



Sun Fire™ Entry-Level Midrange System Controller Command Reference Manual

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Preface

This book describes how to use the System Controller command line interface, which controls the system functions and provides environmental monitoring and hardware control. With the System Controller software, you can power on and off boards, power supplies, fans, and other components.

Before You Read This Book

This book is for system administrators, who have a working knowledge of the Solaris™ operating environment. If you do not have such knowledge, you should first read the Solaris User and System Administrator AnswerBooks and consider UNIX® system administration training.

How This Book Is Organized

This book provides a summary of all of the System Controller commands designed for an end user. It also provides complete descriptions of each command in alphabetic order, command syntax, and examples of command output.

Typographic Conventions

Typeface ¹	Meaning	Examples
AaBbCc123	The names of commands, files, and directories; on-screen computer output	Edit your <code>.login</code> file. Use <code>ls -a</code> to list all files. % You have mail.
AaBbCc123	What you type, when contrasted with on-screen computer output	% su Password:
<i>AaBbCc123</i>	Book titles, new words or terms, words to be emphasized. Replace command-line variables with real names or values.	Read Chapter 6 in the <i>User's Guide</i> . These are called <i>class</i> options. You <i>must</i> be superuser to do this. To delete a file, type <code>rm filename</code> .

¹ The settings on your browser might differ from these settings.

Shell Prompts

Shell	Prompt
C shell	<i>machine_name</i> %
C shell superuser	<i>machine_name</i> #
Bourne shell and Korn shell	\$
Bourne shell and Korn shell superuser	#
LOM shell	lom>

Related Documentation

TABLE P-1 Related Documentation

Application	Title	Part Number
System Administration	<i>Sun Fire Entry-Level Midrange System Administration Guide</i>	817-5233-10

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Alphabetic Command Reference

This section provides in tabular form a summary of all of the System Controller commands designed for an end user of entry-level midrange systems (Sun Fire™ E2900/V1280/Netra 1280) and provides complete descriptions, command syntax, and examples of each System Controller command.

System Controller Command Summary

TABLE 1 lists and describes the System Controller commands and how you can access them.

TABLE 1 System Controller Command Summary

Command	Description
bootmode	Configure the way Solaris boots at the next reboot.
break	Sends a Break signal to the console.
console	Opens a console connection.
disablecomponent	Deprecated starting with the 5.17.0 release. Replaced by the <code>setls</code> command.
enablecomponent	Deprecated starting with the 5.17.0 release. Replaced by the <code>setls</code> command.
flashupdate	Updates the flash PROMs.
help	Provides basic help information.
history	Shows the command history along with date and time stamps.
inventory	Shows the SEEPROM contents of a FRU or system.
logout	Log out from this connection.

TABLE 1 System Controller Command Summary *(Continued)*

Command	Description
password	Sets the LOM access password.
poweroff	Powers off system or components.
poweron	Powers on system or components.
reset	Resets the system.
resetsc	Resets the System Controller (LOM).
setalarm	Sets system alarms.
setdate	Sets the time, date, and time zone for the System Controller.
setescape	Sets LOM escape characters.
seteventreporting	Sets event reporting.
setlocator	Sets locator light.
setls	Sets the component location status. Replaces <code>enablecomponent</code> and <code>disablecomponent</code> commands starting with the 5.17.0 release.
setupnetwork	Sets up LOM network settings.
setupsc	Configures the System Controller (LOM)
showalarm	Displays state of system alarms LEDs.
showboards	Lists status and assignment information for boards in the system.
showcomponent	Displays a component or a list of components.
showdate	Displays the time and date.
showenvironment	Displays the current environmental status, temperatures, currents, voltages, fan speeds, and so on.
showerrorbuffer	Shows the contents of the error buffer.
showescape	Displays LOM escape characters.
showeventreporting	Displays event reporting status.
showfault	Displays state of system fault LED.
showhostname	Displays the hostname.
showlocator	Displays state of system locator LED.
showlogs	Shows the logs.
showmodel	Displays the platform model.
shownetwork	Displays LOM network settings.
showresetstate	Displays the CPU registers after a reset.

TABLE 1 System Controller Command Summary (Continued)

Command	Description
showsc	Displays the System Controller uptime and version information.
shutdown	Shuts down Solaris and takes the system to standby mode.
testboard	Tests the CPU/Memory board in isolation.

FRU State and Test Status

TABLE 2 and TABLE 3 describe the FRU states and the current test status.

TABLE 2 FRU States

Value	Definition
Disabled	The FRU has been blacklisted (RPX only).
Assigned	The FRU is assigned to the system.
Active	The FRU is in use by the system
Auto Speed	The fans run at thermally regulated speed (FT0 only).
High Speed	The fans run at maximum speed (FT0 only).
Unknown Speed	The fans run at unknown speed (FT0 only).
Main	The FRU is the Main System Controller (SSC1 only).
Unknown	The FRU State is unknown.
-	The FRU State is not relevant.

TABLE 3 Test Status

Test Status	Description
Passed/OK	All board components passed all tests.
Degraded	A test failed, a failure occurred during normal operation, or a component has been disabled. The board is still accessible and some of its devices can still be used.
Disabled	The FRU has been blacklisted.
Failed	The board failed a test.

TABLE 3 Test Status

Test Status	Description
Under Test	The system is running POST (power-on self-test). The board status is transitioning between Assigned and Active.
Not Tested	No testing has been done.
-	The slot is empty or not tested. Not applicable for this device.

Alphabetical Listing of System Controller Commands

The following sections describe the System Controller commands.

bootmode

Configure the way Solaris boots at the next reboot.

Syntax

```
bootmode normal
```

```
bootmode [diag|skipdiag] [forth] [reset_nvram]
```

```
bootmode -h
```

Option Parameters

`-h` displays help for this command

`normal` Instructs the OpenBoot PROM on the next reboot to boot the system using the values held in the OBP variables `verbosity-level` and `diag-level`. This value also clears any previously requested `bootmode` command that had not timed out.

`diag` Instructs the OpenBoot PROM on the next reboot to boot the system as if the CPU POST `verbosity-level` had been set to `max` and the `diag-level` to `max`. This ensures that the highest level of POST tests are run prior to Solaris booting.

`skipdiag` Instructs the OpenBoot PROM on the next reboot to boot the system as if the CPU POST `verbosity-level` had been set to `min` and the `diag-level` to `init`. This causes the fastest POST pass prior to booting Solaris.

`forth` Instructs the OpenBoot PROM on the next reboot to stop at the `ok` prompt even if the OBP variable `auto-boot?` is set to `true`. This prevents automatic booting to Solaris for that boot attempt.

`reset_nvram` Instructs the OpenBoot PROM to reset its OBP NVRAM variables on the next reboot.

Description

Configures the way Solaris boots at the next reboot.

When a `bootmode` command is issued it sets a flag that is read by the OpenBoot PROM at the next Solaris reboot. If the system is not rebooted within 10 minutes the `bootmode` value is restored to `normal`. Once the system has been rebooted the `bootmode` value is also set to `normal`. When `bootmode` is set to `normal` the OBP values `verbosity-level` and `diag-level` are used directly by OBP to control the POST behavior at boot time.

See Also

reset, break, OBP setenv (verbosity-level, diag-level)

Example

```
lom>bootmode skipdiag
```

break

Send a break signal to the Solaris console.

Syntax

```
break [-y|-n]
```

```
break -h
```

Options/Parameters

-h displays help for this command.

-y does not prompt for confirmation.

-n does not execute the command if confirmation is requested.

Description

Sends a 30 ms Break signal to the Solaris console.

The Solaris console is resumed after sending the break signal. When the Solaris operating environment is running, and providing the system is not in secure mode, then the usual effect of this command is to force entry into the PROM or the debugger.

See Also

console, setupsc

Example

CODE EXAMPLE 1 Using the `break` Command to Drop the System From Running Solaris To the OpenBoot PROM

```
lom>break

This will suspend Solaris.
Do you want to continue? [no] y
Type 'go' to resume
{0} ok
```

console

Connect to the Solaris/OpenBoot PROM console.

Syntax

```
console
```

```
console -h
```

Options/Parameters

-h displays help for this command.

Description

If Solaris/OpenBoot PROM is booted, leave the `lom>` prompt and connect to the Solaris/OpenBoot PROM console. The system remains in console mode until the LOM escape sequence is typed.

Note – After issuing the `console` command (including its carriage return) note that no prompt is displayed until another carriage return is entered. If there is output being sent to the Solaris console at the time then this will continue immediately.

See Also

`setescape`, `showescape`

Example

```
lom>console
console login:
```

disablecomponent

The `disablecomponent` command has been deprecated starting with the 5.17.0 release and has been replaced by the `setls` command. It is suggested that you use the `setls` command even though the `disablecomponent` command is still available. For further information, see the `setls` command description.

enablecomponent

The `enablecomponent` command has been deprecated starting with the 5.17.0 release and has been replaced by the `setls` command. It is suggested that you use the `setls` command even though the `enablecomponent` command is still available. For further information, see the `setls` command description.

flashupdate

Update the flash PROMs in the System Controller, all the system boards, or a specified board number.

Syntax

```
flashupdate [-y|-n] -f <URL> all
flashupdate [-y|-n] -f <URL> systemboards|scapp|rtos|<board> ...
flashupdate [-y|-n] -u
flashupdate [-y|-n] -c <source_board> <destination_board>
flashupdate -h
```

Options/Parameters

- h displays help for this command.
 - y does not prompt for confirmation.
 - n does not execute the command if confirmation is requested.
 - f specify a URL as the source of the flash images:
 - <URL> is the URL of the directory containing the flash images. Supported protocols are:
 - `ftp://[userid:password@]hostname/path`
 - `http://hostname/path`
 - c specifies a board as the source of the flash images.
 - u upgrades boards to the current firmware level.
- `all` is the System Controller and all system boards.
- `scapp` is the System Controller. This requires the System Controller to be rebooted.
- `rtos` is the Real Time Operating System for the System Controller. This requires the System Controller to be rebooted.
- `systemboards` are all CPU/Memory boards and I/O assemblies, that is, SB0, SB2, SB4 and IB6.

When you flash update the System Controller, the command will give you the following message:

As part of this update, the system controller will automatically reboot.

ScApp will be upgraded automatically during the next boot.

Rebooting will interrupt any current operations.

This includes keyswitch changes, Solaris reboots and all current connections.

Do you want to continue? [no]

Note – `flashupdate` cannot retrieve flash images from a secure (userid/password) protected HTTP URL. A message of the form `flashupdate: failed, URL does not contain required file: <file>` will be returned, although the file may exist.

Description

Updates the flash PROMs in the System Controller, all the system boards, or a specified board number.

The flash PROMs are located on the CPU/Memory boards, I/O assembly, and System Controller boards. There are no flash PROMs on the Repeater boards.

See Also

Sun Fire Entry-Level Midrange System Administration Guide (for step-by-step procedures on how to update the firmware).

Examples

Update the specified flash PROM in the I/O assembly:

CODE EXAMPLE 2 Using flashupdate to Update a Flash PROM in the I/O Assembly

```
lom>flashupdate -f ftp://host/path ib6
Waiting for critical processes to finish. This may take a while.
Critical processes have finished.

Retrieving: ftp://host/path/lw8pci.flash
Validating ..... Done

Programming PROM /N0/IB6/FP0
Erasing ..... Done
Programming ..... Done
Verifying ..... Done
```

Update CPU/Memory board sb0

```
lom>flashupdate ftp://host/path sb0
Waiting for critical processes to finish. This may take a while.
Critical processes have finished.

Retrieving: ftp://host/path/lw8cpu.flash
Validating ..... Done

Programming PROM /N0/SB0/FP0
Erasing ..... Done
Programming ..... Done
Verifying ..... Done

Programming PROM /N0/SB0/FP1
Erasing ..... Done
Programming ..... Done
Verifying ..... Done
lom>
```

Update the System Controller firmware:

```
lom>flashupdate -f ftp://host/path scapp
```

As part of this update, the system controller will automatically reboot.

ScApp will be upgraded automatically during the next boot.

Rebooting will interrupt any current operations.

This includes keyswitch changes, Solaris reboots
and all current connections.

Do you want to continue? [no]

help

Without arguments, list all available LOM commands. When an argument is supplied, display basic usage of the specified command and a short description.

Syntax

```
help [<command_name>]
```

```
help [<partial_command_name>]
```

```
help -h
```

Options/Parameters

-h displays help for this command.

<command_name> is the name of the LOM command.

<partial_command_name> can be one letter of the command or a portion of the command name, such as `show`.

Description

The `help` command, without arguments, lists all available LOM commands. When an argument is supplied, the `help` command displays basic usage of the specified command and a short description.

Examples

Display help information on the `setlocator` command:

```
lom>help setlocator

setlocator -- set the system locator led

Usage: setlocator on|off
       setlocator -h

-h -- display this help message

lom>
```

Display all commands beginning with `show`:

```
lom>help show
```

Display all commands beginning with the letter `b`:

```
lom>help b
```

history

Display the command history along with date and time stamps.

Syntax

```
history
```

```
history -h
```

Options/Parameters

-h displays help for this command.

Description

Shows the command history for the current connection, along with date and time stamps.

Example

CODE EXAMPLE 3 Using the history Command

```
lom>history
Nov 26 14:34:37 : showalarm 1
Nov 26 14:34:40 : showalarm 2
Nov 26 14:34:45 : showalarm system
Nov 26 14:40:01 : showeventreporting
Nov 26 15:06:00 : showfault
Nov 26 15:53:05 : shownetwork
Nov 26 16:15:32 : help setlocator
Nov 26 16:17:32 : history
```


inventory

Display SEEPROM contents of a FRU.

Syntax

```
inventory  
inventory [<board>]  
inventory -h
```

Options/Parameters

<board> is the name of a FRU.
-h displays help for this command.

Description

Shows the contents of a FRU SEEPROM.

Examples

To show all FRU SEEPROMs:

```
lom>inventory
```

```
lom>inventory PS1  
/N0/PS1: PS: 300-1523-01-02 serial# E00254 "Power Supply (A166,V1280)"  
      Made on Fri Nov 30 11:47:41 PST 2001 by 03ad at DELTAELECTRONICS CHUNGLI  
TAIWAN  
      Powered on for 87 days 12 hours 1 minute
```

logout

Log out from this connection.

Syntax

```
logout
```

```
logout -h
```

Options/Parameters

-h displays help for this command.

Description

Only one user can be logically connected to the system console or LOM prompt at any one time. If you wish to establish a connection through the System Controller network port then you must first make the connection available by logging out of the serial port connection. The same is also true if you are logged into the network port but wish to connect over the serial port.

Note – Typing another character on the serial port after logging out from the serial port is interpreted as an attempt to re-connect the connection.

Example

```
lom>logout
```

password

Set the password for the LOM.

Syntax

```
password
```

```
password -h
```

Options/Parameters

-h displays help for this command.

Description

Sets the password for establishing connections to the shared LOM/console port, and for other password-protected activities. Prior to allowing the password to be changed, the current password will be authenticated. Changed passwords take effect immediately. The old password will no longer be accepted.

You can remove the password by pressing Return at the `Enter new password` and `Enter new password again` prompts.

In the event that your password has been lost or forgotten, contact SunService for advice.

See Also

`setupsc`, `reset`, `break`, *Sun Fire Entry-Level Midrange System Administration Guide*.

Example

You will see the following display when you type the `password` command at the LOM shell.

CODE EXAMPLE 4 Using the password Command

```
lom>password
Enter current password:
Enter new password:
Enter new password again:
lom>
```

poweroff

Forcibly power off the whole system to standby, or a FRU, or a list of FRUs.

Syntax

```
poweroff
```

```
poweroff [-y|-n]
```

```
poweroff [-y|-n] <fru_name> [<fru_name>...]
```

```
poweroff -h
```

Options/Parameters

-h displays help for this command.

-y will answer *yes* to all questions. This option is potentially hazardous. You can forcefully power off a component with the -y option.

-n answers *no* to all questions. You cannot forcefully power off a component with the -n option.

<fru_name> is the name of an individual FRU.

Description

poweroff <fru_name> powers off a FRU or set of FRUs, which can be:

- Power supply (psx)
- System board (sbx, ibx, rpx)
- Fan tray (ft0)

poweroff without an argument explicitly terminates the Solaris system before proceeding to power off the FRUs. The power status of each board is displayed by the `showboards` output.

Note – In normal circumstances you should use the `shutdown` command.

See Also

poweron, shutdown

Examples

To power off CPU/Memory board sb2, type:

```
lom>poweroff sb2
```

To terminate and power off the entire system, type:

```
lom>poweroff
```

poweron

Power on the entire system, or a FRU, or a list of FRUs.

Syntax

```
poweron
```

```
poweron [all|<fru_name> [<fru_name>...]]
```

```
poweron -h
```

Options/Parameters

-y does not prompt for confirmation.

-n does not execute the command if confirmation is requested.

<fru_name> powers on a FRU or set of FRUs.

all powers on all FRUs but does not boot Solaris.

-h displays help for this command.

Description

`poweron` without an argument is the normal way to power on a system from standby and boot Solaris.

`poweron <fru_name>` powers on a FRU or set of FRUs, which can be:

- Power supply (*psx*)
- System board (*sbx*, *ibx*, *rpax*)
- Fan tray (*ft0*)

`poweron all` powers on all FRUs without booting Solaris. The power status of each board is displayed by the `showboards` output.

See Also

`shutdown`, `showboards`, `poweroff`

Examples

To power on and boot the entire system, type:

```
lom>poweron
```

To power on CPU/Memory board `sb2`, type:

```
l0m>poweron sb2
```

reset

Reset the Solaris system.

Syntax

```
reset [-x|-a] [-y|-n]
```

```
reset -h
```

Options/Parameters

- h displays help for this command.
- y does not prompt for confirmation.
- n does not execute the command if confirmation is requested.
- x forces the default behavior of `reset` via XIR (externally initiated reset).
- a resets all hardware. Skips externally initiated reset (XIR) data collection and will lose extra debugging data.

Note that typing `reset`, without options, is the same as `reset -x`.

Description

Resets the Solaris system. The operation is not allowed if the system is in secure mode or powered down to standby mode. The Solaris system console will be resumed after completing the reset.

By default, `reset` uses XIR (eXternally Initiated Reset) to reset the CPU processors in the Solaris system. The XIR forces control of the Solaris system into the OpenBoot PROM and begins the OpenBoot PROM's error reset recovery actions. The error reset recovery actions preserve most Solaris system states to allow the collection of the data needed for debugging the hardware and software, including a Solaris operating environment core file. The OpenBoot PROM's error reset recovery actions are controlled by setting the OpenBoot PROM `error-reset-recovery` configuration variable.

If the Solaris system is hard hung (you cannot log into the Solaris operating environment and typing the `break` command did not force control of the Solaris system back to the OpenBoot PROM `ok` prompt), after you type the `reset` command for the first time, you must next type `reset -a` in order to reset everything.

The `reset -a` command is equivalent to the OpenBoot PROM `reset-all` word.

See Also

`setupsc`, *Sun Fire Entry-Level Midrange System Administration Guide* (for step-by-step procedures on recovering from a hung or hard hung Solaris system).

Examples

To reset the Solaris system:

```
lom>reset
```

To reset everything (skips XIR data collection and you will lose extra debugging data):

```
lom>reset -a
```

Note – You will need to type `reset -a` if the Solaris system is hard hung and typing `reset` (without any options) failed.

resetsc

Reset the System Controller.

Syntax

```
resetsc [-y|-n]
```

```
resetsc -h
```

Options/Parameters

- h displays help for this command.
- y Do not prompt for confirmation.
- n Do not execute this command if confirmation is requested.

Description

Reboots the System Controller. System Controller log history will be lost.

Note – Do not use this command during any system-wide operational sequences, such as booting and shutting down.

See Also

flashupdate

Example

CODE EXAMPLE 5 Using the `resetsc` Command to Reset the System Controller

```
lom>resetsc -y
Are you sure you want to reboot the system controller now? yes (-y)
Waiting for critical processes to finish. This may take a while.
Critical processes have finished.

Rebooting. All telnet connections closed. Reestablish any needed connections.
Fri Dec 12 08:51:25 commando lom: Stopping all services on this SC
Fri Dec 12 08:51:25 commando lom: All services on this SC have been stopped.

Software Reset...

@(#) SYSTEM CONTROLLER(SC) POST 38 2003/11/18 21:21
```

CODE EXAMPLE 5 Using the `resetsc` Command to Reset the System Controller (*Continued*)

```
PSR = 0x044010e5
PCR = 0x04004000

        Memory size = 128MB

Basic sanity checks done.
Skipping POST ...
ERI Device Present
Getting MAC address for SSC1
Using SCC MAC address
MAC address is 0:3:ba:19:8b:92
Hostname: commando
Address: 129.xxx.xxx.xxx
Netmask: 255.255.255.0
Attached TCP/IP interface to eri unit 0
Attaching interface lo0...done
Gateway: 129.xxx.xxx.xxx
interrupt: 100 Mbps full duplex link up

        Copyright 2001-2004 Sun Microsystems, Inc. All rights reserved.
        Use is subject to license terms.

Sun Fire System Firmware
RTOS version: 38
ScApp version: 5.17.0 Build_02
SC POST diag level: off

The date is Friday, December 12, 2003, 8:52:42 AM PST.

Fri Dec 12 08:52:43 commando lom: Boot: ScApp 5.17.0, RTOS 38
Fri Dec 12 08:52:45 commando lom: SBBC Reset Reason(s): Peer Reset, Watchdog
Reset
Fri Dec 12 08:52:51 commando lom: Caching ID information
Fri Dec 12 08:52:52 commando lom: Clock Source: 75MHz
Fri Dec 12 08:52:57 commando lom: /N0/PS0: Status is OK
Fri Dec 12 08:52:58 commando lom: /N0/PS1: Status is OK
Fri Dec 12 08:52:58 commando lom: /N0/PS2: Status is OK
Fri Dec 12 08:52:59 commando lom: /N0/PS3: Status is OK
Fri Dec 12 08:52:59 commando lom: Chassis is in single partition mode.
Connected.
```

setalarm

Set the system alarm relays and associated LEDs.

Syntax

```
setalarm 1|2 on|off
```

```
setalarm -h
```

Options/Parameters

-h displays help for this command

1 specifies alarm number 1

2 specifies alarm number 2

on turns on the specified alarm relay and LED.

off turns off the specified alarm relay and LED.

Description

Sets the system alarm relays and associated LEDs.

See Also

showalarm

Examples

```
lom>setalarm 1 on
```

```
lom>setalarm 2 off
```

setdate

Set the date and time for the system.

Syntax

```
setdate [-v] [-t <time zone>] [<mmdd>]<HHMM>
```

```
setdate [-v] [-t <time zone>] <mmddHHMM>[[<cc>]<yy>]][.<SS>]
```

```
setdate [-v] -r <datehost>
```

```
setdate [-v] -t GMT<+|-><offset from GMT>
```

```
setdate -h
```

Options/Parameters

-h displays help for this command.

-v verbose mode.

-t <time zone> sets the time zone using the time zone abbreviation.

-t GMT<+|-><offset from GMT> sets the time to GMT plus the specified offset.

<mm> = month number

<dd> = day number in the month

<HH> = hour number (24-hour system)

<MM> = minute number

<cc> = first two digits of year number

<yy> = last two digits of the year number

<SS> = second number.

-r <datehost> Sets the date based on the current values of *datehost*. The host must be a valid system.

Note – For a full listing of all timezones, type `showdate -t -v`.

Description

Sets the date and time.

Note – Note that if your time zone area is using daylight or summer time, this is set automatically.

Note – If Solaris is running you must use the Solaris `date(1)` command.

See Also

showdate

Examples

To set the date and time to Thursday, April 20, 2000 at 18 hours 15 minutes and 10 seconds:

```
lom>setdate 042018152000.10
```

To set the date from the datehost system:

```
lom>setdate -r hostname
Mon Apr 03 09:30:58 PST 2000
```

To set the date and time to Thursday, April 20, 2000 at 18 hours 15 minutes and 10 seconds and the time zone to Eastern Standard Time (EST), using the time zone abbreviations, type:

```
lom>setdate -t EST 042018152000.10
```

To set just the time zone for the UK, type:

```
lom>setdate -t Europe/London
```

To set just the time zone for European Central Time using the time zone abbreviations and not the date and time, type:

```
l0m>setdate -t ECT
```

setescape

Set the sequence of characters used to switch from the Solaris or OpenBoot PROM console to the LOM prompt.

Syntax

```
setescape <escapechars>
```

```
setescape -h
```

Options/Parameters

-h displays help for this command.

<escapechars> Up to five alphanumeric characters can be specified as the escape sequence. The default sequence when the LOM is first started is a pound (#) followed by a period (.), that is, #.

Description

Sets the sequence of characters used to switch from the Solaris or OBP console to the LOM prompt.

If you are typing at the console and type the first character of the escape sequence (by default this is #), there is a one second delay before the character appears on the screen. This is because the system waits for one second to see if the next character in the escape sequence is about to be typed. If the next character is typed then the system waits up to one second for the next character and so on. If you type all the characters in the escape sequence then the `lom>` prompt appears. If you do not, then the characters belonging to the escape sequence that were typed are output to the screen.

It is recommended that you choose an escape sequence that does not start with a sequence of characters that is frequently typed at the console, otherwise the delay between your striking the keys and the character appearing on the screen may be confusing and affect your typing.

See Also

showescape

Examples

To set the escape characters to #. type:

```
lom>setescape "#."
```

Note – As # is the comment character for the LOM command shell the sequence must be enclosed in quotes.

To set the escape characters to ~~~. . type:

```
lom>setescape ~~~. .
```

seteventreporting

The `seteventreporting` command controls which messages are printed at the LOM prompt and the level of logged messages sent to Solaris.

Syntax

```
seteventreporting on [0|1|2|3|4]
seteventreporting off [0|1|2|3|4]
seteventreporting default [0|1|2|3|4]
seteventreporting -h
```

Options/Parameters

default By default the LOM software prints messages at the `lom>` prompt, but only when Solaris is not running. The Solaris software will print messages from the LOM as directed by the `syslogd` system log daemon configuration file `/etc/syslog.conf`.

on All messages are reported to the `lom>` prompt at the currently set reporting level and below.

off No messages are reported to the `lom>` prompt. Messages continue to be sent to Solaris at the current reporting level and below.

The reporting levels are:

- 0 no messages are reported
- 1 only fatal messages are reported
- 2 fatal and warning messages are reported
- 3 fatal, warning and notice messages are reported
- 4 does not currently have any significance, operates as level 3.

If not specified, the default reporting level is 3.

`-h` displays help for this command.

Description

The `seteventreporting` command controls which messages are printed at the LOM prompt and the level of logged messages sent to Solaris. The reporting level controls the level of message that is passed to Solaris whilst it is active, or later

retrieved when Solaris next boots. Regardless of the level setting, all messages appear in the System Controller internal log which is displayed using the `showlogs` command.

See Also

`showeventreporting`

Examples

To turn off event reporting at the LOM prompt:

```
lom>seteventreporting off
```

To set default messaging handling at the LOM prompt:

```
lom>seteventreporting default
```

To report all fatal and warning messages at the LOM prompt:

```
lom>seteventreporting on 2
```

setlocator

Set the state of the system Locator LED.

Syntax

```
setlocator on|off
```

```
setlocator -h
```

Options/Parameters

`on` turns on the system Locator LED.

`off` turns off the system Locator LED.

`-h` displays help for this command.

Description

Sets the state of the system Locator LED.

See Also

`showlocator`

Examples

To turn off the system Locator LED:

```
lom>setlocator off
```

To turn on the system Locator LED:

```
lom>setlocator on
```

setls

Sets the component location status.

Scope

Shell

Syntax

```
setls -s new_status -l location
```

```
setls -h
```

Options/Parameters

-h displays help for this command.

-s *new_status* sets the location status of a component:

- `enable` - Enables the specified component location.
- `disable` - Disables the specified component location.

-l *location* specifies the component location:

- `slot/port/physical_bank/logical_bank` for a CPU/Memory board
- `slot/port/bus` for an I/O assembly
- `slot/card` for an I/O assembly

Description

Use this command to control whether components in a particular location are configured into a system. The location status of a component can be set to one of the following states:

- **Enabled** - The component residing in the specified location is configured into the system, subject to its component health status (CHS). For details on component health status, refer to the *Sun Fire Entry-Level Midrange System Administration Guide*.

In some cases a disabled component cannot be re-enabled by using the `setls` command. If a disabled component has a POST status of `chs`, as indicated in `showcomponent` command output, the component cannot be configured into the system. Contact your service provider for further service action.

- Disabled – The component residing in the specified location is not configured into the system.

Note – The location status is updated at the next reboot, board power cycle, or POST execution. For example, POST runs automatically whenever you perform a `setkeyswitch on` or `off` operation.

When you disable the location of a component, its subcomponent locations are also disabled. For example, if you disable the location of a CPU slot, the memory locations that are controlled by that CPU are also automatically disabled.

Similarly, when you enable the location of a component, its subcomponent locations are also enabled, except when the subcomponent locations were previously disabled on an individual basis by using the `setlsls` command. The subcomponent locations cannot be enabled automatically through the parent component location. Each subcomponent location must be enabled individually by using the `setlsls` command.

Component locations can be the following (see TABLE 4 and TABLE 5):

- Ports (CPU on a CPU/Memory board and I/O controller on an I/O assembly)
- Physical and logical memory banks
- I/O buses
- I/O cards

TABLE 4 *location* Descriptions for a CPU/Memory Board

Board or Device	Component Location
CPU/Memory board <i>slots</i>	SB0, SB1, SB2, SB3, SB4, SB5
Ports on the CPU/Memory board	P0, P1, P2, P3
Physical memory banks on CPU/Memory boards	B0, B1
Logical banks on CPU/Memory boards	L0, L1, L2, L3

TABLE 5 *location* Descriptions for an I/O Assembly

Board or Device	Component Location
I/O assemblies (<i>slots</i>)	IB6, IB7, IB8, IB9

TABLE 5 *Location Descriptions for an I/O Assembly*

Board or Device	Component Location
Ports on the I/O assembly	P0, P1
Buses on the I/O assembly	B0, B1
I/O cards in the I/O assembly	C0, C1, C2, C3, C4, C5, C6, C7—the number of cards varies with the I/O assembly

Note – If you are disabling the port locations of an I/O assembly, leave at least one I/O controller 0 enabled in a domain, so that the domain can communicate with the system controller.

See Also

`showcomponent`, the *Sun Fire Entry-Level Midrange System Administration Guide*

Examples

CODE EXAMPLE 6 enables a component located in slot `sb4`. This means that the CPU/Memory board in slot `sb4` is considered for configuration into the system, subject to the component health status. The status change occurs at the next reboot, board power cycle, or POST execution.

CODE EXAMPLE 6 `setls` Command Example Enabling the Location of a CPU/Memory Board in Slot `sb4`

```
commando lom> setls -s enable -l sb4
```

CODE EXAMPLE 7 enables an I/O assembly located in port 1 of slot `ib6`. This means that I/O assembly 6, port 1 is considered for configuration into the system, subject to the component health status. The status change occurs at the next reboot, board power cycle, or POST execution.

CODE EXAMPLE 7 `setls` Command Example Enabling the Location of an I/O Assembly in Slot `ib6`

```
commando lom> setls -s enable -l ib6/p1
```

CODE EXAMPLE 8 disables a component located in slot `sb0` and CPU port 3. This means that the CPU/Memory board in slot `sb0` is deconfigured from the system at the next reboot, board power cycle, or POST execution. Also, any memory banks on this CPU port are unreachable and are implicitly disabled.

CODE EXAMPLE 8 `setls` Command Example Disabling the Location of a CPU/Memory Board in Slot `sb0` and CPU port 3

```
commando lom> setls -s disable -l sb0/p3
```

CODE EXAMPLE 9 disables a component located in slot `sb4` and deconfigures the CPU/Memory board in slot `sb4` at the next reboot, board power cycle, or POST execution.

CODE EXAMPLE 9 `setls` Command Example Disabling the Location of a CPU/Memory Board in Slot `sb4`

```
commando lom> setls -s disable -l sb4
```


setupnetwork

Set up System Controller network attributes.

Syntax

```
setupnetwork
```

```
setupnetwork -h
```

Options/Parameters

-h displays help for this command.

Description

This command enables the network details for the System Controller to be set up so that it can be accessed through a network connection. After setting these attributes the System Controller must be reset in order for them to take effect.

TABLE 6 setupnetwork Attributes

Parameter	Values
Is the system controller on a network?	If the System Controller is to be accessed over a network connection this option should be set to <i>yes</i> .
Use DHCP or static network settings?	<i>static</i> - means that the network IP and hostname will be the same each time the System Controller is powered on. <i>DHCP</i> - means that the hostname and IP address are obtained automatically by using the network service called DHCP.
Hostname	The human-readable network identity for this System Controller.
IP Address	The network identity for use by the System Controller.
Netmask	For this value specify how much of the address should be reserved for subdividing networks into subnetworks. The mask includes the network part of the local address and the subnet part. The mask contains 1s for the bit positions for the subnet part and 0s for the host.
Gateway	IP address should be extracted from the network using the router discovery mechanism.
DNS Domain	Domain name. For example <i>xxx.xxx.com</i> . There is no default value. You must supply this information.

TABLE 6 setupnetwork Attributes

Parameter	Values
Primary DNS Server	IP address of your DNS primary server. No default value.
Secondary DNS Server	IP address of your DNS secondary server. No default value. If the primary DNS server is not working, the secondary DNS server takes over automatically.
Connection type	Type of network connection to the SC. Default value is none (no network connection). Set it to telnet to enable system administration using a telnet connection.

See Also

shownetwork, resetsc

Example

```
lom>setupnetwork

Network Configuration
-----
Is the system controller on a network? [no]: yes
Use DHCP or static network settings? [DHCP]: static
Hostname []: somename
IP Address []: 129.xxx.xxx.xxx
Netmask [255.255.255.0]: 255.255.255.0
Gateway []: 129.xxx.xxx.xxx
DNS Domain []: somewhere.nowhere.com
Primary DNS Server []: 129.xxx.xxx.xxx
Secondary DNS Server []: 129.xxx.xxx.xxx
Connection type (telnet, none) [none]: telnet

Rebooting the SC is required for changes in network settings to take effect.
lom>
```

setupsc

Configure optional System Controller features.

Syntax

```
setupsc
```

```
setupsc -h
```

Options/Parameters

`-h` displays help for this command.

Description

The `setupsc` command is used to configure a number of optional features of the System Controller.

- **SC POST diagnostic level:**
 - Controls the level of the Power On Self Test diagnostic level for the System Controller when it is reset or powered on.
 - `off` SC POST is not run
 - `min` Minimum level SC POST is run (default)
 - `max` Maximum level SC POST is run
- **Host Watchdog:**
 - Enable/Disable a system reset when the Solaris watchdog expires
- **Rocker Switch:**
 - Enable/Disable front panel ON/Standby rocker switch
- **Secure Mode:**
 - Enable/Disable use of the `reset` and `break` commands. When Secure Mode is enabled the `reset` and `break` commands are disabled. If a password has been set for the System Controller then you are prompted for password confirmation before a new setting for Secure Mode is accepted.

See Also

`break`, `reset`, `password`

Example

To display the current settings enter a carriage return at each field prompt.

```
lom>setupsc
System Controller Configuration
-----
SC POST diag Level [off]:
Host Watchdog [enabled]:
Rocker Switch [enabled]:
Secure Mode [off]:

lom>
```

A password may be required in order to accept a new setting for secure mode.

```
lom>setupsc
System Controller Configuration
-----
SC POST diag Level [off]: min
Host Watchdog [enabled]:
Rocker Switch [enabled]: disabled
Secure Mode [off]: on
Enter Password:

lom>
```

When secure mode is enabled the `reset` and `break` commands cannot be used:

```
lom>break
The break command has been disabled using the Secure Mode
option of the setupsc command.
```

When secure mode is enabled the `reset` and `break` commands cannot be used.

```
lom>reset
The reset command has been disabled using the Secure Mode
option of the setupsc command.
```

showalarm

Display state of system alarm relays and LEDs.

Syntax

```
showalarm 1|2|system
```

```
showalarm -h
```

Options/Parameters

1 show the state of the alarm 1 LED and relay.

2 show the state of the alarm 2 LED and relay.

system show state of system (UNIX Running) alarm relay and LED.

-h displays help for this command.

Description

Show state of system alarm relays and LEDs.

See Also

setalarm

Examples

Show the state of the system alarm (UNIX running):

```
lom>showalarm system
system alarm is on
```

Show the state of alarm 1:

```
lom>showalarm 1
alarm1 is off
```

Show the state of alarm 2:

```
lom>showalarm 2  
alarm2 is off
```

showboards

Display the status for all boards in the system

Syntax

```
showboards [-ev] [-p <part>] ...
```

```
showboards -h
```

Options/Parameters

-e includes empty slots.

-p shows a specific part. <part> can be:

board	shows board status.
cpu	shows CPU information.
io	shows I/O information.
memory	shows memory information.
serial	shows board serial number information.
version	shows version information.

-v displays all information.

-h displays help for this command.

Description

Displays the status of all of the boards in the system (for example CPU/Memory boards, I/O assembly, fan tray and so on).

Example

showboards command sample output (same as showboards -p board):

CODE EXAMPLE 10 Using the showboards Command

```
lom>showboards
```

Slot	Pwr	Component Type	State	Status
SSC1	On	System Controller	Main	Passed
/N0/SCC	-	System Config Card	Assigned	OK
/N0/BP	-	Baseplane	Assigned	OK
/N0/SIB	-	Indicator Board	Assigned	OK
/N0/SPDB	-	System Power Distribution Bd.	Assigned	Passed
/N0/PS0	On	Al66 Power Supply	-	OK
/N0/PS1	On	Al66 Power Supply	-	OK
/N0/FT0	On	Fan Tray	Auto Speed	OK
/N0/RP0	On	Repeater Board	Assigned	OK
/N0/RP2	On	Repeater Board	Assigned	OK
/N0/SB0	On	CPU Board	Active	Passed
/N0/IB6	On	PCI I/O Board	Active	Passed
/N0/MB	-	Media Bay	Assigned	OK

showboards -e command sample output:

CODE EXAMPLE 11 Using the showboards -e Command

```
lom>showboards -e
```

Slot	Pwr	Component Type	State	Status
SSC1	On	System Controller	Main	Passed
/N0/SCC	-	System Config Card	Assigned	OK
/N0/BP	-	Baseplane	Assigned	Passed
/N0/SIB	-	Indicator Board	Assigned	OK
/N0/SPDB	-	System Power Distribution Bd.	Assigned	Passed
/N0/PS0	On	Al66 Power Supply	-	OK
/N0/PS1	On	Al66 Power Supply	-	OK
PS2	-	Empty Slot	Assigned	-
PS3	-	Empty Slot	Assigned	-
/N0/FT0	On	Fan Tray	Auto Speed	Passed
/N0/RP0	On	Repeater Board	Assigned	OK
/N0/RP2	On	Repeater Board	Assigned	OK
/N0/SB0	On	CPU Board	Active	Passed
/N0/SB2	On	CPU Board	Active	Passed
SB4	-	Empty Slot	Assigned	-
/N0/IB6	On	PCI I/O Board	Active	Passed
/N0/MB	-	Media Bay	Assigned	OK

showboards -v command sample output:

CODE EXAMPLE 12 Using the showboards -v Command

Slot	Pwr	Component	Type	State	Status
----	---	-----	-----	----	-----
SSC1	On	System Controller V2		Main	Passed
/N0/SCC	-	System Config Card		Assigned	OK
/N0/BP	-	Baseplane		Assigned	Passed
/N0/SIB	-	Indicator Board		Assigned	Passed
/N0/SPDB	-	System Power Distribution Bd.		Assigned	Passed
/N0/PS0	On	Al66 Power Supply		-	OK
/N0/PS1	On	Al66 Power Supply		-	OK
/N0/PS2	On	Al66 Power Supply		-	OK
/N0/PS3	On	Al66 Power Supply		-	OK
/N0/FT0	On	Fan Tray		Auto Speed	Passed
/N0/RP0	On	Repeater Board		Assigned	OK
/N0/RP2	On	Repeater Board		Assigned	OK
/N0/SB0	On	CPU Board		Active	Passed
/N0/SB2	On	CPU Board V3		Active	Passed
/N0/SB4	On	CPU Board		Active	Passed
/N0/IB6	On	PCI I/O Board		Active	Passed
/N0/MB	-	Media Bay		Assigned	Passed

Component	J-No.	Size	Reason
-----	-----	----	-----
/N0/SB0/P0/B0/D0	J13300	256 MB	
/N0/SB0/P0/B0/D1	J13400	256 MB	
/N0/SB0/P0/B0/D2	J13500	256 MB	
/N0/SB0/P0/B0/D3	J13600	256 MB	
/N0/SB0/P0/B1/D0	J13301	256 MB	
/N0/SB0/P0/B1/D1	J13401	256 MB	
/N0/SB0/P0/B1/D2	J13501	256 MB	
/N0/SB0/P0/B1/D3	J13601	256 MB	
/N0/SB0/P1/B0/D0	J14300	256 MB	
/N0/SB0/P1/B0/D1	J14400	256 MB	
/N0/SB0/P1/B0/D2	J14500	256 MB	
/N0/SB0/P1/B0/D3	J14600	256 MB	
/N0/SB0/P1/B1/D0	J14301	256 MB	
/N0/SB0/P1/B1/D1	J14401	256 MB	
/N0/SB0/P1/B1/D2	J14501	256 MB	
/N0/SB0/P1/B1/D3	J14601	256 MB	
/N0/SB0/P2/B0/D0	J15300	256 MB	
/N0/SB0/P2/B0/D1	J15400	256 MB	
/N0/SB0/P2/B0/D2	J15500	256 MB	
/N0/SB0/P2/B0/D3	J15600	256 MB	
/N0/SB0/P2/B1/D0	J15301	256 MB	
/N0/SB0/P2/B1/D1	J15401	256 MB	

CODE EXAMPLE 12 Using the showboards -v Command (Continued)

/N0/SB0/P2/B1/D2	J15501	256 MB	
/N0/SB0/P2/B1/D3	J15601	256 MB	
/N0/SB0/P3/B0/D0	J16300	256 MB	
/N0/SB0/P3/B0/D1	J16400	256 MB	
/N0/SB0/P3/B0/D2	J16500	256 MB	
/N0/SB0/P3/B0/D3	J16600	256 MB	
/N0/SB0/P3/B1/D0	J16301	256 MB	
/N0/SB0/P3/B1/D1	J16401	256 MB	
/N0/SB0/P3/B1/D2	J16501	256 MB	
/N0/SB0/P3/B1/D3	J16601	256 MB	
/N0/SB2/P0/B0	-	-	DRAM DIMM Group 0 Empty
/N0/SB2/P0/B1/D0	J13301	512 MB	
/N0/SB2/P0/B1/D1	J13401	512 MB	
/N0/SB2/P0/B1/D2	J13501	512 MB	
/N0/SB2/P0/B1/D3	J13601	512 MB	
/N0/SB2/P1/B0	-	-	DRAM DIMM Group 0 Empty
/N0/SB2/P1/B1/D0	J14301	512 MB	
/N0/SB2/P1/B1/D1	J14401	512 MB	
/N0/SB2/P1/B1/D2	J14501	512 MB	
/N0/SB2/P1/B1/D3	J14601	512 MB	
/N0/SB2/P2/B0	-	-	DRAM DIMM Group 0 Empty
/N0/SB2/P2/B1/D0	J15301	512 MB	
/N0/SB2/P2/B1/D1	J15401	512 MB	
/N0/SB2/P2/B1/D2	J15501	512 MB	
/N0/SB2/P2/B1/D3	J15601	512 MB	
/N0/SB2/P3/B0	-	-	DRAM DIMM Group 0 Empty
/N0/SB2/P3/B1/D0	J16301	512 MB	
/N0/SB2/P3/B1/D1	J16401	512 MB	
/N0/SB2/P3/B1/D2	J16501	512 MB	
/N0/SB2/P3/B1/D3	J16601	512 MB	
/N0/SB4/P0/B0/D0	J13300	256 MB	
/N0/SB4/P0/B0/D1	J13400	256 MB	
/N0/SB4/P0/B0/D2	J13500	256 MB	
/N0/SB4/P0/B0/D3	J13600	256 MB	
/N0/SB4/P0/B1/D0	J13301	256 MB	
/N0/SB4/P0/B1/D1	J13401	256 MB	
/N0/SB4/P0/B1/D2	J13501	256 MB	
/N0/SB4/P0/B1/D3	J13601	256 MB	
/N0/SB4/P1/B0/D0	J14300	256 MB	
/N0/SB4/P1/B0/D1	J14400	256 MB	
/N0/SB4/P1/B0/D2	J14500	256 MB	
/N0/SB4/P1/B0/D3	J14600	256 MB	
/N0/SB4/P1/B1/D0	J14301	256 MB	
/N0/SB4/P1/B1/D1	J14401	256 MB	
/N0/SB4/P1/B1/D2	J14501	256 MB	
/N0/SB4/P1/B1/D3	J14601	256 MB	
/N0/SB4/P2/B0/D0	J15300	256 MB	

CODE EXAMPLE 12 Using the showboards -v Command (Continued)

```

/N0/SB4/P2/B0/D1 J15400 256 MB
/N0/SB4/P2/B0/D2 J15500 256 MB
/N0/SB4/P2/B0/D3 J15600 256 MB
/N0/SB4/P2/B1/D0 J15301 256 MB
/N0/SB4/P2/B1/D1 J15401 256 MB
/N0/SB4/P2/B1/D2 J15501 256 MB
/N0/SB4/P2/B1/D3 J15601 256 MB
/N0/SB4/P3/B0/D0 J16300 256 MB
/N0/SB4/P3/B0/D1 J16400 256 MB
/N0/SB4/P3/B0/D2 J16500 256 MB
/N0/SB4/P3/B0/D3 J16600 256 MB
/N0/SB4/P3/B1/D0 J16301 256 MB
/N0/SB4/P3/B1/D1 J16401 256 MB
/N0/SB4/P3/B1/D2 J16501 256 MB
/N0/SB4/P3/B1/D3 J16601 256 MB

```

Component	Segment	Compatible	In	Date	Time	Build	Version
-----	-----	-----	--	----	----	-----	-----
SSC1/FP0	-	-	-	-	-	-	RTOS version: 38
SSC1/FP1	ScApp	Reference	12	01/27/2004	11:42	5.0	5.17.0
SSC1/FP1	Ver	-	-	01/27/2004	11:42	5.0	5.17.0 Build_05
/N0/IB6/FP0	iPOST	Yes	12	01/27/2004	11:41	5.0	5.17.0
/N0/IB6/FP0	Ver	-	-	01/27/2004	11:41	5.0	5.17.0 Build_05
/N0/IB6/FP0	Info	-	12	01/27/2004	11:41	5.0	5.17.0
/N0/SB0/FP0	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB0/FP0	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0
/N0/SB0/FP0	Ver	-	-	01/27/2004	11:39	5.0	5.17.0 Build_05
/N0/SB0/FP0	Info	-	12	01/27/2004	11:39	5.0	5.17.0
/N0/SB0/FP1	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB0/FP1	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0
/N0/SB0/FP1	Ver	-	-	01/27/2004	11:39	5.0	5.17.0 Build_05
/N0/SB0/FP1	Info	-	12	01/27/2004	11:39	5.0	5.17.0
/N0/SB2/FP0	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB2/FP0	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0
/N0/SB2/FP0	Ver	-	-	01/27/2004	11:39	5.0	5.17.0 Build_05
/N0/SB2/FP0	Info	-	12	01/27/2004	11:39	5.0	5.17.0
/N0/SB2/FP1	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB2/FP1	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0
/N0/SB2/FP1	Ver	-	-	01/27/2004	11:39	5.0	5.17.0 Build_05
/N0/SB2/FP1	Info	-	12	01/27/2004	11:39	5.0	5.17.0
/N0/SB4/FP0	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB4/FP0	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0
/N0/SB4/FP0	Ver	-	-	01/27/2004	11:39	5.0	5.17.0 Build_05
/N0/SB4/FP0	Info	-	12	01/27/2004	11:39	5.0	5.17.0
/N0/SB4/FP1	POST	Yes	12	01/27/2004	11:38	5.0	5.17.0
/N0/SB4/FP1	OBP	Yes	12	01/27/2004	11:37	5.0	5.17.0

CODE EXAMPLE 12 Using the showboards -v Command (Continued)

/N0/SB4/FP1 Ver	-	-	01/27/2004 11:39 5.0	5.17.0	Build_05
/N0/SB4/FP1 Info	-		12 01/27/2004 11:39 5.0	5.17.0	
Slot	Populated Slot Description				
----	-----				
/N0/IB6/P0/B1/C0	Empty		33MHz. 5V Short PCI card		
/N0/IB6/P0/B1/C1	Empty		33MHz. 5V Short PCI card		
/N0/IB6/P1/B1/C2	Empty		33MHz. 5V Short PCI card		
/N0/IB6/P1/B1/C3	Empty		33MHz. 5V Short PCI card		
/N0/IB6/P1/B1/C4	Empty		33MHz. 5V Short PCI card		
/N0/IB6/P0/B0/C5	Empty		66/33MHz. 3.3V Short PCI card		
Component	Part #	Serial #	Description		
-----	-----	-----	-----		
/N0/SB0	540-5467-01-50	001004	CPU Board (1280)		
/N0/SB4	540-5467-01-50	000096	CPU Board (1280)		
/N0/SB0/P0/B0/D0	501-5401-03-50	KD0W2F	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B0/D1	501-5401-03-50	KD0W2K	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B0/D2	501-5401-03-50	KD0W2P	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B0/D3	501-5401-03-50	KD0W2W	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B1/D0	501-5401-03-50	KD0W2N	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B1/D1	501-5401-03-50	KD0W2R	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B1/D2	501-5401-03-50	KD0W2T	256 MB NG SDRAM DIMM		
/N0/SB0/P0/B1/D3	501-5401-03-50	KD0W0T	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B0/D0	501-5401-03-50	KD0W3B	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B0/D1	501-5401-03-50	KD0W1Q	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B0/D2	501-5401-03-50	KD0W05	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B0/D3	501-5401-03-50	KD24GK	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B1/D0	501-5401-03-50	KD0W3C	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B1/D1	501-5401-03-50	KD0W35	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B1/D2	501-5401-03-50	KD0VZX	256 MB NG SDRAM DIMM		
/N0/SB0/P1/B1/D3	501-5401-03-50	KD0W1W	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B0/D0	501-5401-03-50	KD0W1R	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B0/D1	501-5401-03-50	KD0W0G	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B0/D2	501-5401-03-50	KD0VZQ	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B0/D3	501-5401-03-50	KD0W24	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B1/D0	501-5401-03-50	KD0W1V	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B1/D1	501-5401-03-50	KD0W07	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B1/D2	501-5401-03-50	KD0W0B	256 MB NG SDRAM DIMM		
/N0/SB0/P2/B1/D3	501-5401-03-50	KD0W1X	256 MB NG SDRAM DIMM		
/N0/SB0/P3/B0/D0	501-5401-03-50	KD0W1Y	256 MB NG SDRAM DIMM		
/N0/SB0/P3/B0/D1	501-5401-03-50	KD0W20	256 MB NG SDRAM DIMM		
/N0/SB0/P3/B0/D2	501-5401-03-50	KD0W2B	256 MB NG SDRAM DIMM		
/N0/SB0/P3/B0/D3	501-5401-03-50	KD0W27	256 MB NG SDRAM DIMM		
/N0/SB0/P3/B1/D0	501-5401-03-50	KD0W1Z	256 MB NG SDRAM DIMM		

CODE EXAMPLE 12 Using the showboards -v Command (Continued)

/N0/SB0/P3/B1/D1	501-5401-03-50	KD0W23	256	MB	NG	SDRAM	DIMM
/N0/SB0/P3/B1/D2	501-5401-03-50	KD0W25	256	MB	NG	SDRAM	DIMM
/N0/SB0/P3/B1/D3	501-5401-03-50	KD0W2D	256	MB	NG	SDRAM	DIMM
/N0/SB2/P0/B1/D0	501-5030-03-50	479985	512	MB	NG	SDRAM	DIMM
/N0/SB2/P0/B1/D1	501-5030-03-50	479986	512	MB	NG	SDRAM	DIMM
/N0/SB2/P0/B1/D2	501-5030-03-50	479987	512	MB	NG	SDRAM	DIMM
/N0/SB2/P0/B1/D3	501-5030-03-50	479988	512	MB	NG	SDRAM	DIMM
/N0/SB2/P1/B1/D0	501-5030-03-50	479989	512	MB	NG	SDRAM	DIMM
/N0/SB2/P1/B1/D1	501-5030-03-50	479797	512	MB	NG	SDRAM	DIMM
/N0/SB2/P1/B1/D2	501-5030-03-50	479975	512	MB	NG	SDRAM	DIMM
/N0/SB2/P1/B1/D3	501-5030-03-50	479795	512	MB	NG	SDRAM	DIMM
/N0/SB2/P2/B1/D0	501-5030-03-50	479977	512	MB	NG	SDRAM	DIMM
/N0/SB2/P2/B1/D1	501-5030-03-50	479978	512	MB	NG	SDRAM	DIMM
/N0/SB2/P2/B1/D2	501-5030-03-50	479979	512	MB	NG	SDRAM	DIMM
/N0/SB2/P2/B1/D3	501-5030-03-50	479980	512	MB	NG	SDRAM	DIMM
/N0/SB2/P3/B1/D0	501-5030-03-50	479981	512	MB	NG	SDRAM	DIMM
/N0/SB2/P3/B1/D1	501-5030-03-50	479982	512	MB	NG	SDRAM	DIMM
/N0/SB2/P3/B1/D2	501-5030-03-50	479983	512	MB	NG	SDRAM	DIMM
/N0/SB2/P3/B1/D3	501-5030-03-50	479984	512	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B0/D0	501-5401-03-50	712800	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B0/D1	501-5401-03-50	712818	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B0/D2	501-5401-03-50	812216	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B0/D3	501-5401-03-50	812243	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B1/D0	501-5401-03-50	712806	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B1/D1	501-5401-03-50	712802	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B1/D2	501-5401-03-50	712815	256	MB	NG	SDRAM	DIMM
/N0/SB4/P0/B1/D3	501-5401-03-50	812213	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B0/D0	501-5401-03-50	812241	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B0/D1	501-5401-03-50	812239	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B0/D2	501-5401-03-50	812246	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B0/D3	501-5401-03-50	812234	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B1/D0	501-5401-03-50	812208	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B1/D1	501-5401-03-50	812235	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B1/D2	501-5401-03-50	812237	256	MB	NG	SDRAM	DIMM
/N0/SB4/P1/B1/D3	501-5401-03-50	812209	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B0/D0	501-5401-03-50	712750	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B0/D1	501-5401-03-50	712751	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B0/D2	501-5401-03-50	712826	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B0/D3	501-5401-03-50	712829	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B1/D0	501-5401-03-50	812232	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B1/D1	501-5401-03-50	712827	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B1/D2	501-5401-03-50	712833	256	MB	NG	SDRAM	DIMM
/N0/SB4/P2/B1/D3	501-5401-03-50	712807	256	MB	NG	SDRAM	DIMM
/N0/SB4/P3/B0/D0	501-5401-03-50	712835	256	MB	NG	SDRAM	DIMM
/N0/SB4/P3/B0/D1	501-5401-03-50	712681	256	MB	NG	SDRAM	DIMM
/N0/SB4/P3/B0/D2	501-5401-03-50	712687	256	MB	NG	SDRAM	DIMM
/N0/SB4/P3/B0/D3	501-5401-03-50	712803	256	MB	NG	SDRAM	DIMM

CODE EXAMPLE 12 Using the showboards -v Command (Continued)

/N0/SB4/P3/B1/D0	501-5401-03-50	712808	256 MB NG SDRAM DIMM
/N0/SB4/P3/B1/D1	501-5401-03-50	712810	256 MB NG SDRAM DIMM
/N0/SB4/P3/B1/D2	501-5401-03-50	712683	256 MB NG SDRAM DIMM
/N0/SB4/P3/B1/D3	501-5401-03-50	712688	256 MB NG SDRAM DIMM
/N0/SB0/P0/E0	370-4128-03-50	4A5TDM	4MB Ecache Module
/N0/SB0/P0/E1	370-4128-03-50	4A5TBD	4MB Ecache Module
/N0/SB0/P1/E0	370-4128-03-50	4A5TBB	4MB Ecache Module
/N0/SB0/P1/E1	370-4128-03-50	4A5TDN	4MB Ecache Module
/N0/SB0/P2/E0	370-4128-03-50	4A5TBG	4MB Ecache Module
/N0/SB0/P2/E1	370-4128-03-50	4A5TBJ	4MB Ecache Module
/N0/SB0/P3/E0	370-4128-03-50	4A5TDY	4MB Ecache Module
/N0/SB0/P3/E1	370-4128-03-50	4A5TDV	4MB Ecache Module
/N0/SB2/P0/E0	370-4129-01-01	2APK8W	8MB Ecache Module
/N0/SB2/P0/E1	370-4129-01-01	2APK9D	8MB Ecache Module
/N0/SB2/P1/E0	370-4129-01-01	2APK91	8MB Ecache Module
/N0/SB2/P1/E1	370-4129-01-01	2APK97	8MB Ecache Module
/N0/SB2/P2/E0	370-4129-01-01	2APK95	8MB Ecache Module
/N0/SB2/P2/E1	370-4129-01-01	2APK87	8MB Ecache Module
/N0/SB2/P3/E0	370-4129-01-01	2APKA7	8MB Ecache Module
/N0/SB2/P3/E1	370-4129-01-01	2APKA5	8MB Ecache Module
/N0/SB4/P0/E0	370-4128-03-50	4A57JT	4MB Ecache Module
/N0/SB4/P0/E1	370-4128-03-50	4A580U	4MB Ecache Module
/N0/SB4/P1/E0	370-4128-03-50	4A580Y	4MB Ecache Module
/N0/SB4/P1/E1	370-4128-03-50	4A57ZT	4MB Ecache Module
/N0/SB4/P2/E0	370-4128-03-50	4A57JK	4MB Ecache Module
/N0/SB4/P2/E1	370-4128-03-50	4A57HP	4MB Ecache Module
/N0/SB4/P3/E0	370-4128-03-50	4A57HG	4MB Ecache Module
/N0/SB4/P3/E1	370-4128-03-50	4A57HV	4MB Ecache Module
/N0/SB2	501-6520-02-01	A00065	CPU Board V3
/N0/IB6	540-5564-01-01	A08712	IB_SSC Assembly (1280)
Component	Cpu Mask	Description	
-----	-----	-----	
/N0/SB0/P0	2.2	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB0/P1	2.2	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB0/P2	2.2	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB0/P3	2.2	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB2/P0	1.1	UltraSPARC-IV, 660MHz, 16M ECACHE	
/N0/SB2/P1	1.1	UltraSPARC-IV, 660MHz, 16M ECACHE	
/N0/SB2/P2	1.1	UltraSPARC-IV, 660MHz, 16M ECACHE	
/N0/SB2/P3	1.1	UltraSPARC-IV, 660MHz, 16M ECACHE	
/N0/SB4/P0	6.0	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB4/P1	6.0	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB4/P2	6.0	UltraSPARC-III+, 660MHz, 8M ECACHE	
/N0/SB4/P3	6.0	UltraSPARC-III+, 660MHz, 8M ECACHE	

showboards -p memory command sample output:

CODE EXAMPLE 13 Using the showboards -p memory Command

```
lom>showboards -p memory
Component      Size      Reason
-----
/N0/SB0        8192 MB
/N0/SB2        8192 MB
```

showboards -p version command sample output:

CODE EXAMPLE 14 Using the showboards -p version Command

```
lom>showboards -p version
Component      Compatible Version
-----
SSC1           Reference  5.17.0 Build_05
/N0/IB6        Yes       5.17.0 Build_05
/N0/SB0        Yes       5.17.0 Build_05
/N0/SB2        Yes       5.17.0 Build_05
/N0/SB4        Yes       5.17.0 Build_05
```

showboards -p io command sample output:

CODE EXAMPLE 15 Using the showboards -p io Command

```
lom>showboards -p io
Slot           Populated Slot Description
-----
/N0/IB6/P0/B1/C0 Empty        33MHz. 5V Short PCI card
/N0/IB6/P0/B1/C1 Empty        33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C2 Empty        33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C3 Empty        33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C4 Empty        33MHz. 5V Short PCI card
/N0/IB6/P0/B0/C5 Empty        66/33MHz. 3.3V Short PCI card
```

showboards -p serial command sample output:

CODE EXAMPLE 16 Using the showboards -p serial Command

```
lom>showboards -p serial
Component      Part #      Serial #  Description
-----
/N0/SB0        501-4362-08-50 013362   CPU Board
/N0/SB2        501-4362-08-50 014812   CPU Board
```

CODE EXAMPLE 16 Using the showboards -p serial Command (Continued)

/N0/SB0/P0/B0/D0	501-5030-02-50	428079	512 MB NG SDRAM DIMM
/N0/SB0/P0/B0/D1	501-5030-02-50	428080	512 MB NG SDRAM DIMM
/N0/SB0/P0/B0/D2	501-5030-02-50	428081	512 MB NG SDRAM DIMM
/N0/SB0/P0/B0/D3	501-5030-02-50	428082	512 MB NG SDRAM DIMM
/N0/SB0/P1/B0/D0	501-5030-02-01	010398	512 MB NG SDRAM DIMM
/N0/SB0/P1/B0/D1	501-5030-02-01	010486	512 MB NG SDRAM DIMM
/N0/SB0/P1/B0/D2	501-5030-02-01	010400	512 MB NG SDRAM DIMM
/N0/SB0/P1/B0/D3	501-5030-02-01	010392	512 MB NG SDRAM DIMM
/N0/SB0/P2/B0/D0	501-5030-02-50	072411	512 MB NG SDRAM DIMM
/N0/SB0/P2/B0/D1	501-5030-02-50	428072	512 MB NG SDRAM DIMM
/N0/SB0/P2/B0/D2	501-5030-02-50	428073	512 MB NG SDRAM DIMM
/N0/SB0/P2/B0/D3	501-5030-02-50	428074	512 MB NG SDRAM DIMM
/N0/SB0/P3/B0/D0	501-5030-02-50	428075	512 MB NG SDRAM DIMM
/N0/SB0/P3/B0/D1	501-5030-02-50	428076	512 MB NG SDRAM DIMM
/N0/SB0/P3/B0/D2	501-5030-02-50	428077	512 MB NG SDRAM DIMM
/N0/SB0/P3/B0/D3	501-5030-02-50	428078	512 MB NG SDRAM DIMM
/N0/SB2/P0/B1/D0	501-5030-02-50	072392	512 MB NG SDRAM DIMM
/N0/SB2/P0/B1/D1	501-5030-02-50	072403	512 MB NG SDRAM DIMM
/N0/SB2/P0/B1/D2	501-5030-02-50	072399	512 MB NG SDRAM DIMM
/N0/SB2/P0/B1/D3	501-5030-02-50	072396	512 MB NG SDRAM DIMM
/N0/SB2/P1/B1/D0	501-5030-02-50	072388	512 MB NG SDRAM DIMM
/N0/SB2/P1/B1/D1	501-5030-02-50	072273	512 MB NG SDRAM DIMM
/N0/SB2/P1/B1/D2	501-5030-02-50	072398	512 MB NG SDRAM DIMM
/N0/SB2/P1/B1/D3	501-5030-02-50	072394	512 MB NG SDRAM DIMM
/N0/SB2/P2/B1/D0	501-5030-02-50	072395	512 MB NG SDRAM DIMM
/N0/SB2/P2/B1/D1	501-5030-02-50	072393	512 MB NG SDRAM DIMM
/N0/SB2/P2/B1/D2	501-5030-02-50	072406	512 MB NG SDRAM DIMM
/N0/SB2/P2/B1/D3	501-5030-02-50	072410	512 MB NG SDRAM DIMM
/N0/SB2/P3/B1/D0	501-5030-02-50	072402	512 MB NG SDRAM DIMM
/N0/SB2/P3/B1/D1	501-5030-02-50	072404	512 MB NG SDRAM DIMM
/N0/SB2/P3/B1/D2	501-5030-02-50	072400	512 MB NG SDRAM DIMM
/N0/SB2/P3/B1/D3	501-5030-02-50	072397	512 MB NG SDRAM DIMM
/N0/SB0/P0/E0	370-4125-01-01	498D2H	4MB Ecache Module
/N0/SB0/P0/E1	370-4125-01-01	498BUW	4MB Ecache Module
/N0/SB0/P1/E0	370-4125-01-01	498BD0	4MB Ecache Module
/N0/SB0/P1/E1	370-4125-01-01	498D1D	4MB Ecache Module
/N0/SB0/P2/E0	370-4125-01-01	498BTV	4MB Ecache Module
/N0/SB0/P2/E1	370-4125-01-01	498BKY	4MB Ecache Module
/N0/SB0/P3/E0	370-4125-01-01	498AYK	4MB Ecache Module
/N0/SB0/P3/E1	370-4125-01-01	498BU6	4MB Ecache Module
/N0/SB2/P0/E0	370-4125-01-01	4950NH	4MB Ecache Module
/N0/SB2/P0/E1	370-4125-01-01	4951EZ	4MB Ecache Module
/N0/SB2/P1/E0	370-4125-01-01	494XTW	4MB Ecache Module
/N0/SB2/P1/E1	370-4125-01-01	495581	4MB Ecache Module
/N0/SB2/P2/E0	370-4125-01-01	4951NN	4MB Ecache Module
/N0/SB2/P2/E1	370-4125-01-01	4951AV	4MB Ecache Module

CODE EXAMPLE 16 Using the showboards -p serial Command (Continued)

/N0/SB2/P3/E0	370-4125-01-01	4951DK	4MB	Ecache Module
/N0/SB2/P3/E1	370-4125-01-01	4950P0	4MB	Ecache Module
/N0/IB6	000-0000-01-01	6543		PCI I/O Board

showboards -p cpu command sample output:

CODE EXAMPLE 17 Using the showboards -p cpu Command

lom>showboards -p cpu	
Component	Description
-----	-----
/N0/SB0/P0	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB0/P1	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB0/P2	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB0/P3	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB2/P0	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB2/P1	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB2/P2	UltraSPARC-III+, 900MHz, 8M ECache
/N0/SB2/P3	UltraSPARC-III+, 900MHz, 8M ECache

TABLE 7 Output Header Definitions for the showboards Command

Header	Description
Slot	Slot designator. The N0 preceding the slot designator for CPU/Memory boards and I/O assemblies is the node number, which is always 0.
Pwr	Indicates if the FRU is powered off or on.
Component type	Describes the board attached to each slot.
FRU state	Describes FRU state (see TABLE 2).
Test status	Describes test status (see TABLE 3).

showcomponent

Display a component or a list of components.

Syntax

```
showcomponent [-v] <component_name> [ <component_name> ... ]
```

```
showcomponent -h
```

Options/Parameters

-h displays help for this command. Includes <component_name> syntax.

-v is verbose.

<component_name> is the name of the board, as shown in TABLE 8.

TABLE 8 <component_name> Descriptions for the showcomponent Command

Component Description	Value of <component_name>
CPU system	<slot>
CPU/Memory boards (<i>slot</i>)	sb0, sb2, sb4
Ports on the CPU/Memory board	p0, p1, p2, p3
Physical memory banks on CPU/Memory boards	b0, b1
Logical banks on CPU/Memory boards	l0, l1, l2, l3
Repeater system	<slot>
Repeater boards	rp0, rp2
I/O assembly system	<slot>
I/O assemblies (<i>slot</i>)	ib6
Ports on the I/O assembly	p0, p1
Busses on the I/O assembly	b0, b1
I/O cards in the I/O assembly	c0, c1, c2, c3, c4, c5

Description

Displays a component or a list of components, together with their POST and blacklist status. The Status column shows the current blacklist status of the component; the Pending column displays the requested blacklist status of the component to be activated after the next reboot or Dynamic Reconfiguration of that component. The POST column shows the results of the most recent POST.

Note – When a Repeater Board has been blacklisted using the `disablecomponent` command or removed from the blacklist using the `enablecomponent` command while the system is in Standby mode, these changes will not be reflected in the `showcomponent` output until the system is powered on again.

See Also

`enablecomponent`, `disablecomponent`, *Sun Fire Entry-Level Midrange System Administration Guide* (for a step-by-step procedure on displaying a component).

Examples

`showcomponent sb0` sample output:

CODE EXAMPLE 18 Using the `showcomponent` Command for a CPU/Memory Board

```
lom>showcomponent sb0
```

Component	Status	Pending	POST	Description
/N0/SB0/P0	enabled	-	pass	UltraSPARC-III, 750MHz, 8M ECache
/N0/SB0/P1	enabled	-	pass	UltraSPARC-III, 750MHz, 8M ECache
/N0/SB0/P2	enabled	-	pass	UltraSPARC-III, 750MHz, 8M ECache
/N0/SB0/P3	enabled	-	pass	UltraSPARC-III, 750MHz, 8M ECache
/N0/SB0/P0/B0/L0	enabled	-	pass	512M DRAM
/N0/SB0/P0/B0/L2	enabled	-	pass	512M DRAM
/N0/SB0/P0/B1/L1	enabled	-	untest	empty
/N0/SB0/P0/B1/L3	enabled	-	untest	empty
/N0/SB0/P1/B0/L0	enabled	-	pass	512M DRAM
/N0/SB0/P1/B0/L2	enabled	-	pass	512M DRAM
/N0/SB0/P1/B1/L1	enabled	-	untest	empty
/N0/SB0/P1/B1/L3	enabled	-	untest	empty
/N0/SB0/P2/B0/L0	enabled	-	pass	512M DRAM
/N0/SB0/P2/B0/L2	enabled	-	pass	512M DRAM
/N0/SB0/P2/B1/L1	enabled	-	untest	empty
/N0/SB0/P2/B1/L3	enabled	-	untest	empty
/N0/SB0/P3/B0/L0	enabled	-	pass	512M DRAM
/N0/SB0/P3/B0/L2	enabled	-	pass	512M DRAM
/N0/SB0/P3/B1/L1	enabled	-	untest	empty
/N0/SB0/P3/B1/L3	enabled	-	untest	empty

showcomponent ib6 command sample output:

CODE EXAMPLE 19 Using the showcomponent Command for the IB6 Subassembly of the IB_SSC FRU

```
lom>showcomp ib6
```

Component	Status	Pending	POST	Description
/N0/IB6/P0	enabled	-	untest	IO Controller 0
/N0/IB6/P1	enabled	-	untest	IO Controller 1
/N0/IB6/P0/B0	enabled	-	untest	66/33MHz. PCI Bus
/N0/IB6/P0/B1	enabled	-	untest	33MHz. PCI Bus
/N0/IB6/P1/B0	enabled	-	untest	66/33MHz. PCI Bus
/N0/IB6/P1/B1	enabled	-	untest	33MHz. PCI Bus
/N0/IB6/P0/B1/C0	enabled	-	untest	33MHz. 5V Short PCI card
/N0/IB6/P0/B1/C1	enabled	-	untest	33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C2	enabled	-	untest	33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C3	enabled	-	untest	33MHz. 5V Short PCI card
/N0/IB6/P1/B1/C4	enabled	-	untest	33MHz. 5V Short PCI card
/N0/IB6/P0/B0/C5	enabled	-	untest	66/33MHz. 3.3V Short PCI card

showdate

Display the current date and time for the system.

Syntax

```
showdate [-tv]
```

```
showdate -h
```

Options/Parameters

-h displays help for this command.

-v is verbose.

-t lists available time zones.

Description

Shows the current date and time for the system, or if -t -v is selected then lists all available timezones.

See Also

setdate

Example

CODE EXAMPLE 20 Using the showdate Command

```
lom>showdate  
Mon Apr 03 12:31:40 EDT 2000
```

showenvironment

Display the current environmental status, temperatures, voltages, fan status, and so on, for the system..

Syntax

```
showenvironment [-ltuvw] [-p <part>] [<component>]
```

```
showenvironment [-ltuvw] [<component>]
```

```
showenvironment -h
```

Options/Parameters

-l shows the thresholds that apply to each selected measurement. Exceeding the thresholds will cause the status to display appropriate warning information.

-p shows a specific part. <part> can be:

faults show measurements that are suspect.

temps show temperatures.

voltage show voltages.

fans show fan status.

-t shows in sections (by board) with titles.

-u before displaying readings, polls all sensors for new values.

-v verbose mode .

-w shows the warning thresholds that apply to each selected measurement..

-h displays help for this command.

<component> is the name of the FRU. Displays information for this FRU only.

Description

Displays the current environmental status, temperatures, voltages, fan status, and so on, for the system.

This command also displays minimum and maximum allowable values for each sensor being monitored. If no arguments are supplied, all applicable environmental information will be displayed.

Example

showenvironment command sample output:

CODE EXAMPLE 21 Using the showenvironment Command

```
lom>showenvironment
```

Slot	Device	Sensor	Value	Units	Age	Status
SSC1	SBBC 0	Temp. 0	37	Degrees C	1 sec	OK
SSC1	CBH 0	Temp. 0	45	Degrees C	1 sec	OK
SSC1	Board 0	Temp. 0	24	Degrees C	1 sec	OK
SSC1	Board 0	Temp. 1	22	Degrees C	1 sec	OK
SSC1	Board 0	Temp. 2	28	Degrees C	1 sec	OK
SSC1	Board 0	1.5 VDC 0	1.49	Volts DC	1 sec	OK
SSC1	Board 0	3.3 VDC 0	3.35	Volts DC	1 sec	OK
SSC1	Board 0	5 VDC 0	5.01	Volts DC	1 sec	OK
/N0/PS0	Input 0	Volt. 0	-	-	6 sec	OK
/N0/PS0	48 VDC 0	Volt. 0	48.00	Volts DC	6 sec	OK
/N0/PS1	Input 0	Volt. 0	-	-	5 sec	OK
/N0/PS1	48 VDC 0	Volt. 0	48.00	Volts DC	5 sec	OK
/N0/FT0	Fan 0	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 1	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 2	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 3	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 4	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 5	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 6	Cooling 0	Auto		5 sec	OK
/N0/FT0	Fan 7	Cooling 0	Auto		5 sec	OK
/N0/RP0	Board 0	1.5 VDC 0	1.51	Volts DC	5 sec	OK
/N0/RP0	Board 0	3.3 VDC 0	3.35	Volts DC	5 sec	OK
/N0/RP0	Board 0	Temp. 0	22	Degrees C	5 sec	OK
/N0/RP0	Board 0	Temp. 1	22	Degrees C	5 sec	OK
/N0/RP0	SDC 0	Temp. 0	63	Degrees C	5 sec	OK
/N0/RP0	AR 0	Temp. 0	47	Degrees C	5 sec	OK
/N0/RP0	DX 0	Temp. 0	62	Degrees C	5 sec	OK
/N0/RP0	DX 1	Temp. 0	66	Degrees C	5 sec	OK
/N0/RP2	Board 0	1.5 VDC 0	1.49	Volts DC	4 sec	OK
/N0/RP2	Board 0	3.3 VDC 0	3.33	Volts DC	4 sec	OK
/N0/RP2	Board 0	Temp. 0	24	Degrees C	5 sec	OK
/N0/RP2	Board 0	Temp. 1	23	Degrees C	5 sec	OK
/N0/RP2	SDC 0	Temp. 0	57	Degrees C	5 sec	OK
/N0/RP2	AR 0	Temp. 0	42	Degrees C	5 sec	OK
/N0/RP2	DX 0	Temp. 0	53	Degrees C	5 sec	OK
/N0/RP2	DX 1	Temp. 0	56	Degrees C	5 sec	OK
/N0/SB0	Board 0	1.5 VDC 0	1.50	Volts DC	4 sec	OK
/N0/SB0	Board 0	3.3 VDC 0	3.33	Volts DC	5 sec	OK

CODE EXAMPLE 21 Using the showenvironment Command (Continued)

/N0/SB0 SDC 0	Temp. 0	49	Degrees C	5 sec	OK
/N0/SB0 AR 0	Temp. 0	39	Degrees C	5 sec	OK
/N0/SB0 DX 0	Temp. 0	50	Degrees C	5 sec	OK
/N0/SB0 DX 1	Temp. 0	55	Degrees C	5 sec	OK
/N0/SB0 DX 2	Temp. 0	58	Degrees C	5 sec	OK
/N0/SB0 DX 3	Temp. 0	53	Degrees C	5 sec	OK
/N0/SB0 SBBC 0	Temp. 0	53	Degrees C	5 sec	OK
/N0/SB0 Board 1	Temp. 0	28	Degrees C	5 sec	OK
/N0/SB0 Board 1	Temp. 1	26	Degrees C	5 sec	OK
/N0/SB0 CPU 0	Temp. 0	56	Degrees C	5 sec	OK
/N0/SB0 CPU 0	1.8 VDC 0	1.72	Volts DC	5 sec	OK
/N0/SB0 CPU 1	Temp. 0	50	Degrees C	5 sec	OK
/N0/SB0 CPU 1	1.8 VDC 1	1.74	Volts DC	5 sec	OK
/N0/SB0 SBBC 1	Temp. 0	40	Degrees C	5 sec	OK
/N0/SB0 Board 1	Temp. 2	28	Degrees C	5 sec	OK
/N0/SB0 Board 1	Temp. 3	29	Degrees C	5 sec	OK
/N0/SB0 CPU 2	Temp. 0	53	Degrees C	6 sec	OK
/N0/SB0 CPU 2	1.8 VDC 0	1.72	Volts DC	6 sec	OK
/N0/SB0 CPU 3	Temp. 0	49	Degrees C	6 sec	OK
/N0/SB0 CPU 3	1.8 VDC 1	1.72	Volts DC	6 sec	OK
/N0/SB2 Board 0	1.5 VDC 0	1.52	Volts DC	6 sec	OK
/N0/SB2 Board 0	3.3 VDC 0	3.35	Volts DC	6 sec	OK
/N0/SB2 SDC 0	Temp. 0	51	Degrees C	6 sec	OK
/N0/SB2 AR 0	Temp. 0	41	Degrees C	6 sec	OK
/N0/SB2 DX 0	Temp. 0	52	Degrees C	6 sec	OK
/N0/SB2 DX 1	Temp. 0	55	Degrees C	6 sec	OK
/N0/SB2 DX 2	Temp. 0	61	Degrees C	6 sec	OK
/N0/SB2 DX 3	Temp. 0	53	Degrees C	6 sec	OK
/N0/SB2 SBBC 0	Temp. 0	52	Degrees C	6 sec	OK
/N0/SB2 Board 1	Temp. 0	27	Degrees C	6 sec	OK
/N0/SB2 Board 1	Temp. 1	26	Degrees C	7 sec	OK
/N0/SB2 CPU 0	Temp. 0	54	Degrees C	7 sec	OK
/N0/SB2 CPU 0	1.8 VDC 0	1.72	Volts DC	7 sec	OK
/N0/SB2 CPU 1	Temp. 0	52	Degrees C	7 sec	OK
/N0/SB2 CPU 1	1.8 VDC 1	1.73	Volts DC	7 sec	OK
/N0/SB2 SBBC 1	Temp. 0	43	Degrees C	7 sec	OK
/N0/SB2 Board 1	Temp. 2	27	Degrees C	7 sec	OK
/N0/SB2 Board 1	Temp. 3	27	Degrees C	7 sec	OK
/N0/SB2 CPU 2	Temp. 0	51	Degrees C	7 sec	OK
/N0/SB2 CPU 2	1.8 VDC 0	1.71	Volts DC	7 sec	OK
/N0/SB2 CPU 3	Temp. 0	51	Degrees C	7 sec	OK
/N0/SB2 CPU 3	1.8 VDC 1	1.71	Volts DC	7 sec	OK
/N0/IB6 Board 0	1.5 VDC 0	1.51	Volts DC	7 sec	OK
/N0/IB6 Board 0	3.3 VDC 0	3.29	Volts DC	7 sec	OK
/N0/IB6 Board 0	5 VDC 0	4.95	Volts DC	7 sec	OK
/N0/IB6 Board 0	12 VDC 0	11.88	Volts DC	7 sec	OK
/N0/IB6 Board 0	Temp. 0	30	Degrees C	7 sec	OK

CODE EXAMPLE 21 Using the showenvironment Command *(Continued)*

/N0/IB6	Board	0	Temp. 1	28	Degrees C	7 sec	OK
/N0/IB6	Board	0	3.3 VDC 1	3.30	Volts DC	7 sec	OK
/N0/IB6	Board	0	3.3 VDC 2	3.30	Volts DC	7 sec	OK
/N0/IB6	Board	0	1.8 VDC 0	1.81	Volts DC	7 sec	OK
/N0/IB6	Board	0	2.5 VDC 0	2.51	Volts DC	7 sec	OK
/N0/IB6	Fan	0	Cooling 0	High		3 sec	OK
/N0/IB6	Fan	1	Cooling 0	High		3 sec	OK
/N0/IB6	SDC	0	Temp. 0	63	Degrees C	8 sec	OK
/N0/IB6	AR	0	Temp. 0	73	Degrees C	8 sec	OK
/N0/IB6	DX	0	Temp. 0	68	Degrees C	8 sec	OK
/N0/IB6	DX	1	Temp. 0	72	Degrees C	8 sec	OK
/N0/IB6	SBBC	0	Temp. 0	49	Degrees C	8 sec	OK
/N0/IB6	IOASIC	0	Temp. 0	45	Degrees C	8 sec	OK
/N0/IB6	IOASIC	1	Temp. 1	51	Degrees C	8 sec	OK

For explanations of the `showenvironment` output headers see TABLE 9.

TABLE 9 `showenvironment` Output Header Description

Code Example Header	Value	Description
Slot		Slot ID
Device		Device being monitored by the sensor
Sensor		Component that measures the environmental data of the device
Value		The value returned by the sensor (data was acquired Age seconds ago)
Units		Applicable unit for the sensor (for valid units, see the Value column)
	C	Celsius
	V	Volts
Age		Age of the reading being displayed (seconds)
Status		For values for Status see the Value column
	*** WARNING HIGH ***	Value exceeded Max threshold
	* NOTICE High *	Value between High-Warning and Max thresholds
	* NOTICE Low *	Value below Min threshold
	*** WARNING LOW ***	Value below Min threshold
	OK	Value is within limits
	failed	Failed to receive sensor's value

showerrorbuffer

Shows the contents of the error buffer.

Syntax

```
showerrorbuffer [-p [-n nnn]]
```

```
showerrorbuffer -h
```

Options/Parameters

`-p` displays the error messages contained in the persistent system error buffer. This option is available only in systems configured with enhanced-memory system controllers (SC V2s).

`-n nnn` displays a specified number (where *nnn* is an integer) of error messages in chronological order. For example, `-p -n 5` displays the last five error messages in the persistent system error buffer.

`-h` displays help for the command.

Description

This command captures error message information detected by the system hardware error registers and stores them in an error buffer.

- If your system is configured with SC V2s, which feature a persistent error buffer, you can use the `-p` and `-n` options to display messages stored in the persistent error buffer. This information is maintained even after a system reboot occurs.
- Systems that have a small error buffer (where the SCs do not have enhanced memory) cannot maintain persistent error messages. However, if your domains are set to reboot automatically upon error, the output from the `showerrorbuffer` command shows error messages that otherwise might be lost when your domains are rebooted.

You and your service provider can use this command to obtain information for troubleshooting purposes.

See Also

None.

Examples

CODE EXAMPLE 22 shows a hardware error.

CODE EXAMPLE 22 showerrorbuffer Example Output for a Hardware Error

```
lom>showerrorbuffer
ErrorData[0]
  Date: Fri Jan 30 10:23:32 EST 2004
  Device: /SSC1/sbbc0/systemepld
  Register: FirstError[0x10] : 0x0200
           SB0 encountered the first error
ErrorData[1]
  Date: Fri Jan 30 10:23:32 EST 2004
  Device: /SB0/bbcGroup0/repeaterepld
  Register: FirstError[0x10]: 0x0002
           sdc0 encountered the first error
ErrorData[2]
  Date: Fri Jan 30 10:23:32 EST 2004
  Device: /SB0/sdc0
  ErrorID: 0x60171010
  Register: SafariPortError0[0x200] : 0x00000002
           ParSglErr [01:01] : 0x1 ParitySingle error
```

CODE EXAMPLE 23 shows persistent hardware error information maintained in the message buffer of a system configured with SC V2s.

CODE EXAMPLE 23 showerrorbuffer Example Output - Persistent Error Information

```
lom>showerrorbuffer -p -n 2
  Date: Fri Jan 30 10:23:32 EST 2004
  Device: /SB0/bbcGroup0/repeaterepld
  Register: FirstError[0x10]: 0x0002
           sdc0 encountered the first error

  Date: Fri Jan 30 10:23:32 EST 2004
  Device: /SB0/sdc0
  ErrorID: 0x60171010
  Register: SafariPortError0[0x200] : 0x00000002
           ParSglErr [01:01] : 0x1 ParitySingle error
```

showescape

Display the current escape sequence.

Syntax

```
showescape
```

```
showescape -h
```

Options/Parameters

-h shows help for this command.

Description

Shows the current escape sequence.

See Also

```
setescape
```

Example

```
lom>showescape  
#.
```

showeventreporting

Display the settings applied to the LOM software event reporting and messages.

Syntax

```
showeventreporting  
showeventreporting -h
```

Options/Parameters

-h shows help for this command.

Description

Show the settings applied to the LOM software event reporting and messages.

See Also

```
seteventreporting
```

Example

```
lom>showeventreporting  
eventreporting is default  
reporting level is fatal, warning & information (3)
```

showfault

Display the state of the system Fault LED.

Syntax

```
showfault
```

```
showfault -h
```

Options/Parameters

-h displays help for this command.

Description

Shows the state of the system Fault LED.

See Also

```
showalarm
```

Example

```
lom>showfault  
fault is off
```

showhostname

Display the system hostname.

Syntax

```
showhostname
```

```
showhostname -h
```

Options/Parameters

-h displays help for this command.

Description

Display the hostname of the Solaris host.

The hostname is only displayed if the Solaris operating environment is running, otherwise a - is displayed

See Also

```
showmodel
```

Example

```
lom>showhostname  
<hostname>
```


showlocator

Display the state of the system Locator LED.

Syntax

```
showlocator
```

```
showlocator -h
```

Options/Parameters

-h displays help for this command.

Example

```
lom>showlocator  
locator is off
```

See Also

```
setlocator
```

showlogs

Displays the system controller logged events stored in the system controller message buffer.

Syntax

```
showlogs [-p [-f filter][-n nnn]][-v]
```

```
showlogs -h
```

Options/Parameters

`-p` displays the error messages contained in the persistent error buffer. This option is available only in systems configured with enhanced-memory system controllers (SC V2s).

`-n nnn` displays a specified number (where *nnn* is an integer) of error messages in chronological order. For example, `-p -n 5` displays the last five error messages in the persistent error buffer.

`-f filter` indicates a certain type of message information is to be displayed, where *filter* is one of the following:

- `alert` - alert messages
- `critical` - critical messages
- `emergency` - emergency messages
- `error` - error messages
- `fault` - fault messages
- `warning` - warning messages

`-h` displays help for the command.

Description

Displays the log messages that are stored in the dynamic message buffer. Message storage in this dynamic buffer is temporary.

- Once the dynamic buffer is filled, the old messages that are logged to the consoles are overwritten by the new messages (these are messages from the system controller, not the Solaris operating environment).
- The dynamic buffer is cleared when you reboot the system controller or when a loss in power occurs.

In systems with SC V2s, messages in the dynamic buffer that have the following severity levels are retained in persistent storage, and will survive a system reboot or loss in power: `.alert`, `.error`, `.emerg`, `.warning`, and `.critical`. If the persistent storage buffer becomes full, any new messages will wrap to the beginning of the buffer and the existing messages at the beginning of the buffer will be overwritten by the newest messages.

If the loghost has been configured, then the messages will also be logged to the loghost for storage.

See Also

history, resetsc

Example

CODE EXAMPLE 24 displays the output of the `showlogs` command, run at the console after rebooting the system.

CODE EXAMPLE 24 Sample Output of the `showlogs` Command Run After Rebooting the System

```
lom>showlogs

Fri Jan 30 10:07:19 commando lom: [ID 512236 local0.notice] Boot: ScApp 5.17.0,
RTOS 38
Fri Jan 30 10:07:21 commando lom: [ID 427980 local0.notice] SBBC Reset
Reason(s): Peer Reset, Watchdog Reset
Fri Jan 30 10:07:28 commando lom: [ID 390645 local0.notice] Caching ID
information
Fri Jan 30 10:07:29 commando lom: [ID 667165 local0.notice] Clock Source: 12430-
synthesizer
Fri Jan 30 10:07:34 commando lom: [ID 641509 local0.notice] /N0/PS0: Status is OK
Fri Jan 30 10:07:35 commando lom: [ID 251798 local0.notice] /N0/PS1: Status is OK
Fri Jan 30 10:07:36 commando lom: [ID 762068 local0.notice] /N0/PS2: Status is OK
Fri Jan 30 10:07:36 commando lom: [ID 372357 local0.notice] /N0/PS3: Status is OK
Fri Jan 30 10:07:37 commando lom: [ID 515227 local0.notice] Chassis is in single
partition mode.
Fri Jan 30 10:08:24 commando lom: [ID 428967 local0.notice] Partially powered
on board CPU Board V3 at /N0/SB2 powered off
Fri Jan 30 10:08:39 commando lom: [ID 939453 local0.notice] Clear
/N0/SB4/P1/B1/D2 invalid segment
Fri Jan 30 10:09:10 commando lom: [ID 965595 local0.warning] Keyswitch was
interrupted on domain A. Recovering...
Fri Jan 30 10:09:29 commando lom: [ID 629580 local0.notice] Domain A is now in
keyswitch "off" position
Fri Jan 30 10:09:30 commando lom: [ID 596773 local0.notice] Starting telnet
server ...
```

CODE EXAMPLE 25 shows persistent log output for a system with SC V2s, run at the console.

CODE EXAMPLE 25 Sample showlogs Persistent Log Output

```
lom>showlogs -p

Fri Jan 30 10:09:10 commando lom: [ID 965595 local0.warning] Keyswitch was
interrupted on domain A. Recovering....
Fri Jan 30 10:13:45 commando lom: [ID 991471 local0.warning] Agent {/N0/SB0/P0}
is disabled.
Fri Jan 30 10:13:45 commando lom: [ID 388680 local0.warning] Agent {/N0/SB0/P1}
is disabled.
Fri Jan 30 10:14:04 commando lom: [ID 685870 local0.warning] Agent {/N0/SB0/P2}
is disabled.
Fri Jan 30 10:14:04 commando lom: [ID 983060 local0.warning] Agent {/N0/SB0/P3}
is disabled.
Fri Jan 30 10:14:27 commando lom: [ID 392085 local0.warning] Agent
{/N0/SB2/P0/C0} is disabled.
Fri Jan 30 10:14:27 commando lom: [ID 689275 local0.warning] Agent
{/N0/SB2/P0/C1} is disabled.
Fri Jan 30 10:14:28 commando lom: [ID 403192 local0.warning] Port {/N0/SB2/P0}
is disabled.
Fri Jan 30 10:14:28 commando lom: [ID 392149 local0.warning] Agent
{/N0/SB2/P1/C0} is disabled.
Fri Jan 30 10:14:28 commando lom: [ID 689339 local0.warning] Agent
{/N0/SB2/P1/C1} is disabled.
Fri Jan 30 10:14:28 commando lom: [ID 700382 local0.warning] Port {/N0/SB2/P1}
is disabled.
Fri Jan 30 10:14:44 commando lom: [ID 392213 local0.warning] Agent
{/N0/SB2/P2/C0} is disabled.
Fri Jan 30 10:14:44 commando lom: [ID 689403 local0.warning] Agent
{/N0/SB2/P2/C1} is disabled.
Fri Jan 30 10:14:45 commando lom: [ID 997572 local0.warning] Port {/N0/SB2/P2}
is disabled.
Fri Jan 30 10:14:45 commando lom: [ID 392277 local0.warning] Agent
{/N0/SB2/P3/C0} is disabled.
Fri Jan 30 10:14:45 commando lom: [ID 689467 local0.warning] Agent
{/N0/SB2/P3/C1} is disabled.
Fri Jan 30 10:14:45 commando lom: [ID 394781 local0.warning] Port {/N0/SB2/P3}
is disabled.
Fri Jan 30 10:15:15 commando lom: [ID 152595 local0.warning] Agent {/N0/SB4/P0}
is CHS disabled.
Fri Jan 30 10:15:15 commando lom: [ID 152597 local0.warning] Agent {/N0/SB4/P1}
is CHS disabled.
Fri Jan 30 10:15:41 commando lom: [ID 152599 local0.warning] Agent {/N0/SB4/P2}
is CHS disabled.
Fri Jan 30 10:15:41 commando lom: [ID 152601 local0.warning] Agent {/N0/SB4/P3}
is CHS disabled.
```

CODE EXAMPLE 25 Sample showlogs Persistent Log Output (*Continued*)

```
Fri Jan 30 10:18:30 commando lom: [ID 947844 local0.warning] Excluded unusable,
failed or disabled board: /N0/SB0
Fri Jan 30 10:18:31 commando lom: [ID 947848 local0.warning] Excluded unusable,
failed or disabled board: /N0/SB4
Fri Jan 30 10:18:31 commando lom: [ID 947846 local0.warning] Excluded unusable,
failed or disabled board: /N0/SB2
Fri Jan 30 10:18:31 commando lom: [ID 304509 local0.error] No usable Cpu board
in domain.
```

CODE EXAMPLE 26 shows persistent log output in which only critical messages are displayed.

CODE EXAMPLE 26 Sample showlogs Persistent Log Output,Critical messages Only

```
lom>showlogs -p -f critical

Mon Jan 26 10:06:07 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Mon Jan 26 10:06:07 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Mon Jan 26 10:06:11 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
Mon Jan 26 10:06:11 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
Fri Jan 30 10:02:39 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Fri Jan 30 10:02:39 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Fri Jan 30 10:02:49 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
Fri Jan 30 10:02:50 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
Fri Jan 30 10:22:55 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Fri Jan 30 10:22:55 commando lom: [ID 920266 local0.crit] ErrorMonitor: Domain
A has a SYSTEM ERROR
Fri Jan 30 10:23:06 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
Fri Jan 30 10:23:06 commando lom: [ID 764738 local0.crit] A fatal condition is
detected on Domain A. Initiating automatic restoration for this domain.
```

CODE EXAMPLE 27 shows persistent log output displayed for a specified number of messages. The output displays the last five messages in the buffer.

CODE EXAMPLE 27 Sample showlogs Persistent Log Output, Specific Number of Messages Displayed

```
lom>showlogs -p -n 5

Fri Jan 30 10:26:20 commando lom: [ID 392277 local0.warning] Agent
{/N0/SB2/P3/C0} is disabled.
Fri Jan 30 10:26:20 commando lom: [ID 689467 local0.warning] Agent
{/N0/SB2/P3/C1} is disabled.
Fri Jan 30 10:26:20 commando lom: [ID 394781 local0.warning] Port {/N0/SB2/P3}
is disabled.
Fri Jan 30 10:26:23 commando lom: [ID 947846 local0.warning] Excluded unusable,
failed or disabled board: /N0/SB2
Fri Jan 30 10:26:28 commando lom: [ID 304509 local0.error] No usable Cpu board
in domain.
lom>
```

showmodel

Display the platform model.

Syntax

```
showmodel
```

```
showmodel -h
```

Options/Parameters

-h displays help for this command.

Description

Display the name of the system platform model.

See Also

```
showhostname
```

Example

```
lom>showmodel  
model: Sun Fire V1280
```

shonetwork

Display System Controller (LOM) network settings and MAC addresses.

Syntax

```
shonetwork [-v]
```

```
shonetwork -h
```

Options/Parameters

-h displays help for this command.

-v verbose mode. Displays the system Ethernet (MAC) addresses.

Description

Show System Controller (LOM) network settings and MAC addresses.

Example

```
lom>shonetwork

Network
-----
The system controller is configured to be on a network.
Network settings: static
Hostname: commando-sc
IP Address: 129.xxx.xxx.xxx
Gateway: 129.xxx.xxx.xxx
DNS Domain: noone.somewhere.com
Primary DNS Server: 129.xxx.xxx.xxx
Secondary DNS Server: 129.xxx.xxx.xxx
Connection type: telnet
```



```
lom>shonetwork -v

Network
-----
The system controller is configured to be on a network.
Network settings: static
Hostname: commando-sc
IP Address: 129.xxx.xxx.xxx
Netmask: 255.255.255.0
Gateway: 129.xxx.xxx.xxx
DNS Domain: noone.somewhere.com
Primary DNS Server: 129.xxx.xxx.xxx
Secondary DNS Server: 129.xxx.xxx.xxx
Connection type: telnet

MAC Address                                HostID
-----
Host net0      00:03:ba:19:8b:89      83198b89
Host net1      00:03:ba:19:8b:8a      83198b8a
SC net         00:03:ba:19:8b:92      83198b92
```

See Also

setupnetwork

showresetstate

Display the CPU registers after an abnormal Solaris reset.

Syntax

```
showresetstate [-w|-s|-v] [-f <URL>]
```

```
showresetstate -h
```

Options/Parameters

-w shows windows.

-s shows secondary save registers.

-v shows all registers.

-f specify a URL for the output

<URL> is the file to receive the output

supported protocol: FTP

ftp://[<userid>:<password>@]<hostname>/<path>

-h displays help for this command.

Description

Shows the CPU registers after an abnormal Solaris reset, for example, as a result of a Solaris watchdog timeout.

showsc

Display version and uptime information about the System Controller.

Syntax

```
showsc [-v]
```

```
showsc -h
```

Options/Parameters

-h displays help for this command.

-v is verbose.

Description

Displays the version and uptime information about the System Controller.

Example

CODE EXAMPLE 28 Using the showsc Command

```
lom>showsc
SC: SSC1
Clock failover disabled.

SC date: Fri Jan 23 17:44:25 BST 2004
SC uptime: 2 hours 28 minutes 8 seconds

ScApp version: 5.17.0 Build_02
RTOS version: 38

Solaris Host Status: Active - Solaris

lom>
```

shutdown

Shut down Solaris and enter standby mode.

Syntax

```
shutdown
```

```
shutdown -h
```

Options/Parameters

-h displays help for this command.

Description

If Solaris is running, the system is cleanly halted and then powered off to standby mode. If Solaris is not running then the system is powered off to standby mode.

This should be used in preference to the `poweroff` command.

See Also

`poweron`, `poweroff`

Example

```
lom>shutdown
Shutting down Solaris ...
lom>
lom>console

The system is down.
syncing file systems... done
Powering off ...
lom>Powering boards off ...
```

testboard

Test the specified CPU/Memory board.

Syntax

```
testboard [-f] <board_name>
```

```
testboard -h
```

Options/Parameters

-h displays help for this command.

-f force testing of an already-tested board.

<board_name> is the board to be tested, and must be one of sb0, sb2 or sb4.

Description

Runs POST on the CPU/Memory board specified on the command line. The board must not be in use by Solaris at the time (that is, its status as displayed by `showboards` must not be `Active`). To display the board status use the `showboards` command.

Example

To test CPU/Memory board, sb0, type:

```
lom>testboard sb0
```


Glossary

- environmental monitoring** All systems have a large number of sensors that monitor temperature, voltage, and current. The System Controller polls devices in a timely manner and makes the environmental data available. The System Controller will shut down various components to prevent damage.
- FRU** Field-Replaceable Unit. A discrete part of the system, such as a power supply, a CPU/Memory board or a fan.
- LOM** Lights Out Management.
- LOM prompt** The LOM prompt is the operating environment for the system administrator. It provides configuration control, environmental status, the ability to power on and off the system, the ability to change the System Controller password and access to other System Controller functions.
- If POST, the Solaris operating environment, or the OpenBoot PROM is *not* running and only the System Controller software is running, you can access the LOM prompt, which is `lom>`.
- It also provides a location for console messages to be displayed.
- POST** Power-on self-test. This is the program that takes uninitialized system hardware and probes and tests its components, configures what seems worthwhile into a coherent initialized system, and hands it off to the OpenBoot PROM.
- ScApp** The software application that runs on the System Controller and which provides a command line interface for you to modify the system settings.
- SEEPROM** Serial Erasable Programmable Read-Only Memory.
- System Controller** The System Controller is an embedded system resident on the IB_SSC Assembly which connects to the system baseplane. The system controller is responsible for providing the Lights Out Management (LOM) functions which include power on sequencing, sequencing module power on self tests (POST), environmental monitoring, fault indication and alarms.

**virtual time of day
(TOD)**

The TOD/NVRAM chip is located on the System Controller board. The System Controller multiplexes the physical TOD chip to provide TOD services.

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