specifies data in the format "<i>MonthDayHourMinuteYear.second.</i>"</td></tr></table></td></tr><tr><td>-u</td><td>Specifies time in UTC. When omitted, the local time is specified.</td></tr><tr><td>-y</td><td>Automatically answers 'y' (yes) to all prompts.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers 'n' (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-s <i>date</i>	Sets date and time. <i>date</i> can be specified in either of the following formats: <table><tr><td><i>YYYY.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "<i>year.month.day-hour:minute:second.</i>"</td></tr><tr><td><i>MMDDhhmmYYYY.ss</i></td><td>Specifies data in the format "<i>MonthDayHourMinuteYear.second.</i>"</td></tr></table>	<i>YYYY.MM.DD-hh:mm:ss</i>	Specifies date in the format of " <i>year.month.day-hour:minute:second.</i> "	<i>MMDDhhmmYYYY.ss</i>	Specifies data in the format " <i>MonthDayHourMinuteYear.second.</i> "	-u	Specifies time in UTC. When omitted, the local time is specified.	-y	Automatically answers 'y' (yes) to all prompts.
-h	Displays usage statement. When used with other options or operands, an error occurs.																
-n	Automatically answers 'n' (no) to all prompts.																
-q	Suppresses all messages to stdout, including prompts.																
-s <i>date</i>	Sets date and time. <i>date</i> can be specified in either of the following formats: <table><tr><td><i>YYYY.MM.DD-hh:mm:ss</i></td><td>Specifies date in the format of "<i>year.month.day-hour:minute:second.</i>"</td></tr><tr><td><i>MMDDhhmmYYYY.ss</i></td><td>Specifies data in the format "<i>MonthDayHourMinuteYear.second.</i>"</td></tr></table>	<i>YYYY.MM.DD-hh:mm:ss</i>	Specifies date in the format of " <i>year.month.day-hour:minute:second.</i> "	<i>MMDDhhmmYYYY.ss</i>	Specifies data in the format " <i>MonthDayHourMinuteYear.second.</i> "												
<i>YYYY.MM.DD-hh:mm:ss</i>	Specifies date in the format of " <i>year.month.day-hour:minute:second.</i> "																
<i>MMDDhhmmYYYY.ss</i>	Specifies data in the format " <i>MonthDayHourMinuteYear.second.</i> "																
-u	Specifies time in UTC. When omitted, the local time is specified.																
-y	Automatically answers 'y' (yes) to all prompts.																
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.■ In case the XSCF unit is duplicated configuration, date and time must be set for each XSCF unit.■ If the XSCF is used as an NTP server, change the XSCF time, and synchronize the domain times with the XSCF time. The XSCF time is applied to a domain during either of the following operations:																

- The ntpdate(1M) command is executed in the domain.
- Rebooting the domain
- The setdate(8) command needs to be executed in the system power-off status.
- In case an NTP server set to XSCF, the time set by the setdate(8) command becomes invalid. Whether an NTP server set to XSCF or not can be checked by using the showntp(8) command.
- To check the currently set XSCF date and time, execute the showdate(8) command.

EXAMPLES

EXAMPLE 1 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time.

```
XSCF> setdate -s 012716592006.00
Fri Jan 27 16:59:00 JST 2006
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 07:59:10 2006):

The system is going down for reboot NOW!

The reset continues after this point.
```

EXAMPLE 2 Sets "January 27 07:59:00 2006" of UTC as the current time.

```
XSCF> setdate -u -s 012707592006.00
Fri Jan 27 07:59:00 UTC 2006
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 07:59:10 2006):

The system is going down for reboot NOW!

The reset continues after this point.
```

EXAMPLE 3 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time. Automatically replies with 'y' to the prompt.

```
XSCF> setdate -y -s 012716592006.00
Fri Jan 27 16:59:00 JST 2006
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Fri Jan 27 16:59:10 2006):

The system is going down for reboot NOW!

The reset continues after this point.
```

EXAMPLE 4 Sets "January 27 16:59:00 2006" of the local time (JST) as the current time. Automatically replies with 'y' without displaying the prompt.

```
XSCF> setdate -q -y -s 012716592006.00  
  
Broadcast message from root (pts/4) (Fri Jan 27 16:59:10 2006):  
  
The system is going down for reboot NOW!  
  
The reset continues after this point.
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO `setntp(8)`, `settimezone(8)`, `showdate(8)`, `showntp(8)`, `showtimezone(8)`

setdate(8)

NAME	setdcl - set a domain component list (DCL)
SYNOPSIS	<pre> setdcl -d <i>domain_id</i> -s <i>policy=value</i> setdcl -d <i>domain_id</i> -s <i>option=value lsb</i> [<i>lsb...</i>] setdcl -d <i>domain_id</i> -a <i>lsb=xsb</i> [<i>lsb=xsb...</i>] setdcl -d <i>domain_id</i> -r <i>lsb</i> [<i>lsb...</i>] setdcl -h </pre>
DESCRIPTION	<p>The <code>setdcl(8)</code> command sets a domain component list (DCL).</p> <p>A DCL is hardware resource information that can be set for a domain or the logical system boards (LSBs) that are components of a domain.</p> <p>An LSB is a board unit recognized by an operating system in a domain. Up to 16 boards can be registered in each domain, and they are represented by integer numbers ranging from 0 to 15.</p> <p>An extended system board (XSB) is a board unit that can be used in the system and is one partition of a partitioned physical system board (PSB). An XSB is represented by <i>x-y</i>, a combination of a PSB number and the number of one partition of the partitioned PSB (<i>x</i> is an integer ranging from 00 to 15, and <i>y</i> is an integer ranging from 0 to 3).</p> <p>The <code>setdcl(8)</code> command associates an XSB with an LSB that can be recognized by an operating system in the domain, and its settings enable the operating system in the domain to use hardware resources on the associated XSB.</p> <p>The <code>setdcl(8)</code> command can set the following types of DCL information:</p> <p>For the domain:</p> <ul style="list-style-type: none"> ■ Degradation range applicable for an error detected during an initial diagnosis of hardware (<i>policy</i>) <p>For the LSB:</p> <ul style="list-style-type: none"> ■ XSB number of the XSB to be associated with an LSB (<i>lsb, xsb</i>) The XSB with the specified XSB number is associated with an LSB. ■ Using memory mounted on an LSB (<i>no-mem</i>) The user can specify whether an operating system in the domain can use memory mounted on an LSB. ■ Using I/O devices mounted on an LSB (<i>no-io</i>) The user can specify whether an operating system in the domain can use I/O devices, such as a PCI card, mounted on an LSB.

- Whether to set a priority for the specified LSB as a floating board, relative to other boards (`float`)

The user can specify whether to set a priority for the specified LSB as a floating board, relative to other boards. A floating board is used for dynamic reconfiguration (DR) for purposes such as changing the domain configuration, while minimizing effect of DR on the operating system.

Privileges

You must have `platadm` privileges to run this command.

Refer to `setprivileges(8)` for more information.

OPTIONS

The following options are supported:

-a *lsb=xsb* Specifies an XSB number to be associated with an LSB number in the domain. The following form can be accepted:

$$lsb = xsb$$

<i>lsb</i>	Specifies an LSB number. An integer ranging from 0 to 15 can be specified.
------------	--

*xs**b* Specifies an XSB number. The following *xs**b* form is accepted:

$x-y$	x: An integer from 00–15. y: An integer from 0–3.
-------	--

lsb and *xsb* can be specified with an equal sign (=) as a delimiter. The space character must not be inserted immediately before and after "=". *lsb=xsb* can be repeated multiple times by using a space character as a delimiter.

If the same pair of an LSB number and XSB number is duplicated, an error occurs. Also, if an XSB number has already been set for the specified *lsb*, an error occurs.

If the specified *xsib* has already been set for another LSB, the existing setting is canceled and the specified *xsib* is set for the specified *lsb*.

-d <i>domain_id</i>	Specifies the domain ID to be set. An integer ranging from 0 to 23 can be specified for <i>domain_id</i> , depending on the system configuration.
---------------------	---

-h	Displays usage statement. When used with other options or operands, an error occurs.
----	--

<code>-r</code>	Clears the XSB number associated with an LSB number in the specified domain.																		
<code>-s option=value</code>	<p>Makes settings regarding hardware resources of the XSB associated with an LSB. An item to be set is specified for <i>option</i>, and a value corresponding to <i>option</i> is specified for <i>value</i>. <i>option</i> and <i>value</i> are specified only once in a format using an equal sign (=) to delimit the specified values. The space character must not be inserted immediately before and after "=".</p> <p>One of the following can be specified for <i>option</i>:</p> <table> <tr> <td><code>policy</code></td><td>Degradation range applicable for a detected error during an initial diagnosis of hardware.</td></tr> <tr> <td><code>no-mem</code></td><td>Whether to omit the use of memory on a domain</td></tr> <tr> <td><code>no-io</code></td><td>Whether to omit the use of I/O devices on a domain</td></tr> <tr> <td><code>float</code></td><td>Whether to set a priority for the board as a floating board, relative to other boards</td></tr> </table> <p>If <code>policy</code> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>fru</code></td><td>Degrades the target part for an error detected by a diagnosis.</td></tr> <tr> <td><code>xsb</code></td><td>Degrades the target XSB for an error detected by a diagnosis.</td></tr> <tr> <td><code>system</code></td><td>Degrades the target system for an error detected by a diagnosis.</td></tr> </table> <p>If <code>no-mem</code> is specified for <i>option</i>, either of the following can be specified for <i>value</i>:</p> <table> <tr> <td><code>true</code></td><td>Omits the use of memory on a domain.</td></tr> <tr> <td><code>false</code></td><td>Does not omit the use of memory on a domain (default).</td></tr> </table>	<code>policy</code>	Degradation range applicable for a detected error during an initial diagnosis of hardware.	<code>no-mem</code>	Whether to omit the use of memory on a domain	<code>no-io</code>	Whether to omit the use of I/O devices on a domain	<code>float</code>	Whether to set a priority for the board as a floating board, relative to other boards	<code>fru</code>	Degrades the target part for an error detected by a diagnosis.	<code>xsb</code>	Degrades the target XSB for an error detected by a diagnosis.	<code>system</code>	Degrades the target system for an error detected by a diagnosis.	<code>true</code>	Omits the use of memory on a domain.	<code>false</code>	Does not omit the use of memory on a domain (default).
<code>policy</code>	Degradation range applicable for a detected error during an initial diagnosis of hardware.																		
<code>no-mem</code>	Whether to omit the use of memory on a domain																		
<code>no-io</code>	Whether to omit the use of I/O devices on a domain																		
<code>float</code>	Whether to set a priority for the board as a floating board, relative to other boards																		
<code>fru</code>	Degrades the target part for an error detected by a diagnosis.																		
<code>xsb</code>	Degrades the target XSB for an error detected by a diagnosis.																		
<code>system</code>	Degrades the target system for an error detected by a diagnosis.																		
<code>true</code>	Omits the use of memory on a domain.																		
<code>false</code>	Does not omit the use of memory on a domain (default).																		

If `no-io` is specified for *option*, either of the following can be specified for *value*:

<code>true</code>	Omits the use of I/O devices on a domain.
<code>false</code>	Does not omit the use of I/O devices on a domain (default).

If `float` is specified for *option*, either of the following can be specified for *value*:

<code>true</code>	Gives a higher priority regarding floating boards.
<code>false</code>	Does not give a higher priority regarding floating boards (default).

OPERANDS

The following operand is supported:

<i>lsb</i>	Specifies the number of the LSB whose information is to be set. Specify by using an integer ranging from 0 to 15. Multiple <i>lsbs</i> can be specified by delimiting with spaces. Specifies unique <i>lsb</i> within the domain. If the same <i>lsb</i> number is specified, an error occurs.
------------	--

EXTENDED DESCRIPTION

- If the XSB associated with the specified LSB has been configured in the domain configuration, the information that is set for the LSB cannot be changed. Before making such a change, unassign the XSB from the domain configuration by executing the `deleteboard(8)` command, or re-configure it in another domain configuration by executing the `moveboard(8)` command.
- If the specified domain is running, the value of `policy` cannot be changed. To change the value, first turn off power to the domain.
- The currently set DCL information can be checked by using the `showdcl(8)` command.

EXAMPLES

EXAMPLE 1 Sets XSB#00-0 for LSB#00 and XSB#00-1 for LSB#01 of domain ID 0.

```
XSCF> setdcl -d 0 -a 00=00-0 01=00-1
```

EXAMPLE 2 Sets `no-mem=true` for LSB#00 and #01 of domain ID 0.

```
XSCF> setdcl -d 0 -s no-mem=true 00 01
```

EXAMPLE 3 Sets `policy=system` for domain ID 0.

```
XSCF> setdcl -d 0 -s policy=system
```

EXAMPLE 4 Clear the XSBs associated with LSB#00 and #01 of domain ID 0.

```
XSCF> setdcl -d 0 -r 00 01
```

EXIT STATUS The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO **addboard (8), deleteboard (8), moveboard (8), setupfru (8), showboards (8), showdcl (8), showdevices (8), showfru (8)**

setdcl(8)



NAME	setdomainmode - set a domain mode
SYNOPSIS	setdomainmode [[-q] -{y n}] -d <i>domain_id</i> -m <i>function=mode</i> setdomainmode -h
DESCRIPTION	<p>setdomainmode(8) sets a domain mode for the specified domain.</p> <p>The domain mode of each domain can be set. The domain mode includes the following settings:</p> <ul style="list-style-type: none">■ OpenBoot PROM diagnostic levels (<code>Diagnostics Level</code>)■ Whether to enable or disable the host watchdog and suppress break signal reception (<code>Secure Mode</code>). The default of the host watchdog is enable and suppress break signal reception is enable.■ Whether to enable or disable the auto boot function used at domain startup (<code>Autoboot</code>) <p>If the domain mode is set, the current settings of the domain mode are listed.</p>
Privileges	<p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none">■ <code>Diagnostics level</code>: fieldeng Can run this command for all domains.■ <code>Secure Mode, Autoboot</code>: platadm Can run this command for all domains. domainadm Can run this command only for your managed domains. <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

- d *domain_id* Specifies the domain ID to be set. *domain_id* can be 0–23 depending on the system configuration.
- h Displays usage statement. When used with other options or operands, an error occurs.
- m *function=mode* Sets the domain mode and specifies its values. Use *function* to set the domain mode. One of the following can be specified:
 - diag Specifies the OpenBoot PROM diagnostic level.
 - secure Specifies whether to enable or disable the host watchdog and suppress break signal reception.
 - autoboot Specifies whether to enable or disable the Auto boot function.

When *diag* is specified for *function*, any of the following can be specified for *mode*:

Note – This function cannot be specified for the domain which is powered on.

 - none No diagnosis is performed.
 - min Sets standard for the diagnostic level.
 - max Sets maximum for the diagnostic level.

When *secure* or *autoboot* is specified for *function*, one of the following can be specified for *mode*:

 - on Enables specified function.
 - off Disables specified function.
- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- y Automatically answers 'y' (yes) to all prompts.

EXTENDED DESCRIPTION

- When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- If the Mode switch on the operator panel is set to *Service*, the settings have the following values regardless of the domain mode settings of the `setdomainmode(8)` command:
 - Diagnostics Level: operates as the `setdomainmode(8)` command setting
 - Secure Mode, Autoboot: off

- *value* specified with '-m diag' is applied to the diag level of the addboard(8) command and moveboard(8) command.
- The settings of the current domain mode can be checked by using the showdomainmode(8) command.

EXAMPLES

EXAMPLE 1 The setting of the diagnostic level for domain ID 0 is none.

```
XSCF> setdomainmode -d 0 -m diag=none
Diagnostic Level      :min          -> none
Secure Mode          :on           -> -
Autoboot             :on           -> -
The specified modes will be changed.
Continue? [y|n]:y
configured.
Diagnostic Level      :none
Secure Mode           :on (host watchdog: available Break-signal:non-
receive)
Autoboot              :on (autoboot:on)
```

EXAMPLE 2 The Auto boot function is enabled for domain ID 0. Automatically answers 'y' to all prompts.

```
XSCF> setdomainmode -y -d 0 -m autoboot=on
Diagnostic Level      :none          -> -
Secure Mode          :on            -> -
Autoboot             :off           -> on
The specified modes will be changed.
Continue? [y|n]:y
configured.
Diagnostic Level      :none
Secure Mode           :on (host watchdog: available Break-signal:non-
receive)
Autoboot              :on (autoboot:on)
```

EXAMPLE 3 Cancels the setdomainmode(8) command execution that is in progress.

```
XSCF> setdomainmode -d 0 -m diag=none
Diagnostic Level      :min          -> none
Secure Mode          :on           -> -
Autoboot             :on           -> -
The specified modes will be changed.
Continue? [y|n]:n
```

EXAMPLE 4 The Auto boot function is enabled for domain ID 0. Suppresses prompts, and automatically answers 'y' to all prompts

```
XSCF> setdomainmode -q -y -d 0 -m autoboot=on
```

setdomainmode(8)

EXIT STATUS	The following exit values are returned:
0	Successful completion.
>0	An error occurred.
SEE ALSO	showdomainmode (8)

NAME	setdomparam - forcibly rewrite OpenBoot PROM environment variables										
SYNOPSIS	<p>setdomparam [[-q] [-y n]] -d <i>domain_id</i> use-nvramrc</p> <p>setdomparam [[-q] [-y n]] -d <i>domain_id</i> security-mode</p> <p>setdomparam [[-q] [-y n]] -d <i>domain_id</i> set-defaults</p> <p>setdomparam -h</p>										
DESCRIPTION	<p>The setdomparam(8) command rewrites OpenBoot PROM environment variables.</p> <p>This command can rewrite variables of a specified domain or all the domains.</p> <p>The following OpenBoot PROM environment variables can be specified.</p> <table> <tr> <td>use-nvramrc?</td><td>Whether to execute the contents of the NVRAM at the boot or reboot of a domain.</td></tr> <tr> <td>security-mode?</td><td>Firmware security level setting</td></tr> <tr> <td>set-defaults</td><td>Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory</td></tr> </table>	use-nvramrc?	Whether to execute the contents of the NVRAM at the boot or reboot of a domain.	security-mode?	Firmware security level setting	set-defaults	Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory				
use-nvramrc?	Whether to execute the contents of the NVRAM at the boot or reboot of a domain.										
security-mode?	Firmware security level setting										
set-defaults	Whether to restore OpenBoot PROM environment variables to the settings at the time of shipment from the factory										
Privileges	<p>You must have one of the following privileges to run this command:</p> <table> <tr> <td>platadm</td><td>Can run this command for all domains.</td></tr> <tr> <td>domainadm</td><td>Can run this command only for your managed domain.</td></tr> </table> <p>Refer to setprivileges(8) for more information.</p>	platadm	Can run this command for all domains.	domainadm	Can run this command only for your managed domain.						
platadm	Can run this command for all domains.										
domainadm	Can run this command only for your managed domain.										
OPTIONS	<p>The following options are supported:.</p> <table> <tr> <td>-d <i>domain_id</i></td><td>Specifies a ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr> <tr> <td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr> <tr> <td>-y</td><td>Automatically answers 'y' (yes) to all prompts.</td></tr> </table> <p>Note – The domain which is powered on cannot specify.</p>	-d <i>domain_id</i>	Specifies a ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-n	Automatically answers 'n' (no) to all prompts.	-q	Suppresses all messages to stdout, including prompts.	-y	Automatically answers 'y' (yes) to all prompts.
-d <i>domain_id</i>	Specifies a ID of the domain which OpenBoot PROM environment variables are rewritten. <i>domain_id</i> can be 0–23 depending on the system configuration.										
-h	Displays usage statement. When used with other options or operands, an error occurs.										
-n	Automatically answers 'n' (no) to all prompts.										
-q	Suppresses all messages to stdout, including prompts.										
-y	Automatically answers 'y' (yes) to all prompts.										

OPERANDS	The following operands are supported:
	<p><code>use-nvramrc</code> Sets false for the <code>use-nvramrc?</code> environment variable.</p> <p><code>security-mode</code> Sets none to the <code>security-mode?</code> environment variable.</p> <p><code>set-defaults</code> Restores the OpenBoot PROM environment variables to the settings at the time of shipment from the factory</p>
EXTENDED DESCRIPTION	When the command is executed, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
EXAMPLES	<p>EXAMPLE 1 Sets false for the <code>use-nvramrc?</code> OpenBoot PROM environment variable of domain ID 0.</p> <pre>XSCF> setdomrarm -d 0 use-nvramrc DomainIDs of domains that will be affected:00,01 OpenBoot PROM variable use-nvram will be set to false. Continue? [y n]:y</pre> <p>EXAMPLE 2 Sets none for the <code>security-mode</code> OpenBoot PROM environment variable of domain ID 0.</p> <pre>XSCF> setdomrarm -d 0 security-mode DomainIDs of domains that will be affected:00,01 OpenBoot PROM variable security-mode will be set to none. Continue? [y n]:y</pre> <p>EXAMPLE 3 Initializes the OpenBoot PROM environment variables of the domain ID 0 to the settings at the time of shipment from the factory.</p> <pre>XSCF> setdomrarm -d 0 set-defaults DomainIDs of domains that will be affected:00 All OpenBoot PROM variable will be reset to original default values. Continue? [y n]:y</pre> <p>EXAMPLE 4 Initializes the OpenBoot PROM environment variables of the domain ID 1 to the settings at the time of shipment from the factory. Automatically replies with 'y' without displaying the prompt.</p> <pre>XSCF> setdomrarm -q -y -d 1 set-defaults</pre>
EXIT STATUS	<p>The following exit values are returned:</p> <p>0 Successful completion.</p> <p>>0 An error occurred.</p>

NAME	setdscp - set the IP address assignments for the Domain to Service Processor Communications Protocol (DSCP)
SYNOPSIS	<p>setdscp [-v]</p> <p>setdscp [-f] [-v] [[-q] -{y n}] -i <i>address</i> -m <i>netmask</i></p> <p>setdscp [-f] [-v] [[-q] -{y n}] -s -i <i>address</i></p> <p>setdscp [-f] [-v] [[-q] -{y n}] -d <i>domain_id</i> -i <i>address</i></p> <p>setdscp -h</p>
DESCRIPTION	<p>setdscp(8) assigns IP addresses to the DSCP links.</p> <p>setdscp is intended for initial configuration only. Domains should not be powered on when running this command.</p> <p>Note – You are required to reboot the Service Processor after modifying the DSCP IP address assignment using this command, and before the IP addresses you specified are used.</p> <p>You can specify a network address for use by all of the DSCP links using the -i <i>address</i> and -m <i>netmask</i> arguments. In this mode of operation, the IP addresses used by the Service Processor and each domain-specific DSCP link are automatically selected from within the range of addresses indicated by the network address.</p> <p>You can set the IP address of an individual, domain-specific DSCP link independently of all other DSCP address settings using the -d <i>domain_id</i> and -i <i>address</i> arguments.</p> <p>You can set the IP address of the Service Processor independently of all other DSCP address settings using the -s and -i <i>address</i> arguments.</p> <p>If DSCP has been previously configured, the current settings are displayed. If they are correct, they can be accepted by pressing the [Return] key.</p> <p>An error occurs if you set the address of the Service Processor or a domain to a value that either is out of range for a previously configured network address, or conflicts with an address already assigned to another domain or the Service Processor. You can override such errors by using the -f option.</p> <p>Using the -f option with a conflicting IP address may cause misconfiguration. You must resolve such conflicts for DSCP to operate properly.</p> <p>With no arguments, setdscp enters an interactive mode that prompts you to enter all of the DSCP IP address information sequentially. (The noninteractive method, setting up the IP addresses of all domains using the -i and -m options, is preferred.) After inputting all the requested settings, you can review the settings and decide whether to commit them to the DSCP configuration database.</p>

	<p>Note – The <code>-y</code> and <code>-n</code> options can be used (with or without the <code>-q</code> option) when running <code>setdscp</code> in interactive mode.</p>
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> <code>-d domain_id</code> Domain identifier. Must be used with <code>-i address</code> option. <i>domain_id</i> can be 0–23 depending on the system configuration. <code>-f</code> Forces <code>setdscp</code> to ignore out of range and address conflict errors and commits the new settings. <code>-h</code> Displays usage statement. <p>When used with other options or operands, an error occurs.</p> <ul style="list-style-type: none"> <code>-i address</code> Specifies an IP address in the IPv4 dotted decimal format. <ul style="list-style-type: none"> When used with <code>-m netmask</code> it specifies a network address for all DSCP links in the system. When used with <code>-d domain_id</code> it specifies an individual, domain-specific IP address for use by DSCP. When used with <code>-s</code>, it specifies the IP address used for the Service Processor end of all DSCP links in the system. <code>-m netmask</code> Specifies a netmask address for all DSCP links in the system. Must be used with <code>-i address</code>. <code>-n</code> Automatically answers <code>n</code> (no) to all prompts. <code>-q</code> Suppresses all messages to stdout, including prompts. <code>-s</code> Must be used with the <code>-i address</code> option. Specifies the Service Processor end of all DSCP links in the system. <code>-v</code> Displays a detailed message. If this option is specified with the <code>-q</code> option, the <code>-v</code> option is ignored. <code>-y</code> Automatically answers <code>y</code> (yes) to all prompts.
EXAMPLES	<hr/> <p>Caution – The IP addresses shown in the following examples are examples only. Refer to the site planning guide for your server for information about valid IP addresses for your network. Using invalid network IP addresses could, under certain circumstances, make your system unbootable!</p> <hr/>

EXAMPLE 1 Assigning All DSCP Addresses

```
XSCF> setdscp -y -i 10.1.1.0 -m 255.255.255.0
Commit these changes to the database? [y|n] : y
```

EXAMPLE 2 Assigning an Alternative IP address to Domain 1

```
XSCF> setdscp -d 1 -i 10.1.1.26
Commit these changes to the database? [y|n] : y
```

EXAMPLE 3 Specifying a Netmask Address With -q and -y Options

```
XSCF> setdscp -q -y -i 10.1.1.0 -m 255.255.255.0
```

EXAMPLE 4 Setting DSCP Addresses Using Interactive Mode

The default value displayed by each prompt in interactive mode matches the previous configuration. This makes it possible to interactively review and modify DSCP configuration. In this example you only input the network address portion and then press ENTER to accept all subsequent settings.

```
XSCF> setdscp
DSCP network [0.0.0.0] > 10.1.1.0

DSCP netmask [255.0.0.0] > 255.255.255.0

XSCF address [10.1.1.1] > [ENTER]
Domain #00 address [10.1.1.2] > [ENTER]
Domain #01 address [10.1.1.3] > [ENTER]
Domain #02 address [10.1.1.4] > [ENTER]
Domain #03 address [10.1.1.5] > [ENTER]
Domain #04 address [10.1.1.6] > [ENTER]
Domain #05 address [10.1.1.7] > [ENTER]
Domain #06 address [10.1.1.8] > [ENTER]
Domain #07 address [10.1.1.9] > [ENTER]
Domain #08 address [10.1.1.10] > [ENTER]
Domain #09 address [10.1.1.11] > [ENTER]
Domain #10 address [10.1.1.12] > [ENTER]
Domain #11 address [10.1.1.13] > [ENTER]
Domain #12 address [10.1.1.14] > [ENTER]
Domain #13 address [10.1.1.15] > [ENTER]
Domain #14 address [10.1.1.16] > [ENTER]
Domain #15 address [10.1.1.17] > [ENTER]
Domain #16 address [10.1.1.18] > [ENTER]
Domain #17 address [10.1.1.19] > [ENTER]
Domain #18 address [10.1.1.20] > [ENTER]
Domain #19 address [10.1.1.21] > [ENTER]
Domain #20 address [10.1.1.22] > [ENTER]
Domain #21 address [10.1.1.23] > [ENTER]
Domain #22 address [10.1.1.24] > [ENTER]
Domain #23 address [10.1.1.25] > [ENTER]
Commit these changes to the database [y|n]? y
```

setdscp(8)

EXIT STATUS	The following exit values are returned:
--------------------	---

0	Successful completion.
>0	An error occurred.

SEE ALSO	showdscp (8)
-----------------	---------------------

NAME	setdualpowerfeed - set dual power feed mode								
SYNOPSIS	setdualpowerfeed -s <i>key</i> setdualpowerfeed -h								
DESCRIPTION	<p>The setdualpowerfeed(8) command specifies dual power feed mode in the system.</p> <p>The setdualpowerfeed(8) command is valid in a midrange server only. In a high-end server, when the power cabinet for dual power feed connected, it automatically configures the dual power feed mode.</p> <p>Any change made in dual power feed mode becomes valid when circuit breaker to the system is turned on. Before rebooting the system, a message that dual power feed mode was changed is displayed.</p>								
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>key</i></td><td>Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i>:</td></tr><tr><td>enable</td><td>Enables the dual power feed mode.</td></tr><tr><td>disable</td><td>Disables dual power feed mode.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>key</i>	Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i> :	enable	Enables the dual power feed mode.	disable	Disables dual power feed mode.
-h	Displays usage statement. When used with other options or operands, an error occurs.								
-s <i>key</i>	Sets dual power feed mode in the system. Either of the following can be specified for <i>key</i> :								
enable	Enables the dual power feed mode.								
disable	Disables dual power feed mode.								
EXTENDED DESCRIPTION	<p>The state of the current dual power feed mode can be checked by using the showdualpowerfeed(8) command.</p>								
EXAMPLES	<p>EXAMPLE 1 Disables dual power feed mode in the system. Before rebooting the system, a message is displayed.</p> <pre>XSCF> setdualpowerfeed -s disable enable -> disable NOTE: Dual power feed will be disabled the next time the platform is powered on.</pre>								

EXAMPLE 2 Enables dual power feed mode in the system. Before rebooting the system, a message is displayed.

```
XSCF> setdualpowerfeed -s enable  
disable -> enable
```

NOTE: Dual power feed will be enabled the next time the platform is powered on.

EXIT STATUS

The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO

showdualpowerfeed (8)

NAME	setemailreport - set up the email report configuration data						
SYNOPSIS	<p>setemailreport</p> <p>setemailreport [-v] [-t]</p> <p>setemailreport [-s <i>variable= value</i>]...</p> <p>setemailreport -h</p>						
DESCRIPTION	<p>setemailreport(8) sets up email reporting configuration data for remote maintenance. Once the the configuration data is set up, it is used by the fault management daemon to send email reports as required.</p> <p>If you run the <code>setemailreport</code> command without specifying any options, you will be prompted to answer whether email reporting is to be enabled. If enabled, you will be prompted to provided a list of email addresses.</p> <p>Where:</p> <table><tr><td>-a</td><td>Add recipient</td></tr><tr><td>-d</td><td>Delete recipient</td></tr><tr><td>-r</td><td>Replace recipient (Default)</td></tr></table> <p>You can set up email reporting noninteractively by using the <code>-s</code> option.</p> <p>After the email server and port have been set up using <code>setsmtp(8)</code>, you can use <code>setemailreport -t</code> to send a test email message.</p>	-a	Add recipient	-d	Delete recipient	-r	Replace recipient (Default)
-a	Add recipient						
-d	Delete recipient						
-r	Replace recipient (Default)						
Privileges	<p>You must have <code>platadm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> and for more information.</p>						

OPTIONS

The following options are supported:

- h Displays usage statement.
- When used with other options or operands, an error occurs.
- s *variable=value* Configures email reporting.
- Valid entries for *variable* are:
 - enable
 - recipient
- Valid *value* entries for enable are:
 - yes
 - no
- Valid *value* entries for recipient are:
 - Any valid company email account
- t Sends test email.
- v Specifies verbose output.

EXAMPLES

EXAMPLE 1 Enable Email Reporting Interactively

```
XSCF> setemailreport
Enable Email Reporting? [no]:yes
Email Recipient Address [useradm@company.com]:
Do you want to send a test mail now (Yes/No): no
```

EXAMPLE 2 Adding an Email Report Recipient Using -a

```
XSCF> setemailreport
Enable Email Reporting? [yes]:[RETURN]
Email Recipient Address[useradmin@company.com]: -a adm2@company.com
```

EXAMPLE 3 Deleting an Email Report Recipient Using -d

```
XSCF> setemailreport
Enable Email Reporting? [yes]:[RETURN]
Email Recipient Address[adm2@company.com]: -d adm2@company.com
```

EXAMPLE 4 Enable Email Reporting Noninteractively

```
XSCF> setemailreport -s enable=yes -s
recipient="useradm@company.com, adm2@company.com"
```

EXAMPLE 5 Sending Test Email

```
XSCF> setemailreport -t  
....Sending test email to useradm@company.com  
[Email contents shown below]  
Host Name: jupiter  
Send Timestamp: 04-20-2006 16:31:45 PST  
Mail Server: 10.4.1.1
```

EXIT STATUS The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO **setsmtp**(8), **showemailreport**(8)

setemailreport(8)



NAME	sethostname - set a host name and a DNS domain name for an XSCF unit				
SYNOPSIS	sethostname <i>xscfu hostname</i> sethostname -d <i>domainname</i> sethostname -h				
DESCRIPTION	<p>sethostname(8) command sets a host name and a DNS domain name for an XSCF unit.</p> <p>When the XSCF unit is duplicated configuration, the DNS domain name becomes common to XSCF units. The host name can be specified for each XSCF unit.</p>				
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>				
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-d</td><td>Specifies a DNS domain name.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>	-d	Specifies a DNS domain name.	-h	Displays usage statement. When used with other options or operands, an error occurs.
-d	Specifies a DNS domain name.				
-h	Displays usage statement. When used with other options or operands, an error occurs.				

OPERANDS	<p>The following operands are supported:</p> <table><tr><td><i>domainname</i></td><td>Specifies a DNS domain name to be set for the XSCF unit. The <i>domainname</i> is specified as up to 64 characters, with label elements delimited by a period (.). If a domain name exceeding 64 characters is specified, an error occurs. A label element can contain alphanumeric characters and hyphens (-). Each label element must always begin with an alphabetic character and end with an alphanumeric character.</td></tr><tr><td><i>hostname</i></td><td>Specifies a host name to be set for the XSCF unit. The <i>hostname</i> can be specified up to 64 characters. If a host name exceeding 64 characters is specified, an error occurs. Alphanumeric character and hyphens (-) can be used. However, a host name must always begin with an alphabetic character and end with an alphanumeric character.</td></tr><tr><td><i>xscfu</i></td><td>Specifies the name of the XSCF unit to be set. The following values can be specified, depending on the system configuration. If no value is specified, an error occurs.</td></tr><tr><td><i>xscf#0</i></td><td>XSCF unit 0</td></tr><tr><td><i>xscf#1</i></td><td>XSCF unit 1 (when a duplicated configuration is used)</td></tr></table>	<i>domainname</i>	Specifies a DNS domain name to be set for the XSCF unit. The <i>domainname</i> is specified as up to 64 characters, with label elements delimited by a period (.). If a domain name exceeding 64 characters is specified, an error occurs. A label element can contain alphanumeric characters and hyphens (-). Each label element must always begin with an alphabetic character and end with an alphanumeric character.	<i>hostname</i>	Specifies a host name to be set for the XSCF unit. The <i>hostname</i> can be specified up to 64 characters. If a host name exceeding 64 characters is specified, an error occurs. Alphanumeric character and hyphens (-) can be used. However, a host name must always begin with an alphabetic character and end with an alphanumeric character.	<i>xscfu</i>	Specifies the name of the XSCF unit to be set. The following values can be specified, depending on the system configuration. If no value is specified, an error occurs.	<i>xscf#0</i>	XSCF unit 0	<i>xscf#1</i>	XSCF unit 1 (when a duplicated configuration is used)
<i>domainname</i>	Specifies a DNS domain name to be set for the XSCF unit. The <i>domainname</i> is specified as up to 64 characters, with label elements delimited by a period (.). If a domain name exceeding 64 characters is specified, an error occurs. A label element can contain alphanumeric characters and hyphens (-). Each label element must always begin with an alphabetic character and end with an alphanumeric character.										
<i>hostname</i>	Specifies a host name to be set for the XSCF unit. The <i>hostname</i> can be specified up to 64 characters. If a host name exceeding 64 characters is specified, an error occurs. Alphanumeric character and hyphens (-) can be used. However, a host name must always begin with an alphabetic character and end with an alphanumeric character.										
<i>xscfu</i>	Specifies the name of the XSCF unit to be set. The following values can be specified, depending on the system configuration. If no value is specified, an error occurs.										
<i>xscf#0</i>	XSCF unit 0										
<i>xscf#1</i>	XSCF unit 1 (when a duplicated configuration is used)										
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ To enable the set host name and DNS domain name, execute the <code>applynetwork(8)</code> command and reset the XSCF.■ The currently set host name and DNS domain name of the XSCF unit can be checked by using the <code>shownetwork(8)</code> command.										
EXAMPLES	<p>EXAMPLE 1 Sets the host name <code>scf0_hostname</code> for XSCF unit 0.</p> <pre>XSCF> sethostname xscf#0 scf0_hostname</pre> <p>EXAMPLE 2 Sets the DNS domain name <code>example.com</code> for XSCF unit.</p> <pre>XSCF> sethostname -d example.com</pre>										
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.						
0	Successful completion.										
>0	An error occurred.										
SEE ALSO	<code>applynetwork(8)</code> , <code>showhostname(8)</code>										

NAME	sethttps - start or stop the HTTPS service, which is used in the XSCF network. This command also performs authentication-related settings.
SYNOPSIS	<pre>sethttps [[-q] -{y n}] -c enable</pre> <pre>sethttps -c disable</pre> <pre>sethttps -c genscr country state province locality organization organizationalunit common e-mail</pre> <pre>sethttps [[-q] -{y n}] -c genserverkey</pre> <pre>sethttps -c importca</pre> <pre>sethttps [[-q] -{y n}] -c selfsign country state province locality organization organizationalunit common e-mail</pre> <pre>sethttps -h</pre>
DESCRIPTION	<p>The sethttps(8) command starts or stops the HTTPS service, which is used in the XSCF network. Also, this command performs authentication-related settings for authentication used in the HTTPS service.</p> <p>The following authentication-related items can be set:</p> <ul style="list-style-type: none"> ■ Configuring the self-certification authority ■ Creating a self-signed web server certificate ■ Creating the private key of the web server ■ Creating a web server certificate signing request (CSR) to an external certification authority ■ Importing a web server certificate signed by an external certification authority <p>XSCF does not support HTTP service. Only HTTPS service is supported.</p>
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>

OPTIONS

The following options are supported:

- c {enable|disable} Specify whether to enable the HTTPS service. One of the following values can be specified. If none of them is specified, an error occurs.
 - enable Starts the HTTPS service.
 - disable Stops the HTTPS service.
- c gencsr Creates a CSR.
- c genserverkey Creates the private key of the web server.
- c importca Imports a web server certificate signed by the certification authority to the XSCF.
- c selfsign Configures the self-certification authority. Also, this operand creates a self-signing web server certificate.
- h Displays usage statement. When used with other options or operands, an error occurs.
- n Automatically answers 'n' (no) to all prompts.
- q Suppresses all messages to stdout, including prompts.
- y Automatically answers 'y' (yes) to all prompts.

OPERANDS

The following operands are supported:

- common* Specifies common names such as the creator name and the host name of a server.
- country* Specifies a country name with a two-letter code such as JP or US.
- e-mail* Specifies an E-mail address.
- locality* Specifies a city name, etc.
- organization* Specifies a company name, etc.
- organizationalunit* Specifies an organization such as a section or department.
- state|province* Specifies the name of a state, province, etc.

EXTENDED DESCRIPTION

- The "-c gencsr" must be executed immediately after the "-c genserverkey" is executed. Otherwise, the command results in an error.
- When the HTTPS server is enabled or there is a private certificate authority, web server certificate, or web server secret key, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.

- When the HTTPS server starts, the XSCF is reset.
- The CSR is overwritten.
- In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error.
- The details of the current HTTPS service can be checked by using the `showhttps(8)` command.

EXAMPLES

EXAMPLE 1 Starts the HTTPS service.

```
XSCF> sethttps -c enable
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!
```

The reset continues after this point.

EXAMPLE 2 Stops the HTTPS service.

```
XSCF> sethttps disable
```

EXAMPLE 3 Creates a CSR with the following settings: *country: JP, state | province: Kanagawa, locality: Kawasaki, organization: Example, organizationalunit: development, common: scf_host, e-mail: abc@example.com*

```
XSCF> sethttps -c gencsr JP Kanagawa Kawasaki Example development
\ scf_host abc@example.com
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 4 Creates the self-certification authority with the following settings, and creates a self-signed web server certificate: *country: JP, state | province: Kanagawa, locality: Kawasaki, organization: Example, organizationalunit: development, common: scf_host, e-mail: abc@example.com*

```
XSCF> sethttps -c selfsign JP Kanagawa Kawasaki Example
development scf_host abc@example.com
CA key and CA cert already exist. Do you still wish to update? [y|n] :y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 5 Creates the private key of the web server.

```
XSCF> sethttps -c genserverkey
Server key already exists. Do you still wish to update? [y|n] :y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 6 Creates the private key of the web server. Automatically replies with 'y' to the prompt.

```
XSCF> sethttps -c genserverkey
Server key already exists. Do you still wish to update? [y|n] y
Enter passphrase:
Verifying - Enter passphrase:
```

EXAMPLE 7 Creates the private key of the web server. Automatically replies with 'y' without displaying the prompt.

```
XSCF> sethttps -c genserverkey -q -y  
Enter passphrase:  
Verifying - Enter passphrase:
```

EXAMPLE 8 Imports the web server certificate. To exit, press the Enter key and then press Ctrl+D.

```
XSCF> sethttps -c importca
Please import a certificate:
-----BEGIN CERTIFICATE-----
MIIDdTCCAt6gAwIBAgIBATANBgkqhkiG9w0BAQQFADCBgTELMAkGA1UEBhMCamox
DjAMBjNVBAgTBXN0YXR1MREwDwYDVQQHEHwbsb2Nhbg10eTEVMBMGA1UEChMMb3Jn
YV5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmktZDZANBgNVBAMTBmNvbWl1b3JlEWMBQz
CSqGSIb3DQEJARYHZHwUubWpfbDAEaFw0wNjA1MzAwNTI1MTFvFw0xNjA1MjcwNTI1
MTVvMG4xZCZAJBgNVBAYTAmpqMQ4wDAdDVQQTLEwVzZGZ0ZTEVMBMGA1UEChMMb3Jn
YV5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmktZDZANBgNVBAMTBmNvbWl1b3JlEWMBQz
CSqGSIb3DQEJARYHZHwUubWpfbDBCNzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA
nkPntf+TjtYtYKlNYfB0/YavFpUzkYTLHdt0Pbz/tZmGd3e6Jn34A2W9EC7D9hjLs
j+kaP41A16fWGo7KP3H4iImX0Uysj19Hyk4jLBU51sw8JqvT2utTj1tV5mFPKL6
5A51Yuhf8OGcr+bygl16H1A6Rpm1MSD7VZA0AGDxR0eY0CAEEAA0CAQWggEYMAkG
A1UdEwQCMCAwLAYJYIZIAyb4QgENBB8WHU9wZW5TU0wgr2VuZXJhdGVkIEN1cnRp
ZmljYXR1M0GA1UdGgQWBQBH1IEMj1QyZa8zpt1H16EfLR+EwDCBrgYDVR0jBIGM
GIGjBtBNtQys6jzD7dDhk7wsFeJGVAUTtaGBh6SBhDCBhDCBhDCBhDCBhDCBhDCBh
DjAMBjNVBAgTBXN0YXR1MREwDwYDVQQHEHwbsb2Nhbg10eTEVMBMGA1UEChMMb3Jn
YV5pemF0aW9uMQ8wDQYDVQQLEwZvcmdhbmktZDZANBgNVBAMTBmNvbWl1b3JlEWMBQz
CSqGSIb3DQEJARYHZHwUubWpfbp1IBADANBgkqhkiG9w0BAQFAAOBgQwGgGgGgGgG
yYv0UyW8E8111Abua04IrmjHI4c3jHq9NuSX1w8mJsXKTVmx3WZC3pJDC4f/WoRMKw
R+OpXAVQvqb2tJn3k09y9dq+begEQ4mwknWl17QI7A1BkcW2/Mk0o1IRa6iPlZwg
JoPmXAbRgYAvGUtDzUoYH0j17dRQcVIRA=
-----END CERTIFICATE-----
[Enter]
[Ctrl+D]
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
---	------------------------

>0 An error occurred.

SEE ALSO

showhttps (8)

NAME	setldap - configure the Service Processor as a Lightweight Directory Access Protocol (LDAP) client												
SYNOPSIS	<pre>setldap {-b bind} {-B baseDN} {-c certchain} {-p } {-s servers} {-t user} -T timeout</pre> <pre>setldap -h</pre>												
DESCRIPTION	<p>setldap(8) allows you to configure the Service Processor as an LDAP client.</p> <p>Note – The LDAP client supports passwords only in the CRYPT format; UNIX Crypt or MD5. Therefore the passwords on the LDAP server must support it as well. Refer to the administration guide for your server for more information.</p>												
Privileges	<p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>												
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-B <i>baseDN</i></td><td>Specifies distinguished name for the search base. Maximum character length is 128 characters.</td></tr> <tr> <td>-b <i>bind</i></td><td>Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters</td></tr> <tr> <td>-c <i>certchain</i></td><td>Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i>. The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of TLS when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.</td></tr> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-p</td><td>Sets a password to use when binding to the LDAP server. You will be prompted for the password.</td></tr> </table>	-B <i>baseDN</i>	Specifies distinguished name for the search base. Maximum character length is 128 characters.	-b <i>bind</i>	Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters	-c <i>certchain</i>	Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i> . The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of TLS when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.	-h	Displays usage statement.		When used with other options or operands, an error occurs.	-p	Sets a password to use when binding to the LDAP server. You will be prompted for the password.
-B <i>baseDN</i>	Specifies distinguished name for the search base. Maximum character length is 128 characters.												
-b <i>bind</i>	Sets the identity to use when binding to the LDAP server. Maximum character length is 128 characters												
-c <i>certchain</i>	Imports an LDAP server certificate chain from the remote file specified in <i>certchain</i> . The certificate chain must be in PEM format. Remote files are specified using the standard scp syntax, that is, [user@]host:file., and imported using scp. If the copy requires a user password you will be prompted for it. Use of this option implicitly enables the use of TLS when connecting to LDAP. This may be disabled by specifying <i>certchain</i> as none. The certificate chain must be 64 Kbytes in size or less, and it must be valid or it will be rejected.												
-h	Displays usage statement.												
	When used with other options or operands, an error occurs.												
-p	Sets a password to use when binding to the LDAP server. You will be prompted for the password.												

- s *servers*** Sets the primary and secondary LDAP servers and ports. *servers* is a comma-separated list of *server:port*. Ports are specified numerically and servers can be specified either by name or IP address in the dotted decimal format. For example, 10.8.31.14.636, company:636. The first server in the list is the primary. Server names must be resolvable. Maximum name length is 128 characters.
- t *user*** Tests connections to all configured LDAP servers. Attempts to retrieve the password data for the specified user from each configured server and reports success or failure in each case.
- T *timeout*** Sets the maximum time allowed for an LDAP search before it returns search results.

EXAMPLES**EXAMPLE 1** Configuring Bind Name

```
XSCF> setldap -b user -p
Password: <Enter password>
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  Not set
LDAP Search Timeout:      0
Bind Password:            Set
LDAP Servers:             None
CERTS:                   None
```

EXAMPLE 2 Configuring Base Distinguished Name

```
XSCF> setldap -B ou=people,dc=company,dc=com
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:      0
Bind Password:            Set
LDAP Servers:             None
CERTS:                   None
```

EXAMPLE 3 Setting the LDAP Timeout

```
XSCF> setldap -T 60
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:      60
Bind Password:            Set
LDAP Servers:             None
CERTS:                   None
```

EXAMPLE 4 Setting the LDAP Server

```

XSCF> setldap -s ldap://company.com,ldaps://company2.com
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:      60
Bind Password:            Set
LDAP Servers:             ldap://company.com:389 ldaps://company2.com:636
CERTS:                    None

```

EXAMPLE 5 Importing a Certificate

```

XSCF> setldap -c user@remote.machine:/path/to/cacert.pem
XSCF> showldap
Bind Name:                user
Base Distinguished Name:  ou=people,dc=company,dc=com
LDAP Search Timeout:      60
Bind Password:            Set
LDAP Servers:             ldap://company.com:389 ldaps://company2.com:636
CERTS:                    cacert.pem

```

EXAMPLE 6 Testing the LDAP connection

```

XSCF> setldap -t jsmith
company.com:389 PASSED

```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

showldap(8)

setldap(8)

NAME	setlocale - set the default locale of the XSCF								
SYNOPSIS	setlocale -s <i>locale</i> setlocale -h								
DESCRIPTION	<p>The setlocale(8) command sets the default locale of the XSCF.</p> <p>The locale that can be set is English or Japanese.</p>								
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-s <i>locale</i></td><td>Specifies the default locale of the XSCF. Either of the following can be specified for <i>locale</i>:</td></tr><tr><td>C</td><td>Sets the locale for English.</td></tr><tr><td>ja_JP.UTF-8</td><td>Sets the locale for Japanese.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.	-s <i>locale</i>	Specifies the default locale of the XSCF. Either of the following can be specified for <i>locale</i> :	C	Sets the locale for English.	ja_JP.UTF-8	Sets the locale for Japanese.
-h	Displays usage statement. When used with other options or operands, an error occurs.								
-s <i>locale</i>	Specifies the default locale of the XSCF. Either of the following can be specified for <i>locale</i> :								
C	Sets the locale for English.								
ja_JP.UTF-8	Sets the locale for Japanese.								
EXTENDED DESCRIPTION	<ul style="list-style-type: none">■ The specified locale becomes effective after the subsequent login.■ The currently set locale can be checked by using the showlocale(8) command.								
EXAMPLES	<p>EXAMPLE 1 Sets the XSCF default locale for English.</p> <pre>XSCF> setlocale -s C C</pre> <p>EXAMPLE 2 Sets the XSCF default locale for Japanese.</p> <pre>XSCF> setlocale -s ja_JP.UTF-8 ja_JP.UTF-8</pre>								
EXIT STATUS	<p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>>0</td><td>An error occurred.</td></tr></table>	0	Successful completion.	>0	An error occurred.				
0	Successful completion.								
>0	An error occurred.								
SEE ALSO	showlocale(8)								

setlocale(8)



NAME	setlocator - control the blinking of the CHECK LED on the operator panel						
SYNOPSIS	setlocator <i>value</i> setlocator -h						
DESCRIPTION	<p>setlocator(8) command controls the blink state of the CHECK LED on the operator panel.</p> <p>The following states can be set:</p> <table><tr><td>Start blinking</td><td>Makes the CHECK LED blink.</td></tr><tr><td>Stop blinking</td><td>Stops the blinking of the CHECK LED.</td></tr></table>	Start blinking	Makes the CHECK LED blink.	Stop blinking	Stops the blinking of the CHECK LED.		
Start blinking	Makes the CHECK LED blink.						
Stop blinking	Stops the blinking of the CHECK LED.						
Privileges	<p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>						
OPTIONS	<p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>	-h	Displays usage statement. When used with other options or operands, an error occurs.				
-h	Displays usage statement. When used with other options or operands, an error occurs.						
OPERANDS	<p>The following operand is supported:</p> <table><tr><td><i>value</i></td><td>Specifies the CHECK LED state. One of the following can be specified:</td></tr><tr><td>blink</td><td>Starts the CHECK LED blinking.</td></tr><tr><td>reset</td><td>Stops the CHECK LED blinking.</td></tr></table>	<i>value</i>	Specifies the CHECK LED state. One of the following can be specified:	blink	Starts the CHECK LED blinking.	reset	Stops the CHECK LED blinking.
<i>value</i>	Specifies the CHECK LED state. One of the following can be specified:						
blink	Starts the CHECK LED blinking.						
reset	Stops the CHECK LED blinking.						
EXTENDED DESCRIPTION	<p>The showlocator(8) command can be used to check the CHECK LED state.</p>						
EXAMPLES	<p>EXAMPLE 1 Starts the CHECK LED blinking.</p> <pre>XSCF> setled blink</pre> <p>EXAMPLE 2 Stops the CHECK LED blinking.</p> <pre>XSCF> setled reset</pre>						

setlocator(8)

EXIT STATUS	The following exit values are returned:	
	0	Successful completion.
	>0	An error occurred.
SEE ALSO	showlocator (8)	

NAME	setlookup - enable or disable the use of the Lightweight Directory Access Protocol (LDAP) server for authentication and privilege lookup
SYNOPSIS	setlookup -a {local ldap} setlookup -p {local ldap} setlookup -h
DESCRIPTION	setlookup(8) sets whether authentication and privileges data are looked up in LDAP or not.
Privileges	You must have useradm privileges to run this command. Refer to setprivileges(8) for more information.
OPTIONS	The following options are supported: -a Sets the authentication lookup. Used with one of the required operands ldap or local. -h Displays usage statement. When used with other options or operands, an error occurs. -p Sets privileges lookup. Used with one of the required operands ldap or local.
OPERANDS	The following operands are supported: ldap Used with the -a and -p options. When set to ldap, authentication or privileges are first looked up locally and then in LDAP if not found locally. local Used with the -a and -p options. When set to local, authentication or privileges are looked up only locally.
EXAMPLES	EXAMPLE 1 Enabling LDAP Lookup of Privilege Data XSCF> setlookup -p ldap
EXIT STATUS	The following exit values are returned: 0 Successful completion. >0 An error occurred.
SEE ALSO	showlookup (8)

setlookup(8)

NAME	setnameserver - set the domain name system (DNS) servers used in the XSCF network								
SYNOPSIS	<p>setnameserver [-c add] <i>address</i> ...</p> <p>setnameserver -c del <i>address</i> ...</p> <p>setnameserver -c del -a</p> <p>setnameserver -h</p>								
DESCRIPTION	<p>setnameserver(8) command specifies the DNS servers used in the XSCF network.</p> <p>Up to three DNS servers can be registered for XSCF. Any attempt to register four or more DNS servers causes an error.</p>								
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-a</td><td>Deletes all the DNS servers that are currently registered. This option is used with the "-c del".</td></tr><tr><td>-c add</td><td>Adds the host with the specified IP address as a DNS server. This option is used together with <i>address</i>. If the -c option is omitted, "-c add" is assumed specified. When a DNS server is registered, the existing setting is deleted, and overwriting is performed with the specified address.</td></tr><tr><td>-c del</td><td>Deletes the host with the specified IP address from the DNS servers that are set. If the -c option is omitted, "-c add" is assumed specified.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>	-a	Deletes all the DNS servers that are currently registered. This option is used with the "-c del".	-c add	Adds the host with the specified IP address as a DNS server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is assumed specified. When a DNS server is registered, the existing setting is deleted, and overwriting is performed with the specified address.	-c del	Deletes the host with the specified IP address from the DNS servers that are set. If the -c option is omitted, "-c add" is assumed specified.	-h	Displays usage statement. When used with other options or operands, an error occurs.
-a	Deletes all the DNS servers that are currently registered. This option is used with the "-c del".								
-c add	Adds the host with the specified IP address as a DNS server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is assumed specified. When a DNS server is registered, the existing setting is deleted, and overwriting is performed with the specified address.								
-c del	Deletes the host with the specified IP address from the DNS servers that are set. If the -c option is omitted, "-c add" is assumed specified.								
-h	Displays usage statement. When used with other options or operands, an error occurs.								
OPERANDS	<p>The following operand is supported:</p> <table><tr><td>address</td><td>Specifies the IP address of a DNS server to be added or deleted using four sets of integers. Up to three addresses delimited by the space can be specified. The following <i>address</i> form is accepted:</td></tr><tr><td>xxx.xxx.xxx.xxx</td><td></td></tr><tr><td>xxx</td><td>An integer from 0–255. Zero suppression can be used to specify the integer.</td></tr></table>	address	Specifies the IP address of a DNS server to be added or deleted using four sets of integers. Up to three addresses delimited by the space can be specified. The following <i>address</i> form is accepted:	xxx.xxx.xxx.xxx		xxx	An integer from 0–255. Zero suppression can be used to specify the integer.		
address	Specifies the IP address of a DNS server to be added or deleted using four sets of integers. Up to three addresses delimited by the space can be specified. The following <i>address</i> form is accepted:								
xxx.xxx.xxx.xxx									
xxx	An integer from 0–255. Zero suppression can be used to specify the integer.								

**EXTENDED
DESCRIPTION**

- If multiple DNS servers are specified, names are solved in the order specified.
- The currently set DNS server can be checked by using the `shownameserver(8)` command.

EXAMPLES

EXAMPLE 1 Adds the hosts with the IP addresses 192.168.1.2, 10.18.108.10, and 10.24.1.2 as DNS server. Names are solved in the order specified.

```
XSCF> setnameserver 192.168.1.2 10.18.108.10 10.24.1.2
```

EXAMPLE 2 Deletes the host with the IP address 10.18.108.10 from the DNS server.

```
XSCF> setnameserver -c del 10.18.108.10
```

EXAMPLE 3 Deletes all the DNS servers.

```
XSCF> setnameserver -c del -a
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

shownameserver(8)

NAME	setnetwork - configure a network interface using by XSCF														
SYNOPSIS	<p>setnetwork [-m <i>addr</i>] <i>interface address</i></p> <p>setnetwork -c {up down} <i>interface</i></p> <p>setnetwork -h</p>														
DESCRIPTION	<p>setnetwork(8) command configures a network interface using by XSCF.</p> <p>The following settings can be made for the specified network interface:</p> <ul style="list-style-type: none"> ■ Whether to enable or disable the network interface. ■ IP address ■ Net mask <p>An IP address and net mask become valid immediately after being set.</p>														
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>														
OPTIONS	<p>The following options are supported:</p> <table border="0"> <tr> <td style="vertical-align: top;">-c {up down}</td><td>Specifies whether to enable the specified network interface. One of the following values can be specified. If none of them is specified, an error occurs.</td></tr> <tr> <td style="padding-left: 40px;">up</td><td>Enables the network interface.</td></tr> <tr> <td style="padding-left: 40px;">down</td><td>Disables the network interface.</td></tr> <tr> <td style="vertical-align: top;">-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td style="vertical-align: top;">-m <i>addr</i></td><td>Specifies a net mask. If the -m option is omitted, the net mask corresponding to <i>address</i> is set. The following <i>addr</i> form is accepted:</td></tr> <tr> <td style="padding-left: 40px;"><i>xxx.xxx.xxx.xxx</i></td><td></td></tr> <tr> <td style="padding-left: 40px;"><i>xxx</i></td><td>An integer from 0–255. Zero suppression can be used to specify the integer.</td></tr> </table>	-c {up down}	Specifies whether to enable the specified network interface. One of the following values can be specified. If none of them is specified, an error occurs.	up	Enables the network interface.	down	Disables the network interface.	-h	Displays usage statement. When used with other options or operands, an error occurs.	-m <i>addr</i>	Specifies a net mask. If the -m option is omitted, the net mask corresponding to <i>address</i> is set. The following <i>addr</i> form is accepted:	<i>xxx.xxx.xxx.xxx</i>		<i>xxx</i>	An integer from 0–255. Zero suppression can be used to specify the integer.
-c {up down}	Specifies whether to enable the specified network interface. One of the following values can be specified. If none of them is specified, an error occurs.														
up	Enables the network interface.														
down	Disables the network interface.														
-h	Displays usage statement. When used with other options or operands, an error occurs.														
-m <i>addr</i>	Specifies a net mask. If the -m option is omitted, the net mask corresponding to <i>address</i> is set. The following <i>addr</i> form is accepted:														
<i>xxx.xxx.xxx.xxx</i>															
<i>xxx</i>	An integer from 0–255. Zero suppression can be used to specify the integer.														

OPERANDS

The following operands are supported:

<i>interface</i>	<p>Specifies the network interface to be configured. One of the following values can be specified:</p> <p>For XSCF unit 0 :</p> <table><tr><td><code>xscf#0-lan#0</code></td><td>XSCF-LAN#0</td></tr><tr><td><code>xscf#0-lan#1</code></td><td>XSCF-LAN#1</td></tr><tr><td><code>xscf#0-if</code></td><td>Interface between XSCF units (Inter SCF Network; ISN)</td></tr></table> <p>For XSCF unit 1 (when a duplicated configuration is used):</p> <table><tr><td><code>xscf#1-lan#0</code></td><td>XSCF-LAN#0</td></tr><tr><td><code>xscf#1-lan#1</code></td><td>XSCF-LAN#1</td></tr><tr><td><code>xscf#1-if</code></td><td>ISN</td></tr></table> <p>For takeover IP address:</p> <table><tr><td><code>lan#0</code></td><td>takeover IP address for XSCF-LAN#0</td></tr><tr><td><code>lan#1</code></td><td>takeover IP address for XSCF-LAN#1</td></tr></table>	<code>xscf#0-lan#0</code>	XSCF-LAN#0	<code>xscf#0-lan#1</code>	XSCF-LAN#1	<code>xscf#0-if</code>	Interface between XSCF units (Inter SCF Network; ISN)	<code>xscf#1-lan#0</code>	XSCF-LAN#0	<code>xscf#1-lan#1</code>	XSCF-LAN#1	<code>xscf#1-if</code>	ISN	<code>lan#0</code>	takeover IP address for XSCF-LAN#0	<code>lan#1</code>	takeover IP address for XSCF-LAN#1
<code>xscf#0-lan#0</code>	XSCF-LAN#0																
<code>xscf#0-lan#1</code>	XSCF-LAN#1																
<code>xscf#0-if</code>	Interface between XSCF units (Inter SCF Network; ISN)																
<code>xscf#1-lan#0</code>	XSCF-LAN#0																
<code>xscf#1-lan#1</code>	XSCF-LAN#1																
<code>xscf#1-if</code>	ISN																
<code>lan#0</code>	takeover IP address for XSCF-LAN#0																
<code>lan#1</code>	takeover IP address for XSCF-LAN#1																
<i>address</i>	<p>Specifies an IP address. The specified value is a set of four integer values delimited by the period (.). The following <i>address</i> form is accepted:</p> <p><code>xxx.xxx.xxx.xxx</code></p> <p><code>xxx</code> An integer from 0–255. Zero suppression can be used to specify the integer.</p>																

EXTENDED
DESCRIPTION

- If one network interface is disabled when the `applynetwork(8)` command is executed, all network interfaces are deleted. To enable that network interface again, configure all network interfaces again.
- In a duplicated configuration, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as `lan#0` and `lan#1`, they can be accessed with the names `lan#0` and `lan#1`. As default values, `lan#0` is set to `xscf#0-lan#0` and `lan#1` is set to `xscf#0-lan#1`.
- When the XSCF unit is not duplicated configuration, the value of the `lan#0` is fixed with `xscf#0-lan#0`, and the `lan#1` is fixed with `xscf#0-lan#1`.
- The `shownetwork(8)` command can display current information on a network interface configured for XSCF.

- To reflect information on the specified network interface, execute the `applynetwork(8)` command and reset XSCF.

EXAMPLES

EXAMPLE 1 Sets the IP address 192.168.10.10 and net mask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> setnetwork xscf#0-lan#0 -m 255.255.255.0 192.168.10.10
```

EXAMPLE 2 Sets the IP address 192.168.10.10 and net mask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0 in the midrange system.

```
XSCF> setnetwork lan#0 -m 255.255.255.0 192.168.10.10
```

EXAMPLE 3 Disables XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setnetwork xscf#0-lan#1 -c down
```

EXAMPLE 4 Sets the IP address 192.168.10.128 on ISN on the XSCF unit 0. By default, 255.255.255.0 is set for the net mask.

```
XSCF> setnetwork xscf#0-if 192.168.10.128
```

EXAMPLE 5 Sets the IP address 192.168.11.10 and net mask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 1.

```
XSCF> setnetwork xscf#1-lan#0 -m 255.255.255.0 192.168.11.10
```

EXAMPLE 6 Sets the IP address 192.168.1.10 and net mask 255.255.255.0 for the takeover IP address of XSCF-LAN#0.

```
XSCF> setnetwork lan#0 -m 255.255.255.0 192.168.1.10
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

`applynetwork(8)`, `shownetwork(8)`

setnetwork(8)



NAME	setntp - set the NTP servers used in the XSCF network								
SYNOPSIS	<pre>setntp [-c add] <i>address</i> ...</pre> <pre>setntp -c del <i>address</i> ...</pre> <pre>setntp -c del -a</pre> <pre>setntp -h</pre>								
DESCRIPTION	<p>setntp(8) command specifies the NTP servers used in the XSCF network.</p> <p>Up to three NTP servers can be registered for XSCF. Any attempt to register four or more servers causes an error.</p>								
Privileges	<p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>								
OPTIONS	<p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Deletes all the NTP servers that are currently registered. This option is used with the "-c del".</td></tr> <tr> <td>-c add</td><td>Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i>. If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i>.</td></tr> <tr> <td>-c del</td><td>Deletes the host with the specified address or the XSCF host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> </table>	-a	Deletes all the NTP servers that are currently registered. This option is used with the "-c del".	-c add	Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i> .	-c del	Deletes the host with the specified address or the XSCF host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified.	-h	Displays usage statement. When used with other options or operands, an error occurs.
-a	Deletes all the NTP servers that are currently registered. This option is used with the "-c del".								
-c add	Adds the host with the specified address or the host as an NTP server. This option is used together with <i>address</i> . If the -c option is omitted, "-c add" is used. When an NTP server is registered, the existing setting is deleted and overwriting is performed with the specified <i>address</i> .								
-c del	Deletes the host with the specified address or the XSCF host from the NTP servers. If the -c option is omitted, "-c add" is assumed specified.								
-h	Displays usage statement. When used with other options or operands, an error occurs.								

OPERANDS

The following operands are supported:

address Specifies the IP address or host name of an NTP server to be added or deleted. Up to three IP addresses or XSCF host names can be specified by delimited the spaces.

A specified IP address is a set of four integer values delimited by the period(.). The following address form is accepted:

xxx.xxx.xxx.xxx

xxx An integer from 0–255. Zero suppression can be used to specify the integer.

Do not use the Fully Qualified Domain Name (FQDN) format to specify an XSCF host name, but specify only a host name. The host name can be specified in the format that complies with RFC 1034.

If "-c add" is specified and *address* is omitted, an error occurs.

EXTENDED DESCRIPTION

- If multiple NTP servers are specified, the NTP server specified first has priority over the others.
- In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error.
- When you perform this command with "-c add" and "-c del" option, to apply the specified configuration, execute the `rebootxscf(8)` command and reset XSCF.
- After resetting the XSCF, the time of XSCF will be synchronized with the time of NTP server.
- When an NTP server set to XSCF, the time of the domain may be changed. If necessary, set the time of the domain.
- The currently set NTP server can be checked by using the `showntp(8)` command.

EXAMPLES

EXAMPLE 1 Adds the three NTP servers with the addresses 192.168.1.2, 10.18.108.10, and 10.24.1.2.

```
XSCF> setntp 192.168.1.2 10.18.108.10 10.24.1.2
Please reset the XSCF by rebootxscf to reflect the ntp settings.
```

EXAMPLE 2 Deletes the NTP server 10.18.108.10.

```
XSCF> setntp -c del 10.18.108.10
Please reset the XSCF by rebootxscf to reflect the ntp settings.
```

EXAMPLE 3 Adds the two NTP servers ntp1.examples.com and ntp2.example.com.

```
XSCF> setntp ntp1.example.com ntp2.example.com
```

Please reset the XSCF by rebootxscf to reflect the ntp settings.

EXIT STATUS The following exit values are returned:

0 Successful completion.

>0 An error occurred.

SEE ALSO `rebootxscf(8)`, `showntp(8)`

setntp(8)



NAME	setpasswordpolicy - manage the system password policy
SYNOPSIS	<p>setpasswordpolicy [-d <i>dcredit</i>] [-e <i>expiry</i>] [-i <i>inactive</i>] [-k <i>difok</i>] [-l <i>lcredit</i>] [-M <i>maxdays</i>] [-m <i>minlen</i>] [-n <i>mindays</i>] [-o <i>ocredit</i>] [-r <i>remember</i>] [-u <i>ucredit</i>] [-w <i>warn</i>] [-y <i>retry</i>]</p> <p>setpasswordpolicy -h</p>
DESCRIPTION	<p>setpasswordpolicy(8) allows an administrator to change the the system password policy. These policies are enforced by XSCF on the Service Processor.</p> <p>The following parameters control creation of new user accounts: <i>expiry</i>, <i>inactive</i>, <i>maxdays</i>, <i>mindays</i>, and <i>warn</i>. When a user is created, the <code>adduser(8)</code> command uses these parameters as the password expiration settings for the new account. The <code>password(8)</code> command can be used to change the password expiration settings for an existing account.</p>
Privileges	<p>You must have <code>useradm</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -d <i>dcredit</i> Sets maximum number of digits in a password. Each digit counts as one <i>credit</i>. The minimum acceptable password length is decreased by one for each digit in the password, up to <i>dcredit</i> digits. Valid values are integers with value of zero or greater. The initial setting is 1. -e <i>expiry</i> Sets the number of days a new account will be valid before expiring and becoming disabled. This value is assigned to new user accounts when they are created. The initial value is 0. A zero means that the account will not expire. Valid values are integers with value of zero or greater. -h Displays usage statement. When used with other options or operands, an error occurs. -i <i>inactive</i> Sets the number of days after a password expires until the account is locked. This value is assigned to new user accounts when they are created. The initial value is -1. A value of -1 means that the account will not be locked after the password expires. VValid values are integers with value of -1 or greater. -k <i>difok</i> Sets the minimum number of new characters (characters which were not present in the old password) that a new password must contain. The initial setting is 10. Valid values are integers with value of zero or greater.

<code>-l lcredit</code>	<p>Sets the maximum credit for lower case letters in a password. The minimum acceptable password length is decreased by one for each digit in the password, up to <i>lcredit</i> digits.</p> <p>Valid values are integers with value of zero or greater. The initial setting is 1.</p>
<code>-M maxdays</code>	<p>Sets the maximum number of days that a password is valid. This value is assigned to new user accounts when they are created. The initial value is 999999.</p> <p>Valid values are integers with value of zero or greater.</p>
<code>-m minlen</code>	<p>Sets the minimum size for a new password.</p> <p>Note – <i>minlen</i> cannot be set less than 6.</p> <p>Valid values are integers with value of 6 or greater.</p>
<code>-n mindays</code>	<p>Sets the minimum number of days between password changes. An initial value of zero for this field indicates that you can change the password at any time.</p> <p>Valid values are integers with value of zero or greater.</p>
<code>-o ocredit</code>	<p>Sets the maximum credit for nonalphanumeric characters in a password. The minimum acceptable password length is decreased by one for each digit in the password, up to <i>ocredit</i> digits.</p> <p>Valid values are integers with value of zero or greater. The initial setting is 1.</p>
<code>-r remember</code>	<p>Sets the number of passwords remembered in the password history.</p> <p>The maximum valid value is 10. The initial setting is 3.</p>

- u *ucredit*** Sets the maximum credit for uppercase letters in a password. The minimum acceptable password length is decreased by one for each digit in the password, up to *ucredit* digits.
- The initial setting is 1.
- w *warn*** Sets the default number of days before password expiration at which to start warning the user. This value is assigned to new user accounts when they are created. The initial value is 7.
- Valid values are integers with value of zero or greater.
- y *retry*** Sets the number of retries permitted when using the password command to change the password for a user account. The initial value is 3.
- Valid values are integers with value of zero or greater.

EXAMPLES

EXAMPLE 1 Setting the Minimum Size and Number of Passwords Remembered

```
XSCF> setpasswordpolicy -m 12 -r 5
```

EXAMPLE 2 Setting Minimum Password Length and Maximum Credits

```
XSCF> setpasswordpolicy -m 10 -d 1 -u 0 -l 0 -o 1
```

After running this command, the minimum password length for new passwords is 10 characters. A password of 9 characters is accepted if it contains at least one digit or nonalphanumeric character. A password of 8 characters is accepted if it contains a digit and a nonalphanumeric character.

EXIT STATUS

The following exit values are returned:

- | | |
|----|------------------------|
| 0 | Successful completion. |
| >0 | An error occurred. |

SEE ALSO

adduser(8), **password**(8), **showpasswordpolicy**(8)

setpasswordpolicy(8)



NAME	setpowerupdelay - set the warm-up time of the system and wait time before system startup
SYNOPSIS	setpowerupdelay -c warmup -s <i>time</i> setpowerupdelay -c wait -s <i>time</i> setpowerupdelay -h
DESCRIPTION	<p>The setpowerupdelay(8) command sets the warm-up time of the system and wait time before system startup.</p> <p>The wait time before system startup can be used to control the system startup time so that the system is started only after air-conditioning makes the temperature of the computer room suitable. If the system power has already been turned on and the system is operating, the setting takes effect at the next startup.</p>
Privileges	<p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>
OPTIONS	<p>The following options are supported:</p> <ul style="list-style-type: none"> -c warmup Specifies the warm-up time. -c wait Specifies the wait time before system startup. -h Displays usage statement. When used with other options or operands, an error occurs. -s <i>time</i> Specifies the warm-up time or wait time before system startup in minutes. An integer ranging from 0 to 255 can be specified for <i>time</i>.
EXTENDED DESCRIPTION	The currently set warm-up time and wait time before system startup can be checked by using the showpowerupdelay(8) command.
EXAMPLES	<p>EXAMPLE 1 Sets the warm-up time to 10 minutes.</p> <pre>XSCF> setpowerupdelay -c warmup -s 10</pre> <p>EXAMPLE 2 Sets the wait time before system startup to 20 minutes.</p> <pre>XSCF> setpowerupdelay -c wait -s 20</pre>

setpowerupdelay(8)

EXIT STATUS	The following exit values are returned:	
	0	Successful completion.
	>0	An error occurred.
SEE ALSO	showpowerupdelay (8)	

NAME	setprivileges - assign user privileges
SYNOPSIS	setprivileges <i>user</i> [<i>privileges</i>] [<i>domainprivilege@ domains</i>] setprivileges -h
DESCRIPTION	<p>setprivileges(8) assigns privileges to an XSCF user. setprivileges modifies only local privileges data. Multiple privileges are separated by one or more spaces. There is a maximum of 100 users to whom privileges can be assigned. A list of privileges can be found in the OPERANDS section.</p> <p>The privileges domainop, domainmgr, and domainadm must be assigned to a specific domain. Other privileges do not have this ability. Refer to the OPERANDS section and EXAMPLE 1 for details.</p> <p>If no privileges are specified, setprivileges deletes any local privilege data for the specified user. Subsequently, the user's privilege data is looked up in Lightweight Directory Access Protocol (LDAP), if LDAP privilege lookup is enabled.</p> <p>If the none privilege is specified, the specified user does not have any privileges, regardless of privilege data in LDAP.</p>
Privileges	You must have useradm privileges to run this command.
OPTIONS	<p>The following option is supported:</p> <p>-h Displays usage statement.</p> <p> When used with other options or operands, an error occurs.</p>

OPERANDS

The following operands are supported:

domainprivilege@domains

Specifies *domainadm*, *domainmgr*, or *domainop* privileges for a specific domain or domains.

The following are valid values for *domainprivilege*, each of which must be used with *@domains*:

<i>domainadm</i>	Can perform all operations and view status on the hardware assigned to the domains on which this privilege is held (assign, unassign, power, and so on). Can perform all operations on domains on which this privilege is held. Can view all states of domains on which this privilege is held.
<i>domainmgr</i>	Can reboot and power on and off all domains on which this privilege is held. Can view all states of all hardware assigned to the domains on which this privilege is held. Can view all states of domains on which this privilege is held.
<i>domainop</i>	Can view all states of all the hardware assigned to the domains on which this privilege is held. Can view all states of all domains on which this privilege is held.
<i>domains</i>	Specifies a domain or domains, using the appropriate value for <i>domainprivilege</i> with the @ symbol and the <i>domains</i> descriptor: To specify a single domain, use the @ symbol followed by a single domain number. Example: <i>domainadm@3</i> . To specify a range of domains, use a dash (-) to indicate to start and end of the domains in the range, inclusive. Example: <i>domainadm@3-4</i> . To specify multiple single domains and multiple domain ranges, separate the domains or domain ranges with commas. Do not repeat domains or cause them to overlap or an error will result. Example: <i>domainadm@1-2, 4</i> .

privileges

The following are valid values for *privileges*:

auditadm	Can configure auditing. Can delete audit trail.
auditop	Can view all audit state and audit trail.
fieldeng	Can perform all operations reserved for field engineers and authorized service personnel.
none	Cannot perform any operations on the Service Processor that require privilege, even if privileges are set for the user in LDAP. This privilege allows the administrator to restrict access to such operations on the Service Processor and domains.
platadm	Can perform all Service Processor configuration other than the <i>useradm</i> and <i>auditadm</i> tasks. Can assign and unassign hardware from domains, perform domain and XSCF power operations and all operations on domain hardware (assign, unassign, power, and so on). Can perform Service Processor failover operations and view all platform states.
platop	Can view all platform states but not perform any modifications.
useradm	Can create, delete, disable, or enable user accounts. Can change a user's password and password properties (for example, <i>expiry</i>). Can modify a user's privileges.

user
Specifies a valid user name.

EXAMPLES

- EXAMPLE 1** Setting Privileges for JSmith
- ```
XSCF> setprivileges jsmith platadm domainadm@1-4,6,9
```
- EXAMPLE 2** Removing All Privileges for JSmith
- ```
XSCF> setprivileges jsmith none
```

EXIT STATUS

The following exit values are returned:

0	Successful completion.
>0	An error occurred.

SEE ALSO

setpasswordpolicy(8), **showuser**(8)

setprivileges(8)



NAME	setroute - set routing information for an XSCF network interface										
SYNOPSIS	setroute -c {add del} -n <i>address</i> [-m <i>address</i>] [-g <i>address</i>] <i>interface</i> setroute -h										
DESCRIPTION	<p>setroute(8) command sets routing information for an XSCF network interface.</p> <p>Up to eight routing information items can be registered for each network interface. Any attempt to register more than eight items causes an error.</p>										
Privileges	<p>You must have platadm privilege to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>										
OPTIONS	<p>The following options are supported:</p> <table><tr><td>-c {add del}</td><td>Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.</td></tr><tr><td>add</td><td>Adds routing information.</td></tr><tr><td>del</td><td>Deletes routing information.</td></tr><tr><td>-g <i>address</i></td><td>Specifies a gateway address used for routing. The specified value of <i>address</i> is a set of four integer values delimited by the period (.). If this option is omitted, the gateway address is not set. The following <i>address</i> form is accepted:</td></tr><tr><td><i>xxx.xxx.xxx.xxx</i> <i>xxx</i></td><td>An integer from 0–255. Zero suppression can be used to specify the integer.</td></tr></table>	-c {add del}	Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.	add	Adds routing information.	del	Deletes routing information.	-g <i>address</i>	Specifies a gateway address used for routing. The specified value of <i>address</i> is a set of four integer values delimited by the period (.). If this option is omitted, the gateway address is not set. The following <i>address</i> form is accepted:	<i>xxx.xxx.xxx.xxx</i> <i>xxx</i>	An integer from 0–255. Zero suppression can be used to specify the integer.
-c {add del}	Specifies a function for routing information. One of the following values can be specified. If none of them is specified, an error occurs.										
add	Adds routing information.										
del	Deletes routing information.										
-g <i>address</i>	Specifies a gateway address used for routing. The specified value of <i>address</i> is a set of four integer values delimited by the period (.). If this option is omitted, the gateway address is not set. The following <i>address</i> form is accepted:										
<i>xxx.xxx.xxx.xxx</i> <i>xxx</i>	An integer from 0–255. Zero suppression can be used to specify the integer.										

-h	Displays usage statement. When used with other options or operands, an error occurs.								
-m <i>address</i>	<p>Specifies the netmask to which routing information is forwarded. The specified value is a set of four integer values delimited by the period (.). The following <i>address</i> form is accepted:</p> <pre>xxx.xxx.xxx.xxx</pre> <p><i>xxx</i> An integer from 0–255. Zero suppression can be used to specify the integer.</p> <p>If the -m option is omitted and the -n option is used to specify the network address (containing "0" in the default host address which depends on the class), the following net mask value is set, according to the class of the network address:</p> <table> <tr> <td>class</td><td>Mask value</td></tr> <tr> <td>A</td><td>255.0.0.0</td></tr> <tr> <td>B</td><td>255.255.0.0</td></tr> <tr> <td>C</td><td>255.255.255.0</td></tr> </table> <p>If the -m option is omitted and the host address specified by the -n option, net mask is not set.</p> <p>If "0.0.0.0" specified by the -n option, net mask is invalid.</p>	class	Mask value	A	255.0.0.0	B	255.255.0.0	C	255.255.255.0
class	Mask value								
A	255.0.0.0								
B	255.255.0.0								
C	255.255.255.0								
-n <i>address</i>	<p>Specifies an IP address to which routing information is forwarded. The specified value is a set of four integer values delimited by the period (.). It is specified in the format shown below. If this option is omitted, it is automatically set by XSCF. The following <i>address</i> form is accepted:</p> <pre>xxx.xxx.xxx.xxx</pre> <p><i>xxx</i> An integer from 0–255. Zero suppression can be used to specify the integer.</p> <p>If "0.0.0.0" is specified for <i>address</i>, the default routing information can be set.</p>								

OPERANDS

The following operand is supported:

interface Specifies the network interface to be set with routing information. One of the following values can be specified:

For XSCF unit 0:

xscf#0-lan#0	XSCF-LAN#0
xscf#0-lan#1	XSCF-LAN#1

For XSCF unit 1 (when a duplicated configuration is used)

xscf#1-lan#0	XSCF-LAN#0
xscf#1-lan#1	XSCF-LAN#1

For takeover IP address:

lan#0	takeover IP address for XSCF-LAN#0
lan#1	takeover IP address for XSCF-LAN#1

EXTENDED DESCRIPTION

- In a duplicated configuration, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as lan#0 and lan#1, they can be accessed with the names lan#0 and lan#1. As default values, lan#0 is set to xscf#0 - lan#0 and lan#1 is set to xscf#0 - lan#1.
- When the XSCF unit is not duplicated configuration, the value of the lan#0 is fixed with xscf#0-lan#0, and the lan#1 is fixed with xscf#0-lan#1.
- Specifying an interface between XSCF units causes an error.
- If the specified address is the same as the DSCP address, an error occurs.
- To reflect routing information that has been set, execute the `applynetwork(8)` command and reset XSCF.
- The `showroute(8)` command can display the current routing information that is set for the XSCF network.

EXAMPLES

- EXAMPLE 1** Adds the routing of destination 192.168.1.0 and net mask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.0 -m 255.255.255.0 xscf#0-lan#0
```
- EXAMPLE 2** Adds the routing of destination 192.168.1.0 and net mask 255.255.255.0 for XSCF-LAN#0 on XSCF unit 0 in the midrange server.
- ```
XSCF> setroute -c add -n 192.168.1.0 -m 255.255.255.0 lan#0
```
- EXAMPLE 3** Adds the routing of destination 192.168.1.0 and gateway 192.168.1.1 for XSCF-LAN#1 on XSCF unit 0.
- ```
XSCF> setroute -c add -n 192.168.1.0 -g 192.168.1.1 xscf#0-lan#1
```

**EXAMPLE 4** Adds the routing of destination 192.168.1.0 and default net mask (255.255.255.0) for XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setroute -c add -n 192.168.1.0 xscf#0-lan#1
```

**EXAMPLE 5** Deletes the routing of destination 192.168.1.0 and default net mask (255.255.255.0) from XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setroute -c del -n 192.168.1.0 xscf#0-lan#1
```

**EXAMPLE 6** Adds the routing of destination 192.168.1. 4 for XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setroute -c add -n 192.168.1.4 xscf#0-lan#1
```

**EXAMPLE 7** Deletes the routing of destination 192.168.1. 4 from XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setroute -c del -n 192.168.1.4 xscf#0-lan#1
```

**EXAMPLE 8** Adds routing information for the default gateway 192.168.10.1 for XSCF-LAN#1 on XSCF unit 0.

```
XSCF> setroute -c add -n 0.0.0.0 -g 192.168.10.1 xscf#0-lan#1
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

`applynetwork(8)`, `showroute(8)`

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | setshutdowndelay - set the shutdown wait time at power interruption of the uninterruptible power supply (UPS)                                                                                                                                                                                                                                                                                                                                                                               |
| SYNOPSIS             | <b>setshutdowndelay -s <i>time</i></b><br><b>setshutdowndelay -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION          | <p>The <code>setshutdowndelay(8)</code> command sets the wait time before the start of system shutdown for when power interruption occurs in a system connected to the UPS.</p> <p>The start of system shutdown can be delayed until the specified time. When power recovery is reported from the UPS within the specified time, shutdown will not occur.</p> <p>If the <code>setshutdowndelay(8)</code> command is executed with no options, the wait time currently set is displayed.</p> |
| Privileges           | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                      |
| OPTIONS              | <p>The following options are supported:</p> <p><b>-h</b>                      Displays usage statement. When used with other options or operands, an error occurs.</p> <p><b>-s <i>time</i></b>                Specifies the wait time before the start of shutdown in units of seconds. Specify an integer number ranging from 0 to 9999 for <i>time</i>. The default value is 10 seconds.</p>                                                                                             |
| EXTENDED DESCRIPTION | The currently set wait time can be displayed by using the <code>showshutdowndelay(8)</code> command.                                                                                                                                                                                                                                                                                                                                                                                        |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Sets 600 seconds as the wait time before the start of shutdown.</p> <pre>XSCF&gt; <b>setshutdowndelay -s 600</b></pre>                                                                                                                                                                                                                                                                                                                                               |
| EXIT STATUS          | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                                                                                                                                                                                                                      |
| SEE ALSO             | <b>showshutdowndelay (8)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

setshutdowndelay(8)





|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | setsmtp - set up the SMTP settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>SYNOPSIS</b>    | <p><b>setsmtp</b></p> <p><b>setsmtp</b> [-v]</p> <p><b>setsmtp</b> [-s <i>variable= value</i>]...</p> <p><b>setsmtp</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>DESCRIPTION</b> | <p>setsmtp(8) sets up the SMTP configuration values.</p> <p>When used without options, you will be prompted to provide the name of the SMTP email server to be used. You will also be prompted for the port and the Reply-To address to be used on outgoing email. Make sure that a valid email address is specified here. You can set up SMTP settings noninteractively using the -s option.</p> <p>After you have set up the email server and port have been set up using setsmtp(8), you can use setemailreport(8) to set up email report configuration data and send a test email message.</p> |
| <b>Privileges</b>  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## OPTIONS

The following options are supported:

- h** Displays usage statement.
- When used with other options or operands, an error occurs.
- s *variable=value*** Sets SMTP.
- Valid entries for *variable* are:
- mailserver
  - port
  - auth
  - user
  - password
  - replyaddress
- Where:
- auth* is the authentication mechanism.
- user/password* are the smtp mail server authentication.
- Valid auth entries are:
- none
  - pop
  - smtp-auth
- v** Specifies verbose output.

## EXAMPLES

**EXAMPLE 1** Setting Up Mailserver and No Authentication in Noninteractive Mode

```
XSCF> setsmtp -s mailserver=10.4.1.1 -s auth=none
```

**EXAMPLE 2** Setting Up Authentication in Noninteractive Mode

```
XSCF> setsmtp -s auth=pop -s user=jsmith -s password=*****
```

**EXAMPLE 3** Setting Up SMTP Authentication in Interactive Mode

```
XSCF> setsmtp
Mail Server [10.4.1.1]:
Port [25]:
Authentication Mechanism [none]: smtp-auth
User Name []: jsmith
Password []: *****
Reply Address [useradm@company.com]:
```

**EXAMPLE 4** Setting Up Mailserver With Invalid Authentication Mechanism

```
XSCF> setsmtp
Mail Server [10.4.1.1]:
Port [25]:
Authentication Mechanism [none]: ?
Invalid value '?'. Valid authentication mechanism are: none pop smtp-auth
Authentication Mechanism [none]:
Reply Address [useradm@company.com]:
```

**EXIT STATUS**      The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**      **setemailreport(8)**, **showsmtp(8)**

setsmtp(8)



|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------|------------------------------|-------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|---------------------------|----------------------------------------------|----------------------|-----------------------------------------------------------------|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                         | setsnmp - manage the SNMP agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| SYNOPSIS                     | <p><b>setsnmp</b> enable [ <i>mib_name</i>]</p> <p><b>setsnmp</b> disable [ <i>mib_name</i>]</p> <p><b>setsnmp</b> addtraphost -t <i>type</i> -s <i>community-string</i> [-p <i>trap-port</i>] <i>traphost</i></p> <p><b>setsnmp</b> remtraphost -t <i>type</i> <i>traphost</i></p> <p><b>setsnmp</b> addv3traphost -u <i>username</i> -r <i>authentication-protocol</i> {-n <i>engine_id</i> -i} [ -a <i>authentication-password</i>] [ -e <i>encryption-password</i>] [-p <i>trap-port</i> ] <i>traphost</i></p> <p><b>setsnmp</b> remv3traphost -u <i>username</i> <i>traphost</i></p> <p><b>setsnmp</b> enablev1v2c <i>read-only-community-string</i></p> <p><b>setsnmp</b> disablev1v2c</p> <p><b>setsnmp</b> [-l <i>system-location</i>] [-c <i>system-contact</i>] [-d <i>system-description</i>] [-p <i>agent-port</i>]</p> <p><b>setsnmp</b> -h</p>                            |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| DESCRIPTION                  | setsnmp(8) enables or disables the SNMP Agent, as well as configures the SNMP agent settings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| Privileges                   | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| OPTIONS                      | <p>The following options are supported:</p> <table><tr><td>-c <i>system-contact</i></td><td>Specifies the system contact information for the agent.</td></tr><tr><td>-d <i>system-description</i></td><td>Specifies the system description for the agent.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-l <i>system-location</i></td><td>Specifies the system location for the agent.</td></tr><tr><td>-p <i>agent-port</i></td><td>Specifies the listening port for the agent. The default is 161.</td></tr><tr><td>-s <i>community-string</i></td><td>Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead.</td></tr></table> | -c <i>system-contact</i> | Specifies the system contact information for the agent. | -d <i>system-description</i> | Specifies the system description for the agent. | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. | -l <i>system-location</i> | Specifies the system location for the agent. | -p <i>agent-port</i> | Specifies the listening port for the agent. The default is 161. | -s <i>community-string</i> | Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead. |
| -c <i>system-contact</i>     | Specifies the system contact information for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -d <i>system-description</i> | Specifies the system description for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -h                           | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
|                              | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -l <i>system-location</i>    | Specifies the system location for the agent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -p <i>agent-port</i>         | Specifies the listening port for the agent. The default is 161.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |
| -s <i>community-string</i>   | Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use addv3traphost instead.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                          |                                                         |                              |                                                 |    |                           |  |                                                            |                           |                                              |                      |                                                                 |                            |                                                                                                                                                                                                |

**OPERANDS**

The following operands are supported:

**addtraphost** Enables the SNMP agent to send the chosen type of trap to the desired host. If no *trap-port* is provided, the default is 162. A community string is mandatory.

**addtraphost** takes the following options and operand:

**-p *trap-port*** ID of the trap port. Default value is 162.

**-s *community-string*** Acts like a password to control access to the SNMP v1 and v2 agents. It is a clear text string which can be intercepted. For password encryption and no visibility, use **addv3traphost** instead.

**-t *type*** Type of trap. Valid trap types are:

**v1** = The agent will send SNMPv1 traps

**v2** = The agent will send SNMPv2 traps

**inform** = The agent will send inform notifications

***traphost*** Host name of the trap host.

`addv3traphost` Enables the SNMP agent to send SNMPv3 traps or informs to the desired host. An authentication protocol must be chosen. Valid protocols are:

MD5 = Uses the MD5 algorithm for authentication

SHA = Uses SHA (Secure Hash Algorithm) for authentication

The encryption protocol used in all communication is DES (Data Encryption Standard). If the password option is not used, you will be prompted for a password. Passwords will be read but not echoed to the screen. `addv3traphost` takes the following options:

`-a authentication-password`

Sets the authentication password. Must be equal to or greater than 8 characters.

`-e encryption-password`

Sets the encryption password.

`-i`

Asks for an acknowledgment from the receiving host.

`-n engine_id`

Sets identifier of the local agent sending the trap. It can be the engine ID of the local SNMP agent or not but it must match the engine ID expected by the receiving host. Must start with "0x" and should consist of even hexadecimal characters or you will get an error.

`-p trap-port`

ID of the trap port. Default value is 162.

`-r authentication-protocol`

Sets the authentication protocol.

`traphost`

Host name of the trap host.

`-u username`

Specifies a valid user name.

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| disable      | <p>When used alone, stops the SNMP agent.</p> <p>When used with the value <code>ALL</code> for the optional <i>mib_name</i>, stops the SNMP agent.</p> <p>When used with a value other than <code>ALL</code> for the optional <i>mib_name</i>, removes support for the targeted MIB module. If support remains for another MIB module, the SNMP agent remains enabled. If support for both MIB modules is removed, the SNMP agent is disabled and, therefore, stops. You can specify only one value at a time for <i>mib_name</i>.</p> <p><i>mib_name</i></p> <p>    Name of the MIB module to be disabled.</p> <p>Valid MIB modules are:</p> <p>    <code>SP_MIB = OPL-SP-MIB</code></p> <p>    <code>FM_MIB = SUN-FM-MIB</code></p> <p>    <code>ALL = All the MIB modules in this list.</code></p> |
| disablev1v2c | <p>Disables the SNMP agent from communicating using SNMPv1/v2c. These versions provide insecure SNMP communication.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| enable       | <p>When used alone, activates the SNMP agent with support for all MIB modules.</p> <p>When used with the value <code>ALL</code> for the optional <i>mib_name</i>, activates the SNMP agent with support for all MIB modules.</p> <p>When used with a value other than <code>ALL</code> for the optional <i>mib_name</i>, adds support for the targeted MIB module and, if necessary, activates the SNMP agent. You can specify only one value at a time for <i>mib_name</i>.</p> <p><i>mib_name</i></p> <p>    Name of the MIB module to be enabled.</p> <p>Valid MIB modules are:</p> <p>    <code>SP_MIB = OPL-SP-MIB</code></p> <p>    <code>FM_MIB = SUN-FM-MIB</code></p> <p>    <code>ALL = All the MIB modules in this list.</code></p>                                                        |
| enablev1v2c  | <p>Enables the SNMP agent to communicate using SNMPv1/v2c. These versions provide insecure SNMP communication, which is why the agent runs SNMPv3 by default. This agent is read-only. The only community string asked for is read-only.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



**remtraphost** Disables the SNMP agent from sending the chosen type of trap to the desired host.

**-t *type***

Type of trap. Valid trap types are:

v1 = The agent will send SNMPv1 traps

v2 = The agent will send SNMPv2 traps

inform = The agent will send inform notifications

***traphost***

Host name of the trap host.

**remv3traphost** Disables the SNMP agent from sending SNMPv3 traps to the desired host.

***traphost***

Host name of the trap host.

**-u *username***

Specifies a valid user name.

## EXAMPLES

### EXAMPLE 1 Setting Up System Information

```
XSCF> setsnmp -l sandiego -c username@company.com -d ff1
```

### EXAMPLE 2 Setting Up and SNMPv3 Trap Host With Password Options

```
XSCF> setsnmp addv3traphost -u jsmith -n 0x### -r SHA -a xxxxxxxx
-e yyyyyyyy fiche
```

### EXAMPLE 3 Setting Up and SNMPv3 Trap Host without Password Options

```
XSCF> setsnmp addv3traphost -u bob -i -r SHA fiche
Authentication Password:
Encryption Password:
```

### EXAMPLE 4 Starting the Agent

```
XSCF> setsnmp enable SP_MIB
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

setsnmp(8)

SEE ALSO

showsntp ( 8 )

|             |                                                                                                                                                                                                                                                                                                                                                                                                             |    |                           |  |                                                            |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|
| NAME        | setsnmpusm - specify the SNMPv3 agent's User-based Security Model (USM) configuration                                                                                                                                                                                                                                                                                                                       |    |                           |  |                                                            |
| SYNOPSIS    | <p><b>setsnmpusm</b> create -a <i>authentication_protocol</i> [-p <i>authentication_password</i>] [-e <i>encryption_password</i>] <i>user</i></p> <p><b>setsnmpusm</b> delete <i>user</i></p> <p><b>setsnmpusm</b> clone -u <i>clone_user</i> <i>user</i></p> <p><b>setsnmpusm</b> passwd [-c {auth encrypt}] [-o <i>old_password</i>] [-n <i>new_password</i>] <i>user</i></p> <p><b>setsnmpusm</b> -h</p> |    |                           |  |                                                            |
| DESCRIPTION | setsnmpusm(8) modifies the SNMP Agent's USM configuration.                                                                                                                                                                                                                                                                                                                                                  |    |                           |  |                                                            |
| Privileges  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                         |    |                           |  |                                                            |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr></table>                                                                                                                                                                                                      | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. |
| -h          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                   |    |                           |  |                                                            |
|             | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                  |    |                           |  |                                                            |

OPERANDS

The following operands are supported:

- clone                      Makes the supplied user known to the agent for subsequent SNMP communication with the identical settings as the specified *clone\_user*.
  - u *clone\_user*                Specifies a valid user name of the user settings to be cloned.
  - user*                        Specifies a different user name for the clone of *clone\_user*.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| create | <p>Makes the supplied user known to the agent for subsequent SNMP communication. When used without the <code>-a</code> or <code>-p</code> options, <code>create</code> displays a prompt for passwords and reads them without echoing them to the screen. The encryption protocol used in all SNMP communication is Data Encryption Standard (DES). An authentication protocol must be chosen for SNMP communication. Possible values are MD5 Algorithm and Secure Hash Algorithm (SHA).</p>                                                                                                                                                                                                                                                                                                                                                                                                      |
|        | <p><i>user</i></p> <p>Specifies a valid user name.</p> <p><code>-a authentication_protocol</code></p> <p>Specifies the authentication protocol.</p> <p><code>-e encryption_password</code></p> <p>Specifies the encryption password. Must be equal to or greater than 8 characters.</p> <p><code>-p authentication_password</code></p> <p>Specifies the authentication password. Must be equal to or greater than 8 characters.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| delete | <p>Removes the supplied user making the user unknown to the agent for subsequent SNMP communication.</p> <p><i>user</i>                      Specifies a valid user name.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| passwd | <p>Changes the appropriate password for the specified user. The changed password is either the authentication password or the encrypted password, or both, if <code>-c</code> is not used. If <code>-c</code> is not used then both passwords must be the same or an error is generated. With no options, <code>password</code> displays a prompt for the passwords and reads them without echoing them to the screen.</p> <p><code>-c auth encrypt</code>                      Specifies whether to change the authentication password or the encrypted password.</p> <p><code>-n new_password</code>                      Specifies the new password. The password must be equal to or greater than 8 characters.</p> <p><code>-o old_password</code>                      Specifies the old password.</p> <p><i>user</i>                                      Specifies a valid user name.</p> |

## EXAMPLES

### EXAMPLE 1 Adding a User With Password Options

```
XSCF> setsnmpusm create -a SHA -p xxxxxxxx -e yyyyyyyy jsmith
```

### EXAMPLE 2 Adding a User Without Specifying Password Options

```
XSCF> setsnmpusm create -a SHA bob
Authetication Password:
Encryption Password:
```

### EXAMPLE 3 Cloning a User

```
XSCF> setsnmpusm clone -u sue joe
Authentication Password:
Encryption Password:
```

### EXAMPLE 4 Deleting a User

```
XSCF> setsnmpusm delete joe
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**showsnmpusm (8)**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | setsnmpvacm - modify the SNMPv3 agent's View-based Access Control Model (VACM) configuration                                                                                                                                                                                                                                                                                                                                                                         |
| <b>SYNOPSIS</b>    | <pre> <b>setsnmpvacm</b> creategroup -u <i>username</i> <i>groupname</i> <b>setsnmpvacm</b> deletegroup -u <i>username</i> <i>groupname</i> <b>setsnmpvacm</b> createview -s <i>OID_subtree</i> [-e] [-m <i>OID_Mask</i>] <i>viewname</i> <b>setsnmpvacm</b> deleteview -s <i>OID_subtree</i> <i>viewname</i> <b>setsnmpvacm</b> createaccess -r <i>read_viewname</i> <i>groupname</i> <b>setsnmpvacm</b> deleteaccess <i>groupname</i> <b>setsnmpvacm</b> -h </pre> |
| <b>DESCRIPTION</b> | setsnmpvacm(8) modifies the SNMP Agent's VACM configuration. Using this command requires a basic knowledge of SNMP.                                                                                                                                                                                                                                                                                                                                                  |
| <b>Privileges</b>  | <p>You must have platadm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                  |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p>                                                                                                                                                                                                                                                                                               |

## OPERANDS

The following operands are supported:

|                         |                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| createaccess            | Sets access to a MIB view for the specified group.                                                                                                                                                                                          |
| -r <i>read_viewname</i> | Specifies an SNMP Agent view.                                                                                                                                                                                                               |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| creategroup             | Sets up a group for the specified user for view access.                                                                                                                                                                                     |
| -u <i>username</i>      | Specifies a valid user name.                                                                                                                                                                                                                |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| createview              | Sets up a view of the SNMP Agent exported MIB information. View access is limited to read-only for this Agent. The view is identified through a MIB OID subtree and can be limited to specific portions of that subtree using the OID Mask. |
| -e                      | Specifies an excluded view. The default is an included view.                                                                                                                                                                                |
| -m <i>OID_Mask</i>      | Specifies a valid OID subtree mask. By default, the mask is ff (entire subtree).                                                                                                                                                            |
| -s <i>OID_subtree</i>   | Specifies a MIB OID subtree. Values start at .1 for the entire MIB tree.                                                                                                                                                                    |
| <i>viewname</i>         | Specifies a valid view name.                                                                                                                                                                                                                |
| deleteaccess            | Removes access entry.                                                                                                                                                                                                                       |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| deletegroup             | Removes a group from use.                                                                                                                                                                                                                   |
| -u <i>username</i>      | Specifies a valid user name.                                                                                                                                                                                                                |
| <i>groupname</i>        | Specifies a valid group name.                                                                                                                                                                                                               |
| deleteview              | Removes this view from use.                                                                                                                                                                                                                 |
| -s <i>OID_subtree</i>   | Specifies a MIB OID subtree. Values start at .1 for the entire MIB tree.                                                                                                                                                                    |
| <i>viewname</i>         | Specifies a valid view name.                                                                                                                                                                                                                |

## EXAMPLES

### EXAMPLE 1 Create a Group

```
XSCF> setsnmpvacm creategroup -u jsmith admin
```



**EXAMPLE 2** Create a View of the Entire MIB

```
XSCF> setsnmpvacm createview -s .1 all_view
```

**EXAMPLE 3** Create a View Where the Subtree Is Excluded

```
XSCF> setsnmpvacm createview -e -s .1.3.6.1.2.1.1 -m fe excl_view
```

**EXAMPLE 4** Create Access

```
XSCF> setsnmpvacm createaccess -r all admin
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**showsnmpvacm**(8)

setsnmpvacm(8)

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                   |              |                                |              |                              |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------|--------------|--------------------------------|--------------|------------------------------|
| NAME         | setssh - set the SSH service used in the XSCF network. Also, generate the host public key, and register or delete the user public key, which are necessary for the SSH service.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                   |              |                                |              |                              |
| SYNOPSIS     | <pre>setssh [ [-q] -{y n} ] -c enable</pre> <pre>setssh -c disable</pre> <pre>setssh -c addpubkey [-u <i>user_name</i>]</pre> <pre>setssh -c delpubkey {-a   -s <i>line</i> } [-u <i>user_name</i>]</pre> <pre>setssh [ [-q] -{y n} ] -c genhostkey</pre> <pre>setssh -h</pre>                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                   |              |                                |              |                              |
| DESCRIPTION  | <p>setssh(8) command starts or stops the SSH service used in the XSCF network. Also, generates the host public key, and registers or deletes the user public key, which are necessary for the SSH service.</p> <p>If a host public key already exists when a new host public key is to be generated, an update confirmation prompt about the existing key is displayed.</p> <p>The user public key can be registered on each user account. Per user account, multiple user public keys can be registered. Per user account, the user public keys can be registered up to 1,023 characters including the linefeed.</p> <p>Only SSH2 is supported for XSCF.</p> |    |                                                                                   |              |                                |              |                              |
| Privileges   | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"> <li>■ To start or stop the SSH service, and to generate the host public key:<br/>platadm</li> <li>■ To register or delete the user public key of other user account:<br/>useradm</li> <li>■ To register or delete the user public key of the current login user account:<br/>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</li> </ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                             |    |                                                                                   |              |                                |              |                              |
| OPTIONS      | <p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Deletes all registered user public keys. Should be specified with "-c delpubkey."</td></tr> <tr> <td>-c addpubkey</td><td>Registers the user public key.</td></tr> <tr> <td>-c delpubkey</td><td>Deletes the user public key.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                      | -a | Deletes all registered user public keys. Should be specified with "-c delpubkey." | -c addpubkey | Registers the user public key. | -c delpubkey | Deletes the user public key. |
| -a           | Deletes all registered user public keys. Should be specified with "-c delpubkey."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                                                                   |              |                                |              |                              |
| -c addpubkey | Registers the user public key.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                   |              |                                |              |                              |
| -c delpubkey | Deletes the user public key.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                                   |              |                                |              |                              |

|                     |                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -c {enable disable} | Specifies whether to enable the SSH service. One of the following values can be specified:<br><br>enable                    Starts the SSH2 service.<br><br>disable                   Stops the SSH2 service.                               |
| -c genhostkey       | Generates a host public key for SSH2.                                                                                                                                                                                                       |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                        |
| -n                  | Automatically answers 'n' (no) to all prompts.                                                                                                                                                                                              |
| -q                  | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                       |
| -s line             | Specifies the user public key number to delete. For line, specify the number which displayed after the showssh -c pubkey command executed. Should be specified with "-c delpubkey."                                                         |
| -u user_name        | Specifies the user account name to register or delete the user public key. Should be specified with "-c addpubkey" or "-c delpubkey." When the -u option omitted, the user public key of the current login user account becomes the target. |
| -y                  | Automatically answers 'y' (yes) to all prompts.                                                                                                                                                                                             |

**OPERANDS**            The following operand is supported:

genhostkey            Generates a host public key for SSH2.

**EXTENDED  
DESCRIPTION**

- When a host public key is created, a prompt to confirm execution of the command with the specified options is displayed. Enter "y" to execute the command or "n" to cancel the command.
- The setssh(8) command can register one user public key at a time.
- In time of setssh(8) command execution, finish the input of user public key by pressing Enter and then pressing Ctrl+D (EOF).
- In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error.
- The current SSH service settings can be checked by using the showssh(8) command.
- In case you enable the ssh service or generated the host public key, XSCF will be reset.

## EXAMPLES

**EXAMPLE 1** Starts the SSH service.

```
XSCF> setssh -c enable
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!
```

The reset continues after this point.

**EXAMPLE 2** Starts the SSH service. Automatically replies with 'y' to the prompt.

```
XSCF> setssh -y -c enable
The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!
```

The reset continues after this point.

**EXAMPLE 3** Starts the SSH service. Automatically replies with 'y' without displaying the prompt.

```
XSCF> setssh -q -y -c enable

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!
```

The reset continues after this point.

**EXAMPLE 4** Stops the SSH service.

```
XSCF> setssh -c disable
```

**EXAMPLE 5** Generates a host public key for SSH.

```
XSCF> setssh -c genhostkey
Host key create. The XSCF will be reset. Continue? [y|n] :y

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!
```

The reset continues after this point.

**EXAMPLE 6** Generates a host public key for SSH. Automatically replies with 'y' to the prompt.

```
XSCF> setssh -c genhostkey -y
Host key already exists. The key will be updated and the XSCF will be
reset. Continue? [y|n] :y
```

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!

The reset continues after this point.

**EXAMPLE 7** Generates a host public key for SSH. Automatically replies with 'y' without displaying the prompt.

```
XSCF> setssh -c genhostkey -q -y
```

Broadcast message from root (pts/4) (Jan 27 16:59:10 2006):

The system is going down for reboot NOW!

The reset continues after this point.

**EXAMPLE 8** Generates a host public key for SSH. Automatically replies with 'n' to the prompt.

```
XSCF> setssh -c genhostkey -n
Host key already exists. The key will be updated and the XSCF will be
reset. Continue? [y|n] :y
```

**EXAMPLE 9** Generates a host public key for SSH. Automatically replies with 'n' without displaying the prompt.

```
XSCF> setssh -c genhostkey -q -n
```

**EXAMPLE 10** Registers the user public key. Finish the input of public key by pressing Enter and then pressing Ctrl+D.

```
XSCF> setssh -c addpubkey
Please input a public key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jaZPTjNDxcid
QGbiHYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPhGgGVB61qskSv/
FeV44hefNCZMiXGitIIpK
P0nBK4XJpCFoFbPXNUHDw1rTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
[Enter]
[Ctrl+D]
```

**EXAMPLE 11** Registers the user public key by specifying the user name. Finish the input of public key by pressing Enter and then pressing Ctrl+D.

```
XSCF> setssh -c addpubkey -u efgh
Please input a public key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiHYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDwlrTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
[Enter]
[Ctrl+D]
```

**EXAMPLE 12** Specifies the public key number to delete the user public key.

```
XSCF> setssh -c delpubkey -s 1
1 ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jazPTjNDxcid
QGbiHYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDwlrTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
```

**EXAMPLE 13** Deletes all user public keys.

```
XSCF> setssh -c delpubkey -a
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**showssh (8)**

setssh(8)





|                      |                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | settnet - start or stop the Teln service used in the XSCF network                                                                                                                                                                                                                                                                                                                |
| SYNOPSIS             | <b>settnet</b> -c {enable   disable}<br><b>settnet</b> -h                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION          | settnet(8) command starts or stops the Teln service used in the XSCF network.                                                                                                                                                                                                                                                                                                    |
| Privileges           | You must have platadm privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                                                         |
| OPTIONS              | The following options are supported:<br><br>-c {enable disable} Specify whether to start the Teln service. One of the following values can be specified. If none of them is specified, an error occurs.<br><br>enable Starts the Teln service.<br>disable Stops the Teln service.<br><br>-h Displays usage statement. When used with other options or operands, an error occurs. |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ In case the XSCF unit is duplicated configuration, the setting automatically reflected to the standby XSCF. When there's a defect on the standby XSCF, it leads to an error.</li><li>■ The current Teln service state can be checked by using the showtnet(8) command.</li></ul>                                                         |
| EXAMPLES             | <b>EXAMPLE 1</b> Starts the Teln service.<br>XSCF> <b>settnet -c enable</b><br><br><b>EXAMPLE 2</b> Stops the Teln service.<br>XSCF> <b>settnet -c disable</b>                                                                                                                                                                                                                   |
| EXIT STATUS          | The following exit values are returned:<br><br>0 Successful completion.<br>>0 An error occurred.                                                                                                                                                                                                                                                                                 |
| SEE ALSO             | showtnet(8)                                                                                                                                                                                                                                                                                                                                                                      |



|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------------------|----------|---------------------------------------------------------|-----------|-------------------------------------------------------|-----------|-------------------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME          | settimezone - set the time zone and Daylight Saving Time of XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| SYNOPSIS      | <p><b>settimezone</b> -c settz -s <i>timezone</i></p> <p><b>settimezone</b> -c settz -a [-M]</p> <p><b>settimezone</b> -c adddst -b <i>std</i> -o <i>offset</i> -d <i>dst</i> [-p <i>offset</i>] -f <i>date</i> [ <i>/time</i>] -t <i>date</i> [ <i>/time</i>]</p> <p><b>settimezone</b> -c deldst -b <i>std</i> -o <i>offset</i></p> <p><b>settimezone</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| DESCRIPTION   | <p>The <code>settimezone(8)</code> command sets the time zone and Daylight Saving Time of XSCF.</p> <p>The time zone is pursuant to POSIX standard.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| Privileges    | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| OPTIONS       | <p>The following options are supported:</p> <table><tr><td>-a</td><td>Lists the time zones that can be set.</td></tr><tr><td>-c settz</td><td>Sets the time zone which complies with POSIX standards.</td></tr><tr><td>-c adddst</td><td>Manually sets the time zone and Daylight Saving Time.</td></tr><tr><td>-c deldst</td><td>Deletes the time zone and Daylight Saving Time.</td></tr><tr><td>-b <i>std</i></td><td>Specifies the abbreviations of time zone. For <i>std</i>, specify an abbreviation of 3 letters or more. You can specify it in the format which complies with RFC2822. In case specified in combination with "-c adddst," it will be linked with the time zone to be set. When specified in combination with "-c deldst," the link with the time zone which has been set will be cancelled.</td></tr><tr><td>-d <i>dst</i></td><td>Specifies the name of Daylight Saving Time. For <i>dst</i>, specify the alphabets of 3 letters or more. You can specify it in the format which complies with RFC2822.</td></tr></table> | -a | Lists the time zones that can be set. | -c settz | Sets the time zone which complies with POSIX standards. | -c adddst | Manually sets the time zone and Daylight Saving Time. | -c deldst | Deletes the time zone and Daylight Saving Time. | -b <i>std</i> | Specifies the abbreviations of time zone. For <i>std</i> , specify an abbreviation of 3 letters or more. You can specify it in the format which complies with RFC2822. In case specified in combination with "-c adddst," it will be linked with the time zone to be set. When specified in combination with "-c deldst," the link with the time zone which has been set will be cancelled. | -d <i>dst</i> | Specifies the name of Daylight Saving Time. For <i>dst</i> , specify the alphabets of 3 letters or more. You can specify it in the format which complies with RFC2822. |
| -a            | Lists the time zones that can be set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| -c settz      | Sets the time zone which complies with POSIX standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| -c adddst     | Manually sets the time zone and Daylight Saving Time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| -c deldst     | Deletes the time zone and Daylight Saving Time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| -b <i>std</i> | Specifies the abbreviations of time zone. For <i>std</i> , specify an abbreviation of 3 letters or more. You can specify it in the format which complies with RFC2822. In case specified in combination with "-c adddst," it will be linked with the time zone to be set. When specified in combination with "-c deldst," the link with the time zone which has been set will be cancelled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |
| -d <i>dst</i> | Specifies the name of Daylight Saving Time. For <i>dst</i> , specify the alphabets of 3 letters or more. You can specify it in the format which complies with RFC2822.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                                       |          |                                                         |           |                                                       |           |                                                 |               |                                                                                                                                                                                                                                                                                                                                                                                             |               |                                                                                                                                                                        |

- `-f date [/time]` Specifies the starting time of Daylight Saving Time. You can specify *date* in any of the following formats.
- Mm.w.d*
- Mm*: Specifies the month to start Daylight Saving Time. For *m*, you can specify any integer from 1 to 12.
- w*: Specifies the week to start Daylight Saving Time. You can specify the integer from 1 to 5, "1" for the first week and "5" for the last week in the month.
- d*: Specifies the day of the week to start Daylight Saving Time. You can specify the integer from 0 to 6, "0" for Sunday and "6" for Saturday.
- Jn*
- Jn*: Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It doesn't count the leap-year day.
- n*
- n*: Specifies the sequential day in the year to start Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It counts the leap-year day.
- In *time*, you specify the time. You can specify it in the following format.
- hh:mm:ss* Specifies the time in "*hh:mm:ss*" format. *hh* is 00–23, *mm* is 00–59, *ss* is 00–60. In case omitted, "02:00:00."
- `-h` Displays usage statement. When used with other options or operands, an error occurs.
- `-M` Displays text by page. This option provides a function that is the same as that of the `more` command.

|                  |                                                                                                                                                                                                                                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -o <i>offset</i> | Specifies the offset of time zone and Greenwich mean time (GMT). You can specify <i>offset</i> in the following format.                                                                                                                                                                                                       |
|                  | GMT{+ -}hh[:mm[:ss]]                                                                                                                                                                                                                                                                                                          |
|                  | GMT Greenwich mean time                                                                                                                                                                                                                                                                                                       |
|                  | {+ -} Specifies "-" to set the standard time to the time which is ahead of GMT. (To adjust to the local time east to Greenwich, the offset is a negative value.) Specifies "+" to set the standard time to the time which is behind the GMT. (To adjust to the local tome west to Greenwich, the offset is a positive value.) |
|                  | hh[:mm[:ss]] Specifies the offset time. <i>hh</i> is 00-24, <i>mm</i> is 00-59, <i>ss</i> is 00-59.                                                                                                                                                                                                                           |

|                                 |                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-p <i>offset</i></code>   | Specifies the offset of Daylight Saving Time and Greenwich mean time (GMT). You can specify <i>offset</i> in the following format. In case omitted, it is 1 hour before the specified time.                                                                                                                                                      |
|                                 | GMT{+ -}hh[:mm[:ss]]                                                                                                                                                                                                                                                                                                                             |
|                                 | GMT                      Greenwich mean time                                                                                                                                                                                                                                                                                                     |
|                                 | {+ -}                    Specifies "-" to set the standard time to the time which is ahead of GMT. (To adjust to the local time east to Greenwich, the offset is a negative value.) Specifies "+" to set the standard time to the time which is behind the GMT. (To adjust to the local time west to Greenwich, the offset is a positive value.) |
|                                 | hh[:mm[:ss]]           Specifies the offset time. hh is 00-24, mm is 00-59, ss is 00-59.                                                                                                                                                                                                                                                         |
| <code>-s <i>timezone</i></code> | Specifies the time zone. One of the time zone displayed by the <code>-a</code> option can be specified for <i>timezone</i> .                                                                                                                                                                                                                     |

`-t date [/time]` Specifies the termination time of Daylight Saving Time. You can specify *date* in any of the following formats.

*Mm.w.d*

*Mm*: Specifies the month to terminate Daylight Saving Time. For *m*, you can specify any integer from 1 to 12.

*w*: Specifies the week to terminate Daylight Saving Time. You can specify the integer from 1 to 5, "1" for the first week and "5" for the last week in the month.

*d*: Specifies the day of the week to terminate Daylight Saving Time. You can specify the integer from 0 to 6, "0" for Sunday and "6" for Saturday.

*Jn*

*Jn*: Specifies the sequential day in the year to terminate Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It doesn't count the leap-year day.

*n*

*n*: Specifies the sequential day in the year to terminate Daylight Saving Time. You can specify the integer from 1 to 365, "1" for January 1st. It counts the leap-year day.

In *time*, you specify the time. You can specify it in the following format.

*hh:mm:ss* Specifies the time in "*hh:mm:ss*" format. *hh* is 00–23, *mm* is 00–59, *ss* is 00–60. In case omitted, "02:00:00."

EXTENDED  
DESCRIPTION

- You cannot specify the years of validity for time zone and Daylight Saving Time. In case the Daylight Saving Time is changed each year, you need to set anew by using the `settimezone(8)` command.
- The addition of the offset time to the standard time which has been set by the `settimezone(8)` command comes to GMT.
- The current time zone settings can be checked by using the `showtimezone(8)` command.
- To reflect the Daylight Saving Time information which modified by `-c adddst` or `-c deldst` option, log out and then log in again.

EXAMPLES

**EXAMPLE 1** Sets "Asia/Tokyo" as the time zone.

```
XSCF> settimezone -c settz -s Asia/Tokyo
Asia/Tokyo
```

**EXAMPLE 2** Lists the time zones that can be set.

```
XSCF> settimezone -c settz -a
Africa/Abidjan
Africa/Accra
Africa/Addis_Ababa
Africa/Algiers
Africa/Asmera
Africa/Bamako
Africa/Bangui
.
```

**EXAMPLE 3** Sets the Daylight Saving Time information as follows: abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and the time period is from the last Monday of March 2:00 to the last Sunday of October 2:00.

```
XSCF> settimezone -c adddst -b JST -o GMT-9 -d JDT -f M3.5.0 -t
M10.5.0
JST-9JDT,M3.5.0,M10.5.0
```

**EXAMPLE 4** Sets the Daylight Saving Time information as follows: abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, the offset of Daylight Saving Time from GMT is +10, and the time period is from the first Sunday of April 0:00 to the first Sunday of September 0:00.

```
XSCF> settimezone -c adddst -b JST -o GMT-9 -d JDT -p GMT-10 -f
M4.1.0/00:00:00 -t M9.1.0/00:00:00
JST-9JDT-10,M4.1.0/00:00:00,M9.1.0/00:00:00
```

**EXAMPLE 5** Deletes the Daylight Saving Time information of current settings.

```
XSCF> settimezone -c deldst -b JST -o GMT-9
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**setdate (8), showdate (8), showtimezone (8)**



|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME               | setupfru - set up device hardware                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| SYNOPSIS           | <b>setupfru</b> [-m {y   n}] [-x {1   4}] <i>device location</i><br><b>setupfru</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| DESCRIPTION        | <p>The <b>setupfru(8)</b> command makes hardware settings for the specified device.</p> <p>Only a physical system board (PSB) can be specified as a device. After a PSB is added, the following settings can be specified for PSB:</p> <table><tr><td>XSB type</td><td>To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB.</td></tr><tr><td>Memory mirror mode</td><td>In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.</td></tr></table> |  | XSB type | To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB. | Memory mirror mode | In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.                        |            |                                                                                                                                                                                                                                                   |
| XSB type           | To use an added PSB in the system, hardware resources on the PSB must be logically divided and reconfigured as eXtended System Boards (XSBs). Two types of XSB are used: Uni-XSB and Quad-XSB. The Uni-XSB is configured with undivided PSB, and the Quad-XSB is configured with one of divided PSB into four parts. Specify either the Uni-XSB configuration or Quad-XSB configuration for the PSB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| Memory mirror mode | In mirror mode, data is mirrored by dividing the memory mounted on a PSB into two parts. Since the memory is divided into two parts, the memory capacity is halved, but data reliability increases. Specify whether to operate the memory in mirror mode.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| Privileges         | <p>You must have <b>platadm</b> or <b>fieldeng</b> privileges to run this command.</p> <p>Refer to <b>setprivileges(8)</b> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| OPTIONS            | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-m {y   n}</td><td>Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when <i>sb</i> is specified for <i>device</i>. Specify <i>y</i> to enable mirror mode; otherwise, specify <i>n</i>. If the -m option is omitted, the previous setting is inherited.</td></tr><tr><td>-x {1   4}</td><td>Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when <i>sb</i> is specified for <i>device</i>. Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited.</td></tr></table>                                                                                                                                                                                                                |  | -h       | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                 | -m {y   n}         | Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when <i>sb</i> is specified for <i>device</i> . Specify <i>y</i> to enable mirror mode; otherwise, specify <i>n</i> . If the -m option is omitted, the previous setting is inherited. | -x {1   4} | Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when <i>sb</i> is specified for <i>device</i> . Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited. |
| -h                 | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| -m {y   n}         | Specifies whether to use the memory mounted on the XSB in mirror mode. Specify this option when <i>sb</i> is specified for <i>device</i> . Specify <i>y</i> to enable mirror mode; otherwise, specify <i>n</i> . If the -m option is omitted, the previous setting is inherited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |
| -x {1   4}         | Specifies whether to configure PSB as a Uni-XSB or Quad-XSB. Specify this option when <i>sb</i> is specified for <i>device</i> . Specify 1 for Uni-XSB or specify 4 for Quad-XSB. If the -x option is omitted, the previous setting is inherited.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |          |                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                                                                                                                                                                                                                                                                  |            |                                                                                                                                                                                                                                                   |

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |                                                                                |           |                             |                 |                                       |           |                                                       |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------|-----------|-----------------------------|-----------------|---------------------------------------|-----------|-------------------------------------------------------|
| <p><b>OPERANDS</b></p>             | <p>The following operands are supported:</p> <table> <tr> <td><i>device</i></td><td>Specifies the device to be set up. Only the following device can be specified:</td></tr> <tr> <td><i>sb</i></td><td>Physical system board (PSB)</td></tr> <tr> <td><i>location</i></td><td>Specifies the location of the device.</td></tr> <tr> <td><i>sb</i></td><td>Integer from 0–15. Specify only one <i>location</i>.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <i>device</i> | Specifies the device to be set up. Only the following device can be specified: | <i>sb</i> | Physical system board (PSB) | <i>location</i> | Specifies the location of the device. | <i>sb</i> | Integer from 0–15. Specify only one <i>location</i> . |
| <i>device</i>                      | Specifies the device to be set up. Only the following device can be specified:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>sb</i>                          | Physical system board (PSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>location</i>                    | Specifies the location of the device.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <i>sb</i>                          | Integer from 0–15. Specify only one <i>location</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <p><b>EXTENDED DESCRIPTION</b></p> | <ul style="list-style-type: none"> <li>■ In a high-end server, the Quad-XSB configuration cannot be set in memory mirror mode.</li> <li>■ To set up an already mounted PSB again, all XSBs comprising the target PSB must have been disconnected from the domain configuration and placed under the system board pool. See the <code>deleteboard(8)</code> command for information on how to disconnect XSBs from the domain configuration.</li> <li>■ The configuration of the PSB varies according to the system as shown below. <ul style="list-style-type: none"> <li>■ In a high-end server, the PSB consists of one CPU memory board and one I/O unit in combination.</li> <li>■ In a midrange server, the PSB consists of one CPU module and one memory module logically divided into two on the motherboard, and one I/O module.</li> </ul> </li> <li>■ The current PSB settings can be checked by using the <code>showfru(8)</code> command.</li> </ul> |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <p><b>EXAMPLES</b></p>             | <p><b>EXAMPLE 1</b> Configures PSB#00 as a Quad-XSB (with memory in non-mirror mode because the memory mirror mode setting is omitted).</p> <pre>XSCF&gt; setupfru -x 4 sb 0</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <p><b>EXIT STATUS</b></p>          | <p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>&gt;0</td><td>An error occurred.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0             | Successful completion.                                                         | >0        | An error occurred.          |                 |                                       |           |                                                       |
| 0                                  | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| >0                                 | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                                                                                |           |                             |                 |                                       |           |                                                       |
| <p><b>SEE ALSO</b></p>             | <p><code>addboard(8)</code>, <code>deleteboard(8)</code>, <code>moveboard(8)</code>, <code>setdcl(8)</code>, <code>showboards(8)</code>, <code>showdcl(8)</code>, <code>showdevices(8)</code>, <code>showfru(8)</code></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |               |                                                                                |           |                             |                 |                                       |           |                                                       |

|                      |                                                                                                                                                                                      |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showaltitude - display the altitude state of the system                                                                                                                              |
| SYNOPSIS             | <b>showaltitude</b><br><b>showaltitude -h</b>                                                                                                                                        |
| DESCRIPTION          | <p>The <code>showaltitude(8)</code> command displays the current settings for the altitude state of the system.</p> <p>The displayed altitude value is a multiple of 100 meters.</p> |
| Privileges           | <p>You must have <code>platadm</code> or <code>fieldeng</code> privileges to run this command.</p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>               |
| OPTIONS              | <p>The following option is supported:</p> <p><code>-h</code>                      Displays usage statement.</p>                                                                      |
| EXTENDED DESCRIPTION | <p>The <code>setaltitude(8)</code> command sets the altitude of the server.</p>                                                                                                      |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Displays the altitude of the system.</p> <pre>XSCF&gt; <b>showaltitude</b> 1000m</pre>                                                                        |
| EXIT STATUS          | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                               |
| SEE ALSO             | <b>setaltitude (8)</b>                                                                                                                                                               |

showaltitude(8)



|                      |                                                                                                                                  |                                                                                                                               |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showarchiving - display log archiving configuration and status                                                                   |                                                                                                                               |
| SYNOPSIS             | <b>showarchiving</b>                                                                                                             |                                                                                                                               |
|                      | <b>showarchiving</b> [-e] [-v]                                                                                                   |                                                                                                                               |
|                      | <b>showarchiving</b> -h                                                                                                          |                                                                                                                               |
| DESCRIPTION          | showarchiving(8) displays the status and configuration information for log archiving on the Service Processor.                   |                                                                                                                               |
| Privileges           | You must have platadm, platop or fieldeng privileges to run this command.<br><br>Refer to setprivileges(8) for more information. |                                                                                                                               |
| OPTIONS              | The following options are supported:                                                                                             |                                                                                                                               |
|                      | -e                                                                                                                               | Displays information about the last ten archiving errors.                                                                     |
|                      | -h                                                                                                                               | Displays usage statement.                                                                                                     |
|                      |                                                                                                                                  | When used with other options or operands, an error occurs.                                                                    |
|                      | -v                                                                                                                               | Specifies verbose output.                                                                                                     |
| EXTENDED DESCRIPTION | If the -e option is not specified, showarchiving displays the following information:                                             |                                                                                                                               |
|                      | 1. A list of archiving configuration data:                                                                                       |                                                                                                                               |
|                      | Archiving state                                                                                                                  | Log archiving is enabled or disabled.                                                                                         |
|                      | Archive host                                                                                                                     | The host on which the logs are archived.<br>Initial value is Not configured. Possible values are a host name or IPv4 address. |
|                      | Archive directory                                                                                                                | The directory on the archive host where the archives are stored. Initial value is Not configured.                             |

|                          |                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Username for ssh login   | User name which the Service Processor uses to login to the archive host. Initial value is Not configured.                                                  |
| Archive host public key  | The public key which the Service Processor uses to verify the identity of the archive host. This field is not displayed unless the -v option is specified. |
| Archive host fingerprint | The md5 fingerprint of the public key which the Service Processor uses to verify the identity of the archive host.                                         |

2. Time of the most recent attempt to connect to the archive host, and the outcome of that attempt (success or failure):

|                      |                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------|
| Latest communication | The completion time of the latest attempt to communicate with the archive host.                             |
| Connection status    | The outcome of the latest attempt to connect to the archive host; successful (OK) or unsuccessful (FAILED). |

3. Table of the status information for audit logs and non-audit logs:

|                          |                                                                                              |
|--------------------------|----------------------------------------------------------------------------------------------|
| Archive space limit      | The amount of space allocated for the archives.                                              |
| Archive space used       | The amount of space currently consumed by the archives.                                      |
| Total archiving failures | A counter of failed archiving operations.                                                    |
| Unresolved failures      | A counter of failed archiving operations which the Service Processor will continue to retry. |

If the -e option is specified showarchiving displays the details of the last ten archiving errors that occurred.

EXAMPLES

EXAMPLE 1 Viewing Status and Configuration Data

```
XSCF> showarchiving
*** Archiving Configuration ***
Archiving state ----- Disabled
Archive host ----- Not configured
Archive directory ----- Not configured
User name for ssh login -- Not configured
Archive host fingerprint - Server authentication disabled

*** Connection to Archive Host ***
Latest communication ---- None
Connection status ----- None

 AUDIT LOGS OTHER LOGS

Archive space limit Unlimited 2000 MB
Archive space used Not monitored Not monitored
Total archiving failures 0 0
Unresolved failures 0 0
```

EXAMPLE 2 Displaying Archiving Error Information

```
XSCF> showarchiving -e
No archiving errors have occurred.
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

**setarchiving**(8)





|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--|-----|---------------------|--------------|----------------------|---------------|------------------------------|--------------|----------------------|---------------|-----------------------|-------------|--------------------------------|---------------|-------------------------------|-----------------|------------------------------------|----------------|------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--|----|----------------------------------------------------------|
| NAME                                                 | showaudit - display the current auditing system state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| SYNOPSIS                                             | <p><b>showaudit</b></p> <p><b>showaudit</b> [all]</p> <p><b>showaudit</b> [-a <i>users</i>] [-c <i>classes</i>] [-e <i>events</i>] [-g] [-m] [-p] [-s] [-t]</p> <p><b>showaudit</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| DESCRIPTION                                          | <p>showaudit(8) displays the current state of system auditing. When invoked without options showaudit displays whether the writing of audit records is enabled or disabled.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| Privileges                                           | <p>You must have auditadm or auditop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| OPTIONS                                              | <p>The following options are supported:</p> <table><tr><td>-a <i>users</i></td><td>Displays the audit record generation policy for the specified users. <i>users</i> is a comma-separated list of valid user names.</td></tr><tr><td>-c <i>classes</i></td><td>Displays the audit record generation policy for the specified audit classes. <i>classes</i> is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS_AUDIT, AUDIT or 2.</td></tr><tr><td colspan="2">The following are valid classes:</td></tr><tr><td>all</td><td>Denotes all classes</td></tr><tr><td>ACS_LOGIN(0)</td><td>Login-related events</td></tr><tr><td>ACS_CONFIG(1)</td><td>Configuration-related events</td></tr><tr><td>ACS_AUDIT(2)</td><td>Audit-related events</td></tr><tr><td>ACS_DOMAIN(3)</td><td>Domain-related events</td></tr><tr><td>ACS_USER(4)</td><td>User management-related events</td></tr><tr><td>ACS_STATUS(5)</td><td>Status inquiry-related events</td></tr><tr><td>ACS_PLATFORM(6)</td><td>Platform management-related events</td></tr><tr><td>ACS_SERVICE(7)</td><td>Service-related events</td></tr><tr><td>-e <i>events</i></td><td>Displays the audit record generation policy for the specified audit events. <i>events</i> is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The AEV_ prefix may be omitted. For example, the event for SSH login can be expressed as AEV_LOGIN_SSH, LOGIN_SSH, or 0.</td></tr><tr><td colspan="2">See showaudit -e all for a list of all valid events.</td></tr><tr><td>-g</td><td>Displays the global user audit record generation policy.</td></tr></table> | -a <i>users</i> | Displays the audit record generation policy for the specified users. <i>users</i> is a comma-separated list of valid user names. | -c <i>classes</i> | Displays the audit record generation policy for the specified audit classes. <i>classes</i> is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS_AUDIT, AUDIT or 2. | The following are valid classes: |  | all | Denotes all classes | ACS_LOGIN(0) | Login-related events | ACS_CONFIG(1) | Configuration-related events | ACS_AUDIT(2) | Audit-related events | ACS_DOMAIN(3) | Domain-related events | ACS_USER(4) | User management-related events | ACS_STATUS(5) | Status inquiry-related events | ACS_PLATFORM(6) | Platform management-related events | ACS_SERVICE(7) | Service-related events | -e <i>events</i> | Displays the audit record generation policy for the specified audit events. <i>events</i> is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The AEV_ prefix may be omitted. For example, the event for SSH login can be expressed as AEV_LOGIN_SSH, LOGIN_SSH, or 0. | See showaudit -e all for a list of all valid events. |  | -g | Displays the global user audit record generation policy. |
| -a <i>users</i>                                      | Displays the audit record generation policy for the specified users. <i>users</i> is a comma-separated list of valid user names.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| -c <i>classes</i>                                    | Displays the audit record generation policy for the specified audit classes. <i>classes</i> is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS_AUDIT, AUDIT or 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| The following are valid classes:                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| all                                                  | Denotes all classes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_LOGIN(0)                                         | Login-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_CONFIG(1)                                        | Configuration-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_AUDIT(2)                                         | Audit-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_DOMAIN(3)                                        | Domain-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_USER(4)                                          | User management-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_STATUS(5)                                        | Status inquiry-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_PLATFORM(6)                                      | Platform management-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| ACS_SERVICE(7)                                       | Service-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| -e <i>events</i>                                     | Displays the audit record generation policy for the specified audit events. <i>events</i> is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The AEV_ prefix may be omitted. For example, the event for SSH login can be expressed as AEV_LOGIN_SSH, LOGIN_SSH, or 0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| See showaudit -e all for a list of all valid events. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |
| -g                                                   | Displays the global user audit record generation policy.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                                                                  |                   |                                                                                                                                                                                                                                                                                                                              |                                  |  |     |                     |              |                      |               |                              |              |                      |               |                       |             |                                |               |                               |                 |                                    |                |                        |                  |                                                                                                                                                                                                                                                                                                                           |                                                      |  |    |                                                          |

- h            Displays usage statement.  
When used with other options or operands, an error occurs.
- m           Displays the address to which email is sent when the local audit storage space usages reaches a threshold.
- p           Displays the policy to follow when the audit trail reaches full capacity.
- s           Displays the following auditing states:
  - Space consumed by local audit records
  - Free space remaining for local audit records
  - Number of audit records dropped (since the last boot) since the audit trail reached full capacity.
- t           Displays the thresholds at which to issue warning(s) about local storage usage.

## OPERANDS

The following operands are supported:

- all           Displays the following information:
  - Whether the writing of audit trails is set to enable or disable. This is the same display that is shown for showaudit when invoked without any options.
  - All the information that would be displayed by invoking showaudit with the options: -a , -c all, -e all, -g, -m, -p, -s.

## EXAMPLES

### EXAMPLE 1    Displaying Auditing Status

```
XSCF> showaudit
Auditing: enabled
```

### EXAMPLE 2    Displaying All Class Information For Login Auditing

```
XSCF> showaudit -c LOGIN
Events:
AEV_LOGIN_BUI enabled
AEV_LOGIN_CONSOLE enabled
AEV_LOGIN_SSH enabled
AEV_LOGIN_TELNET enabled
AEV_LOGOUT enabled
AEV_AUTHENTICATE enabled
AEV_PASSWORD_CHANGE enabled
```

**EXAMPLE 3**    Displaying All Event Information

```
XSCF> showaudit -e all
Events:
AEV_AUDIT_START enabled
AEV_AUDIT_STOP enabled
AEV_ENTER_MODE enabled
AEV_EXIT_MODE enabled
AEV_LOGIN_BUI enabled
AEV_LOGIN_CONSOLE enabled
AEV_LOGIN_SSH enabled
AEV_LOGIN_TELNET enabled
AEV_LOGOUT enabled
AEV_AUTHENTICATE enabled
AEV_PASSWORD_CHANGE enabled
AEV_addboard enabled
AEV_addcodlicense enabled
AEV_addfru enabled
[...]
```

**EXIT STATUS**    The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**        **setaudit(8), viewaudit(8)**

showaudit(8)



|                    |                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showautologout - display the session timeout time of the XSCF shell                                                                                                                                                                                                                       |
| <b>SYNOPSIS</b>    | <b>showautologout</b><br><b>showautologout -h</b>                                                                                                                                                                                                                                         |
| <b>DESCRIPTION</b> | <p>The showautologout(8) command displays the session timeout time of the XSCF shell.</p> <p>The session timeout time is displayed in units of minutes. If the session timeout time has not been specified with the setautologout(8) command, a time of 10 minutes is set by default.</p> |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                             |
| <b>OPTIONS</b>     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                        |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b>    Displays the session timeout time of the XSCF shell.</p> <pre>XSCF&gt; <b>showautologout</b> 30min</pre> <p><b>EXAMPLE 2</b>    Displays the session timeout time of the XSCF shell (the time is default).</p> <pre>XSCF&gt; <b>showautologout</b> 10min</pre>     |
| <b>EXIT STATUS</b> | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                    |
| <b>SEE ALSO</b>    | <b>setautologout</b> (8)                                                                                                                                                                                                                                                                  |

showautologout(8)



|             |                                                                                                                                                                                                                                                            |                                                                                                                    |                                                                                                                                                                                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showboards - display information on an extended system board (XSB)                                                                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                |
| SYNOPSIS    | <b>showboards</b> [-v] -a [-c sp]                                                                                                                                                                                                                          |                                                                                                                    |                                                                                                                                                                                                                |
|             | <b>showboards</b> [-v] -d <i>domain_id</i> [-c sp]                                                                                                                                                                                                         |                                                                                                                    |                                                                                                                                                                                                                |
|             | <b>showboards</b> [-v] <i>xsb</i>                                                                                                                                                                                                                          |                                                                                                                    |                                                                                                                                                                                                                |
|             | <b>showboards</b> -h                                                                                                                                                                                                                                       |                                                                                                                    |                                                                                                                                                                                                                |
| DESCRIPTION | The showboards(8) command displays information on XSBs.                                                                                                                                                                                                    |                                                                                                                    |                                                                                                                                                                                                                |
|             | This command displays information on XSBs currently configured in or assigned to a domain and information on all mounted XSBs. If a domain is specified, the command displays only information defined with the corresponding domain component list (DCL). |                                                                                                                    |                                                                                                                                                                                                                |
|             | The following types of information are displayed:                                                                                                                                                                                                          |                                                                                                                    |                                                                                                                                                                                                                |
|             | XSB                                                                                                                                                                                                                                                        | XSB number. The format of the displayed number is as follows:                                                      |                                                                                                                                                                                                                |
|             |                                                                                                                                                                                                                                                            | <i>x-y</i>                                                                                                         |                                                                                                                                                                                                                |
|             |                                                                                                                                                                                                                                                            | <i>x</i>                                                                                                           | An integer from 00-15.                                                                                                                                                                                         |
|             |                                                                                                                                                                                                                                                            | <i>y</i>                                                                                                           | An integer from 0-3.                                                                                                                                                                                           |
|             | DID                                                                                                                                                                                                                                                        | Domain ID. One of the following is displayed:                                                                      |                                                                                                                                                                                                                |
|             |                                                                                                                                                                                                                                                            | 00-23                                                                                                              | Domain ID to which the XSB is assigned                                                                                                                                                                         |
|             |                                                                                                                                                                                                                                                            | SP                                                                                                                 | This is displayed if the XSB does not belong to any domain but is located in the system board pool.                                                                                                            |
|             |                                                                                                                                                                                                                                                            | Other                                                                                                              | This is displayed if the XSB belongs to a domain to which no user privilege has been granted.                                                                                                                  |
|             | LSB                                                                                                                                                                                                                                                        | Logical system board (LSB) number defined for the domain. The displayed number is an integer ranging from 0 to 15. |                                                                                                                                                                                                                |
|             | Assignment                                                                                                                                                                                                                                                 | Domain assignment state of the XSB. Either of the following is displayed:                                          |                                                                                                                                                                                                                |
|             |                                                                                                                                                                                                                                                            | Unavailable                                                                                                        | The XSB cannot be used. The XSB may be unrecognizable because it is not mounted, it contains an error, it has been assigned to another domain, or the settings of the domain or system board are not complete. |
|             |                                                                                                                                                                                                                                                            | Available                                                                                                          | The XSB is registered on the domain component list (DCL) and can be used. The XSB may be located in the system board pool.                                                                                     |
|             |                                                                                                                                                                                                                                                            | Assigned                                                                                                           | The XSB is reserved for or assigned to the domain.                                                                                                                                                             |

|                                                                                                                     |                                                                                      |                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pwr                                                                                                                 | Power status of the XSB                                                              |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | Power is off.                                                                                                                                                  |
|                                                                                                                     | y                                                                                    | Power is on.                                                                                                                                                   |
| Conn                                                                                                                | Status of the XSB connection to the domain configuration                             |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | The XSB is not connected to the domain, or it is located in the system board pool.                                                                             |
|                                                                                                                     | y                                                                                    | The XSB is connected to the domain.                                                                                                                            |
| Conf                                                                                                                | Incorporation state of XSB hardware resources into the operating system              |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | The resources are not connected to the operating system.                                                                                                       |
|                                                                                                                     | y                                                                                    | The resources are incorporated in the operating system.                                                                                                        |
| Test                                                                                                                | Status of an initial diagnosis on an XSB                                             |                                                                                                                                                                |
|                                                                                                                     | Unmount                                                                              | The XSB cannot be recognized because it is not mounted or because it has an error.                                                                             |
|                                                                                                                     | Unknown                                                                              | Not performed.                                                                                                                                                 |
|                                                                                                                     | Testing                                                                              | The initial diagnosis is in progress.                                                                                                                          |
|                                                                                                                     | Passed                                                                               | The initial diagnosis ended normally.                                                                                                                          |
|                                                                                                                     | Failed                                                                               | Error (test=fail) detected by an initial diagnosis. The XSB cannot be used or is in a degraded state.                                                          |
| Fault                                                                                                               | XSB degradation status                                                               |                                                                                                                                                                |
|                                                                                                                     | Normal                                                                               | Normal                                                                                                                                                         |
|                                                                                                                     | Degraded                                                                             | Component in a degraded state. The XSB can operate.                                                                                                            |
|                                                                                                                     | Faulted                                                                              | An error occurred and the XSB cannot operate.                                                                                                                  |
| When the -v option is specified, the following types of information are displayed as XSB detail status information: |                                                                                      |                                                                                                                                                                |
| R                                                                                                                   | Dynamic reconfiguration(DR) involving the reservation state of the XSB in the domain |                                                                                                                                                                |
|                                                                                                                     | *                                                                                    | DR processing is reserved. When the domain is rebooted, the XSB is incorporated into or disconnected from the domain, and the domain configuration is changed. |
| Cod                                                                                                                 | Whether the XSB is a COD board                                                       |                                                                                                                                                                |
|                                                                                                                     | n                                                                                    | The XSB is not a COD board.                                                                                                                                    |
|                                                                                                                     | y                                                                                    | The XSB is a COD board.                                                                                                                                        |



**Privileges** You must have one of the following privileges to run this command:

platadm, platop, fieldeng

Can execute the command for all domains.

domainadm, domainmgr, domainop

Can execute the command only for accessible domains.

Refer to setprivileges(8) for more information.

**OPTIONS** The following options are supported:

- a Displays the state of XSBs configured in or assigned to a domain and the state of all mounted XSBs.
- c sp Displays the system boards located in the system board pool. System boards in the system board pool do not belong to any domain.
- d domain\_id Specifies the ID of the domain whose status of XSB is displayed. Only information that is defined with the DCL of the specified domain is displayed. An integer ranging from 0 to 23 can be specified for domain\_id, depending on the system configuration.
- h Displays usage statement. When used with other options or operands, an error occurs.
- v Displays detailed information on XSB.

**OPERANDS** The following operand is supported:

xsb Specifies the XSB number to be displayed. The following xsb form is accepted:

x-y

where:

x An integer from 00-15.

y An integer from 0-3.

**EXAMPLES** **EXAMPLE 1** Displays information on all mounted system boards.

```
XSCF> showboards -a
```

| XSB  | DID(LSB) | Assignment  | Pwr | Conn | Conf | Test    | Fault  |
|------|----------|-------------|-----|------|------|---------|--------|
| 00-0 | 00(00)   | Assigned    | y   | y    | y    | Passed  | Normal |
| 00-1 | 00(01)   | Assigned    | y   | y    | y    | Passed  | Normal |
| 00-2 | SP       | Available   | y   | n    | n    | Passed  | Normal |
| 00-3 | 02(00)   | Unavailable | y   | n    | n    | Unknown | Normal |

**EXAMPLE 2** Displays detailed information on all mounted system boards.

```
XSCF> showboards -v -a
```

| XSB  | R | DID(LSB) | Assignment  | Pwr | Conn | Conf | Test    | Fault  | COD |
|------|---|----------|-------------|-----|------|------|---------|--------|-----|
| 00-0 |   | 00(00)   | Assigned    | y   | y    | y    | Passed  | Normal | n   |
| 00-1 | * | 00(01)   | Assigned    | y   | y    | y    | Passed  | Normal | n   |
| 00-2 |   | SP       | Available   | y   | n    | n    | Passed  | Normal | n   |
| 00-3 |   | 02(00)   | Unavailable | y   | n    | n    | Unknown | Normal | n   |

**EXAMPLE 3** Displays information on XSB#00-0.

```
XSCF> showboards 00-0
```

| XSB  | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  |
|------|----------|------------|-----|------|------|--------|--------|
| 00-0 | 15(00)   | Assigned   | y   | y    | y    | Passed | Normal |

**EXAMPLE 4** Displays detailed information on XSB#00-0.

```
XSCF> showboards -v 00-0
```

| XSB  | R | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  | COD |
|------|---|----------|------------|-----|------|------|--------|--------|-----|
| 00-0 | * | 15(00)   | Assigned   | y   | n    | n    | Passed | Normal | y   |

**EXAMPLE 5** Displays system boards located in the system board pool.

```
XSCF> showboards -a -c sp
```

| XSB  | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  |
|------|----------|------------|-----|------|------|--------|--------|
| 00-0 | SP       | Available  | y   | n    | n    | Passed | Normal |
| 00-2 | SP       | Available  | y   | n    | n    | Passed | Normal |
| 00-3 | SP       | Available  | y   | n    | n    | Passed | Normal |

**EXAMPLE 6** Displays the system boards that are defined for domain ID 0 and located in the system board pool.

```
XSCF> showboards -d 0 -c sp
```

| XSB  | DID(LSB) | Assignment | Pwr | Conn | Conf | Test   | Fault  |
|------|----------|------------|-----|------|------|--------|--------|
| 00-2 | SP       | Available  | y   | n    | n    | Passed | Normal |

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** [addboard\(8\)](#), [addcodlicense\(8\)](#), [deleteboard\(8\)](#), [deletecodlicense\(8\)](#), [moveboard\(8\)](#), [setdcl\(8\)](#), [setupfru\(8\)](#), [showcodlicense\(8\)](#), [showcodusage\(8\)](#), [showdcl\(8\)](#), [showdevices\(8\)](#), [showfru\(8\)](#)

|                     |                                                                                                                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |    |                           |  |                                                            |    |                           |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|----|---------------------------|
| <b>NAME</b>         | showcod - display Capacity on Demand (COD) configuration information                                                                                                                                                                                                                                                                                                                                  |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| <b>SYNOPSIS</b>     | <p><b>showcod</b></p> <p><b>showcod</b> [-v] [-d <i>domain_id</i>]</p> <p><b>showcod</b> -h</p>                                                                                                                                                                                                                                                                                                       |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| <b>DESCRIPTION</b>  | showcod(8) displays the COD information which includes the headroom amount, number of installed COD right-to-use (RTU) licenses, the number of COD RTU licenses reserved for domains, and the Chassis Hostid. When used without arguments it displays the current COD information.                                                                                                                    |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| <b>Privileges</b>   | <p>You must have platadm, platop, domainadm, domainop, or domainmgr privileges for the specified domain.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                   |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| <b>OPTIONS</b>      | <p>The following options are supported:</p> <table> <tr> <td>-d <i>domain_id</i></td><td>Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration.</td></tr> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-v</td><td>Specifies verbose output.</td></tr> </table> | -d <i>domain_id</i> | Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration. | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. | -v | Specifies verbose output. |
| -d <i>domain_id</i> | Domain identifier. <i>domain_id</i> can be 0–23 depending on system configuration.                                                                                                                                                                                                                                                                                                                    |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| -h                  | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                    |    |                           |  |                                                            |    |                           |
|                     | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                            |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| -v                  | Specifies verbose output.                                                                                                                                                                                                                                                                                                                                                                             |                     |                                                                                    |    |                           |  |                                                            |    |                           |
| <b>EXAMPLES</b>     | <p><b>EXAMPLE 1</b> Displaying COD Information for All Domains on an OPL System</p> <p>The output shown is what you would see if you had domainadm, domainop, or domainmgr privileges for Domain 1.</p> <pre>XSCF&gt; <b>showcod</b> PROC RTUs reserved for domain 1 : 0</pre>                                                                                                                        |                     |                                                                                    |    |                           |  |                                                            |    |                           |

**EXAMPLE 2** Displaying All COD Information

The output shown is what you would see if you had platform privileges.

```
XSCF> showcod
Chassis HostID : 81000001
PROC RTUs installed : 8
PROC Headroom Quantity : 0
PROC RTUs reserved for domain 0 : 4
PROC RTUs reserved for domain 1 : 0
PROC RTUs reserved for domain 2 : 0
PROC RTUs reserved for domain 3 : 0
PROC RTUs reserved for domain 4 : 0
PROC RTUs reserved for domain 5 : 0
PROC RTUs reserved for domain 6 : 0
PROC RTUs reserved for domain 7 : 0
PROC RTUs reserved for domain 8 : 0
PROC RTUs reserved for domain 9 : 0
PROC RTUs reserved for domain 10 : 0
PROC RTUs reserved for domain 11 : 0
PROC RTUs reserved for domain 12 : 0
PROC RTUs reserved for domain 13 : 0
PROC RTUs reserved for domain 14 : 0
PROC RTUs reserved for domain 15 : 0
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setcod** (8)

|                      |                                                                                                                                                    |                                                                                                                                   |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showcodlicense - display the current Capacity on Demand (COD) right-to-use (RTU) licenses stored in the COD license database                       |                                                                                                                                   |
| SYNOPSIS             | <b>showcodlicense</b>                                                                                                                              |                                                                                                                                   |
|                      | <b>showcodlicense</b> [-r] [-v]                                                                                                                    |                                                                                                                                   |
|                      | <b>showcodlicense</b> -h                                                                                                                           |                                                                                                                                   |
| DESCRIPTION          | showcodlicense(8) displays COD license information stored in the COD license database. When used without options it displays the current licenses. |                                                                                                                                   |
| Privileges           | You must have platadm or platop privileges to run this command.                                                                                    |                                                                                                                                   |
|                      | Refer to setprivileges(8) for more information.                                                                                                    |                                                                                                                                   |
| OPTIONS              | The following options are supported:                                                                                                               |                                                                                                                                   |
|                      | -h                                                                                                                                                 | Displays usage statement.                                                                                                         |
|                      |                                                                                                                                                    | When used with other options or operands, an error occurs.                                                                        |
|                      | -r                                                                                                                                                 | Displays the license information in the raw <i>license-signature</i> format, as stored in the COD license database.               |
|                      | -v                                                                                                                                                 | Specifies verbose output. Displays both the formatted license information and raw <i>license-signature</i> data.                  |
|                      |                                                                                                                                                    |                                                                                                                                   |
| EXTENDED DESCRIPTION | The showcodlicense command displays the following COD information:                                                                                 |                                                                                                                                   |
|                      | Description                                                                                                                                        | Type of resource (processor).                                                                                                     |
|                      | Ver                                                                                                                                                | Version number of the license, which is always set to 01.                                                                         |
|                      | Expiration                                                                                                                                         | Expiration of the license.                                                                                                        |
|                      | Count                                                                                                                                              | Number of right-to-use licenses granted for the given resource.                                                                   |
|                      | Status                                                                                                                                             | GOOD, which indicates that the given resource is valid, or EXPIRED, which indicates that the resource license is no longer valid. |
|                      |                                                                                                                                                    |                                                                                                                                   |
| EXAMPLES             | The following examples display the COD license information:                                                                                        |                                                                                                                                   |

**EXAMPLE 1**    Displaying Formatted License Data

```
XSCF> showcodlicense -v
Description Ver Expiration Count Status

PROC 01 NONE 16 GOOD
01:84000000:000000001:0301010100:16:00000000:xxxxxxxxxxxxxxxxxxxx
```

**EXAMPLE 2**    Displaying Raw License Data

```
XSCF> showcodlicense -r
01:84000000:104:0301010100:3:00000000:xxxxxxxxxxxxxxxx
```

**EXIT STATUS**

The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**

**addcodlicense (8) , deletecodlicense (8) , showcodusage (8)**

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showcodusage - display the current usage statistics for Capacity on Demand (COD) resources                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>SYNOPSIS</b>    | <p><b>showcodusage</b></p> <p><b>showcodusage</b> [-v] [-M] [-p resource domain all]</p> <p><b>showcodusage</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>DESCRIPTION</b> | showcodusage(8) shows current information about COD right-to-use (RTU) licenses in use. By default, this command displays a summary of COD RTU licenses used and installed, along with the current state of each resource. When used without options, it displays the current usage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop:</p> <p>Can run this command for all resources and domains.</p> <p>domainadm, domainmgr, domainop:</p> <p>Can run this command for available resources only for those domains that you can access.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p> <p>                         When used with other options or operands, an error occurs.</p> <p>-M                      Displays text by page. This option provides a function that is the same as that of the more command.</p> <p>-p domain              Displays the license usage for each domain. The statistics reported include the number of COD RTU licenses used by the domain, resources assigned to the domain, and COD RTU licenses reserved for the domain.</p> <p>-p resource            Displays license usage by resource type.</p> <p>-p all                   Displays all COD usage information.</p> <p>-v                      Specifies verbose output. Displays all available COD usage information, including COD RTU license use for both the system and its domains.</p> |

**EXTENDED  
DESCRIPTION**

The `showcodusage -p resource` command displays the following COD usage information for the system:

|           |                                                                |                                                                                                                                                                                                                                                                                                                               |
|-----------|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Resource  | Identifies the type of COD resources available (processors).   |                                                                                                                                                                                                                                                                                                                               |
| In Use    | Specifies the number of COD CPUs currently used in the system. |                                                                                                                                                                                                                                                                                                                               |
| Installed | Specifies the number of COD CPUs installed in the system.      |                                                                                                                                                                                                                                                                                                                               |
| License   | Specifies the number of COD RTU licenses installed.            |                                                                                                                                                                                                                                                                                                                               |
| Status    | Specifies one of the following COD attributes:                 |                                                                                                                                                                                                                                                                                                                               |
|           | OK                                                             | Indicates that there are sufficient licenses for the COD CPUs in use. Also displays the number of remaining COD resources available and the number of any instant access CPUs (headroom) available.                                                                                                                           |
|           | HEADROOM                                                       | The number of instant access COD CPUs in use.                                                                                                                                                                                                                                                                                 |
|           | Violation                                                      | Indicates a COD RTU license violation exists. Displays the number of COD CPUs in use that exceeds the number of COD RTU licenses available. This situation can occur when you force the deletion of a COD RTU license key from the COD RTU license database, but the COD CPU associated with the license key is still in use. |

The `showcodusage -p domain` command displays the following COD usage information for each domain:

|                 |                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Domain/Resource | Identifies COD RTU resource (processor) for each domain. An Unused processor is a COD CPU that has not yet been assigned to a domain. |
| In Use          | Specifies the number of COD CPUs currently used in the domain.                                                                        |



|           |                                                                    |                                                                                      |
|-----------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Installed | Specifies the number of COD CPU resources installed in the domain. |                                                                                      |
| Reserved  | Specifies the number of COD RTU licenses allocated to the domain.  |                                                                                      |
| Status    | Contains one of the following when the -v option is specified:     |                                                                                      |
|           | Licensed                                                           | The domain COD CPU has a COD RTU license and is in use.                              |
|           | Unlicensed                                                         | A COD RTU license for the domain COD CPU could not be obtained and it is not in use. |
|           | Unused                                                             | The COD CPU is not in use.                                                           |

EXAMPLES

Users with platform administrator privileges can view both resource and domain usage summaries. Users with domain administrator privileges can view only the domain usage summaries for which they have privileges, and a report of unused licenses.

EXAMPLE 1    Displaying COD Usage by Resource

```
XSCF> showcodusage -p resource
Resource In Use Installed Licensed Status
----- -
PROC 4 4 16 OK: 12 available
```

EXAMPLE 2    Displaying COD Usage by Domain

```
XSCF> showcodusage -p domains
Domain/Resource In Use Installed Reserved

0 - PROC 4 4 0
1 - PROC 4 4 0
2 - PROC 4 4 0
3 - PROC 4 4 0
4 - PROC 0 0 0
Unused - PROC 0 0 12
```

**EXAMPLE 3** Displaying COD Usage by Resource and Domain: M8000 Server With CMU00 Quad-XSB, CMU02 Uni-XSB

```

XSCF> showcodusage -v
Resource In Use Installed Licensed Status

PROC 0 8 0 OK: 0 available Headroom: 2
Domain/Resource In Use Installed Reserved Status

0 - PROC 0 8 0
 00-0 - PROC 0 1
 CMU00-CPU0 Unused
 00-1 - PROC 0 1
 CMU00-CPU1 Unused
 00-2 - PROC 0 1
 CMU00-CPU2 Unused
 00-3 - PROC 0 1
 CMU00-CPU3 Unused
 02-0 - PROC 0 4
 CMU02-CPU0 Unused
 CMU02-CPU1 Unused
 CMU02-CPU2 Unused
 CMU02-CPU3 Unused
1 - PROC 0 0 0
2 - PROC 0 0 0
3 - PROC 0 0 0
4 - PROC 0 0 0
5 - PROC 0 0 0
6 - PROC 0 0 0
7 - PROC 0 0 0
8 - PROC 0 0 0
9 - PROC 0 0 0
10 - PROC 0 0 0
11 - PROC 0 0 0
12 - PROC 0 0 0
13 - PROC 0 0 0
14 - PROC 0 0 0
15 - PROC 0 0 0
Unused - PROC 0 0 2

```

**EXAMPLE 4** Displaying COD Usage by Resource and Domain: M5000 Server

```

XSCF> showcodusage -v
Resource In Use Installed Licensed Status

PROC 0 4 0 OK: 0 available
Domain/Resource In Use Installed Reserved Status

0 - PROC 0 0 0
1 - PROC 0 0 0
2 - PROC 0 0 0
3 - PROC 0 0 0
Unused - PROC 0 4 0
 00-0 - PROC 0 4
 CPUM00-CPU0 Unused
 CPUM00-CPU1 Unused
 CPUM01-CPU0 Unused
 CPUM01-CPU1 Unused

```

**EXIT STATUS**      The following exit values are returned:

- 0                      Successful completion.
- >0                    An error occurred.

**SEE ALSO**      **addcodlicense (8), deletecodlicense (8), showcodlicense (8)**

showcodusage(8)



|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------|--|-----------------------------------------|--|----------------------------------------|--------|---------------------------------------|------|--------------------------------------|
| NAME                | showconsolepath - displays information on the domain console that is currently connected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| SYNOPSIS            | <b>showconsolepath</b> -a<br><b>showconsolepath</b> -d <i>domain_id</i><br><b>showconsolepath</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| DESCRIPTION         | <p>The showconsolepath(8) command displays information on the domain console that is currently connected.</p> <p>The following information can be displayed:</p> <table><tr><td>User</td><td>User account of the XSCF connected to the domain console</td></tr><tr><td>DID</td><td>Domain ID</td></tr><tr><td>ro/rw</td><td>Domain console type</td></tr><tr><td></td><td>ro                    Read-only console</td></tr><tr><td></td><td>rw                    Writable console</td></tr><tr><td>escape</td><td>Escape mark specified for the console</td></tr><tr><td>Date</td><td>Date connected to the domain console</td></tr></table> | User | User account of the XSCF connected to the domain console          | DID                 | Domain ID                                                                                                                                         | ro/rw | Domain console type                                                                  |  | ro                    Read-only console |  | rw                    Writable console | escape | Escape mark specified for the console | Date | Date connected to the domain console |
| User                | User account of the XSCF connected to the domain console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| DID                 | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| ro/rw               | Domain console type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
|                     | ro                    Read-only console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
|                     | rw                    Writable console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| escape              | Escape mark specified for the console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| Date                | Date connected to the domain console                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| Privileges          | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                             |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| OPTIONS             | <p>The following options are supported.</p> <table><tr><td>-a</td><td>Displays console information on all domains that can be accessed.</td></tr><tr><td>-d <i>domain_id</i></td><td>Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>                                                                                                                                                                     | -a   | Displays console information on all domains that can be accessed. | -d <i>domain_id</i> | Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration. | -h    | Displays usage statement. When used with other options or operands, an error occurs. |  |                                         |  |                                        |        |                                       |      |                                      |
| -a                  | Displays console information on all domains that can be accessed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| -d <i>domain_id</i> | Specifies only one ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                   |                     |                                                                                                                                                   |       |                                                                                      |  |                                         |  |                                        |        |                                       |      |                                      |

**EXTENDED  
DESCRIPTION**

Only one writable console and one or more read-only consoles can be connected to one domain.

**EXAMPLES**

**EXAMPLE 1** Displays console information on all domains that can be accessed.

```
XSCF> showconsolepath -a
User DID ro/rw escape Date
nakagawa 00 rw @ Fri Jul 29 21:23:34
hana 00 ro # Fri Jul 29 09:49:12
k-okano 00 ro # Fri Jul 29 18:21:50
yuuki 01 rw | Fri Jul 29 10:19:18
uchida 01 ro * Fri Jul 29 13:30:41
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**console(8)**, **sendbreak(8)**

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                                                                                 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------------------------------|
| NAME                 | showdate - display the date and time of XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                                                                                      |    |                                                                                                                 |
| SYNOPSIS             | <b>showdate</b> [-u]<br><b>showdate</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                                                                                      |    |                                                                                                                 |
| DESCRIPTION          | <p>The <code>showdate(8)</code> command displays the date and time of XSCF.</p> <p>If <code>showdate(8)</code> command is executed with no options, date and time currently set is displayed.</p> <p>If the local date and time are specified, they are set following conversion to coordinated universal time (UTC).</p> <p>After date and time are set, the prompt to confirm the reset of XSCF is displayed. When XSCF is reset, the set date and time are reflected.</p> <p>Changed date and time are reflected in the domain when either of the following operations is performed:</p> <ul style="list-style-type: none"><li>■ Rebooting the domain</li><li>■ The NTP time synchronization processing after the change of date and time of XSCF with the <code>date(8)</code> command</li></ul> |    |                                                                                      |    |                                                                                                                 |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p><code>useradm</code>, <code>platadm</code>, <code>platop</code>, <code>auditadm</code>, <code>auditop</code>, <code>domainadm</code>, <code>domainmgr</code>, <code>domainop</code>, <code>fieldeng</code></p> <p>Refer to <code>setprivileges(8)</code> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                                                                                 |
| OPTIONS              | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-u</td><td>Specifies time in coordinated universal time (UTC). When the -u option is omitted, the local time is specified.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -h | Displays usage statement. When used with other options or operands, an error occurs. | -u | Specifies time in coordinated universal time (UTC). When the -u option is omitted, the local time is specified. |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                      |    |                                                                                                                 |
| -u                   | Specifies time in coordinated universal time (UTC). When the -u option is omitted, the local time is specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                                                                                 |
| EXTENDED DESCRIPTION | <p>The <code>setdate(8)</code> command sets the XSCF date and time.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                      |    |                                                                                                                 |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the current time as the local time (JST).</p> <pre>XSCF&gt; <b>showdate</b><br/>Mon Jan 23 14:53:00 JST 2006</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                                                                                 |

showdate(8)

**EXAMPLE 2** Displays the current time in UTC.

```
XSCF> showdate -u
Mon Jan 23 05:56:15 UTC 2006
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setdate (8), settimezone (8), showtimezone (8)**



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |           |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| NAME        | showdcl - display the current domain component list (DCL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |
| SYNOPSIS    | <p><b>showdcl</b> [-v] -a</p> <p><b>showdcl</b> [-v] -d <i>domain_id</i> [-l <i>lsb...</i>]</p> <p><b>showdcl</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |           |
| DESCRIPTION | <p>The <code>showdcl(8)</code> command displays the DCL that has been set by the <code>setdcl(8)</code> command.</p> <p>The DCL is hardware resource information that can be set for a domain or the logical system boards (LSBs) that are components of a domain.</p> <p>An LSB is a board unit recognized by an operating system in a domain. Up to 16 LSBs can be registered for each domain, and they are represented by integer numbers ranging from 0 to 15.</p> <p>An XSB is a board unit that can be used in the system and is one division of a divided physical system board (PSB). An XSB is represented by <i>x-y</i>, a combination of a PSB number and the number of one division of the divided PSB (<i>x</i> is an integer ranging from 00 to 15, and <i>y</i> is an integer ranging from 0 to 3).</p> <p>The <code>showdcl(8)</code> command can display the following information that is part of a domain component list:</p> <table><tr><td>DID</td><td>Domain ID</td></tr></table> | DID | Domain ID |
| DID         | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |           |

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LSB    | LSB number. The displayed number is an integer ranging from 00 to 15.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| XSB    | <p>XSB number corresponding to the LSB. The displayed number has the following format:</p> <p><math>x-y</math></p> <p>where:</p> <p><math>x</math>                      An integer from 00–15.</p> <p><math>y</math>                      An integer from 0–3.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Status | <p>Domain status. One of the following status is displayed:</p> <p>Powered Off</p> <p>Power is off.</p> <p>Panic State</p> <p>A panic occurred, and the domain is in the reset state.</p> <p>Shutdown Started</p> <p>The power-off process is starting.</p> <p>Initialization Phase</p> <p>OpenBoot PROM initialization is in progress.</p> <p>OpenBoot Executing Completed</p> <p>The system is in the OpenBoot PROM (ok prompt) state.</p> <p>Booting/OpenBoot PROM prompt</p> <p>The operating system is booting. Or due to the domain shutdown or reset, the system is in the OpenBoot PROM running state or is suspended in the OpenBoot PROM (ok prompt) state.</p> <p>Running</p> <p>The operating system is running.</p> |

If the `-v` option is specified, the following information is added:

|            |                                                                                                                                                                                                                                                                                                                                    |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cfg-policy | Degradation range applicable for an error detected during an initial diagnosis of hardware. Any of the following is displayed:<br>FRU                      Degradation of a component (default)<br>XSB                       Degradation of an XSB.<br>System                   Degradation of a domain                            |
| No-Mem     | Whether to omit the use of memory on a domain. Either of the following is displayed:<br>True                      Omits the use of memory on a domain.<br>False                     Does not omits the use of memory on a domain (default).                                                                                        |
| No-IO      | Whether to omit the use of I/O devices on a domain. Either of the following is displayed:<br>True                      Omits the use of I/O devices on a domain.<br>False                     Does not omit the use of I/O devices on a domain (default).                                                                          |
| Float      | Whether to set a priority for the specified LSB as a floating board, relative to other boards. Either of the following is displayed:<br>True                      Gives a higher priority to the LSB to become a floating board.<br>False                     Does not give a higher priority regarding floating boards (default). |

**Privileges**      You must have one of the following privileges to run this command:

- platadm, platop, fieldeng  
Can execute the command for all domains.
- domainadm, domainmgr, domainop  
Can execute the command only for accessible domain.

Refer to `setprivileges(8)` for more information.

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| OPTIONS | <p>The following options are supported:.</p> <ul style="list-style-type: none"><li>-a Displays information that is set for all domains.</li><li>-d <i>domain_id</i> Specifies the ID of the domain for which information is to be displayed. The <i>domain_id</i> can be 0–23 depending on the system configuration.</li><li>-h Displays usage statement. When used with other options or operands, an error occurs.</li><li>-l <i>lsb</i> Specifies the LSB number whose information is to be displayed. Specify an <i>lsb</i> value by using an integer ranging from 0 to 15. Multiple <i>locations</i> can be specified by delimiting them with spaces. If <i>lsb</i> is omitted, all the LSBs in the domain are targets.</li><li>-v Also displays information on Cfg-policy, No-Mem, No-IO, and Float in the DCL.</li></ul> |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                      |                                                                                                                                                                                                                                                                                                                                                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ A system board for which the floating board priority is set to a low value is difficult to use as a floating board. Accordingly, it is difficult for the system board to affect the domain operation system.</li><li>■ The <code>setdcl(8)</code> command sets domain configuration information.</li></ul> |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                                                                                                                                                                               |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXAMPLES | <p><b>EXAMPLE 1</b> Displays detailed information on the DCL that is set for domain ID 0</p> <pre>XSCF&gt; <b>showdcl -d 0</b> DID  LSB  XSB  Status 00       00   00-0       04   01-0       08   02-0       12   03-0</pre> |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**EXAMPLE 2** Displays details in the domain component list that is set for domain ID 0.

```
XSCF> showdcl -v -d 0
DID LSB XSB Status No-Mem No-IO Float Cfg-policy
00 00 00-0 Running False False False FRU
 01 -
 02 -
 03 -
 04 01-0 False True False
 05 -
 06 -
 07 -
 08 02-0 True True True
 09 -
 10 -
 11 -
 12 03-0 True True False
 13 -
 14 -
 15 -
```

**EXAMPLE 3** Displays details in the domain component lists that are set for all domains.

```
XSCF> showdcl -v -a
DID LSB XSB Status No-Mem No-IO Float Cfg-policy
00 00 00-0 Running False False False FRU
 01 -
 02 -
 03 -
 04 01-0 False True False
 05 -
 06 -
 07 -
 08 02-0 True True True
 09 -
 10 -
 11 -
 12 03-0 True True False
 13 -
 14 -
 15 -

01 00 01-2 Running True True False FRU
 01 04-0 False False False
 02 -
 03 -
 04 -
 05 -
 06 -
 07 05-0 True False False
 08 -
 09 -
 10 -
 11 -
 12 -
 13 -
 14 06-0 True True True
 15 -

:
:
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** **addboard** (8), **deleteboard** (8), **moveboard** (8), **setdcl** (8), **setupfru** (8), **showboards** (8), **showdevices** (8), **showfru** (8)

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-----|------------|----|--------------|-------|---------------------|-------|---------------------|--------|------------------------------|-----------|----------------------------------------|----------|---------------------------------------------------------------------|--------------|-----------------------------------------------|------------|-----------------------------------|
| NAME         | showdevices - display current information on an eXtended System Board (XSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| SYNOPSIS     | <b>showdevices</b> [-v] [-p bydevice   byboard   query   force] <i>xsb</i><br><b>showdevices</b> [-v] [-p bydevice   byboard] -d <i>domain_id</i><br><b>showdevices</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| DESCRIPTION  | <p>The <code>showdevices(8)</code> command displays the information of the physical devices configured on XSB and their available resources of these devices.</p> <p>The information of available resources can be obtained for the devices managed by the operating system. The command can also display in advance whether the XSB can be disconnected from the domain using the dynamic reconfiguration (DR) function.</p> <p>The following types of information are displayed:</p> <p>Common:</p> <table><tr><td>DID</td><td>Domain ID</td></tr><tr><td>XSB</td><td>XSB number</td></tr></table> <p>CPU:</p> <table><tr><td>id</td><td>processor ID</td></tr><tr><td>state</td><td>status of processor</td></tr><tr><td>speed</td><td>CPU frequency (MHz)</td></tr><tr><td>ecache</td><td>CPU external cache size (MB)</td></tr></table> <p>MEMORY:</p> <table><tr><td>board mem</td><td>Size of memory mounted on the XSB (MB)</td></tr><tr><td>perm mem</td><td>Size of memory that mounted and cannot be relocated on the XSB (MB)</td></tr><tr><td>base address</td><td>Physical address of memory mounted on the XSB</td></tr><tr><td>domain mem</td><td>Size of memory on the domain (MB)</td></tr></table> | DID | Domain ID | XSB | XSB number | id | processor ID | state | status of processor | speed | CPU frequency (MHz) | ecache | CPU external cache size (MB) | board mem | Size of memory mounted on the XSB (MB) | perm mem | Size of memory that mounted and cannot be relocated on the XSB (MB) | base address | Physical address of memory mounted on the XSB | domain mem | Size of memory on the domain (MB) |
| DID          | Domain ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| XSB          | XSB number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| id           | processor ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| state        | status of processor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| speed        | CPU frequency (MHz)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| ecache       | CPU external cache size (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| board mem    | Size of memory mounted on the XSB (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| perm mem     | Size of memory that mounted and cannot be relocated on the XSB (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| base address | Physical address of memory mounted on the XSB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |
| domain mem   | Size of memory on the domain (MB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |           |     |            |    |              |       |                     |       |                     |        |                              |           |                                        |          |                                                                     |              |                                               |            |                                   |

When memory is being disconnected, the following items are displayed:

|           |     |                                               |
|-----------|-----|-----------------------------------------------|
| target    | XSB | XSB number at the move destination            |
| deleted   | mem | Size of memory which was already deleted (MB) |
| remaining | mem | Size of remaining memory to be deleted (MB)   |

I/O devices:

|          |                                                |
|----------|------------------------------------------------|
| device   | Instance name of I/O device                    |
| resource | Managed resource name                          |
| usage    | Description of the instance using resources    |
| query    | Results of an off-line inquiry about resources |

### Privileges

You must have one of the following privileges to run this command:

platadm, platop, fieldeng

Can run this command for all domains.

domainadm, domainmgr, domainop

Can run this command only for your accessible domains.

Refer to `setprivileges(8)` for more information.

### OPTIONS

The following options are supported.

|                           |                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-d domain_id</code> | Specifies the ID of the domain for which information is to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                      |
| <code>-h</code>           | Displays usage statement. When used with other options or operands, an error occurs.                                                                                              |
| <code>-p byboard</code>   | Displays results organized by XSB. The results can be further summarized by device and displayed. If the <code>-p</code> option is omitted, " <code>-p bydevice</code> " is used. |
| <code>-p bydevice</code>  | Displays results organized by device type (CPU, memory, I/O, etc.). If the <code>-p</code> option is omitted, " <code>-p bydevice</code> " is used.                               |



|          |                                                                                                                                                                                                                                                                   |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -p force | Predicts system resources deleted from the operating system when a system board is forcibly disconnected by "deleteboard -f" command. If the -p option is omitted, "-p bydevice" is used.                                                                         |
| -p query | Predicts system resources deleted from the operating system when a system board is disconnected by deleteboard command. If the -p option is omitted, "-p bydevice" is used.                                                                                       |
| -v       | Displays information on all I/O devices, including those that are not management targets. As information on the I/O devices that are not management targets, however, only physical configurations are displayed, and resources and use states are not displayed. |

**OPERANDS**      The following operand is supported:

|            |                                                                                                                                                                                                            |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>xsb</i> | Specifies the XSB number for which information is to be displayed. The following xsb form is accepted:<br><br><i>x-y</i><br><br>where:<br><i>x</i> An integer from 00-15.<br><i>y</i> An integer from 0-3. |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

EXAMPLES

**EXAMPLE 1** Displays the information of the physical devices configured on the XSB#00-0 and their available resources.

```
XSCF> showdevices 00-0

CPU:

DID XSB id state speed ecache
00 00-0 40 on-line 2048 4
00 00-0 41 on-line 2048 4
00 00-0 42 on-line 2048 4
00 00-0 43 on-line 2048 4

Memory:

 board perm base domain target deleted remaining
DID XSB mem MB mem MB address mem MB XSB mem MB mem MB
00 00-0 2048 1290 0x000003c000000000 2048 03-0 250 1500
00 00-1 2048 0 0x0000038000000000 2048 0 0 0
00 00-2 2048 0 0x0000034000000000 2048 0 0 0
00 00-3 2048 0 0x0000030000000000 2048 0 0 0
00 01-0 2048 0 0x000002c000000000 2048 1024 0
00 02-0 2048 0 0x0000028000000000 2048 0 0

IO Devices:

DID XSB device resource usage
00 00-0 sd3 /dev/dsk/c0t3d0s0 mounted filesystem "/"
00 00-0 sd3 /dev/dsk/c0t3s0s1 dump device (swap)
00 00-0 sd3 /dev/dsk/c0t3s0s1 swap area
00 00-0 sd3 /dev/dsk/c0t3d0s3 mounted filesystem "/var"
00 00-0 sd3 /var/run mounted filesystem "/var/run"
```

**EXAMPLE 2** Displays detail information of the physical devices and their available resources in domain ID 0.

```
XSCF> showdevices -v -d 0

CPU:

DID XSB id state speed ecache
00 00-0 40 on-line 2048 4
00 00-0 41 on-line 2048 4
00 00-0 42 on-line 2048 4
00 00-0 43 on-line 2048 4
00 01-0 50 on-line 2048 4
00 01-0 51 on-line 2048 4
00 01-0 52 on-line 2048 4
00 01-0 53 on-line 2048 4

Memory:

board perm base domain target deleted remaining
DID XSB mem MB mem MB address mem MB XSB mem MB mem MB
00 00-0 2048 1290 0x000003c000000000 4096 00-1 250 1500
00 01-0 2048 0 0x000002c000000000 4096

IO Devices:

DID XSB device resource usage
00 00-0 sd0
00 00-0 sd1
00 00-0 sd2
00 00-0 sd3 /dev/dsk/c0t3d0s0 mounted filesystem "/"
00 00-0 sd3 /dev/dsk/c0t3s0s1 dump device (swap)
00 00-0 sd3 /dev/dsk/c0t3s0s1 swap area
00 00-0 sd3 /dev/dsk/c0t3d0s3 mounted filesystem "/var"
00 00-0 sd3 /var/run mounted filesystem "/var/run"
00 00-0 sd4
00 00-0 sd5
00 00-0 sd6
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** `addboard(8)`, `deleteboard(8)`, `moveboard(8)`, `setdcl(8)`, `setupfru(8)`, `showboards(8)`, `showdcl(8)`, `showfru(8)`

showdevices(8)



|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|----------------------------------------------------------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                | showdomainmode - display the domain mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| SYNOPSIS            | <b>showdomainmode</b> -d <i>domain_id</i><br><b>showdomainmode</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| DESCRIPTION         | <p>showdomainmode(8) command displays the domain mode that is set for the specified domain.</p> <p>The following states are displayed:</p> <table><tr><td>HOST-ID</td><td>Host ID</td></tr><tr><td>Diagnostic Level</td><td>Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br/>none               None<br/>min                 Standard<br/>max                 Maximum<br/>menu                Menu</td></tr><tr><td>Secure Mode</td><td>Displays the states of the host watchdog function and function that suppresses break signal reception (Break-signal). One of the following is displayed:<br/><br/>on                   Enabled<br/><br/>off                  Disabled</td></tr><tr><td>Autoboot</td><td>Displays the state of the auto boot function used at domain startup. One of the following is displayed:<br/><br/>on                   Enabled<br/><br/>off                  Disabled</td></tr></table> |  | HOST-ID             | Host ID                                                                                                                    | Diagnostic Level | Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br>none               None<br>min                 Standard<br>max                 Maximum<br>menu                Menu | Secure Mode | Displays the states of the host watchdog function and function that suppresses break signal reception (Break-signal). One of the following is displayed:<br><br>on                   Enabled<br><br>off                  Disabled | Autoboot | Displays the state of the auto boot function used at domain startup. One of the following is displayed:<br><br>on                   Enabled<br><br>off                  Disabled |
| HOST-ID             | Host ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| Diagnostic Level    | Displays the OpenBoot PROM diagnostic level. One of the following is displayed:<br>none               None<br>min                 Standard<br>max                 Maximum<br>menu                Menu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| Secure Mode         | Displays the states of the host watchdog function and function that suppresses break signal reception (Break-signal). One of the following is displayed:<br><br>on                   Enabled<br><br>off                  Disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| Autoboot            | Displays the state of the auto boot function used at domain startup. One of the following is displayed:<br><br>on                   Enabled<br><br>off                  Disabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| Privileges          | <p>You must have one of the following privileges to run this command:</p> <table><tr><td>platadm, fieldeng</td><td>Can run this command for all domains.</td></tr><tr><td>domainadm</td><td>Can run this command only for your managed domains.</td></tr></table> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  | platadm, fieldeng   | Can run this command for all domains.                                                                                      | domainadm        | Can run this command only for your managed domains.                                                                                                                                                   |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| platadm, fieldeng   | Can run this command for all domains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| domainadm           | Can run this command only for your managed domains.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| OPTIONS             | <p>The following operands are supported:</p> <table><tr><td>-d <i>domain_id</i></td><td>Specifies the domain ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | -d <i>domain_id</i> | Specifies the domain ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration. | -h               | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                  |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| -d <i>domain_id</i> | Specifies the domain ID of the domain to be displayed. <i>domain_id</i> can be 0–23 depending on the system configuration.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |
| -h                  | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                     |                                                                                                                            |                  |                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                   |          |                                                                                                                                                                                  |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |   |                        |    |                    |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------------------------|----|--------------------|
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"><li>■ If the Mode switch on the operator panel is set to "Service", the settings have the following values regardless of the domain mode displayed by the showdomainmode(8) command:<ul style="list-style-type: none"><li>■ Diagnostics Level: operates as the showdomainmode(8) command display</li><li>■ Secure Mode: off</li><li>■ Autoboot: off</li></ul></li><li>■ The setdomainmode(8) command sets a domain mode.</li></ul> |   |                        |    |                    |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the current state of the operation mode for domain ID 0.</p> <pre>XSCF&gt; <b>showdomainmode -d 0</b> Host-ID :0f010f10 Diagnostic Level :min Secure Mode      :on Autoboot         :on</pre>                                                                                                                                                                                                                                           |   |                        |    |                    |
| EXIT STATUS          | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                                                                                   | 0 | Successful completion. | >0 | An error occurred. |
| 0                    | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |                        |    |                    |
| >0                   | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |   |                        |    |                    |
| SEE ALSO             | <p><b>setdomainmode(8)</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |                        |    |                    |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showdomainstatus - display the current domain component list (DCL)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>SYNOPSIS</b>    | <p><b>showdomainstatus</b> -d <i>domain_id</i></p> <p><b>showdomainstatus</b> -a</p> <p><b>showdomainstatus</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>DESCRIPTION</b> | <p>The showdomainstatus(8) command displays the current status of the specified domain.</p> <p>One of the following states is displayed for each domain:</p> <p>Powered Off</p> <p>Power is off.</p> <p>Panic State</p> <p>A panic occurred, and the domain is in the reset state.</p> <p>Shutdown Started</p> <p>The power-off process is starting.</p> <p>Initialization Phase</p> <p>OpenBoot PROM initialization is in progress.</p> <p>OpenBoot Execution Completed</p> <p>The system is in the OpenBoot PROM (ok prompt) state.</p> <p>Booting/OpenBoot PROM prompt</p> <p>The operating system is booting. Or due to the domain shutdown or reset, the system is in the OpenBoot PROM running state or is suspended in the OpenBoot PROM (ok prompt) state.</p> <p>Running</p> <p>Operating system is running.</p> <p>-</p> <p>Domain is not defined.</p> |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

Refer to `setprivileges(8)` for more information.

## OPTIONS

The following options are supported.

- a Displays status information on all domains that can be accessed.
- d *domain\_id* Specifies only one ID of the domain to be powered on. *domain\_id* can be 0–23 depending on the system configuration.
- h Displays usage statement. When used with other options or operands, an error occurs.

## EXAMPLES

**EXAMPLE 1** Displays status information on all domains.

```
XSCF> showdomainstatus -a
DID Domain Status
00 Running
01 -
02 Powered Off
03 Panic State
04 Shutdown Started
05 Booting/OpenBoot PROM prompt
06 Initialization Phase
07 OpenBoot Execution Completed
```

## EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

## SEE ALSO

`poweroff(8)`, `poweron(8)`, `reset(8)`, `showdcl(8)`



|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showdscp - display the IP addresses assigned to the Domain to Service Processor Communications Protocol (DSCP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SYNOPSIS</b>    | <p><b>showdscp</b></p> <p><b>showdscp</b> [-v] [-p]</p> <p><b>showdscp</b> [-v] [-p] -d <i>domain_id</i></p> <p><b>showdscp</b> [-v] [-p] -s</p> <p><b>showdscp</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>DESCRIPTION</b> | <p>showdscp(8) displays the IP addresses assigned for DSCP usage, the IP addresses for an individual domain, the Service Processor, or for the entire system. When used without options, it displays current IP data.</p> <p>When displaying IP addresses for all DSCP links in the system, the output is a table. The table is sorted by numerical domain IDs.</p> <p>When displaying IP addresses for a particular domain or just the Service Processor, then the output is not a table but simply the IP address of the specified domain or Service Processor.</p> <p>The -p option can be used to generate parsable output that would then be suitable for use in a script. Parsable displays of individual IP addresses exclude any additional labels, and only an IPv4 address in dotted-decimal form is output. The parsable version of tabular output includes only the values (no table headings are included), and each column is separated by a single tab character.</p> |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>fieldeng, platadm, platop:</p> <p>Can display any DSCP IP information.</p> <p>domainadm, domainmgr, domainop:</p> <p>Can display individual IP addresses for domains for which you have privileges only.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

OPTIONS

The following options are supported:

- d *domain\_id*     Displays an individual domain's IP address.
- h                   Displays usage statement.  
                      When used with other options or operands, an error occurs.
- p                   Generates parsable output.
- s                   Displays the Service Processor's IP address.
- v                   Specifies verbose output. Prints additional information about internal progress of the program's operations to the screen.

EXAMPLES

**Caution –** The IP addresses shown in the following examples are examples only. Refer to the site planning guide for your server for more information about valid IP addresses for your network. Using invalid network IP addresses could, under certain circumstances, make your system unbootable!

**EXAMPLE 1** Displaying a Table of All DSCP IP Addresses

```
XSCF> showdscp

DSCP Configuration

Network: 10.1.1.0
Netmask: 255.255.255.0
```

| Location   | Address   |
|------------|-----------|
| -----      | -----     |
| XSCF       | 10.1.1.1  |
| Domain #00 | 10.1.1.2  |
| Domain #01 | 10.1.1.3  |
| Domain #02 | 10.1.1.4  |
| Domain #03 | 10.1.1.5  |
| Domain #04 | 10.1.1.6  |
| Domain #05 | 10.1.1.7  |
| Domain #06 | 10.1.1.8  |
| Domain #07 | 10.1.1.9  |
| Domain #08 | 10.1.1.10 |
| Domain #09 | 10.1.1.11 |
| Domain #10 | 10.1.1.12 |
| Domain #11 | 10.1.1.13 |
| Domain #12 | 10.1.1.14 |
| Domain #13 | 10.1.1.15 |
| Domain #14 | 10.1.1.16 |
| Domain #15 | 10.1.1.17 |
| Domain #16 | 10.1.1.18 |
| Domain #17 | 10.1.1.19 |
| Domain #18 | 10.1.1.20 |
| Domain #19 | 10.1.1.21 |
| Domain #20 | 10.1.1.22 |
| Domain #21 | 10.1.1.23 |
| Domain #22 | 10.1.1.24 |
| Domain #23 | 10.1.1.25 |

**EXAMPLE 2** Displaying a Specific Domain's IP Address

```
XSCF> showdscp -d 1
Domain #01 Address: 10.1.1.3
```

**EXAMPLE 3** Displaying a Specific Domain's IP Address in a Parsable Form

```
XSCF> showdscp -p -d 1
Domain[1] 10.1.1.3
```

**EXAMPLE 4**    Displaying All DSCP Address Information In a Parsable Form

```
XSCF> showdscp -p
Network 10.1.1.0
Netmask 255.255.255.0
XSCF 10.1.1.1
Domain[0] 10.1.1.2
Domain[1] 10.1.1.3
Domain[2] 10.1.1.4
Domain[3] 10.1.1.5
Domain[4] 10.1.1.6
Domain[5] 10.1.1.7
Domain[6] 10.1.1.8
Domain[7] 10.1.1.9
Domain[8] 10.1.1.10
Domain[9] 10.1.1.11
...
```

**EXIT STATUS**    The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**        **setdscp**(8)

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showdualpowerfeed - display the current setting of dual power feed mode                                                                                                                                                                                                                                                                                                                                                                                                          |
| SYNOPSIS    | <b>showdualpowerfeed</b><br><b>showdualpowerfeed -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                          |
| DESCRIPTION | <p>The showdualpowerfeed(8) command displays the current setting of dual power feed mode in the system.</p> <p>The showdualpowerfeed(8) command is valid in a midrange server only.</p> <p>The dual power feed mode can be set by the setdualpowerfeed(8) command. Also, before the dual power feed mode is changed by the setdualpowerfeed(8) command, the values of changed settings are displayed.</p>                                                                        |
| Privileges  | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                  |
| OPTIONS     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                                                                                                             |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displays the current setting of dual power feed mode in the system.</p> <pre>XSCF&gt; <b>showdualpowerfeed</b><br/>Dual power feed is enabled.</pre> <p><b>EXAMPLE 2</b>    Changes the dual power feed mode with the setdualpowerfeed(8) command and then displays the current state.</p> <pre>XSCF&gt; <b>showdualpowerfeed</b><br/>enable -&gt; disable<br/>NOTE: Dual power feed will be disabled the next time the platform is<br/>powered on.</pre> |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                                                                                                                                                                                                                           |
| SEE ALSO    | <b>setdualpowerfeed (8)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

showdualpowerfeed(8)



|                      |                                                                                                                                                                                                  |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | showemailreport - display the email report configuration data                                                                                                                                    |
| SYNOPSIS             | <b>showemailreport</b> [-v ]<br><b>showemailreport</b> -h                                                                                                                                        |
| DESCRIPTION          | showemailreport(8) displays the email reporting configuration data. When used without options, it displays current email report configuration data.                                              |
| Privileges           | You must have platadm or platop privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                                               |
| OPTIONS              | The following options are supported:<br><br>-h            Displays usage statement.<br>When used with other options or operands, an error occurs.<br><br>-v            Specifies verbose output. |
| EXTENDED DESCRIPTION | Emailreport information includes whether Emailreporting is enabled. If enabled, it also includes the list of addresses.                                                                          |
| EXAMPLES             | <b>EXAMPLE 1</b> Displaying Emailreport configuration<br><br>XSCF> <b>showemailreport</b><br>EMail Reporting: enabled<br>Email Recipient Address: admin@company.com, adm2@company.com            |
| EXIT STATUS          | The following exit values are returned:<br><br>0            Successful completion.<br>>0          An error occurred.                                                                             |
| SEE ALSO             | <b>setemailreport</b> (8)                                                                                                                                                                        |

showemailreport(8)





|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|------------------------------------------------------------------------------------------------------|--|---------------------|-------------------------------|--|--------------------------|-------------------------------------------------------|--|
| NAME                     | showenvironment - display the intake air temperature and humidity, temperature sensor information, voltage sensor information, and fan rotation information about the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| SYNOPSIS                 | <b>showenvironment</b> [-M] [ <i>type</i> ]<br><b>showenvironment</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| DESCRIPTION              | <p>showenvironment(8) command displays the information listed below.</p> <p>The following types of the information are displayed:</p> <table><tr><td>Environment information</td><td colspan="2">Intake temperature and humidity of the system (humidity only for high-end server)</td></tr><tr><td>Temperature information</td><td colspan="2">Intake temperature of the system and exhaust temperature of each component</td></tr><tr><td>Voltage information</td><td colspan="2">Voltage sensor value</td></tr><tr><td>Fan rotation information</td><td colspan="2">Fan rotational state and revolutions per unit of time</td></tr></table> |  |  | Environment information | Intake temperature and humidity of the system (humidity only for high-end server)                                                                                                                               |  | Temperature information | Intake temperature of the system and exhaust temperature of each component                           |  | Voltage information | Voltage sensor value          |  | Fan rotation information | Fan rotational state and revolutions per unit of time |  |
| Environment information  | Intake temperature and humidity of the system (humidity only for high-end server)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| Temperature information  | Intake temperature of the system and exhaust temperature of each component                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| Voltage information      | Voltage sensor value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| Fan rotation information | Fan rotational state and revolutions per unit of time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| Privileges               | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| OPTIONS                  | <p>The following options are supported:</p> <table><tr><td>-h</td><td colspan="2">Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td colspan="2">Displays text by page. This option provides a function that is the same as that of the more command.</td></tr></table>                                                                                                                                                                                                                                                                                                          |  |  | -h                      | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                            |  | -M                      | Displays text by page. This option provides a function that is the same as that of the more command. |  |                     |                               |  |                          |                                                       |  |
| -h                       | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| -M                       | Displays text by page. This option provides a function that is the same as that of the more command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| OPERANDS                 | <p>The following operand is supported:</p> <table><tr><td><i>type</i></td><td colspan="2">Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed:</td></tr><tr><td>temp</td><td colspan="2">Displays temperature information.</td></tr><tr><td>volt</td><td colspan="2">Displays voltage information.</td></tr><tr><td>Fan</td><td colspan="2">Displays fan rotation information.</td></tr></table>                                                                                    |  |  | <i>type</i>             | Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed: |  | temp                    | Displays temperature information.                                                                    |  | volt                | Displays voltage information. |  | Fan                      | Displays fan rotation information.                    |  |
| <i>type</i>              | Specifies the one of the type of information to be displayed. The following types can be specified. If this type setting is omitted, intake temperature and humidity information about the system is displayed:                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| temp                     | Displays temperature information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| volt                     | Displays voltage information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |
| Fan                      | Displays fan rotation information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |                         |                                                                                                                                                                                                                 |  |                         |                                                                                                      |  |                     |                               |  |                          |                                                       |  |

**EXTENDED  
DESCRIPTION**

For some systems, voltage margin is set for each entire system. In such a case, the voltage margin is displayed along with the value of the voltage sensor.

**EXAMPLES**

**EXAMPLE 1** Displays the intake temperature and humidity of the system.

```
XSCF> showenvironment
Temperature:30.71C
Humidity:90.05%
```

**EXAMPLE 2** Displays temperature information about the system and each component.

```
XSCF> showenvironment temp
Temperature:30.71C
CMU#0:30.71C
 CPUM#0-CHIP#0:30.71C
 CPUM#1-CHIP#0:30.71C
 CPUM#2-CHIP#0:30.71C
 CPUM#3-CHIP#0:30.71C
CMU#1:30.71C
 CPUM#0-CHIP#0:30.71C
 CPUM#1-CHIP#0:30.71C
 CPUM#2-CHIP#0:30.71C
 CPUM#3-CHIP#0:30.71C
CMU#2:30.71C
 CPUM#0-CHIP#0:30.71C
 CPUM#1-CHIP#0:30.71C
 CPUM#2-CHIP#0:30.71C
 CPUM#3-CHIP#0:30.71C
CMU#3:30.71C
 CPUM#0-CHIP#0:30.71C
 CPUM#1-CHIP#0:30.71C
 CPUM#2-CHIP#0:30.71C
 CPUM#3-CHIP#0:30.71C
```

**EXAMPLE 3** Displays voltage information about each component.

```
XSCF> showenvironment volt
MBU_A
 1.0V Power Supply Group:1.010V
 1.8V Power Supply Group:1.700V
CPUM#0-CHIP#0
 1.0V Power Supply Group:1.000V
CPUM#1-CHIP#0
 1.0V Power Supply Group:1.000V
MEMB#0
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#1
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#2
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
MEMB#3
 1.2V Power Supply Group:1.200V
 1.8V Power Supply Group:1.700V
 2.5V Power Supply Group:2.500V
IOU#0
 1.0V Power Supply Group:1.020V
 1.2V Power Supply Group:1.180V
 1.5V Power Supply Group:1.500V
 1.8V Power Supply Group:1.850V
 2.5V Power Supply Group:2.510V
 3.3V Power Supply Group:3.300V
 5.0V Power Supply Group:5.000V
 12V Power Supply Group:12.000V
 -12V Power Supply Group:-12.000V
FANBP
 3.3V Power Supply Group:3.300V
 5.0V Power Supply Group:5.010V
 12V Power Supply Group:12.020V
 -12V Power Supply Group:-12.030V
```

**EXAMPLE 4** Displays voltage information about each component when specified voltage-margin.

```
XSCF> showenvironment volt
margin:+10%
MBU_A
 1.0V Power Supply Group:1.010V
 1.8V Power Supply Group:1.700V
 :
 :
```

**EXAMPLE 5** Displays fan rotation information.

```
XSCF> showenvironment Fan
FAN_A#0:Low speed
#0 1234rpm
FAN_A#1:Low speed
#0 1234rpm
FAN_B#0:High speed
#0 5678rpm
FAN_B#1:High speed
#0 5678rpm
PSU#0
fan:High speed
#0 1234rpm
#1 1234rpm
PSU#1
fan:High speed
#0 1234rpm
#1 1234rpm
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

|             |                                                                                                                                                    |                                                                                                            |                        |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------|
| NAME        | showfru - display the hardware settings of specified device                                                                                        |                                                                                                            |                        |
| SYNOPSIS    | <b>showfru</b> <i>device location</i>                                                                                                              |                                                                                                            |                        |
|             | <b>showfru</b> -a <i>device</i>                                                                                                                    |                                                                                                            |                        |
|             | <b>showfru</b> -h                                                                                                                                  |                                                                                                            |                        |
| DESCRIPTION | The showfru(8) command displays the hardware settings of specified device by the setupfru(8) command.                                              |                                                                                                            |                        |
|             | The command can display the settings of the specified device or of all devices. Only the physical system board (PSB) can be specified as a device. |                                                                                                            |                        |
|             | The following settings are displayed:                                                                                                              |                                                                                                            |                        |
|             | Device                                                                                                                                             | Specified device name. Only sb is displayed.                                                               |                        |
|             | Location                                                                                                                                           | Device location. If the <i>device</i> is 'sb', the indicated location is an integer ranging from 00 to 15. |                        |
|             | XSB Mode                                                                                                                                           | XSB mode set for the PSB. One of the following values is displayed:                                        |                        |
|             |                                                                                                                                                    | Uni                                                                                                        | Uni-XSB                |
|             |                                                                                                                                                    | Quad                                                                                                       | Quad-XSB               |
|             | Memory Mirror Mode                                                                                                                                 | Memory mirror mode set for the PSB. One of the following values is displayed:                              |                        |
|             |                                                                                                                                                    | yes                                                                                                        | Memory mirror mode     |
| Privileges  |                                                                                                                                                    | no                                                                                                         | Memory no-mirror modeB |
|             | You must have platadm or fieldeng privileges to run this command. Refer to setprivileges(8) for more information.                                  |                                                                                                            |                        |
| OPTIONS     | The following options are supported.                                                                                                               |                                                                                                            |                        |
|             | -a                                                                                                                                                 | Displays the settings of all devices.                                                                      |                        |
|             | -h                                                                                                                                                 | Displays usage statement. When used with other options or operands, an error occurs.                       |                        |

|          |                                       |                                                                                                                            |                             |
|----------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| OPERANDS | The following operands are supported: |                                                                                                                            |                             |
|          | <i>device</i>                         | Specifies the device to display. Currently, only the following device can be specified:                                    |                             |
|          |                                       | sb                                                                                                                         | Physical system board (PSB) |
|          | <i>location</i>                       | Specifies the location of <i>device</i> . If the <i>device</i> is 'sb', an integer ranging from 00 to 15 can be specified. |                             |

**EXTENDED DESCRIPTION** The setupfru(8) command makes hardware settings for a device.

**EXAMPLES** **EXAMPLE 1** Displays the settings of all PSBs.

```
XSCF> showfru -a sb
Device Location XSB Mode Memory Mirror Mode
sb 00 Quad no
sb 01 Uni yes
sb 02 Quad no
sb 03 Uni no
```

|             |                                         |                        |
|-------------|-----------------------------------------|------------------------|
| EXIT STATUS | The following exit values are returned: |                        |
|             | 0                                       | Successful completion. |
|             | >0                                      | An error occurred.     |

**SEE ALSO** **addboard** (8), **deleteboard** (8), **moveboard** (8), **setdcl** (8), **setupfru** (8), **showboards** (8), **showdcl** (8), **showdevices** (8)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showhardconf - display information about field replaceable unit (FRU) installed in the system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>SYNOPSIS</b>    | <p><b>showhardconf</b> [-u] [-M]</p> <p><b>showhardconf</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>DESCRIPTION</b> | <p>showhardconf(8) command displays information about each FRU.</p> <p>The following information is displayed:</p> <ul style="list-style-type: none"> <li>■ Current configuration and status</li> <li>■ Number of installed FRUs</li> <li>■ Domain information</li> <li>■ External I/O Expansion Unit information</li> <li>■ Name properties of PCI cards</li> </ul>                                                                                                                                                                                                                                                                      |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Can run this command for all domains.</p> <p>domainadm, domainmgr, domainop</p> <p>Can run this command only for your accessible domains.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                               |
| <b>OPTIONS</b>     | <p>The following options are supported:.</p> <p>-h                    Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-M                    Displays text by page. This option provides a function that is the same as that of the more command.</p> <p>-u                    Displays the number of FRUs installed in each unit. For CPU modules, operating frequencies are displayed. For memory units, the capacity of each memory unit is displayed. If this option is omitted, the current configuration and status information regarding FRUs and domain information are displayed.</p> |

## EXTENDED DESCRIPTION

When the configuration and status information regarding FRUs and domain information are displayed, for any failed or degraded unit, an asterisk (\*) indicating an abnormal unit is displayed along with any of the following states:

| Status       | Description                                                                                                                                                                                 |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Faulted      | The component is faulty and is not operating                                                                                                                                                |
| Degraded     | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance. |
| Deconfigured | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)                                           |
| Maintenance  | The component is under maintenance. A <code>deletefru(8)</code> , <code>replacefru(8)</code> , or <code>addfru(8)</code> operation is currently underway                                    |
| Normal       | It is operating normally.                                                                                                                                                                   |

## EXAMPLES

**EXAMPLE 1** Displays the information of the FRUs in SPARC Enterprise M5000.

```
XSCF> showhardconf
SPARC Enterprise M5000;
+ Serial:BE80601021; Operator_Panel_Switch:Service;
+ Power_Supply_System:Single; SCF-ID:XSCF#0;
+ System_Power:On;
Domain#0 Domain_Status:Powered Off;

MBU_B Status:Normal; Ver:0101h; Serial:7867000297 ;
+ FRU-Part-Number:CF00541-0478 01 /541-0478-01 ;
+ Memory_Size:64 GB;
CPUM#0-CHIP#0 Status:Normal; Ver:0201h; Serial:PP0629L068 ;
+ FRU-Part-Number:CF00375-3477 50 /375-3477-50 ;
+ Freq:2.150 GHz; Type:16;
+ Core:2; Strand:2;
CPUM#0-CHIP#1 Status:Normal; Ver:0201h; Serial:PP0629L068 ;
+ FRU-Part-Number:CF00375-3477 50 /375-3477-50 ;
+ Freq:2.150 GHz; Type:16;
+ Core:2; Strand:2;
:
CPUM#3-CHIP#0 Status:Normal; Ver:0201h; Serial:PP0629L066 ;
+ FRU-Part-Number:CF00375-3477 50 /375-3477-50 ;
+ Freq:2.150 GHz; Type:16;
+ Core:2; Strand:2;
CPUM#3-CHIP#1 Status:Normal; Ver:0201h; Serial:PP0629L066 ;
+ FRU-Part-Number:CF00375-3477 50 /375-3477-50 ;
+ Freq:2.150 GHz; Type:16;
+ Core:2; Strand:2;
MEMB#0 Status:Normal; Ver:0101h; Serial:01068 ;
+ FRU-Part-Number:CF00541-0545 01 /541-0545-01 ;
MEM#0A Status:Normal;
+ Code:c100000000000000004572T128000HR3.7A 252b-04123520;
+ Type:1B; Size:1 GB;
MEM#0B Status:Normal;
+ Code:c10000000000000000004572T128000HR3.7A 252b-04123e25;
+ Type:1B; Size:1 GB;
MEM#1A Status:Normal;
+ Code:c10000000000000000004572T128000HR3.7A 252b-04123722;
```



```

+ Type:1B; Size:1 GB;
MEM#1B Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123b25;
+ Type:1B; Size:1 GB;
MEM#2A Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123e20;
+ Type:1B; Size:1 GB;
MEM#2B Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123822;
+ Type:1B; Size:1 GB;
MEM#3A Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123724;
+ Type:1B; Size:1 GB;
MEM#3B Status:Normal;
+ Code:c1000000000000004572T128000HR3.7A 252b-04123b20;
+ Type:1B; Size:1 GB;
:
MEMB#7 Status:Normal; Ver:0101h; Serial:01100 ;
+ FRU-Part-Number:CF00541-0545 01 /541-0545-01 ;
MEM#0A Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016910;
+ Type:1B; Size:1 GB;
MEM#0B Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016911;
+ Type:1B; Size:1 GB;
MEM#1A Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016a14;
+ Type:1B; Size:1 GB;
MEM#1B Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d017e22;
+ Type:1B; Size:1 GB;
MEM#2A Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016a13;
+ Type:1B; Size:1 GB;
MEM#2B Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016417;
+ Type:1B; Size:1 GB;
MEM#3A Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d017617;
+ Type:1B; Size:1 GB;
MEM#3B Status:Normal;
+ Code:c10000000000000005372T128000HR3.7A 356d-0d016b12;
+ Type:1B; Size:1 GB;
DDC_A#0 Status:Normal;
DDC_A#1 Status:Normal;
DDC_A#2 Status:Normal;
DDC_A#3 Status:Normal;
DDC_B#0 Status:Normal;
DDC_B#1 Status:Normal;
IOU#0 Status:Normal; Ver:0101h; Serial:7867000395 ;
+ FRU-Part-Number:CF00541-0493 01 /541-0493-01 ;
DDC_A#0 Status:Normal;
DDCR Status:Normal;
DDC_B#0 Status:Normal;
PCI#2 Name_Property;;
+ Ver:16h; Serial:XF01CF; Type:Optic;
+ Connection:IOX@X06M/IOB1;
+ FRU-Part-Number:CF00501-7040 03 /501-7040-03 ;
IOX@X06M Serial:XCX06M;
IOB1 Serial:XE0097; Type:PCI-Express;
+ FRU-Part-Number:CF00501-6938 04 /501-6938-04 ;
LINK Ver:16h; Serial:XF01A2; Type:Optic;
+ FRU-Part-Number:CF00501-7040 03 /501-7040-03 ;
SLOT6 Name_Property:lpfc;
PS0 Serial:DD0250;
+ FRU-Part-Number:CF00300-1701 04 /300-1701-04 ;
PS1 Serial:DD0166;

```

```

+ FRU-Part-Number:CF00300-1701 04 /300-1701-04 ;
PCI#4 Name_Property;;
+ Ver:16h; Serial:XF019N; Type:Optic;
+ Connection:IOX@X06M/IOB0;
+ FRU-Part-Number:CF00501-7040 03 /501-7040-03 ;
IOX@X06M Serial:XCX06M;
IOB0 Serial:XX00CP; Type:PCI-X;
+ FRU-Part-Number:CF00501-6938 04 /501-6938-04 ;
LINK Ver:16h; Serial:XF0191; Type:Optic;
+ FRU-Part-Number:CF00501-7040 03 /501-7040-03 ;
PS0 Serial:DD0250;
+ FRU-Part-Number:CF00300-1701 04 /300-1701-04 ;
PS1 Serial:DD0166;
+ FRU-Part-Number:CF00300-1701 04 /300-1701-04 ;
XSCFU Status:Normal,Active; Ver:0101h; Serial:7867000262 ;
+ FRU-Part-Number:CF00541-0481 01 /541-0481-01 ;
OPNL Status:Normal; Ver:0101h; Serial:7867000087 ;
+ FRU-Part-Number:CF00541-0850 01 /541-0850-01 ;
*PSU#0 Status:Faulted; Serial:XF0345;
+ FRU-Part-Number:CF00300-1898 50 /300-1898-50 ;
+ Power_Status:Off; AC:200 V;
PSU#1 Status:Faulted; Serial:XF0346;
+ FRU-Part-Number:CF00300-1898 50 /300-1898-50 ;
+ Power_Status:Off; AC:200 V;
PSU#2 Status:Faulted; Serial:XF0347;
+ FRU-Part-Number:CF00300-1898 50 /300-1898-50 ;
+ Power_Status:Off; AC:200 V;
PSU#3 Status:Faulted; Serial:XF0348;
+ FRU-Part-Number:CF00300-1898 50 /300-1898-50 ;
+ Power_Status:Off; AC:200 V;
FANBP_C Status:Normal; Ver:0101h; Serial:7867000053 ;
+ FRU-Part-Number:CF00541-0848 01 /541-0848-01 ;
FAN_A#0 Status:Normal;
FAN_A#1 Status:Normal;
FAN_A#2 Status:Normal;
FAN_A#3 Status:Normal;
```

**EXAMPLE 2** Displays the number of installed FRUs in SPARC Enterprise M9000.

```
XSCF> showhardconf -u
SPARC Enterprise M9000; Memory_Size:432 GB;
```

| FRU                 | Quantity |
|---------------------|----------|
| CMU                 | 9        |
| CPUM                | 36       |
| Freq:2.277 GHz;     | ( 30)    |
| Freq:2.376 GHz;     | ( 6)     |
| MEM                 | 224      |
| Type:1B; Size:1 GB; | ( 16)    |
| Type:2B; Size:2 GB; | ( 208)   |
| IOU                 | 9        |
| IOBOX               | 1        |
| IOB                 | 2        |
| PSU                 | 2        |
| XSCFU_B             | 2        |
| XSCFU_C             | 2        |
| XBU_B               | 16       |
| CLKU_B              | 4        |
| OPNL                | 1        |
| PSU                 | 30       |
| FANBP_A             | 2        |
| FANBP_B             | 2        |
| FAN_A               | 32       |

|       |   |
|-------|---|
| SWBP  | 2 |
| MEDBP | 2 |

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

showhardconf(8)



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                  |        |             |        |                                                       |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|--------|-------------------------------------------------------|
| NAME                 | showhostname - display the current host name for the XSCF unit                                                                                                                                                                                                                                                                                                                                                   |        |             |        |                                                       |
| SYNOPSIS             | <b>showhostname</b> {-a   <i>xscfu</i> }<br><b>showhostname</b> -h                                                                                                                                                                                                                                                                                                                                               |        |             |        |                                                       |
| DESCRIPTION          | <p>showhostname(8) command displays the current host name for the XSCF unit.</p> <p>The host name is displayed in Fully Qualified Domain Name (FQDN) format.</p>                                                                                                                                                                                                                                                 |        |             |        |                                                       |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                    |        |             |        |                                                       |
| OPTIONS              | <p>The following options are supported:</p> <p>-a                      Displays the current host names for all XSCF units. If an XSCF unit name is specified with the -a option, the XSCF unit name is ignored.</p> <p>-h                      Displays usage statement. When used with other options or operands, an error occurs.</p>                                                                          |        |             |        |                                                       |
| OPERANDS             | <p>The following operand is supported:</p> <p><i>xscfu</i>                      Specifies the XSCF unit name to be displayed. One of the following values can be specified. If <i>xscfu</i> is specified with the -a option, <i>xscfu</i> is ignored.</p> <table> <tr> <td>xscf#0</td><td>XSCF unit 0</td></tr> <tr> <td>xscf#1</td><td>XSCF unit 1 (when a duplicated configuration is used)</td></tr> </table> | xscf#0 | XSCF unit 0 | xscf#1 | XSCF unit 1 (when a duplicated configuration is used) |
| xscf#0               | XSCF unit 0                                                                                                                                                                                                                                                                                                                                                                                                      |        |             |        |                                                       |
| xscf#1               | XSCF unit 1 (when a duplicated configuration is used)                                                                                                                                                                                                                                                                                                                                                            |        |             |        |                                                       |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"> <li>■ In case the XSCF unit is duplicated configuration, a defect occurred on standby XSCF unit shows a message.</li> <li>■ The sethostname(8) command sets a host name for an XSCF unit.</li> </ul>                                                                                                                                                                          |        |             |        |                                                       |
| EXAMPLES             | <p><b>EXAMPLE 1</b>    Displays the current host names for all XSCF units.</p> <pre>XSCF&gt; <b>showhostname -a</b> xscf#0: scf0_hostname.example.com xscf#1: scf1_hostname.example.com</pre>                                                                                                                                                                                                                    |        |             |        |                                                       |

showhostname(8)

**EXAMPLE 2** Displays the host name for XSCF unit 0.

```
XSCF> showhostname xscf#0
xscf#0: scf0_hostname.example.com
```

**EXIT STATUS** The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO** **sethostname** (8)

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------|------------|------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------|-----|-----------------------------------|
| <b>NAME</b>                 | showhttps - display the status of the HTTPS service set for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| <b>SYNOPSIS</b>             | <b>showhttps</b><br><b>showhttps -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| <b>DESCRIPTION</b>          | <p>The showhttps(8) command displays the status of the HTTPS service currently set for the XSCF network.</p> <p>With this command, whether the HTTPS service is operating and the installation status of the information that is necessary for authentication can be checked. If it is installed, the installation date is also displayed.</p> <p>The following states are displayed:</p> <table> <tr> <td>HTTPS Status</td><td>Indicates whether the HTTPS service is operating</td></tr> <tr> <td>Server key</td><td>Indicates whether the private key of the web server has been installed</td></tr> <tr> <td>CA key</td><td>Indicates whether the private key of the certification authority has been installed</td></tr> <tr> <td>CA cert</td><td>Indicates whether the certificate of the certification authority has been installed</td></tr> <tr> <td>CSR</td><td>The certificate of the web server</td></tr> </table> | HTTPS Status | Indicates whether the HTTPS service is operating | Server key | Indicates whether the private key of the web server has been installed | CA key | Indicates whether the private key of the certification authority has been installed | CA cert | Indicates whether the certificate of the certification authority has been installed | CSR | The certificate of the web server |
| HTTPS Status                | Indicates whether the HTTPS service is operating                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| Server key                  | Indicates whether the private key of the web server has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| CA key                      | Indicates whether the private key of the certification authority has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| CA cert                     | Indicates whether the certificate of the certification authority has been installed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| CSR                         | The certificate of the web server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -h           | Displays usage statement.                        |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| -h                          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |
| <b>EXTENDED DESCRIPTION</b> | The sethttps(8) command make settings for the HTTPS service in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                                                  |            |                                                                        |        |                                                                                     |         |                                                                                     |     |                                   |

EXAMPLES

**EXAMPLE 1** Displays the status of the HTTPS service.

```
XSCF> showhttps
HTTPS status: enabled
Server key: installed in Apr 24 12:34:56 JST 2006
CA key: installed in Apr 24 12:00:34 JST 200
CA cert: installed in Apr 24 12:00:34 JST 200
CSR:
-----BEGIN CERTIFICATE REQUEST-----
MIIBWjCCASSCAQAwgYEXCzAJBgNVBAYTAmpqMQ4wDAYDVQQIEwVzdGF0ZTERMA8G
A1UEBxMIbG9jYWxpZHkxFTATBgNVBAoTDG9yZ2FuaXphdGlvbWJEPMA0GA1UECxMG
b3JnYW5pMQ8wDQYDVQQDEWZjb21tb24xFTJAUUBGkqhkiG9w0BCQEWB2V1Lm1haWww
gZ8wDQYJKoZIhvcNAQEBBQADgY0AMIGJAoGBAJ5D57X/k42LcipTWBWzv2GrxaVM
5GEyx3bdBW8/7WZhnd3uiZ9+ANlvRAuw/YYy7I/pAD+NQJesBcBjuyj9x+IiJl9F
MrI5fR8pOIywVOdbMPCar09rrU45bVeZhTyi+uQOdWLoX/Dhq0fm2BpYuh9WukT5
pTEg+2dABg8UdHmNagMBAAGgADANBgkqhkiG9w0BAQQFAAOBgQAux1jH3dyB6Xho
PgBuVIakDzIKEPipK9qQfC57YI43uRBGRubu0AHEcLVue5yTu6G5SxHTCq07tV5g
38UHSg5Kqy9QuWHWMri/hxm0kQ4gBpApjNb6F/B+ngBE3j/thGbEuvJb+0wbycvu
5jrhB/ZV9k8X/MbDOxSx/U5nF+Zuyw==
-----END CERTIFICATE REQUEST-----
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

**sethttps** (8)



|                    |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showldap - display the Lightweight Directory Access Protocol (LDAP) configuration for the Service Processor                                                                                                                                                                                                                                                                                                                |
| <b>SYNOPSIS</b>    | <p><b>showldap</b></p> <p><b>showldap</b> [-c ]</p> <p><b>showldap</b> -h</p>                                                                                                                                                                                                                                                                                                                                              |
| <b>DESCRIPTION</b> | showldap(8) displays the Service Processor LDAP configuration. When invoked without options, showldap displays all LDAP configuration except for the certificate chain and the password used when binding to the LDAP server.                                                                                                                                                                                              |
| <b>Privileges</b>  | <p>You must have useradm privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                        |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <p>-c                Displays the LDAP server certification chain.</p> <p>-h                Displays usage statement.</p> <p>                  When used with other options or operands, an error occurs.</p>                                                                                                                                                                  |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b>    Displaying All LDAP Configuration Data</p> <pre> XSCF&gt; <b>showldap</b> Bind Name: user Base Distinguishing Name: ou=people,dc=company,dc=com LDAP Search Timeout: 60 Bind password: Set LDAP Servers: ldap://company.com:389 CERTS: None </pre> <p><b>EXAMPLE 2</b>    Displaying All LDAP Configuration Data</p> <pre> XSCF&gt; <b>showldap -c</b> There are no certificates configured. </pre> |
| <b>EXIT STATUS</b> | <p>The following exit values are returned:</p> <p>0                Successful completion.</p> <p>&gt;0              An error occurred.</p>                                                                                                                                                                                                                                                                                 |
| <b>SEE ALSO</b>    | <b>setldap</b> (8)                                                                                                                                                                                                                                                                                                                                                                                                         |

showldap(8)



|                             |                                                                                                                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>                 | showlocale - display the current setting for the XSCF locale                                                                                                                                                                                                                              |
| <b>SYNOPSIS</b>             | <b>showlocale</b><br><b>showlocale -h</b>                                                                                                                                                                                                                                                 |
| <b>DESCRIPTION</b>          | <p>The showlocale(8) command displays the current setting for the XSCF locale.</p> <p>Either of the following is displayed:</p> <pre>C                English ja_JP.UTF-8      Japanese</pre>                                                                                             |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <pre>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop</pre> <p>Refer to setprivileges(8) for more information.</p>                                                                   |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <pre>-h                Displays usage statement.</pre>                                                                                                                                                                                          |
| <b>EXTENDED DESCRIPTION</b> | The setlocale(8) command sets a locale for the XSCF.                                                                                                                                                                                                                                      |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the current setting for the XSCF locale (when English is set).</p> <pre>XSCF&gt; <b>showlocale</b> C</pre> <p><b>EXAMPLE 2</b> Displays the current setting for the XSCF locale (when Japanese is set).</p> <pre>XSCF&gt; <b>showocale</b> ja_JP.UTF-8</pre> |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <pre>0                Successful completion. &gt;0              An error occurred.</pre>                                                                                                                                                   |
| <b>SEE ALSO</b>             | <b>setlocale (8)</b>                                                                                                                                                                                                                                                                      |

showlocale(8)



|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                                                                                                           |          |                                                  |    |                                                        |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------------------------------|----------|--------------------------------------------------|----|--------------------------------------------------------|
| <b>NAME</b>                 | showlocator - display the state of the CHECK LED on the operator panel                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>SYNOPSIS</b>             | <b>showlocator</b><br><b>showlocator -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>DESCRIPTION</b>          | <p>showlocator(8) command displays the blink state of the CHECK LED on the operator panel.</p> <p>The one of the following state is displayed:</p> <table> <tr> <td>Off</td><td>Indicates normal operation, which means either the circuit breaker is off or power is not being supplied.</td></tr> <tr> <td>Blinking</td><td>Indicates that the unit is a maintenance target.</td></tr> <tr> <td>On</td><td>Indicates that an error was detected in the main unit.</td></tr> </table> | Off | Indicates normal operation, which means either the circuit breaker is off or power is not being supplied. | Blinking | Indicates that the unit is a maintenance target. | On | Indicates that an error was detected in the main unit. |
| Off                         | Indicates normal operation, which means either the circuit breaker is off or power is not being supplied.                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                                                           |          |                                                  |    |                                                        |
| Blinking                    | Indicates that the unit is a maintenance target.                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                                                                                                           |          |                                                  |    |                                                        |
| On                          | Indicates that an error was detected in the main unit.                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                             |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                     | -h  | Displays usage statement.                                                                                 |          |                                                  |    |                                                        |
| -h                          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXTENDED DESCRIPTION</b> | The setlocator(8) command can be used to specify the blink state of the CHECK LED.                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the CHECK LED state.</p> <pre>XSCF&gt; showlocator Locator LED status:Blinking</pre>                                                                                                                                                                                                                                                                                                                                                                      |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>&gt;0</td><td>An error occurred.</td></tr> </table>                                                                                                                                                                                                                                                                                                                | 0   | Successful completion.                                                                                    | >0       | An error occurred.                               |    |                                                        |
| 0                           | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                                                                                                           |          |                                                  |    |                                                        |
| >0                          | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |     |                                                                                                           |          |                                                  |    |                                                        |
| <b>SEE ALSO</b>             | <b>setlocator (8)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |     |                                                                                                           |          |                                                  |    |                                                        |

showlocator(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showlogs - display the specified log                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| SYNOPSIS    | <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]   -p <i>timestamp</i>] [-v   -V   -S] [-r] [-M] error</p> <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]   -p <i>timestamp</i>] [-v] [-r] [-M] event</p> <p><b>showlogs</b> [-t <i>time</i> [-T <i>time</i>]] [-r] [-M] {power   env}</p> <p><b>showlogs</b> [-r] [-M] monitor</p> <p><b>showlogs</b> -d <i>domain_id</i> [-t <i>time</i> [-T <i>time</i>]] [-r] [-M] {console   ipl   panic}</p> <p><b>showlogs</b> -h</p>                                                                                                                                                                  |
| DESCRIPTION | <p>The showlogs(8) command displays the specified log.</p> <p>Log data is displayed in the order of timestamps, starting from the oldest data by default. Depending on the target for the log collection, the following logs can be specified:</p> <p>For Field Replaceable Unit (FRU)</p> <ul style="list-style-type: none"><li>■ Error log (sometimes includes scan log)</li><li>■ Power log</li><li>■ Event log</li><li>■ Temperature and humidity record</li><li>■ Monitoring message log</li></ul> <p>For domain</p> <ul style="list-style-type: none"><li>■ Console message log</li><li>■ Panic message log</li><li>■ IPL message log</li></ul> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"><li>■ Error log, Event log, Temperature and humidity record, and Monitor message log:<br/>platadm, platop, fieldeng</li><li>■ Power log:<br/>platadm, platop, domainadm, domainmgr, fieldeng</li><li>■ Scan log:<br/>fieldeng</li><li>■ Console message log, Panic message log, and IPL message log:<br/>platadm, platop, domainadm, domainmgr, domainop, fieldeng</li></ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                       |

**OPTIONS**

The following options are supported:

- d *domain\_id*      Specifies the number of a domain to be displayed. This option can be specified for domain specific log. *domain\_id* can be 0–23 depending on the system configuration.
- h                    Displays usage statement. When used with other options or operands, an error occurs.
- M                    Displays text by page. This option provides a function that is the same as that of the `more` command.
- p *timestamp*      Specifies a *timestamp* in a log when one log is to be displayed. This option can be specified for an error log or event log.  
  
*timestamp* is specified in one of the following formats:  
  
*yyyy-mm-dd,hh:mm:ss*  
                     The *timestamp* is specified in the 'year-month-day, hour:minute:second' format.  
  
*mm/dd/yy,hh:mm:ss*  
                     The *timestamp* is specified in the 'month/day/year, hour:minute:second' format.  
  
*Monddhh:mm:ssyyyy*  
                     The *timestamp* is specified in the 'month-name, day, hour:minute:second, year' format.
- r                    Displays a log in the order of timestamps, starting from the latest timestamp. By default, the display of log data in the order of timestamps starts from the oldest data.
- S                    Displays a scan log attached to an error log. Only a user having the `fieldeng` privilege can specify this operand. This cannot be specified together with the `-v` option or `-V` option.



`-t time`

Specifies the start date and time of the display range for log data. It is specified in one of the following formats:

*yyyy-mm-dd,hh:mm*

The *timestamp* is specified in the '*year-month-day, hour:minute*' format.

*mm/dd/yy,hh:mm*

The *timestamp* is specified in the '*month/day/year, hour:minute*' format.

*Monddhh:mmyyyy*

The *timestamp* is specified in the '*month-name, day, hour:minute, year*' format.

*yyyy-mm-dd,hh:mm:ss*

The *timestamp* is specified in the '*year-month-day, hour:minute:second*' format.

*mm/dd/yy,hh:mm:ss*

The *timestamp* is specified in the '*month/day/year, hour:minute:second*' format.

*Monddhh:mm:ssyyyy*

The *timestamp* is specified in the '*month-name, day, hour:minute:second, year*' format.

Even if the `-r` option is specified together with this option, the specified `-t` and `-T` options are not reversed.

- T *time*** Specifies the end date and time of the display range for log data. It is specified in one of the following formats:
- yyyy-mm-dd,hh:mm*
- The *timestamp* is specified in the '*year-month-day, hour:minute*' format.
- mm/dd/yy,hh:mm*
- The *timestamp* is specified in the '*month/day/year, hour:minute*' format.
- Monddhh:mmyyyy*
- The *timestamp* is specified in the '*month-name, day, hour:minute, year*' format.
- yyyy-mm-dd,hh:mm:ss*
- The *timestamp* is specified in the '*year-month-day, hour:minute:second*' format.
- mm/dd/yy,hh:mm:ss*
- The *timestamp* is specified in the '*month/day/year, hour:minute:second*' format.
- Monddhh:mm:ssyyyy*
- The *timestamp* is specified in the '*month-name, day, hour:minute:second, year*' format.
- Even if the **-r** option is specified together with this option, the specified **-t** and **-T** options are not reversed. The **-T** option cannot be used for the monitoring message log.
- v** Displays a log in detail. Details of Diagnostic Codes UUID and MSG-ID, which are used by the `fmadm(8)` and `fmdump(8)` commands, are also displayed in addition to the items normally displayed. This option cannot be specified together with the **-S** or **-V** option. This option can be specified for an error log or event log.
- V** Displays a log in greater detail. If detailed log information on machine administration and OBP console log information have already been collected, they are also displayed in addition to the information displayed by the **-v** option. This option cannot be specified together with the **-S** or the **-v** option. This option can be specified for an error log.

OPERANDS      The following operands are supported:

|         |                                                       |
|---------|-------------------------------------------------------|
| error   | Displays the error log. (sometimes includes scan log) |
| power   | Displays the power log.                               |
| event   | Displays the event log.                               |
| env     | Displays the temperature and humidity record.         |
| monitor | Displays the monitoring message log.                  |
| console | Displays the console message log.                     |
| panic   | Displays the panic message log.                       |
| ipl     | Displays the IPL message log.                         |

EXTENDED  
DESCRIPTION

Logs are displayed in the following formats:

■ Error log  
Default

```
Date: Mar 30 17:45:31 JST 2005 Code: xxxxxxxx-xxxxxxx-
xxxxxxxxxxxxxxxxxxxx
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)
```

Case where the -v option is specified

```
Date: Mar 30 17:45:31 JST 2005 Code: xxxxxxxx-xxxxxxx-
xxxxxxxxxxxxxxxxxxxx
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)
Diagnostic Code:
xxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
xxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11
```

Case where the -V option is specified

```
Date: Mar 30 17:45:31 JST 2005 Code: xxxxxxxx-xxxxxxx-
xxxxxxxxxxxxxxxxxxxx
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)
Diagnostic Code:
 xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11
Diagnostic Messages:
 :
 :
```

Case where the -S option is specified

```
Date: Mar 30 17:45:31 JST 2005 Code: xxxxxxxx-xxxxxxx-
xxxxxxxxxxxxxxxxxxxx
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3) (FEP type = A1)
Diagnostic Code:
 xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID:FMD-8000-11
Detail log: SCAN MINOR RC 2K
 0000: xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 0010: xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx
 :
 :
```

- Date:Log collection date and time (month day hour:minute:second time-zone year)  
The displayed time is the local time.
- Code:Error code  
Data is displayed in 16-byte format.
- Occurred:Date (Month Day Hour: Minute: Second TimeZone Year) when an error occurred.  
This date is displayed as the local time.

|                      |                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Status:              | Error status                                                                                                                                                                                                                                                                                                                                                                              |
|                      | Either of the following is displayed:                                                                                                                                                                                                                                                                                                                                                     |
|                      | Warning                      Partial degradation of the unit or warning about the FRU                                                                                                                                                                                                                                                                                                     |
|                      | Alarm                        FRU failure or error                                                                                                                                                                                                                                                                                                                                         |
| FRU:                 | Suspected faulty unit                                                                                                                                                                                                                                                                                                                                                                     |
|                      | The suspected faulty units that are displayed and delimited by a comma ( , ) are the units most likely and second most likely to be faulty. If there are three suspected faulty units, asterisk ( * ) is displayed next to the unit third most likely to be faulty. Display of more than two suspected faulty units depends on whether more than two suspected faulty units are detected. |
| Msg:                 | Error description                                                                                                                                                                                                                                                                                                                                                                         |
| Diagnostic Code:     | Detailed error code                                                                                                                                                                                                                                                                                                                                                                       |
|                      | The displayed code is a hexadecimal number.                                                                                                                                                                                                                                                                                                                                               |
| UUID:                | Abbreviation for Universal Unique Identifier                                                                                                                                                                                                                                                                                                                                              |
|                      | This is a globally unique ID that is a 32-digit hexadecimal number.                                                                                                                                                                                                                                                                                                                       |
| MSG-ID:              | Unique message ID                                                                                                                                                                                                                                                                                                                                                                         |
| Diagnostic Messages: | Detailed message                                                                                                                                                                                                                                                                                                                                                                          |
|                      | If the log has a detailed message, it is displayed.                                                                                                                                                                                                                                                                                                                                       |
| Detail log:          | Scan log code                                                                                                                                                                                                                                                                                                                                                                             |
|                      | This code is displayed when the log includes a scan log.                                                                                                                                                                                                                                                                                                                                  |
|                      | Address: Displayed in hexadecimal notation.                                                                                                                                                                                                                                                                                                                                               |

■ Power log

| Date                     | Event            | Cause         | DID | Switch  |
|--------------------------|------------------|---------------|-----|---------|
| Mar 30 17:25:31 JST 2005 | System Power Off | Power Failure | --  | Service |
| Mar 30 17:35:31 JST 2005 | System Power On  | AC Restored   | --  | Locked  |
| Mar 30 17:45:31 JST 2005 | Domain Power On  | Panel         | 00  | Locked  |
| Mar 30 17:50:31 JST 2005 | Domain Power Off | Operator      | 10  | Service |
| :                        |                  |               |     |         |
| :                        |                  |               |     |         |

Date: Log collection date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

Event: Power status

One of the following states is displayed:

|                  |                             |
|------------------|-----------------------------|
| Domain Power On  | The domain power is on.     |
| Domain Power Off | The domain power is off.    |
| System Power On  | The main unit power is on.  |
| System Power Off | The main unit power is off. |
| SCF Reset        | XSCF is in the reset state. |
| Domain Reset     | XSCF is in the reset state. |
| XIR              | XSCF is in the reset state. |

Cause: Factor that caused this Status

One of the following factors is displayed:

Self Reset, Power On, System Reset, Panel, Scheduled, RCI, AC Restored, Operator, Poweron Restart, Power Failure, SW Request, Alarm, Fatal, Panic

DID: Domain ID

*domain\_id* can be 0-23 depending on the system configuration.

Switch: Status of the mode switch of the operator panel

One of the following states are displayed:

|         |                       |
|---------|-----------------------|
| Locked  | Normal operation mode |
| Service | Service mode          |

■ Event log

Default

| Date                     | Message          |
|--------------------------|------------------|
| Mar 30 17:45:31 JST 2005 | System power on  |
| Mar 30 17:55:31 JST 2005 | System power off |
| :                        |                  |
| :                        |                  |

Case where the -v option is specified

```
Date Message
Mar 30 17:45:31 JST 2005 System power on
Switch= Service RCIaddr=000105ff
Code=xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx
 xxxx xxxx xxxx xxxx xxxx xxxx xxxx xxxx
```

- Date: Log collection date and time (month day hour:minute:second time-zone year)
- The displayed time is the local time.
- Message: Event message
- Switch: Status of the mode switch of the operator panel
- One of the following states are displayed:
- |         |                       |
|---------|-----------------------|
| Locked  | Normal operation mode |
| Service | Service mode          |
- RCIaddr: Remote Cabinet Interface (RCI) address
- If RCI is supported, the RCI address is displayed as an eight-digit hexadecimal number.
- Code: Detailed event information
- The displayed information is in hexadecimal format

■ Temperature and humidity record

| Date                     | Temperature | Humidity | Power                |
|--------------------------|-------------|----------|----------------------|
| Mar 30 17:45:31 JST 2005 | 32.56(C)    | 60.20%   | Main Line Switch OFF |
| Mar 30 17:55:31 JST 2005 | 32.56(C)    | 60.25%   | Main Line Switch ON  |
| :                        |             |          |                      |
| :                        |             |          |                      |

Date: Log collection date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

Temperature: Intake air temperature

Decimal numbers are displayed to two decimal places. The unit is degree Celsius ( C).

Humidity: Humidity

The displayed numbers are percentages (%). However, nothing is displayed for the midrange server.

Power: Power state of the main unit

Either of the following states is displayed:

|                      |                             |
|----------------------|-----------------------------|
| Main Line Switch ON  | The main unit power is on.  |
| Main Line Switch OFF | The main unit power is off. |

#### ■ Monitoring message log

```
Mar 30 17:45:31 JST 2005 monitor message
Mar 30 17:55:31 JST 2005 monitor message
:
```

Each line of display has a date and time paired with a monitoring message. The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

#### ■ Console message log

```
DomainID: 00
Mar 30 17:45:31 JST 2005 console message
Mar 30 17:55:31 JST 2005 console message
:
```

[First line]

DomainID: Domain ID

*domain\_id* can be 0–23 depending on the system configuration.

[Second and subsequent lines]

Each line of display has a date and time paired with a console message.



The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

#### ■ Panic message log

```
<<panic>>
Date: Mar 30 18:45:31 JST 2005 DomainID: 00
Mar 30 17:45:31 JST 2005 panic message
Mar 30 17:55:31 JST 2005 panic message
:
```

[Second line]

Date:           Panic occurrence date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

DomainID:       Domain ID

*domain\_id* can be 0–23 depending on the system configuration.

[Third and subsequent lines]

Each line of display has a date and time paired with a panic message.

The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

#### ■ IPL message log

```
<<ipl>>
Date: Mar 30 18:45:31 JST 2005 DomainID: 00
Mar 30 17:45:31 JST 2005 ipl message
Mar 30 17:55:31 JST 2005 ipl message
:
```

[Second line]

Date:           IPL date and time (month day hour:minute:second time-zone year)

The displayed time is the local time.

DomainID:       Domain ID

*domain\_id* can be 0–23 depending on the system configuration.

[Third and subsequent lines]

Each line of display has a date and time paired with an IPL message.

The time in the displayed log collection date and time (month day hour:minute:second time-zone year) is the local time.

## EXAMPLES

### EXAMPLE 1 Displays an error log.

```
XSCF> showlogs error
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Date: Mar 30 15:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Warning Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2
Msg: ACFAIL occurred (ACS=3)(FEP type = A1)
Date: Mar 30 17:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: PSU#1,PSU#2,*
Msg: ACFAIL occurred (ACS=3)(FEP type = A1)
```

### EXAMPLE 2 Displays an error log in detail for the times of the specified timestamp (-v).

```
XSCF> showlogs error -p Mar3012:45:312005 -v
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm
Component: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Diagnostic Code:
00112233 44556677 8899aabb
00112233 44556677 8899aabb ccddeeff
00112233 44556677 8899aabb ccddeeff
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID: FMD-8000-11
```

### EXAMPLE 3 Displays an error log in greater detail for the times of the specified timestamp (-v).

```
XSCF> showlogs error -p Mar3012:45:312005 -v
Date: Mar 30 12:45:31 JST 2005 Code: 00112233-44556677-8899aabbccceeff0
Status: Alarm Occurred: Mar 30 17:45:31.000 JST 2005
FRU: IOU#0/PCI#3
Msg: offline(vendor=FUJITSU, product=MAJ3182MC)
Diagnostic Code:
00112233 44556677 8899aabb
00112233 44556677 8899aabb ccddeeff
00112233 44556677 8899aabb ccddeeff
UUID: bf36f0ea-9e47-42b5-fc6f-c0d979c4c8f4 MSG-ID: FMD-8000-11
Diagnostic Messages
Jul 11 16:17:42 plato10 root: [ID 702911 user.error] WARNING: /
pci@83,4000/scsi@2/sd@0,0 (sd47):
Jul 11 16:17:42 plato10 root: [ID 702911 user.error] incomplete write-
giving up
```

**EXAMPLE 4** Displays a power log.

```
XSCF> showlogs power
Date Event Cause DID Switch
Mar 30 17:25:31 JST 2005 System Power Off Power Failure -- Service
Mar 30 17:35:31 JST 2005 System Power On AC Restored -- Locked
Mar 30 17:45:31 JST 2005 Domain Power Off Operator 00 Locked
Mar 30 17:50:31 JST 2005 Domain Power On Operator 00 Service
```

**EXAMPLE 5** Displays a power log in the order of timestamps, starting from the latest timestamp.

```
XSCF> showlogs power
Date Event Cause DID Switch
Mar 30 17:50:31 JST 2005 Domain Power On Operator 00 Service
Mar 30 17:45:31 JST 2005 Domain Power Off Operator 00 Locked
Mar 30 17:35:31 JST 2005 System Power On AC Restored -- Locked
Mar 30 17:25:31 JST 2005 System Power Off Power Failure -- Service
```

**EXAMPLE 6** Displays the specified range of a power log.

```
XSCF> showlogs power -t Mar3017:302005 -T Mar3017:492005
Date Event Cause DID Switch
Mar 30 17:35:31 JST 2005 System Power On AC Restored -- Locked
Mar 30 17:45:31 JST 2005 Domain Power Off Operator 00 Locked
```

**EXAMPLE 7** Displays the specified range of a power log. The log is displayed in the order of timestamps, starting from the latest timestamp.

```
XSCF> showlogs power -t Mar3017:302005 -T Mar3017:492005 -r
Date Event Cause DID Switch
Mar 30 17:45:31 JST 2005 Domain Power Off Operator 00 Locked
Mar 30 17:35:31 JST 2005 System Power On AC Restored -- Locked
```

**EXAMPLE 8** Displays the specified date of a power log. Data with this date or later in the log is displayed.

```
XSCF> showlogs power -t Mar3017:302005
Date Event Cause DID Switch
Mar 30 17:35:31 JST 2005 System Power On AC Restored -- Locked
Mar 30 17:45:31 JST 2005 Domain Power Off Panel 00 Locked
Mar 30 17:50:31 JST 2005 Domain Power On Operator 00 Service
```

**EXAMPLE 9** Displays a console message log of the domain ID 0.

```
XSCF> showlogs console -d 00
DomainID:00
Mar 30 17:45:31 JST 2005 Executing last command: boot
Mar 30 17:55:31 JST 2005 Boot device: /pci@83,4000/FJSV,ulsa@2,1/
disk@0,0:a File and args:
Mar 30 17:55:32 JST 2005 SunOS Release 5.10 Version Generic 64-bit
```

showlogs(8)

## EXIT STATUS

Note: The codes or messages shown here may differ from those actually displayed.

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

|             |                                                                                                                                                                                 |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showlookup - display the configuration for authentication and privileges lookup                                                                                                 |
| SYNOPSIS    | <b>showlookup</b><br><b>showlookup -h</b>                                                                                                                                       |
| DESCRIPTION | showlookup(8) displays configuration settings for authentication and privileges.                                                                                                |
| Privileges  | You must have useradm privileges to run this command.<br>Refer to setprivileges(8) for more information.                                                                        |
| OPTIONS     | The following option is supported:<br><br>-h                      Displays usage statement.                                                                                     |
| EXAMPLES    | <b>EXAMPLE 1</b> Displaying Settings for Authentication and Privileges<br><br>XSCF> <b>showlookup</b><br>Privileges lookup: Local only<br>Authentication lookup: Local and LDAP |
| EXIT STATUS | The following exit values are returned:<br><br>0                      Successful completion.<br>>0                     An error occurred.                                       |
| SEE ALSO    | <b>setlookup (8)</b>                                                                                                                                                            |

showlookup(8)

|                    |                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showmonitorlog - display the contents of monitoring messages in real time                                                                                                                                                                                                                                                                                                               |
| <b>SYNOPSIS</b>    | <b>showmonitorlog</b><br><b>showmonitorlog -h</b>                                                                                                                                                                                                                                                                                                                                       |
| <b>DESCRIPTION</b> | <p>The showmonitorlog(8) command displays the contents of monitoring messages in real time.</p> <p>When the showmonitorlog(8) command is executed, the XSCF shell is occupied for the display of monitoring messages. When a monitoring message is registered, the contents of the message are displayed.</p> <p>To stop the real-time display, press the Ctrl + C key combination.</p> |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                       |
| <b>OPTIONS</b>     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                                                                      |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b>    Displays the contents of a monitoring message in real time.</p> <pre> XSCF&gt; <b>showmonitorlog</b> Apr 13 12:32:16 XXXXX Alarm: /CMU#1,/CMU#0/DDC#0:ANALYZE:SC-IOU I/F fatal error 0x00000000; : : </pre>                                                                                                                                                      |
| <b>EXIT STATUS</b> | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                                                                                                                                                                                 |

showmonitorlog(8)





|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME                 | shownameserver - display the registered domain name system (DNS) servers specified on the XSCF network                                                                                                                                                                                                                                                                                                                                                |
| SYNOPSIS             | <b>shownameserver</b><br><b>shownameserver -h</b>                                                                                                                                                                                                                                                                                                                                                                                                     |
| DESCRIPTION          | shownameserver(8) command displays the registered DNS servers in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                    |
| Privileges           | You must have one of the following privileges to run this command:<br><br>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                |
| OPTIONS              | The following option is supported:<br><br>-h                      Displays usage statement.                                                                                                                                                                                                                                                                                                                                                           |
| EXTENDED DESCRIPTION | The setnameserver(8) command sets the DNS servers used in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                           |
| EXAMPLES             | <b>EXAMPLE 1</b> Displays the DNS servers currently set for the XSCF network. The following example shows that three DNS servers have been set:<br><br>XSCF> <b>shownameserver</b><br>nameserver 192.168.1.2<br>nameserver 10.18.108.10<br>nameserver 10.24.1.2<br><br><b>EXAMPLE 2</b> Displays the DNS servers currently set for the XSCF network. The following example shows that no DNS server is set:<br><br>XSCF> <b>shownameserver</b><br>--- |
| EXIT STATUS          | The following exit values are returned:<br><br>0                      Successful completion.<br><br>>0                    An error occurred.                                                                                                                                                                                                                                                                                                          |
| SEE ALSO             | setnameserver (8)                                                                                                                                                                                                                                                                                                                                                                                                                                     |

shownameserver(8)



|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------|--------|--------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------|-------|-----------|------|----------|---------|------------------------------------------|
| <b>NAME</b>        | shownetwork - display information of network interfaces for XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| <b>SYNOPSIS</b>    | <b>shownetwork</b> [-M] {-a   -i   <i>interface</i> }<br><b>shownetwork</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| <b>DESCRIPTION</b> | <p>shownetwork(8) command displays current information of network interfaces for XSCF.</p> <p>Information on the specified network interface or all the network interfaces can be displayed. The following information is displayed:</p> <table> <tr> <td>xscf#x-y</td><td>XSCF network interface name</td></tr> <tr> <td>HWaddr</td><td>MAC address (hexadecimal notation)</td></tr> <tr> <td>inet addr</td><td>IP address</td></tr> <tr> <td>Bcast</td><td>Broadcast</td></tr> <tr> <td>Mask</td><td>Net mask</td></tr> <tr> <td>UP/DOWN</td><td>Whether the network interface is enabled</td></tr> </table> | xscf#x-y | XSCF network interface name                           | HWaddr | MAC address (hexadecimal notation)                                                   | inet addr | IP address                                                                                           | Bcast | Broadcast | Mask | Net mask | UP/DOWN | Whether the network interface is enabled |
| xscf#x-y           | XSCF network interface name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| HWaddr             | MAC address (hexadecimal notation)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| inet addr          | IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| Bcast              | Broadcast                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| Mask               | Net mask                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| UP/DOWN            | Whether the network interface is enabled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| <b>Privileges</b>  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Displays information for all XSCF network interfaces.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the more command.</td></tr> </table>                                                                                                                                                                                                         | -a       | Displays information for all XSCF network interfaces. | -h     | Displays usage statement. When used with other options or operands, an error occurs. | -M        | Displays text by page. This option provides a function that is the same as that of the more command. |       |           |      |          |         |                                          |
| -a                 | Displays information for all XSCF network interfaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| -h                 | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |
| -M                 | Displays text by page. This option provides a function that is the same as that of the more command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                       |        |                                                                                      |           |                                                                                                      |       |           |      |          |         |                                          |

OPERANDS

The following operand is supported:

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>interface</i> | Specifies the network interface whose information is to be displayed. One of the following values can be specified, depending on the system configuration. If this operand is specified with the -a option, the operand is ignored.<br><br>For XSCF unit 0:<br><br>xscf#0-lan#0      XSCF-LAN#0<br>xscf#0-lan#1      XSCF-LAN#1<br><br>xscf#0-if          Interface between XSCF units (Inter SCF Network; ISN)<br><br>For XSCF unit 1 (when a duplicated configuration is used):<br><br>xscf#1-lan#0      XSCF-LAN#0<br>xscf#1-lan#1      XSCF-LAN#1<br>xscf#1-if          ISN<br><br>For takeover IP address:<br><br>lan#0              takeover IP address for XSCF-LAN#0<br>lan#1              takeover IP address for XSCF-LAN#1 |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

EXTENDED DESCRIPTION

- In a duplicate configuration, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as lan#0 and lan#1, they can be accessed with the names lan#0 and lan#1. As default values, lan#0 is set to xscf#0-lan#0 and lan#1 is set to xscf#0-lan#1.
- Because the XSCF unit is not duplicate configuration in a midrange server, lan#0 is fixed to xscf#0-lan#0 and lan#1 to xscf#0-lan#1.
- The setnetwork(8) command configures a network interface used by the XSCF.

EXAMPLES

**EXAMPLE 1** Displays the information for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> shownetwork xscf#0-lan#1
xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000
```

**EXAMPLE 2** Displays the information for XSCF-LAN#1 on XSCF unit 0 in the midrange server.

```
XSCF> shownetwork lan#1
xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000
```

**EXAMPLE 3** Displays the information for ISN on the XSCF unit 0.

```
XSCF> shownetwork xscf#0-if
xscf#0-if
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.10.128 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:(0.0 B) TX bytes:17010 (16.6 KiB)
Base address:0x1000
```

**EXAMPLE 4** Displays the information for XSCF-LAN#0 on XSCF Unit 0.

```
XSCF> shownetwork xscf#0-lan#0
xscf#0-lan#0
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.11.10 Bcast:192.168.11.255 Mask 255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:14541827 (13.8 MiB) TX bytes:1459769 (1.3 MiB)
Base address:0x1000
```

**EXAMPLE 5** Displays the information for the takeover IP address for XSCF-LAN#0.

```
XSCF> shownetwork lan#0
lan#0
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr:192.168.11.10 Bcast:192.168.11.255 Mask 255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:14541827 (13.8 MiB) TX bytes:1459769 (1.3 MiB)
Base address:0x1000
```

**EXAMPLE 6** Displays the current settings of XSCF network.

```
XSCF> shownetwork -i
Active Internet connections (without servers)
Proto Recv-Q Send-Q Local Address Foreign Address State
tcp 0 0 xx.xx.xx.xx:telnet xxxx:1617 ESTABLISHED
```

**EXAMPLE 7** Displays the information for XSCF unit 0 and XSCF unit 1 in the high-end server.

```
XSCF> shownetwork -a
xscf#0-lan#0
Link encap:Ethernet HWaddr 00:00:00:12:34:56
inet addr: 192.168.11.10 Bcast: 192.168.11.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:12241827 (11.3 MiB) TX bytes:1189769 (0.9 MiB)
Base address:0x1000

xscf#0-lan#1
Link encap:Ethernet HWaddr 00:00:00:12:34:57
inet addr:192.168.10.11 Bcast: 192.168.10.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:20241827 (19.3 MiB) TX bytes:2089769 (1.9 MiB)
Base address:0x1000

xscf#0-if Link encap:Ethernet HWaddr 00:00:00:00:00:00
inet addr:192.168.10.128 Bcast:192.168.10.255 Mask: 255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
RX packets:54424 errors:0 dropped:0 overruns:0 frame:0
TX packets:14369 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:0 (0.0 B) TX bytes:17010 (16.6 KiB)
Base address:0x1000

xscf#1-lan#0
HWaddr 00:00:00:12:34:59
inet addr:192.168.10.12 Mask:255:255:255:0

xscf#1-lan#1
HWaddr 00:00:00:12:34:60

xscf#1-if
HWaddr 00:00:00:12:34:61
XSCF>
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**   `applynetwork(8)`, `setnetwork(8)`

shownetwork(8)





|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | shownotice - display copyright and license information for the eXtended System Control Facility (XSCF) Control Package (XCP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>SYNOPSIS</b>    | <p><b>shownotice</b> [-c {copyright license}]</p> <p><b>shownotice</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>DESCRIPTION</b> | The shownotice(8) command displays by page the copyright and, if available, license files for the XCP. When used without an option, shownotice displays copyright information and any available license information. You can display only the copyright or the license file by specifying the -c option.                                                                                                                                                                                                                                                                                              |
| <b>Privileges</b>  | <p>No privileges are required to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>OPTIONS</b>     | <p>The following options are supported:</p> <p>-c {copyright license}</p> <p>Specifies for display by page either the copyright file or the license file for the XCP.</p> <p>copyright</p> <p>Specifies for display only the copyright file.</p> <p>license</p> <p>Specifies for display only the license file, if a license file is available for your platform. If the license file for your platform is not available for the shownotice command, the license argument is not supported.</p> <p>-h</p> <p>Displays usage statement. When used with other options or operands, an error occurs.</p> |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b> Display Only Copyright Information</p> <pre>XSCF&gt; <b>shownotice -c copyright</b> [Copyright text displays.]</pre> <p><b>EXAMPLE 2</b> Display Copyright and License Information</p> <pre>XSCF&gt; <b>shownotice</b> [Copyright text displays.] [License text displays (if available).]</pre>                                                                                                                                                                                                                                                                                   |

shownotice(8)



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------|
| NAME                 | showntp - display the NTP servers currently set for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| SYNOPSIS             | <b>showntp</b> {-l   -a   <i>address</i> }<br><b>showntp</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| DESCRIPTION          | <p>The showntp(8) command displays the NTP servers currently set for the XSCF network.</p> <p>Besides being capable of displaying the NTP servers that are set, the command can be used to confirm the following information:</p> <ul style="list-style-type: none"> <li>■ Whether synchronization with an NTP server is being maintained</li> <li>■ Whether the NTP service has been started</li> </ul>                                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| Privileges           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                      |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| OPTIONS              | <p>The following options are supported:</p> <table> <tr> <td>-a</td><td>Displays all the NTP servers currently set for the XSCF network.</td></tr> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-l</td><td>Displays whether synchronization with an NTP server is being maintained.</td></tr> </table>                                                                                                                                              | -a             | Displays all the NTP servers currently set for the XSCF network.                                                                                                                                                                                                                                                                                                                                                           | -h | Displays usage statement. When used with other options or operands, an error occurs. | -l | Displays whether synchronization with an NTP server is being maintained. |
| -a                   | Displays all the NTP servers currently set for the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| -l                   | Displays whether synchronization with an NTP server is being maintained.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| OPERANDS             | <p>The following operand is supported:</p> <table> <tr> <td><i>address</i></td><td> <p>Specifies the IP address of an NTP server to be displayed. A specified IP address is a set of four integer values delimited by the period (.). If the -a option is specified, the operand is ignored. The following <i>address</i> form is accepted:</p> <p><i>xxx.xxx.xxx.xxx</i></p> <p>where:</p> <p><i>xxx</i>                      An integer from 0–255. Zero suppression can be used to specify the integer.</p> </td></tr> </table> | <i>address</i> | <p>Specifies the IP address of an NTP server to be displayed. A specified IP address is a set of four integer values delimited by the period (.). If the -a option is specified, the operand is ignored. The following <i>address</i> form is accepted:</p> <p><i>xxx.xxx.xxx.xxx</i></p> <p>where:</p> <p><i>xxx</i>                      An integer from 0–255. Zero suppression can be used to specify the integer.</p> |    |                                                                                      |    |                                                                          |
| <i>address</i>       | <p>Specifies the IP address of an NTP server to be displayed. A specified IP address is a set of four integer values delimited by the period (.). If the -a option is specified, the operand is ignored. The following <i>address</i> form is accepted:</p> <p><i>xxx.xxx.xxx.xxx</i></p> <p>where:</p> <p><i>xxx</i>                      An integer from 0–255. Zero suppression can be used to specify the integer.</p>                                                                                                         |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |
| EXTENDED DESCRIPTION | The setntp(8) command sets the NTP servers used in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                      |    |                                                                          |

EXAMPLES

**EXAMPLE 1** Displays all NTP servers being currently set.

```
XSCF> showntp -a
server ntp1.example.com prefer # [1] ntp server name
server ntp2.example.com # [2] ntp server name
```

**EXAMPLE 2** Confirms synchronization with an NTP server and displays the results.

```
XSCF> showntp -l
remote refid st t when poll reach delay offset jitter
=====
*192.168.0.27 192.168.1.56 2 u 27 64 377 12.929 -2.756 1.993
+192.168.0.57 192.168.1.86 2 u 32 64 377 13.030 2.184 94.421
127.127.1.0 LOCAL(0) 5 l 44 64 377 0.000 0.000 0.008
```

EXIT STATUS

The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

SEE ALSO

**setntp(8)**

|                    |                                                                                                                                                                                                                                                                       |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showpasswordpolicy - display the current password settings                                                                                                                                                                                                            |
| <b>SYNOPSIS</b>    | <b>showpasswordpolicy</b><br><b>showpasswordpolicy -h</b>                                                                                                                                                                                                             |
| <b>DESCRIPTION</b> | showpasswordpolicy(8) displays the password policy settings. These include default password expiration settings for new accounts, pam_cracklib parameters, and the number of passwords to keep in password history for each user.                                     |
| <b>Privileges</b>  | You must have useradm privileges to run this command.<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                          |
| <b>OPTIONS</b>     | The following option is supported:<br><br>-h                      Displays usage statement.                                                                                                                                                                           |
| <b>EXAMPLES</b>    | <b>EXAMPLE 1</b> Displaying Password Policy Settings<br><br><pre> XSCF&gt; showpasswordpolicy Mindays:  0 Maxdays: 99999 Warn:     7 Inactive: -1 Expiry:   0 Retry:    3 Difok:    10 Minlen:   9 Dcredit:  1 Ucredit:  1 Lcredit:  1 Ocredit:  1 Remember: 3 </pre> |
| <b>EXIT STATUS</b> | The following exit values are returned:<br><br>0                      Successful completion.<br><br>>0                    An error occurred.                                                                                                                          |
| <b>SEE ALSO</b>    | <b>setpasswordpolicy</b> (8)                                                                                                                                                                                                                                          |

showpasswordpolicy(8)



|                             |                                                                                                                                                                                                                                                                                 |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>                 | showpowerupdelay - display the current settings for the warm-up time of the system and wait time before system startup                                                                                                                                                          |
| <b>SYNOPSIS</b>             | <b>showpowerupdelay</b><br><b>showpowerupdelay -h</b>                                                                                                                                                                                                                           |
| <b>DESCRIPTION</b>          | <p>The showpowerupdelay(8) command displays the current settings for the warm-up time of the system and wait time before system startup.</p> <p>The following settings are displayed:</p> <pre>warmup time    Warm-up time wait time      Wait time before system startup</pre> |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                               |
| <b>OPTIONS</b>              | <p>The following option is supported:</p> <pre>-h           Displays usage statement.</pre>                                                                                                                                                                                     |
| <b>EXTENDED DESCRIPTION</b> | The setpowerupdelay(8) command sets the warm-up time of the system and a wait time before system startup.                                                                                                                                                                       |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displays the warm-up time of the system and wait time before system startup.</p> <pre>XSCF&gt; showpowerupdelay warmup time : 10 minute(s) wait time   : 20 minute(s)</pre>                                                                                 |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <pre>0           Successful completion. &gt;0          An error occurred.</pre>                                                                                                                                                  |
| <b>SEE ALSO</b>             | <b>setpowerupdelay (8)</b>                                                                                                                                                                                                                                                      |

showpowerupdelay(8)





|             |                                                                                                                                                                                                                                       |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showresult - display the exit status of the most recently executed command                                                                                                                                                            |
| SYNOPSIS    | <b>showresult</b><br><b>showresult -h</b>                                                                                                                                                                                             |
| DESCRIPTION | <p>showresult(8) command displays the exit status of the most recently executed.</p> <p>showresult(8) is convenient for a remote control program to confirm whether the most recently executed command is successfully completed.</p> |
| Privileges  | <p>No privileges are required to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                         |
| OPTIONS     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                  |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    display the exit status of setupfru(8).</p> <pre>XSCF&gt; <b>setupfru -x 1 sb 0</b> XSCF&gt; <b>showresult</b> 0</pre>                                                                                         |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                               |

showresult(8)

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------|---------|--------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------|-----------|-----------------------------|
| NAME        | showroute - display routing information for an XSCF network interface                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| SYNOPSIS    | <b>showroute</b> [-M] [-n] -a   <i>interface</i><br><b>showroute</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| DESCRIPTION | <p>showroute(8) command displays the current routing information for an XSCF network interface.</p> <p>Routing information for the specified network interface or all the network interfaces can be displayed. The following information is displayed:</p> <table><tr><td>Destination</td><td>Destination IP address</td></tr><tr><td>Gateway</td><td>Gateway address</td></tr><tr><td>Netmask</td><td>Netmask address</td></tr><tr><td>Flags</td><td>Flag</td></tr><tr><td>Interface</td><td>XSCF network interface name</td></tr></table> | Destination | Destination IP address                                                    | Gateway | Gateway address                                                                      | Netmask | Netmask address                                                                                      | Flags | Flag                                                          | Interface | XSCF network interface name |
| Destination | Destination IP address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| Gateway     | Gateway address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| Netmask     | Netmask address                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| Flags       | Flag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| Interface   | XSCF network interface name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                               |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-a</td><td>Displays routing information that is set for all XSCF network interfaces.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the more command.</td></tr><tr><td>-n</td><td>Displays IP address without the name resolution of host name.</td></tr></table>                               | -a          | Displays routing information that is set for all XSCF network interfaces. | -h      | Displays usage statement. When used with other options or operands, an error occurs. | -M      | Displays text by page. This option provides a function that is the same as that of the more command. | -n    | Displays IP address without the name resolution of host name. |           |                             |
| -a          | Displays routing information that is set for all XSCF network interfaces.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| -M          | Displays text by page. This option provides a function that is the same as that of the more command.                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |
| -n          | Displays IP address without the name resolution of host name.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                                           |         |                                                                                      |         |                                                                                                      |       |                                                               |           |                             |

**OPERANDS**

The following operand is supported:

*interface* Specifies the network interface whose information is to be displayed. One of the following values can be specified, depending on the system configuration. If this operand is specified with the `-a` option, the operand is ignored.

For XSCF unit 0:

`xscf#0-lan#0` XSCF-LAN#0

`xscf#0-lan#1` XSCF-LAN#1

For XSCF unit 1 (when a duplicated configuration is used):

`xscf#1-lan#0` XSCF-LAN#0

`xscf#1-lan#1` XSCF-LAN#1

For takeover IP address:

`lan#0` takeover IP address for XSCF-LAN#0

`lan#1` takeover IP address for XSCF-LAN#1

**EXTENDED DESCRIPTION**

- In a duplicated configuration, a takeover IP address can be used without a need to determine whether XSCF has been switched. By setting the LAN ports of the active XSCF unit as `lan#0` and `lan#1`, they can be accessed with the names `lan#0` and `lan#1`. As default values, `lan#0` is set to `xscf#0-lan#0` and `lan#1` is set to `xscf#0-lan#1`.
- Because the XSCF unit is not duplicated configuration in a midrange server, `lan#0` is fixed to `xscf#0-lan#0` and `lan#1` to `xscf#0-lan#1`.
- Specifying an interface between XSCF units causes an error.
- The `setroute(8)` command sets routing information for the XSCF network.
- In high-end server, in case you set the same routing information to the takeover IP address `lan#0` and to `xscf#0-lan#0`, or in case you set the same routing information to the takeover IP address `lan#1` and to `xscf#0-lan#1`, the interface names both display `lan#0` in the former case, `lan#1` in the latter case.

**EXAMPLES**

**EXAMPLE 1** Displays routing information for XSCF-LAN#0 on XSCF unit 0.

```
XSCF> showroute xscf#0-lan#0
Destination Gateway Netmask Flags Interface
server1.example * 255.255.255.0 U xscf#0-lan#0
default 192.168.10.1 0.0.0.0 UG xscf#0-lan#0
```

**EXAMPLE 2** Displays routing information for XSCF-LAN#0 on XSCF unit 0 without the name resolution of host name.

```
XSCF> showroute -n xscf#0-lan#0
Destination Gateway Netmask Flags Interface
192.168.10.0 * 255.255.255.0 U xscf#0-lan#0
default 192.168.10.1 0.0.0.0 UG xscf#0-lan#0
```

**EXAMPLE 3** Displays all routing information for XSCF unit 0 and XSCF unit 1 in the highend server.

```
XSCF> showroute -a
Kernel IP routing table
Destination Gateway Netmask Flags Interface
192.168.10.0 * 255.255.255.0 U xscf#0-lan#0
default 192.168.10.1 0.0.0.0 UG xscf#0-lan#0

Destination Gateway Netmask Interface
default 192.168.10.1 0.0.0.0 xscf#1-lan#0
XSCF>
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** `setroute`(8)

showroute(8)



|             |                                                                                                                                                                                                                                                                                  |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showshutdowndelay - display the shutdown wait time at power interruption of the uninterruptible power supply (UPS)                                                                                                                                                               |
| SYNOPSIS    | <b>showshutdowndelay</b><br><b>showshutdowndelay -h</b>                                                                                                                                                                                                                          |
| DESCRIPTION | <p>The showshutdowndelay(8) command displays the wait time before the start of system shutdown for when power interruption occurs in a system connected to the UPS.</p> <p>The time set by the setshutdowndelay(8) command is displayed. The default time set is 10 seconds.</p> |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <p>platadm, platop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                |
| OPTIONS     | <p>The following options are supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                             |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displays the wait time before the start of shutdown.</p> <pre>XSCF&gt; <b>showshutdowndelay</b> UPS shutdown wait time : 600 second(s)</pre>                                                                                                              |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                    An error occurred.</p>                                                                                                                           |
| SEE ALSO    | <b>setshutdowndelay (8)</b>                                                                                                                                                                                                                                                      |

showshutdowndelay(8)





|                             |                                                                                                                                                                                                                                                                     |    |                           |    |                                                            |    |                           |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---------------------------|----|------------------------------------------------------------|----|---------------------------|
| <b>NAME</b>                 | showsmtp - display the SMTP configuration information                                                                                                                                                                                                               |    |                           |    |                                                            |    |                           |
| <b>SYNOPSIS</b>             | <p><b>showsmtp</b></p> <p><b>showsmtp</b> [ -v ]</p> <p><b>showsmtp</b> -h</p>                                                                                                                                                                                      |    |                           |    |                                                            |    |                           |
| <b>DESCRIPTION</b>          | showsmtp(8) displays the SMTP configuration. When used without options, it displays current SMTP configuration data.                                                                                                                                                |    |                           |    |                                                            |    |                           |
| <b>Privileges</b>           | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                       |    |                           |    |                                                            |    |                           |
| <b>OPTIONS</b>              | <p>The following options are supported:</p> <table> <tr> <td>-h</td><td>Displays usage statement.</td></tr> <tr> <td></td><td>When used with other options or operands, an error occurs.</td></tr> <tr> <td>-v</td><td>Specifies verbose output.</td></tr> </table> | -h | Displays usage statement. |    | When used with other options or operands, an error occurs. | -v | Specifies verbose output. |
| -h                          | Displays usage statement.                                                                                                                                                                                                                                           |    |                           |    |                                                            |    |                           |
|                             | When used with other options or operands, an error occurs.                                                                                                                                                                                                          |    |                           |    |                                                            |    |                           |
| -v                          | Specifies verbose output.                                                                                                                                                                                                                                           |    |                           |    |                                                            |    |                           |
| <b>EXTENDED DESCRIPTION</b> | SMTP information includes the Mail Server and Reply addresses.                                                                                                                                                                                                      |    |                           |    |                                                            |    |                           |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b> Displaying SMTP configuration</p> <pre> XSCF&gt; <b>showsmtp</b> Mail Server: 10.4.1.1 Port: 25 Authentication Mechanism: smtp-auth User Name: jsmith Password: ***** Reply Address: adm@customer.com </pre>                                    |    |                           |    |                                                            |    |                           |
| <b>EXIT STATUS</b>          | <p>The following exit values are returned:</p> <table> <tr> <td>0</td><td>Successful completion.</td></tr> <tr> <td>&gt;0</td><td>An error occurred.</td></tr> </table>                                                                                             | 0  | Successful completion.    | >0 | An error occurred.                                         |    |                           |
| 0                           | Successful completion.                                                                                                                                                                                                                                              |    |                           |    |                                                            |    |                           |
| >0                          | An error occurred.                                                                                                                                                                                                                                                  |    |                           |    |                                                            |    |                           |
| <b>SEE ALSO</b>             | <b>setsmtp</b> (8)                                                                                                                                                                                                                                                  |    |                           |    |                                                            |    |                           |

showsmtp(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showsnmp - display the configuration information and current status of the SNMP agent                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SYNOPSIS    | <b>showsnmp</b><br><b>showsnmp -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| DESCRIPTION | showsnmp(8) displays the configuration and information and current status of the SNMP agent. This includes: agent status, port, system location, contact and description, traphosts, SNMP version, and any enabled MIB modules.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Privileges  | You must have platadm or platop privileges to run this command.<br><br>Refer to setprivileges(8) for more information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| OPTIONS     | The following option is supported:<br><br>-h                      Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| EXAMPLES    | <b>EXAMPLE 1</b> Displaying SNMP Information for a System That Has Not Been Set Up<br><br>XSCF> <b>showsnmp</b><br><br>Agent Status:            Disabled<br>Agent Port:              161<br>System Location:        Unknown<br>System Contact:         Unknown<br>System Description: Unknown<br><br>Trap Hosts: None<br>SNMP V1/V2c: None<br><br>Enabled MIB Modules: None<br><br><b>EXAMPLE 2</b> Displaying SNMP Information for a Disabled System Set Up With<br>SNMPv3 Trap Host<br><br>XSCF> <b>showsnmp</b><br><br>Agent Status:            Disabled<br>Agent Port:              161<br>System Location:        SanDiego<br>System Contact:         bob@jupiter.west<br>System Description: FF1<br><br>Trap Hosts:<br>Hostname        Port        Type    Community String    Username    Auth Protocol<br>-----<br>host1           162        v3        n/a                    jsmith       SHA<br><br>SNMP V1/V2c: None<br><br>Enabled MIB Modules: None |

**EXAMPLE 3**    Displaying SNMP Information for a Enabled System Set Up With  
                  SNMPv1/v2c Trap Host

```
XSCF> showsnmp

Agent Status: Enabled
Agent Port: 161
System Location: SanDiego
System Contact: jsmith@jupiter.west
System Description: FF1

Trap Hosts:

Hostname Port Type Community String Username Auth Protocol

host1 162 v1 public jsmith SHA
host2 162 v2c public n/a n/a
host3 162 v3 n/a bob SHA

SNMP V1/V2c:

Status: Enabled
Community String: public

Enabled MIB Modules:
SP_MIB
FM_MIB
```

**EXIT STATUS**

The following exit values are returned:

- 0                    Successful completion.
- >0                  An error occurred.

**SEE ALSO**

**setsnmp** (8)

|                    |                                                                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showsnmpusm - display the current User-based Security Model (USM) information for the SNMP agent                                                                                   |
| <b>SYNOPSIS</b>    | <b>showsnmpusm</b><br><b>showsnmpusm -h</b>                                                                                                                                        |
| <b>DESCRIPTION</b> | showsnmpusm(8) displays the current USM information for the SNMP agent.                                                                                                            |
| <b>Privileges</b>  | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                      |
| <b>OPTIONS</b>     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                 |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b>    Displaying SNMP Information for a System</p> <pre> XSCF&gt; <b>showsnmpusm</b> Username      Auth Protocol ----- jsmith        SHA sue           MD5 </pre> |
| <b>EXIT STATUS</b> | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                            |
| <b>SEE ALSO</b>    | <b>setsnmpusm (8)</b>                                                                                                                                                              |

showsnpusm(8)



|                    |                                                                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NAME</b>        | showsnmpvacm - display the current View-based Access Control Access (VACM) information for the SNMP agent                                                                                                                                                                                                                                |
| <b>SYNOPSIS</b>    | <b>showsnmpvacm</b><br><b>showsnmpvacm -h</b>                                                                                                                                                                                                                                                                                            |
| <b>DESCRIPTION</b> | showsnmpvacm(8) displays the current VACM information for the SNMP agent.                                                                                                                                                                                                                                                                |
| <b>Privileges</b>  | <p>You must have platadm or platop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                            |
| <b>OPTIONS</b>     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                                                       |
| <b>EXAMPLES</b>    | <p><b>EXAMPLE 1</b>    Displaying SNMP Information for a System</p> <pre> XSCF&gt; <b>showsnmpvacm</b> Groups: Groupname      Username ----- admin          jsmith, bob  Views: View           Subtree    Mask      Type ---- all_view       .1         ff        include  Access: View           Group ---- all_view       admin </pre> |
| <b>EXIT STATUS</b> | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                                                                                                                                  |
| <b>SEE ALSO</b>    | <b>setsnmpvacm</b> (8)                                                                                                                                                                                                                                                                                                                   |

showsnpvacm(8)



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------|---------|-------------------------------|-------------|---------------------------------------|
| NAME        | showssh - display the status, host public keys, fingerprint, or user public keys of the SSH service configured for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| SYNOPSIS    | <p><b>showssh</b> [-c hostkey] [-M]</p> <p><b>showssh</b> -c pubkey [-u user_name] [-M]</p> <p><b>showssh</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| DESCRIPTION | <p>showssh(8) command displays the status, host public keys, fingerprint, or user public keys of the SSH service configured for the XSCF network.</p> <p>The following information is displayed:</p> <table><tr><td>SSH status</td><td>Validity of the SSH service</td></tr><tr><td>RSA key</td><td>Host public key in RSA format</td></tr><tr><td>DSA key</td><td>Host public key in DSA format</td></tr><tr><td>Fingerprint</td><td>Host public key in fingerprint format</td></tr></table> <p>When specified the display of user public key, the user public key number, which automatically numbered by system, and the user public key are displayed.</p> <p>Only SSH2 is supported for XSCF.</p> | SSH status | Validity of the SSH service                                                                 | RSA key   | Host public key in RSA format                                                                | DSA key | Host public key in DSA format | Fingerprint | Host public key in fingerprint format |
| SSH status  | Validity of the SSH service                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| RSA key     | Host public key in RSA format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| DSA key     | Host public key in DSA format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| Fingerprint | Host public key in fingerprint format                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| Privileges  | <p>You must have one of the following privileges to run this command:</p> <ul style="list-style-type: none"><li>■ To display the user public key of other user account:<br/>useradm</li><li>■ To display the information other than above:<br/>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</li></ul> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                  |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-c hostkey</td><td>Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified.</td></tr><tr><td>-c pubkey</td><td>Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                            | -c hostkey | Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified. | -c pubkey | Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified |         |                               |             |                                       |
| -c hostkey  | Displays a host public key. If the -c option is omitted, "-c hostkey" is assumed specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |
| -c pubkey   | Displays the user public key. If the -c option is omitted, "-c hostkey" is assumed specified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |                                                                                             |           |                                                                                              |         |                               |             |                                       |

- h Displays usage statement. When used with other options or operands, an error occurs.
- M Displays text by page. This option provides a function that is the same as that of the `more` command.
- u *user\_name* Specify the user account name to display the user public key. Should be specified with "-c pubkey." When the -u option omitted, the user public key of the current login user account will be displayed.

## EXTENDED DESCRIPTION

- You can specify the automatically-numbered user public key number to delete the user public key by `setssh(8)` command.
- The `setssh(8)` command makes settings for the HTTPS service in the XSCF network.

## EXAMPLES

**EXAMPLE 1** Displays the information of host public keys.

```
XSCF> showssh
SSH status: enabled
RSA key:
ssh-rsa AAAAB3NzaC1yc2EAAAABIwAAAIEAt0IG3wfpQnGr51znS9XtzWcBBb/
UU0LN08SilUXE6j+
avlxdY7AFqBflwGxLF+Tx5pTa6HuZ8o8yUBbDZVJAAAAFCfKPxarV+/5qzK4A43Qaigkqu/
6QAAAIbM
LQ122G8pwibESrh5JmOhSxpLz13P26ksI8qPr+7BxmJLR0k=
Fingerprint:
1024 e4:35:6a:45:b4:f7:e8:ce:b0:b9:82:80:2e:73:33:c4 /etc/ssh/
ssh_host_rsa_key.pub

DSA key:
ssh-dss
AAAAB3NzaC1kc3MAAACBAJSy4GxD7Tk4fxFvyW1D0NUDqZQPY3PuY2IG7QC4BQ1kewDnblB8
/
JEqI+8pnfbWzmOWU37KHL19OEYNAv6v+WZT6RElU5Pyb8F16uq96L8QDMswFlICMZgrn+ilJ
NStr6r8
KDJfwOQMmK0eeDFj2mL40NOvaLQ83+rRwW6Ny/yF1Rgv6PUpUqRLw4VeRb+uOfmPRpe6/
kb4z++lOhtp
WI9bay6CK0nrFRok+z54ez7BrDFBQVnNZx9PyEFezJG9ziEYVUag/23LIAiLxxBmW9pqa/
WxC21Ja4RQ
VN3009kmVwAAAAIAON1LR/
9Jdd7yyG18+Ue7eBBJHrCA0pkSzvfzzFFj5XUzQBdabh5p5Rwz+lvriawFI
ZI9j2uhM/3HQdrvYSVBEdMjaasF9hB6T/
uFwP8yqtJf6Y9GdjBAhWuH8F13pX4BtvK9IeldqCscnOuu0
e2rlUoI6GICMr64FL0YYBSwfbwLiZ6PSA/yKQe23dwfkSfcwQZNq/
5pThGPi3tob5Qev2KCK2OyEDMCA
OvVlMhqHuPNpX+hE19nPdBFGzQ==
Fingerprint:
1024 9e:39:8e:cb:8a:99:ff:b4:45:12:04:2d:39:d3:28:15 /etc/ssh/
ssh_host_dsa_key.pub
```

**EXAMPLE 2** Displays the user public key of the current login user account.

```
XSCF> showssh -c pubkey
Public key:
 1 ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAzFh95SohrDgpnN7zFCJCVNy+jaZPTjNDxcid
QGbiHYDCBttI4151Y0Sv85FJwDpSNHNKoVLMYLjtBmUMPbGgGVB61qskSv/
FeV44hefNCZMiXGItIIpK
P0nBK4XJpCFoFbPXNUHDwlrTD9icD5U/wRFGSRRxFI+Ub5oLRxN8+A8=abcd@example.com
 2 ssh-rsa
CSqGSIb3DQEJARYHZWUubWFpbDCBnzANBgkqhkiG9w0BAQEFAAOBjQAwgYkCgYEA
nkPntf+TjYtyKlNYFbO/YavFpUzkYTLHdt0Fbz/
tZmGd3e6Jn34A2W9EC7D9hjLsj+kAP41A16wFwGO7
KP3H4iImX0Uysjl9Hyk4jLBU51sw8JqvT2utTjltV5mFPKL6bDcAgY9=efgh@example.com
```

**EXIT STATUS** The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO** [setssh \(8\)](#)

showssh(8)



| <b>NAME</b>                 | showstatus - display the degraded Field Replaceable Units (FRUs)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|---------|-----------------------------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|
| <b>SYNOPSIS</b>             | <b>showstatus</b> [-M]<br><b>showstatus</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| <b>DESCRIPTION</b>          | showstatus(8) command displays information about degraded units that are among the FRUs composing the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| <b>Privileges</b>           | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| <b>OPTIONS</b>              | <p>The following options are supported:.</p> <p>-h                      Displays usage statement. When used with other options or operands, an error occurs.</p> <p>-M                      Displays text by page. This option provides a function that is the same as that of the more command.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| <b>EXTENDED DESCRIPTION</b> | <p>Displays the information concerning the units failed or degraded and the units on the next upper layer, among the FRUs composing the system. An asterisk (*) indicating abnormal unit is displayed along with any of the following the "Status:":</p> <table> <tr> <th>Status</th><th>Description</th></tr> <tr> <td>Faulted</td><td>The component is faulty and is not operating.</td></tr> <tr> <td>Degraded</td><td>The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance.</td></tr> <tr> <td>Deconfigured</td><td>As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)</td></tr> <tr> <td>Maintenance</td><td>The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway.</td></tr> </table> | Status | Description | Faulted | The component is faulty and is not operating. | Degraded | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance. | Deconfigured | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.) | Maintenance | The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway. |
| Status                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Faulted                     | The component is faulty and is not operating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Degraded                    | The component is operating. However, either an error has been detected or the component is faulty. As a result, the component might be operating with reduced functionality or performance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Deconfigured                | As a result of another component's faulted or degraded status, the component is not operating. (The component itself is not faulted or degraded.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| Maintenance                 | The component is under maintenance. A deletefru(8), replacefru(8), or addfru(8) operation is currently underway.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |
| <b>EXAMPLES</b>             | <p><b>EXAMPLE 1</b>    Displays the degraded units. In this example, a CPU module and memory module in a CPU memory unit are degraded because of an error.</p> <pre> XSCF&gt; showstatus CMU#0; *   CPUM#0-CHIP#0 Status:Faulted; *   MEM#00A Status:Faulted;           </pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |         |                                               |          |                                                                                                                                                                                             |              |                                                                                                                                                   |             |                                                                                                                  |

**EXAMPLE 2** Displays the degraded units. In this example, a memory module on a memory board is degraded because of an error.

```
XSCF> showstatus
 MBU_B;
 MEMB#0;
* MEM#0A Status:Faulted;
```

**EXAMPLE 3** Displays the degraded units. In this example, a CPU memory unit and memory module on a motherboard unit are degraded because of an error.

```
XSCF> showstatus
 MBU_B Status:Normal;
* MEMB#1 Status:Deconfigured;
* MEM#3B Status:Deconfigured;
```

**EXAMPLE 4** Displays the degraded units. In this example, a CPU memory unit is degraded because a crossbar unit is degraded.

```
XSCF> showstatus
 MBU_B Status:Normal;
* CPUM#1-CHIP#1 Status:Deconfigured;
* XBU_B#0 Status:Degraded;
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                |         |                                 |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------|---------|---------------------------------|
| NAME                 | showtelnet - display the current status of the Telnet service for the XSCF network                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                |         |                                 |
| SYNOPSIS             | <b>showtelnet</b><br><b>showtelnet -h</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                |         |                                 |
| DESCRIPTION          | <p>showtelnet(8) command displays the current status of the Telnet service for the XSCF network.</p> <p>One of the following states is displayed:</p> <table><tr><td>enable</td><td>The Telnet service is enabled.</td></tr><tr><td>disable</td><td>The Telnet service is disabled.</td></tr></table> <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p> | enable | The Telnet service is enabled. | disable | The Telnet service is disabled. |
| enable               | The Telnet service is enabled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                |         |                                 |
| disable              | The Telnet service is disabled.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                |         |                                 |
| OPTIONS              | <p>The following option is supported:</p> <table><tr><td>-h</td><td>Displays usage statement.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                     | -h     | Displays usage statement.      |         |                                 |
| -h                   | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |                                |         |                                 |
| EXTENDED DESCRIPTION | The settelnet(8) command makes settings for the Telnet service in the XSCF network.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |        |                                |         |                                 |
| EXAMPLES             | <p><b>EXAMPLE 1</b> Displays the status of the Telnet service for the XSCF network.</p> <pre>XSCF&gt; <b>showtelnet</b> Telnet status:enabled</pre>                                                                                                                                                                                                                                                                                                                                                                                 |        |                                |         |                                 |
| EXIT STATUS          | <p>The following exit values are returned:</p> <table><tr><td>0</td><td>Successful completion.</td></tr><tr><td>&gt;0</td><td>An error occurred.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                  | 0      | Successful completion.         | >0      | An error occurred.              |
| 0                    | Successful completion.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |                                |         |                                 |
| >0                   | An error occurred.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |                                |         |                                 |
| SEE ALSO             | <b>settelnet (8)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                |         |                                 |

showtelnet(8)





|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | showtimezone - display the XSCF time zone and Daylight Saving Time information of current settings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| SYNOPSIS    | <b>showtimezone</b> -c tz<br><b>showtimezone</b> -c dst<br><b>showtimezone</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| DESCRIPTION | <p>The showtimezone(8) command displays the XSCF time zone and Daylight Saving Time information of current settings.</p> <p>It is displayed in the following format.</p> <p><i>std offset dst[offset2] [from-date[/time] to-date[/time] ]</i></p> <p><i>std</i>                      Abbreviations of time zone.</p> <p><i>offset</i>                      Offset time of time zone and Greenwich mean time (GMT).</p> <p>                            Displayed in minus "-" in case the offset is plus, and displayed in plus "+" in case the offset is minus.</p> <p><i>dst</i>                      Name of Daylight Saving Time.</p> |

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>offset2</i>          | Offset time of Daylight Saving Time and Greenwich mean time (GMT).<br><br>Displayed in minus "-" in case the offset is plus, and displayed in plus "+" in case the offset is minus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>from-date[/time]</i> | The starting time of Daylight Saving Time.<br><br>Any of the following formats displays <i>from-date</i> .<br><br><i>Mm.w.d</i><br><br><i>Mm</i> : Shows the month when Daylight Saving Time starts. Any numeric from 1 to 12 comes in <i>m</i> .<br><br><i>w</i> : Shows the week when Daylight Saving Time starts. Any numeric from 1 to 5 comes in, "1" for the first week and "5" for the last week in the month.<br><br><i>d</i> : Shows the day of the week when Daylight Saving Time starts. Any numeric from 0 to 6 comes in, "0" for Sunday and "6" for Saturday.<br><br><i>Jn</i><br><br><i>Jn</i> : The date when Daylight Saving Time starts. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is not counted.<br><br><i>n</i><br><br><i>n</i> : The date when Daylight Saving Time starts. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is counted.<br><br>In <i>time</i> , the time to switch to Daylight Saving Time is shown in the pre-switched time.<br><br><i>hh:mm:ss</i> Shows the time in "hh:mm:ss" format. The default value is "02:00:00." |

|            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|            | <p><i>to-date[/time]</i> The termination time of Daylight Saving Time.</p> <p>Any of the following formats displays <i>to-date</i>.</p> <p><i>Mm.w.d</i></p> <p><i>Mm</i>: Shows the month when Daylight Saving Time terminates. Any numeric from 1 to 12 comes in <i>m</i>.</p> <p><i>w</i>: Shows the week when Daylight Saving Time terminates. Any numeric from 1 to 5 comes in, "1" for the first week and "5" for the last week in the month.</p> <p><i>d</i>: Shows the day of the week when start Daylight Saving Time terminates. Any numeric from 0 to 6 comes in, "0" for Sunday and "6" for Saturday.</p> <p><i>Jn</i></p> <p><i>Jn</i>: The date when Daylight Saving Time terminates. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is not counted.</p> <p><i>n</i></p> <p><i>n</i>: The date when Daylight Saving Time terminates. Any numeric from 1 to 365 comes in, "1" for January 1st. The leap-year day is counted.</p> <p>In <i>time</i>, the time to switch from Daylight Saving Time is shown in the pre-switched time.</p> <p><i>hh:mm:ss</i> Shows the time in "hh:mm:ss" format. The default value is "02:00:00."</p> |
| Privileges | <p>You must have one of the following privileges to run this command:</p> <p>useradm, platadm, platop, auditadm, auditop, domainadm, domainmgr, domainop, fieldeng</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| OPTIONS    | <p>The following option is supported:</p> <p>-c tz Displays the time zone.</p> <p>-c dst Displays the Daylight Saving Time information.</p> <p>-h Displays usage statement. When used with other options or operands, an error occurs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

**EXTENDED  
DESCRIPTION**

The `settimezone(8)` command sets the time zone of the XSCF.

**EXAMPLES**

**EXAMPLE 1** Displays the time zone.

```
XSCF> showtimezone -c tz
Asia/Tokyo
```

**EXAMPLE 2** Displays the Daylight Saving Time information as follows: the abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and the time period is from the last Sunday of March 2:00 to the last Sunday of October 2:00.

```
XSCF> showtimezone -c dst
JST-9JDT,M3.5.0,M10.5.0
```

**EXAMPLE 3** Displays the Daylight Saving Time information as follows: the abbreviation of time zone is JST, the offset from GMT is +9, the name of Daylight Saving Time is JDT, Daylight Saving Time is 1 hour ahead, and the time period is from the first Sunday of April 0:00 to the first Sunday of September 0:00.

```
XSCF> showtimezone -c dst
JST-9JDT-10,M4.1.0/00:00:00,M9.1.0/00:00:00
```

**EXAMPLE 4** When no Daylight Saving Time is set

```
XSCF> showtimezone -c dst
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

`setdate(8)`, `settimezone(8)`, `showdate(8)`

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------|----|---------------------------|--|------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------|----|-----------------------------------------------------------------------------------------|----|-------------------------------------------------------------------|
| NAME        | showuser - display user account information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| SYNOPSIS    | <p><b>showuser</b></p> <p><b>showuser</b> [ [-a] [-M] [-p] [-u] [ <i>user</i>]]</p> <p><b>showuser</b> [ [-a] [-l] [-M] [-p] [-u]]</p> <p><b>showuser</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| DESCRIPTION | <p><b>showuser</b> (8) displays XSCF user account information. If the user argument is specified, <b>showuser</b> displays account information for the specified user. If the user argument is not specified, then <b>showuser</b> displays account information for the current user. If the <b>-l</b> option is specified, <b>showuser</b> displays account information for all local users.</p> <p>When invoked with one or more of the options <b>-a</b>, <b>-p</b>, or <b>-u</b>, <b>showuser</b> displays information as described in the OPTIONS section below. When invoked without any of these options, <b>showuser</b> displays all account information.</p>                                                                                                                                                                                     |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| Privileges  | <p>No privileges are needed for you to view your own account. You must have <b>useradm</b> privileges to run this command for any other user.</p> <p>Refer to <b>setprivileges(8)</b> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-a</td><td>Displays password validity and account state information. This is only valid for XSCF user accounts.</td></tr><tr><td>-h</td><td>Displays usage statement.</td></tr><tr><td></td><td>When used with other options or operands, an error occurs.</td></tr><tr><td>-l</td><td>Displays information on all local XSCF user accounts sorted by user login name. Cannot be used with the <i>user</i> operand.</td></tr><tr><td>-M</td><td>Displays text by page. This option provides a function that is the same as that of the <b>more</b> command.</td></tr><tr><td>-p</td><td>Displays all privileges assigned to the user. This is valid for local and remote users.</td></tr><tr><td>-u</td><td>Displays user ID (UID). This is valid for local and remote users.</td></tr></table> | -a          | Displays password validity and account state information. This is only valid for XSCF user accounts. | -h | Displays usage statement. |  | When used with other options or operands, an error occurs. | -l | Displays information on all local XSCF user accounts sorted by user login name. Cannot be used with the <i>user</i> operand. | -M | Displays text by page. This option provides a function that is the same as that of the <b>more</b> command. | -p | Displays all privileges assigned to the user. This is valid for local and remote users. | -u | Displays user ID (UID). This is valid for local and remote users. |
| -a          | Displays password validity and account state information. This is only valid for XSCF user accounts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| -h          | Displays usage statement.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
|             | When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| -l          | Displays information on all local XSCF user accounts sorted by user login name. Cannot be used with the <i>user</i> operand.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| -M          | Displays text by page. This option provides a function that is the same as that of the <b>more</b> command.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| -p          | Displays all privileges assigned to the user. This is valid for local and remote users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| -u          | Displays user ID (UID). This is valid for local and remote users.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| OPERANDS    | <p>The following operand is supported:</p> <table><tr><td><i>user</i></td><td>Name of an existing user account. Cannot be used with the <b>-l</b> option.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <i>user</i> | Name of an existing user account. Cannot be used with the <b>-l</b> option.                          |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |
| <i>user</i> | Name of an existing user account. Cannot be used with the <b>-l</b> option.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |                                                                                                      |    |                           |  |                                                            |    |                                                                                                                              |    |                                                                                                             |    |                                                                                         |    |                                                                   |

**EXAMPLES****EXAMPLE 1** Displays Password and Account Validity Information

```

XSCF> showuser -a
User Name: jsmith
Status: Enabled
Minimum: 0
Maximum: 99999
Warning: 7
Inactive: -1
Last Change: Aug 22, 2005
Password Expires: Never
Password Inactive: Never
Account Expires: Never

```

**EXAMPLE 2** Displays Privileges Information

```

XSCF> showuser -p
User Name: jsmith
Privileges: domainadm@1,3-6,8,9
 platadm

```

**EXIT STATUS**

The following exit values are returned:

```

0 Successful completion.
>0 An error occurred.

```

**SEE ALSO**

**adduser(8)**, **deleteuser(8)**, **disableuser(8)**, **enableuser(8)**, **password(8)**, **setprivileges(8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | snapshot - collect and transfer environment, log, error, and FRUID data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| SYNOPSIS    | <p><b>snapshot</b> -d <i>device</i> [-r] [-e [-P <i>password</i>]] [-L {F I R}] [-l] [-v] [-q] [-Y n]] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> -t <i>user@host: directory</i> [-e [-P <i>password</i>]] [-k <i>host-key</i>] [-l] [-L {F I R}] [-p <i>password</i>] [-v] [-q] [-Y n]] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> -T [-D <i>directory</i>] [-e [-P <i>password</i>]] [-k <i>host-key</i>] [-l] [-L {F I R}] [-v] [-q] [-Y n]] [-S <i>time</i> [-E <i>time</i>]]</p> <p><b>snapshot</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DESCRIPTION | <p>The snapshot(8) command provides a data-collection mechanism that enables rapid, reliable, and flexible retrieval of diagnostic information on the Service Processor. snapshot(8) collects the following data: Configuration, Environmentals, Logs, Errors, and FRUID information. It transfers data to the specified destination.</p> <p>snapshot opens an output file, the name of which is automatically generated based on the host name and IP address assigned to the Service Processor and the UTC time (in hours, minutes, and seconds) and date on the Service Processor at the time snapshot is invoked. For example: <code>jupiter_10.1.1.1_2006-07-08T22-33-44</code>. snapshot does not support user-specified file names for the output file. As files and command output are collected from the Service Processor, snapshot compresses the output data and writes it in the format of a <code>.zip</code> archive.</p> <p>snapshot stores the collected data on a remote network host or on an external media device, based upon the use of the <code>-t</code>, <code>-T</code> or <code>-d</code> option. To store the collected data on a remote network host using the <code>-t</code> option, you must specify a host name (or IP address), a target directory on the remote network host, and the user name of a user on the remote host. If you have already set an archive target using <code>setarchiving(8)</code>, you can use the <code>-T</code> option to store the data on a remote network host using that same information, or use <code>-T</code> in conjunction with the <code>-D</code> option to change only the target directory. When storing data on a remote network host, snapshot opens a network connection using SSH to act as a data pipe to the remote file.</p> <p>It is possible to restrict data collection on some larger log files to a specific date range using the options <code>-S</code> and, optionally, <code>-E</code>.</p> <p>Encrypted network protocols, such as SSH and SSL, are used for transmission of the data across a network connection. The entire <code>.zip</code> archive itself can be encrypted using the <code>-e</code> flag. To decrypt a <code>.zip</code> archive that has been encrypted with this process, use the encryption password given to snapshot with the <code>openssl</code> command. The following example decrypts the file <code>jupiter_10.1.1.1_2006-07-08T22-33-44.zip.e</code>:</p> <pre>% openssl aes-128-cbc -d -in jupiter_10.1.1.1_2006-07-08T22-33-44.zip.e -out jupiter_10.1.1.1_2006-07-08T22-33-44.zip</pre> |

Every .zip archive generated by snapshot includes two files generated by snapshot itself. The first file, called README, contains the original name of the .zip archive, the name of the configuration file on the Service Processor used to create the .zip archive, the version of snapshot and whether log-only mode (the -l flag) was used to generate the archive. The second file, called CONFIG, is a copy of the actual configuration file used by snapshot to generate the archive.

The data collected by snapshot may potentially be used by Service personnel to diagnose problems with the system. snapshot can collect different sets of data for different diagnostic purposes. The three different sets are named Initial, Root Cause, and Full, and are specified through the use of the -L option.

### Privileges

You must have platadm or fieldeng privileges to run this command.

Refer to setprivileges(8) for more information.

### OPTIONS

The following options are supported.

- D *directory*      Used with the -T option, specifies a value for *directory* instead of the value set using setarchiving(8). The directory field must not begin with a hyphen (-) or a tilde (~). Refer to the description of the -T option for more detailed information.
  - d *device*      Specifies the external media device to use. The following option is available to -d:
    - r      Removes all files from the external media device prior to data collection. This option is not valid with the -t or -T options.
  - E *time*      Specifies the end time for the time period for which data is collected. Used with the -S *time* option for the start time, defines the period of time for which log messages are collected by snapshot. Only those log entries created before the time specified by -E *time* are collected by snapshot. Refer also to the description of the -S option.
    - time*      Interpreted using strptime(3), using one of the following two formats:
      - %Y-%m-%d, %H:%M:%S
      - %Y-%m-%d\_%H-%M-%S
  - e      Encrypts the zip archive. Required when using -P *password*.
  - h      Displays usage statement.
- When used with other options or operands, an error occurs.



|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |   |               |   |                  |   |                     |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------|---|------------------|---|---------------------|
| <code>-k</code> <i>host-key</i> | <p>Used with the <code>-t</code> or <code>-T</code> option, sets the public key that the Service Processor uses to log in to the network host. This option is not valid with the <code>-d</code> option.</p> <p>Possible values for <i>host-key</i> are as follows:</p> <p><i>none</i></p> <p>This literal value specifies that a public key should not be used to authenticate the network host.</p> <p><i>download</i></p> <p>This literal value specifies that snapshot will use ssh to download a public host key for the network host and download the key from the host specified in the <code>-t</code> argument. snapshot displays the key's md5 fingerprint and prompts for confirmation. If you accept the key, it is used for server authentication. If you reject the key, snapshot exits without doing anything. This is the default behavior in SSH Target Mode if <code>-k</code> is not specified.</p> <p><i>public</i></p> <p>The specified public key is used for server authentication. The <i>host-key</i> argument should be the complete public key of the network host, beginning with key type (the complete contents of <code>/etc/ssh/ssh_host_rsa_key.pub</code> on the network host).</p> <p><b>Note</b> – The public key should be enclosed in quotes to ensure that the shell treats it as a single word.</p> |   |               |   |                  |   |                     |
| <code>-L</code> {F I R}         | <p>Specifies which set of logs will be collected.</p> <table> <tr> <td>F</td><td>Full log set.</td></tr> <tr> <td>I</td><td>Initial log set.</td></tr> <tr> <td>R</td><td>Root Cause log set.</td></tr> </table> <p>If no log set is specified, the Initial log set is collected by default.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | F | Full log set. | I | Initial log set. | R | Root Cause log set. |
| F                               | Full log set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |               |   |                  |   |                     |
| I                               | Initial log set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |               |   |                  |   |                     |
| R                               | Root Cause log set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |               |   |                  |   |                     |
| <code>-l</code>                 | Specifies collecting only log files. Does not collect command output.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |               |   |                  |   |                     |
| <code>-n</code>                 | Automatically answers <i>n</i> (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |   |               |   |                  |   |                     |
| <code>-P</code> <i>password</i> | Used with the <code>-e</code> option, sets the encryption password used for encrypting the output file.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |               |   |                  |   |                     |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -p <i>password</i>               | Specifies the user password used to log in to the host using SSH. This option is valid with the -t option, not with the -d or -T options.                                                                                                                                                                                                                                                                                                                                                                                  |
| -q                               | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| -S <i>time</i>                   | Specifies the start time for the time period for which data is collected. Used with the -E <i>time</i> option for the end time, defines the period of time for which log messages are collected by snapshot. If no end time is specified, the target time period ends at the time the snapshot command is launched. Refer also to the description of the -E option.<br><br><i>time</i> Interpreted using <code>strptime(3)</code> , using one of the following two formats:<br><br>%Y-%m-%d, %H:%M:%S<br>%Y-%m-%d_%H-%M-%S |
| -T                               | Specifies executing snapshot in SSH target mode using the value for <i>user@host:directory</i> previously set using <code>setarchiving(8)</code> . Can be used with the -D option to substitute an alternative value for <i>directory</i> .                                                                                                                                                                                                                                                                                |
| -t<br><i>user@host:directory</i> | Sets the network host and remote directory for data destination. The <i>host</i> field specifies the host name or IP address of the network host. The <i>user</i> field specifies the user name for the ssh login to the archive host. The <i>directory</i> field specifies the archive directory on the archive host where the output file should be stored. The directory field must not begin with a hyphen (-) or a tilde (~).                                                                                         |
| -v                               | Specifies verbose output. Displays all actions and commands as they are executed. If this option is specified with the -q option, the -v option is ignored.<br><br><b>Note</b> – You may not have the required privileges to run all the commands that are executed by the snapshot configuration file. If this occurs, you will see error messages indicating these operations are not permitted.                                                                                                                         |
| -y                               | Automatically answers y (yes) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

EXTENDED  
DESCRIPTION

Modes of Operation

The following is a brief overview of the modes of operation for the snapshot command.

The first mode is *SSH Target Mode*. The data collector is run in this mode when it is invoked with the -t or -T option. In this mode, the data collector opens an SSH

connection from the Service Processor to the specified target (after appropriate authentication) and sends the zip data archive through the SSH connection to the target host. The transmission encryption in this mode is provided by SSH.

The second mode is *USB Device Mode*. The data collector is run in this mode when it is invoked with the `-d` flag. In this mode, the data collector's output (which is the zip archive) is saved in a file on the USB device. The USB device should be formatted using the FAT32 file system. As in SSH Target mode, you can use the `-e` option to encrypt the zip file in this mode. However, no transmission encryption (such as SSH) occurs in this mode, since the data stays local to the Service Processor.

## EXAMPLES

### EXAMPLE 1 Downloading a Public Key Using SSH

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x -k download
Downloading Public Key from 'jupiter.west'...
Key fingerprint in md5: c9:e0:bc:b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? Y
Enter ssh password for user 'joe' on host 'jupiter.west'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

### EXAMPLE 2 Downloading a Host Key

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x
Downloading Public Key from 'jupiter.west'...
Public Key Fingerprint: c9:e0:bc:b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? y
Enter ssh password for user 'joe' on host 'jupiter.west'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

### EXAMPLE 3 Downloading With a User-Provided Public Key

```
XSCF> snapshot -t joe@jupiter.west:/home/joe/logs/x -k "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAwVFISQNVBfHTTzq0AX5iQqCkkJjd6ezWkVGt
mMkJJzzmJYK0sBlhn6dGEIiHdBSzO8QLAXb8N4Kq8JDOBpLSN4yokUPTcZQNxJaY
A0W058Qgxbn"
Enter ssh password for user 'joe' on host 'jupiter.west'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

### EXAMPLE 4 Log Files Only Using No Public Key

```
XSCF> snapshot -t bob@mars.east:/home/bob/logs/x -k none -l
Enter ssh password for user 'bob' on host 'mars.east'
Log only mode. No commands will be collected.
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

**EXAMPLE 5** Downloading Using Encryption With Provided Password and No Public Key

```
XSCF> snapshot -t bob@mars.east:/home/bob/logs/x -k none -e -P
password
Output data will be encrypted.
Enter ssh password for user 'bob' on host 'mars.east'
Setting up ssh connection to remote host...
Collecting data into joe@jupiter.west:/home/joe/logs/x/archive.zip
Data collection complete.
```

**EXAMPLE 6** Downloading Using No Key to Invalid Directory

```
XSCF> snapshot -t sue@saturn.north:/home/sue/logs/bad_dir -k none
Enter ssh password for user 'sue' on host 'saturn.north'
Setting up ssh connection to remote host...
Failed to create remote file:
/home/sue/logs/bad_dir/archive.zip
Verify adequate disk permissions and disk space on target host
Error opening SSH target
Exiting with error 1
```

**EXAMPLE 7** Downloading Public Key With Connectivity Failure

```
XSCF> snapshot -t sue@saturne.west:/home/sue/logs/x -k download
Downloading Public Key from 'saturne.west'...
Error downloading key for host 'saturne.west'
Error opening SSH target
Exiting with error 1
```

**EXAMPLE 8** Downloading Public Key and Answering No to All Prompts

```
XSCF> snapshot -v -t jill@earth.east:/home/jill/logs/x -k download
-n
Downloading Public Key from 'earth.east'...
Public Key: ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAIEAwVFISQNVBFhTTzq0AX5iQqCkkJjd6ezWkVGtmMkJJzzM
jYK0sBlhn6dGEIiHdBSzO8QLAXb8N4Kq8JDOBpLSN4yokUPTcZQNxJaYA0W058Qgxbn
Key fingerprint in md5: c9:e0:bc+b2:1a:80:29:24:13:d9:f1:13:f5:5c:2c:0f
Accept this public key (yes/no)? no
Public Key declined
Error opening SSH target
Exiting with error 1
```

**EXAMPLE 9** Downloading Public Key Attempted by Unauthorized User

```
XSCF> snapshot -t fakeuser@fakehost.com:/fakedir -p fake-password
Downloading Public Key from 'fakehost.com'...
Error downloading key for host 'fakehost.com'
Error opening SSH target
Exiting with error 1
```

**EXAMPLE 10** Downloading to External Media Device

```
XSCF> snapshot -d usb0 -r
Testing writability of USB device....SUCCESS
Ready to remove all files from device 'usb0'
Are you sure (yes/no) yes
Collecting data into /media/usb_msd/jupiter_10.1.1.1_2006-04-17T22-41-
51.zip
Data collection complete.
```

**EXAMPLE 11** Limiting Data Collection for Certain Logs to a Date Range

```
XSCF> snapshot -d usb0 -S 2007-01-01,01:00:00 -E 2007-01-31_14-
00-00
Testing writability of USB device....SUCCESS
Collecting data into /media/usb_msd/jupiter_10.1.1.1_2006-04-17T22-41-
51.zip
Data collection complete.
```

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

**SEE ALSO**

**setarchiving (8), showarchiving (8), showlogs (8)**

snapshot(8)

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|-----------|------------------------------------------------|------------|-------------------------------------------------|
| NAME        | switchscf - switch the XSCF unit between the active and standby states                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| SYNOPSIS    | <b>switchscf</b> -t {Active   Standby} [-f]<br><br><b>switchscf</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| DESCRIPTION | <p>The <b>switchscf(8)</b> command switches the XSCF unit that the user is currently logged in to, between the active and standby states.</p> <p>If the XSCF unit is duplicated configuration, the <b>switchscf(8)</b> command can be executed. When the active XSCF unit currently logged in to is switched from active to standby or vice versa, the state of the standby XSCF unit is also switched.</p> <p><b>Note</b> – Usually, XSCFs cannot be switched while maintenance work is in progress. If "Switching of XSCF state is disabled due to a maintenance operation. Try again later." is displayed as a result from the <b>switchscf(8)</b> command and XSCFs cannot be switched, check whether the <b>addfru(8)</b>, <b>deletefru(8)</b>, <b>replacefru(8)</b>, or <b>flashupdate(8)</b> maintenance command is being executed. If the command is being executed, wait until the command ends. If XSCFs cannot be switched though none of those maintenance commands is being executed, use the <b>-f</b> option to switch them.</p> |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| Privileges  | <p>You must have <b>platadm</b> or <b>fieldeng</b> privileges to run this command.</p> <p>Refer to <b>setprivileges(8)</b> for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-f</td><td>Switches the state in a case XSCF state can't be changed due to a maintenance operation.</td></tr><tr><td></td><td><b>Note</b> – Since the <b>-f</b> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-t Active</td><td>Switches the state of the XSCF unit to active.</td></tr><tr><td>-t Standby</td><td>Switches the state of the XSCF unit to standby.</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                             | -f | Switches the state in a case XSCF state can't be changed due to a maintenance operation. |  | <b>Note</b> – Since the <b>-f</b> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations. | -h | Displays usage statement. When used with other options or operands, an error occurs. | -t Active | Switches the state of the XSCF unit to active. | -t Standby | Switches the state of the XSCF unit to standby. |
| -f          | Switches the state in a case XSCF state can't be changed due to a maintenance operation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
|             | <b>Note</b> – Since the <b>-f</b> option forcibly switches XSCF, limit the use of this option to such cases as when switching does not work in normal operations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| -t Active   | Switches the state of the XSCF unit to active.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| -t Standby  | Switches the state of the XSCF unit to standby.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |
| EXAMPLES    | <p><b>EXAMPLE 1</b> Switches the state of the XSCF unit that the user is currently logged in to, to standby.</p> <pre>XSCF&gt; <b>switchscf -t Standby</b></pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                          |  |                                                                                                                                                                   |    |                                                                                      |           |                                                |            |                                                 |

**EXIT STATUS**

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |



|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------|-----|------------------|-----|---------|----|------------------------------------------------|----|-------------------------------------------------------|----|---------------------------------------------------|----|-------------------------------------------------|
| NAME                 | testsb - perform an initial diagnosis of the specified physical system board (PSB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| SYNOPSIS             | <p><b>testsb</b> [ [-q] [-y n]] [-m diag=<i>mode</i>] <i>location</i></p> <p><b>testsb</b> -v [ -y n] [-m diag=<i>mode</i>] <i>location</i></p> <p><b>testsb</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| DESCRIPTION          | <p>testsb(8) command performs an initial diagnosis of the specified PSB.</p> <p>The configuration of the PSB and operation of each device mounted on the PSB are checked. After the diagnostics, the result is displayed. The PSB must not be configured in the domain, or the domain in which the PSB configured must be powered off.</p> <p>The result also can be seen in 'Test' and 'Fault' displayed by showboards(8) command.</p>                                                                                                                                                                                                                                                                                                                    |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| Privileges           | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| OPTIONS              | <p>The following options are supported:.</p> <table> <tr> <td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr> <tr> <td>-m diag=<i>mode</i></td><td>Specifies the diagnostic level of initial diagnosis. One of the values shown below can be specified:</td></tr> <tr> <td>min</td><td>Normal (default)</td></tr> <tr> <td>max</td><td>Maximum</td></tr> <tr> <td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr> <tr> <td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr> <tr> <td>-v</td><td>Displays a detailed message of initial diagnosis.</td></tr> <tr> <td>-y</td><td>Automatically answers 'y' (yes) to all prompts.</td></tr> </table> | -h              | Displays usage statement. When used with other options or operands, an error occurs. | -m diag= <i>mode</i> | Specifies the diagnostic level of initial diagnosis. One of the values shown below can be specified: | min | Normal (default) | max | Maximum | -n | Automatically answers 'n' (no) to all prompts. | -q | Suppresses all messages to stdout, including prompts. | -v | Displays a detailed message of initial diagnosis. | -y | Automatically answers 'y' (yes) to all prompts. |
| -h                   | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| -m diag= <i>mode</i> | Specifies the diagnostic level of initial diagnosis. One of the values shown below can be specified:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| min                  | Normal (default)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| max                  | Maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| -n                   | Automatically answers 'n' (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| -q                   | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| -v                   | Displays a detailed message of initial diagnosis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| -y                   | Automatically answers 'y' (yes) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| OPERANDS             | <p>The following operand is supported:</p> <table> <tr> <td><i>location</i></td><td>Specifies only one PSB number. An integer from 00–15 can be specified.</td></tr> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <i>location</i> | Specifies only one PSB number. An integer from 00–15 can be specified.               |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| <i>location</i>      | Specifies only one PSB number. An integer from 00–15 can be specified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |
| EXTENDED DESCRIPTION | <ul style="list-style-type: none"> <li>■ When the system board (XSB: eXtended System Board) belonging to the specified PSB is in any status below, the testsb(8) command results in an error. <ul style="list-style-type: none"> <li>■ XSB is installed in the domain and this domain is in operation.</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              |                 |                                                                                      |                      |                                                                                                      |     |                  |     |         |    |                                                |    |                                                       |    |                                                   |    |                                                 |

- XSB is installed in the domain and this domain is in OpenBoot PROM (ok> prompt) status.
- XSB is installed in the domain and this domain is power ON status, power OFF status, or reset status.
- The addboard(8), deleteboard(8), or moveboard(8) command is executed for XSB.
- The displayed diagnostic results of the testsb(8) command are as follows:

|       |                                                                                                                                                          |                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| XSB   | XSB numbers belonging to the specified PSBs. One XSB number is displayed for the Uni-XSB type, and four XSB numbers are displayed for the Quad-XSB type. |                                                                                                      |
| Test  | Status of the initial diagnosis of XSBs. One of the following status values is displayed:                                                                |                                                                                                      |
|       | Unmount                                                                                                                                                  | No XSB could be recognized because no XSB is mounted or because an error occurred.                   |
|       | Unknown                                                                                                                                                  | Not tested.                                                                                          |
|       | Testing                                                                                                                                                  | Initial diagnosis is in progress.                                                                    |
|       | Passed                                                                                                                                                   | Initial diagnosis ended normally.                                                                    |
|       | Failed                                                                                                                                                   | An error was detected during the initial diagnosis. An XSB cannot be used or is in a degraded state. |
| Fault | XSB error. One or more states are displayed:                                                                                                             |                                                                                                      |
|       | Normal                                                                                                                                                   | Normal state.                                                                                        |
|       | Degraded                                                                                                                                                 | One or more components are degraded. Each XSB can operate.                                           |
|       | Faulted                                                                                                                                                  | An XSB cannot operate because an error occurred.                                                     |

EXAMPLES

**EXAMPLE 1** Performs the initial diagnosis on PSB#00.

```
XSCF> testsb 0
Initial diagnosis is about to start. Continue? [y|n] : y
Initial diagnosis is executing.
Initial diagnosis has completed.
XSB Test Fault
---- -
00-0 Passed Normal
00-1 Passed Normal
00-2 Passed Normal
00-3 Passed Normal
```

**EXAMPLE 2** Performs an initial diagnosis of PSB#01 with detailed messages displayed.

```
XSCF> testsb -v 1
Initial diagnosis is about to start. Continue? [y|n] : y
SB#01 powered on sequence started.
:
:
XSB Test Fault

01-0 Passed Normal
```

**EXIT STATUS** The following exit values are returned:

- 0 Successful completion.
- >0 An error occurred.

**SEE ALSO** `addfru(8)`, `deletefru(8)`, `replacefru(8)`, `setupfru(8)`, `showboards(8)`, `showfru(8)`

testsb(8)

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------|----|------------------------------------------------|----|-------------------------------------------------------|----|-------------------------------------------------|
| NAME        | unlockmaintenance - forcibly release the locked status of XSCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| SYNOPSIS    | <b>unlockmaintenance</b> [ [-q] -{y n}]<br><b>unlockmaintenance</b> -h                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| DESCRIPTION | <p>unlockmaintenance(8) command releases the locked status of XSCF forcibly.</p> <p>Normally, while the maintenance command addfru(8), deletefru(8), or replacefru(8) is in execution, XSCF is in the locked status. After the command complete, the lock is released. However, in case an error such as LAN disconnection occurred while executing any of the maintenance command, the XSCF lock may become unable to release. In such a case, you can execute the unlockmaintenance(8) command to forcibly release the locked status of XSCF.</p> |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| Privileges  | <p>You must have fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| OPTIONS     | <p>The following options are supported:</p> <table><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-n</td><td>Automatically answers 'n' (no) to all prompts.</td></tr><tr><td>-q</td><td>Suppresses all messages to stdout, including prompts.</td></tr><tr><td>-y</td><td>Automatically answers 'y' (yes) to all prompts.</td></tr></table>                                                                                                                               | -h | Displays usage statement. When used with other options or operands, an error occurs. | -n | Automatically answers 'n' (no) to all prompts. | -q | Suppresses all messages to stdout, including prompts. | -y | Automatically answers 'y' (yes) to all prompts. |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -n          | Automatically answers 'n' (no) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -q          | Suppresses all messages to stdout, including prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| -y          | Automatically answers 'y' (yes) to all prompts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |
| EXAMPLES    | <p><b>EXAMPLE 1</b> Unlocks the maintenance lock status.</p> <pre>XSCF&gt; <b>unlockmaintenance</b><br/>This command unlocks the maintenance lock which prevents the multiple<br/>execution of maintenance commands.<br/>*Never* use this command, except when the lock state remains by some<br/>reason.<br/>Careless execution of this command causes serious situation because it<br/>interrupts the running command and XSCF might not be able to recognize the<br/>parts.<br/>Continue? [y n] :</pre>                                          |    |                                                                                      |    |                                                |    |                                                       |    |                                                 |

**EXAMPLE 2** Unlocks the maintenance lock status. Automatically answers "y" to all prompts.

```
XSCF> unlockmaintenance -y
This command unlocks the maintenance lock which prevents the multiple
execution of maintenance commands.
Never use this command, except when the lock state remains by some
reason.
Careless execution of this command causes serious situation because it
interrupts the running command and XSCF might not be able to recognize the
parts.
Continue? [y|n] :y
```

**EXAMPLE 3** Unlocks the maintenance lock status. Automatically answers "y" to all prompts.

```
XSCF> unlockmaintenance -q -y
XSCF>
```

**EXAMPLE 4** Cancels the unlockmaintenance command execution that is in progress. Automatically answers "n" to all prompts.

```
XSCF> unlockmaintenance -n
This command unlocks the maintenance lock which prevents the multiple
execution of maintenance commands.
Never use this command, except when the lock state remains by some
reason.
Careless execution of this command causes serious situation because it
interrupts the running command and XSCF might not be able to recognize the
parts.
Continue? [y|n] :n
```

**EXAMPLE 5** Cancels the unlockmaintenance command execution that is in progress. Automatically answers "n" to all prompts.

```
XSCF> unlockmaintenance -q -n
XSCF>
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |

## SEE ALSO

**addfru (8), deletefru (8), replacefru (8)**

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------------------------------------------------------------|--------|-------------------------------------------------|---------|----------------------------------------|----|--------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------------------------------------------------|
| NAME        | version - display firmware version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| SYNOPSIS    | <p><b>version</b> -c xcp [-v] [-t]</p> <p><b>version</b> -c {cmu   xscf} [-v]</p> <p><b>version</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| DESCRIPTION | <p>The version(8) command displays firmware version.</p> <p>The following versions can be displayed:</p> <table><tr><td>xcp</td><td>The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system.</td></tr><tr><td>cmu</td><td>The version of OpenBoot PROM firmware.</td></tr><tr><td>xscf</td><td>The version of XSCF firmware.</td></tr></table>                                                                                                                                                                                                                                                                                                              | xcp    | The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system. | cmu    | The version of OpenBoot PROM firmware.          | xscf    | The version of XSCF firmware.          |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| xcp         | The comprehensive version of the XSCF control package (XCP) firmware currently applied to the system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| cmu         | The version of OpenBoot PROM firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| xscf        | The version of XSCF firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| Privileges  | <p>You must have platadm or fieldeng privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| OPTIONS     | <p>The following options are supported:.</p> <table><tr><td>-c xcp</td><td>Displays the XCP version.</td></tr><tr><td>-c cmu</td><td>Displays the version of OpenBoot PROM firmware.</td></tr><tr><td>-c xscf</td><td>Displays the version of XSCF firmware.</td></tr><tr><td>-h</td><td>Displays usage statement. When used with other options or operands, an error occurs.</td></tr><tr><td>-t</td><td>Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp".</td></tr><tr><td>-v</td><td>Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information.</td></tr></table> | -c xcp | Displays the XCP version.                                                                             | -c cmu | Displays the version of OpenBoot PROM firmware. | -c xscf | Displays the version of XSCF firmware. | -h | Displays usage statement. When used with other options or operands, an error occurs. | -t | Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp". | -v | Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information. |
| -c xcp      | Displays the XCP version.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -c cmu      | Displays the version of OpenBoot PROM firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -c xscf     | Displays the version of XSCF firmware.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -h          | Displays usage statement. When used with other options or operands, an error occurs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -t          | Displays information of the XCP version that is registered in the XSCF. This option is used together with "-c xcp".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| -v          | Displays detailed information. Specifying this option with "-c xscf" displays the same information as the usual information.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |
| EXAMPLES    | <p><b>EXAMPLE 1</b> Displays the XCP version.</p> <pre>XSCF&gt; <b>version -c xcp</b> XSCF#0 (Active) XCP0 (Current): 1020 XCP1 (Reserve): 1020 XSCF#1 (Standby) XCP0 (Current): 1020 XCP1 (Reserve): 1020</pre>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                                                       |        |                                                 |         |                                        |    |                                                                                      |    |                                                                                                                     |    |                                                                                                                              |

**EXAMPLE 2** Displays the details of the XCP version.

```
XSCF> version -c xcp -v
XSCF#0 (Active)
XCP0 (Current): 1020
OpenBoot PROM : 01.01.0001
SCF : 01.01.0001
XCP1 (Reserve): 1020
OpenBoot PROM : 01.01.0001
OpenBoot PROM BACKUP
#0: 01.01.0001
#1: 01.02.0001
XSCF#1 (Standby)
XCP0 (Current): 1020
OpenBoot PROM : 01.01.0001
SCF : 01.01.0001
XCP1 (Reserve): 1020
OpenBoot PROM : 01.01.0001
SCF : 01.01.0001
OpenBoot PROM BACKUP
#0: 01.01.0001
#1: 01.02.0001
```

**EXAMPLE 3** Displays the XCP version that is registered in the XSCF.

```
XSCF> version -c xcp -t
XCP: 1020
```

**EXAMPLE 4** Displays the details of the XCP version that is registered in the XSCF.

```
XSCF> version -c xcp -v -t
XCP : 1020
OpenBoot PROM: 01.01.0001
SCF : 01.01.0001
```

**EXAMPLE 5** Displays the version of OpenBoot PROM firmware.

```
XSCF> version -c cmu
DomainID 00 : 01.01.0001
DomainID 01 : 01.01.0001
DomainID 02 : 01.01.0001
DomainID 03 : 01.01.0001
:
DomainID 23: 01.01.0001
```



**EXAMPLE 6** Displays the detailed version of OpenBoot PROM firmware.

```
XSCF> version -c cmu -v
DomainID 00 : 01.01.0001
DomainID 01 : 01.01.0001
DomainID 02 : 01.01.0001
DomainID 03 : 01.01.0001
:
DomainID 23: 01.01.0001

XSB#00-0 : 01.01.0001 (Current), 01.01.0001 (Reserve)
XSB#00-1 : 01.01.0001 (Reserve), 01.01.0001 (Current)
XSB#00-2 : 01.01.0001 (Current), 01.01.0001 (Reserve)
XSB#00-3 : 01.01.0001 (Current), 01.01.0001 (Reserve)
:
XSB#15-3 : 01.01.0001 (Current), 01.01.0001 (Reserve)
```

**EXAMPLE 7** Displays the version of XSCF firmware.

```
XSCF> version -c xscf
XSCF#0 (Active) 01.01.0001 (Current), 01.01.0001 (Reserve)
XSCF#1 (Standby) 01.01.0001 (Current), 01.01.0001 (Reserve)
```

## EXIT STATUS

The following exit values are returned:

|    |                        |
|----|------------------------|
| 0  | Successful completion. |
| >0 | An error occurred.     |



|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | viewaudit - display audit records                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| SYNOPSIS    | <p><b>viewaudit</b></p> <p><b>viewaudit</b> [-A <i>date-time</i>] [-B <i>date-time</i>] [-c <i>classes</i>] [-D <i>date-time</i>] [-e <i>events</i>] [-i <i>audit-ids</i>] [-l] [-m <i>del</i>] [-n] [-p <i>privilege-results</i>] [-r <i>return-values</i>] [-u <i>users</i>] [-x]</p> <p><b>viewaudit</b> -h</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| DESCRIPTION | <p>viewaudit(8) displays audit records. When invoked without options, viewaudit displays all current local audit records. When invoked with options, viewaudit displays only the selected records. By default, records are displayed in text format, one token per line, with a comma as the field separator. The output can be modified using the -l, -m <i>del</i>, -n, or -x option.</p>                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Privileges  | <p>You must have auditadm or auditop privileges to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| OPTIONS     | <p>The following options are supported:</p> <p>-A <i>date-time</i>                      Selects records that occurred at or after <i>date-time</i>. The <i>date-time</i> argument is in local time. the -A and -B options can be used together to form a range. Valid values for <i>date-time</i> are:</p> <ul style="list-style-type: none"> <li>■ Absolute <i>date-time</i> : <i>yyyymmdd[hh[mm[ss]]]</i></li> </ul> <p>where:</p> <ul style="list-style-type: none"> <li>■ <i>yyyy</i> = year (1970 is the earliest valid value)</li> <li>■ <i>mm</i> = month (01–12)</li> <li>■ <i>dd</i> = day (01–31)</li> <li>■ <i>hh</i> = hour (00–23)</li> <li>■ <i>mm</i> = minutes (00–59)</li> <li>■ <i>ss</i> = seconds (00–59)</li> </ul> <p>The default value is 00 for <i>hh</i>, <i>mm</i>, and <i>ss</i>.</p> |

-B *date-time*

Selects records that occurred before *date-time*. The *date-time* argument is in local time. the -A and -B options can be used together to form a range. Valid values for *date-time* are either absolute or offset:

- Absolute *date-time* : *yyyymmdd[hh[mm[ss]]]*

where:

- *yyyy* = year (1970 is the earliest valid value)
- *mm* = month (01-12)
- *dd* = day (01-31)
- *hh* = hour (00-23)
- *mm* = minutes (00-59)
- *ss* = seconds (00-59)

- Offset *date-time*: *+n d|h|m|s*

where:

- *n* = number of units
- *d* = days
- *h* = hours
- *m* = minutes
- *s* = seconds

Offset is only available with the -B option and must be used with -A.

(The default value is 00 for *hh*, *mm* and *ss*.)

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------|---------------|----------------------|----------------|------------------------------|---------------|----------------------|----------------|-----------------------|--------------|--------------------------------|----------------|-------------------------------|------------------|------------------------------------|-----------------|------------------------|
| <code>-c classes</code>   | <p>Selects records in indicated classes. <i>classes</i> is a comma-separated list of audit classes. A class may be specified by its numeric value or its name. The ACS_ prefix may be omitted. For example, the class of audit related events can be expressed as ACS_AUDIT, AUDIT or 2.</p> <p>The following are valid classes:</p> <table> <tr> <td>all</td><td>Denotes all classes.</td></tr> <tr> <td>ACS_LOGIN (0)</td><td>Login-related events</td></tr> <tr> <td>ACS_CONFIG (1)</td><td>Configuration-related events</td></tr> <tr> <td>ACS_AUDIT (2)</td><td>Audit-related events</td></tr> <tr> <td>ACS_DOMAIN (3)</td><td>Domain-related events</td></tr> <tr> <td>ACS_USER (4)</td><td>User management-related events</td></tr> <tr> <td>ACS_STATUS (5)</td><td>Status inquiry-related events</td></tr> <tr> <td>ACS_PLATFORM (6)</td><td>Platform management-related events</td></tr> <tr> <td>ACS_SERVICE (7)</td><td>Service-related events</td></tr> </table> | all | Denotes all classes. | ACS_LOGIN (0) | Login-related events | ACS_CONFIG (1) | Configuration-related events | ACS_AUDIT (2) | Audit-related events | ACS_DOMAIN (3) | Domain-related events | ACS_USER (4) | User management-related events | ACS_STATUS (5) | Status inquiry-related events | ACS_PLATFORM (6) | Platform management-related events | ACS_SERVICE (7) | Service-related events |
| all                       | Denotes all classes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_LOGIN (0)             | Login-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_CONFIG (1)            | Configuration-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_AUDIT (2)             | Audit-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_DOMAIN (3)            | Domain-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_USER (4)              | User management-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_STATUS (5)            | Status inquiry-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_PLATFORM (6)          | Platform management-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| ACS_SERVICE (7)           | Service-related events                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| <code>-D date-time</code> | <p>Selects records that occurred on a specific day (a 24-hour period beginning at 00:00:00 of the day specified and ending at 23:59:59). The day specified is in local time in the following format: <i>yyyymmddhhmmss</i> (year,month,day, hour,minute,second). The time portion of the argument, if supplied, is ignored. Any records with timestamps during that day are selected. If any hours, minutes, or seconds are given, they are ignored. <code>-D</code> cannot be used with <code>-A</code> or <code>-B</code>.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| <code>-e events</code>    | <p>Selects records of the indicated events. <i>events</i> is a comma-separated list of audit events. An event may be specified by its numeric value or its name. The AEV_ prefix may be omitted. For example, the event for SSH login can be expressed as AEV_LOGIN_SSH, LOGIN_SSH or 4.</p> <p>See <code>showaudit -e all</code> for a list of valid events.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |
| <code>-h</code>           | <p>Displays usage statement.</p> <p>When used with other options or operands, an error occurs.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |     |                      |               |                      |                |                              |               |                      |                |                       |              |                                |                |                               |                  |                                    |                 |                        |

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <code>-i <i>audit-ids</i></code>         | <p>Selects records of the indicated audit session identifier. If you become interested in activity reflected in a particular audit record, you might wish to view all the audit records for that session. An <i>audit-id</i> is not persistent and can be reassigned across reboots of the Service Processor. <i>audit-ids</i> is a comma-separated list of audit session identifiers. The <i>audit-id</i> is the number following the label subject in an audit file.</p> <p>For example, in the following listing, the <i>audit-id</i> is 1 (shown in boldface for emphasis).</p> <pre>subject,1,bob,normal,telnet 45880 jupiter</pre> |
| <code>-l</code>                          | Prints one line per record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <code>-m <i>del</i></code>               | Uses <i>del</i> as the field delimiter instead of the default delimiter, which is the comma. If <i>del</i> has special meaning for the shell, it must be quoted. The maximum size of a delimiter is three characters. The delimiter is not meaningful and is not used with the <code>-x</code> option.                                                                                                                                                                                                                                                                                                                                   |
| <code>-n</code>                          | Specifies that UIDs and IP addresses should not be converted to user names or host names.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <code>-p <i>privilege-results</i></code> | Select records according to the indicated <i>privilege-results</i> . <i>privilege-results</i> is a comma-separated list. <i>privilege-results</i> are: granted, denied, or error.                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <code>-r <i>return-values</i></code>     | Selects records according to the indicated return values. <i>returnvals</i> is a comma-separated list of the values: success, or failure. success corresponds to a return value of 0. failure corresponds to a nonzero return value.                                                                                                                                                                                                                                                                                                                                                                                                     |
| <code>-u <i>users</i></code>             | Selects records attributed to indicated users. <i>users</i> is a comma-separated list of users. A user can be specified by user name or numeric UID.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <code>-x</code>                          | Prints in XML format.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## EXAMPLES

### EXAMPLE 1 Displaying Audit Records for December 12, 2005

```
XSCF> viewaudit -D 20051212
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
```

**EXAMPLE 2** Displaying User Audit Records

```
XSCF> viewaudit -u jsmith
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
```

**EXAMPLE 3** Displaying Audit Records for Privileges

```
XSCF> viewaudit -p granted
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
```

**EXAMPLE 4** Displaying Audit Records for Successful Access

```
XSCF> viewaudit -r success
```

```
file,1,2006-01-11 10:52:30.391 -05:00,20060111155230.0000000000.jupiter
header,37,1,login - telnet,jupiter,2006-01-11 11:31:09.659 -05:00
subject,1,jsmith,normal,ssh 45880 jupiter
command,showuser
platform access,granted
return,0
header,57,1,command - viewaudit,jupiter.company.com,2006-01-26
16:13:09.128 -05:00
subject,5,sue,normal,ssh 1282 saturn
command,viewaudit
platform access,granted
return,0
...
```

**EXAMPLE 5** Displaying Audit Records Within a Range of Two Days

```

XSCF> viewaudit -A 20060125 -B +2d
file,1,2006-01-26 16:11:52.785 -
05:00,20060126211152.0000000000.jupiter.west.company.com
subject,1,jsmith,normal,ssh 51409 jupiter.west
header,56,1,command - showldap,jupiter.west,2006-01-27 21:15:12.416 -
05:00
subject,4,jblake,normal,telnet 51409 srl.company.com
command,showldap
platform access,granted
return,0
subject,7,bob,normal,ssh 40952 mars.com
header,57,1,command - viewaudit,mars.company.com,2006-01-26 16:12:16.127
-05:00
subject,0,opl,normal,ssh 40952 apps
command,viewaudit
platform access,denied

```

**EXIT STATUS**

The following exit values are returned:

0                      Successful completion.  
 >0                    An error occurred.

**SEE ALSO**

**setaudit(8)**, **showaudit(8)**



|             |                                                                                                                                                                                                                                                                                                       |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAME        | who - display a list of the user accounts who are logged in to the XSCF                                                                                                                                                                                                                               |
| SYNOPSIS    | <b>who</b><br><b>who -h</b>                                                                                                                                                                                                                                                                           |
| DESCRIPTION | <p>who(1) displays a list of the user accounts who are logged in to the XSCF.</p> <p>The following information is displayed:</p> <ul style="list-style-type: none"><li>■ XSCF user account name</li><li>■ Terminal used</li><li>■ Idle time</li><li>■ Login time</li><li>■ Remote host name</li></ul> |
| Privileges  | <p>No privileges are required to run this command.</p> <p>Refer to setprivileges(8) for more information.</p>                                                                                                                                                                                         |
| OPTIONS     | <p>The following option is supported:</p> <p>-h                      Displays usage statement.</p>                                                                                                                                                                                                    |
| EXAMPLES    | <p><b>EXAMPLE 1</b>    Displays a list of the user accounts who are logged in to the XSCF.</p> <pre>XSCF&gt; who USER      TTY      IDLE      FROM      HOST scf       pts/0    00:00m    Dec 21 13:57  JJJJ.ggg.fujitsu.com</pre>                                                                    |
| EXIT STATUS | <p>The following exit values are returned:</p> <p>0                      Successful completion.</p> <p>&gt;0                     An error occurred.</p>                                                                                                                                               |

who(1)



