NAME

eeprom – EEPROM display and load utility

SYNOPSIS

/usr/platform/*platform-name***/sbin/eeprom** [–] [–**f** *device*] [*parameter* [=*value*] . . .]

AVAILABILITY

SPARC

SUNWcsu
eeprom is only available on OpenBoot-compatible SPARC systems

DESCRIPTION

eeprom displays or changes the values of parameters in the EEPROM. It processes parameters in the order given. When processing a *parameter* accompanied by a *value*, **eeprom** makes the indicated alteration to the EEPROM; otherwise it displays the *parameter*'s value. When given no parameter specifiers, **eeprom** displays the values of all EEPROM parameters. A '**–**' (hyphen) flag specifies that parameters and values are to be read from the standard input (one *parameter* or *parameter***=***value* per line).

Only the super-user may alter the EEPROM contents.

eeprom verifies the EEPROM checksums and complains if they are incorrect.

platform-name is the name of the platform implementation and can be found using the **–i** option of **uname**(1).

OPTIONS

–**f** *device* Use *device* as the EEPROM device.

NVRAM CONFIGURATION PARAMETERS

Not all OpenBoot systems support all parameters. Defaults may vary depending on the system and the PROM revision.

auto-boot? If **true**, boot automatically after power-on or reset. Defaults to **true**.

ansi-terminal? Configuration variable used to control the behavior of the terminal emulator. The value **false** makes the terminal emulator stop interpreting ANSI escape sequences, instead just echoing them to the output device. Default value: **true**.

boot-command Command executed if **auto-boot?** is **true**. Default value is **boot**.

boot-device Device from which to boot. Defaults to **disk net**.

boot-file File to boot (an empty string lets the secondary booter choose default). Defaults to empty string.

boot-from Boot device and file (OpenBoot PROM version 1.*x* only). Defaults to **vmunix**.

boot-from-diag Diagnostic boot device and file (OpenBoot PROM version 1.*x* only). Defaults to **le( )unix**.

diag-device Diagnostic boot source device. Defaults to **net**.

diag-file File from which to boot in diagnostic mode. Defaults to empty string.

diag-level	Diagnostics level. Values include **off**, **min**, **max** and **menus**. There may be additional platform-specific values. When set to **off**, POST is not called. If POST is called, the value is made available as an argument to, and is interpreted by POST. The default value is **platform-dependent**.
diag-switch?	If **true**, run in diagnostic mode. Defaults to **true**.
fcode-debug?	If **true**, include name parameter for plug-in device FCodes. Defaults to **false**.
hardware-revision	System version information.
input-device	Power-on input device (usually **keyboard**, **ttya**, or **ttyb**). Defaults to **keyboard**.
keyboard-click?	If **true** enable keyboard click. Defaults to **false**.
keymap	Keymap for custom keyboard.
last-hardware-update	System update information.
load-base	Default load address for client programs. Default value is **16384**.
local-mac-address?	If true, network drivers use their own MAC address, not system's. Defaults to **false**.
mfg-mode	Manufacturing mode argument for POST. Possible values include **off** or **chamber**. The value is passed as an argument to POST. Default value: **off**.
mfg-switch?	If true, repeat system self-tests until interrupted with STOP-A. Defaults to **false**.
nvramrc	Contents of NVRAMRC. Defaults to empty.
oem-banner	Custom OEM banner (enabled by setting **oem-banner?** to **true**). Defaults to empty string.
oem-banner?	If **true**, use custom OEM banner. Defaults to **false**.
oem-logo	Byte array custom OEM logo (enabled by setting **oem-logo?** to **true**). Displayed in hexadecimal.
oem-logo?	If **true**, use custom OEM logo (else, use Sun logo). Defaults to **false**.
output-device	Power-on input device (usually **screen**, **ttya**, or **ttyb**). Defaults to **screen**.
sbus-probe-list	Which SBus slots are probed and in what order. Defaults to **0123**.
screen-#columns	Number of on-screen columns (characters/line). Defaults to **80**.
screen-#rows	Number of on-screen rows (lines). Defaults to **34**.
scsi-initiator-id	SCSI bus address of host adapter, range 0-7. Defaults to **7**.

sd-targets Map SCSI disk units (OpenBoot PROM version 1.*x* only). Defaults to **31204567**, which means that unit 0 maps to target **3**, unit 1 maps to target **1**, and so on.

security-#badlogins Number of incorrect security password attempts.

security-mode Firmware security level (options: **none**, **command**, or **full**). If set to **command** or **full**, system will prompt for PROM security password. Defaults to **none**.

security-password Firmware security password (never displayed). Can be set only when **security-mode** is set to **command** or **full**.

```
example# eeprom security-password=
Changing PROM password:
New password:
Retype new password:
```

selftest-#megs Metabytes of RAM to test. Ignored if **diag-switch?** is **true**. Defaults to **1**.

skip-vme-loopback? If **true**, POST does not do VMEbus loopback tests. Defaults to **false**.

st-targets Map SCSI tape units (OpenBoot PROM version 1.*x* only). Defaults to **45670123**, which means that unit 0 maps to target **4**, unit 1 maps to target **5**, and so on.

sunmon-compat? If **true**, display Restricted Monitor prompt (**>**). Defaults to **false**.

testarea One-byte scratch field, available for read/write test. Defaults to **0**.

tpe-link-test? Enable 10baseT link test for built-in twisted pair Ethernet. Defaults to **true**.

ttya-mode TTYA (baud rate, #bits, parity, #stop, handshake). Defaults to **9600,8,n,1,–**.

Fields, in left-to-right order, are:

baud rate:	110, 300, 1200, 4800, 9600 . . .
data bits:	5, 6, 7, 8
parity:	n(none), e(even), o(odd), m(mark), s(space)
stop bits:	1, 1.5, 2
handshake:	–(none), h(hardware:rts/cts), s(software:xon/xoff)

ttyb-mode TTYB (baud rate, #bits, parity, #stop, handshake). Defaults to **9600,8,n,1,–**.

Fields, in left-to-right order, are:

baud rate:	110, 300, 1200, 4800, 9600 . . .
data bits:	5, 6, 7, 8
stop bits:	1, 1.5, 2
parity:	n(none), e(even), o(odd), m(mark), s(space)
handshake:	–(none), h(hardware:rts/cts), s(software:xon/xoff)

ttya-ignore-cd If **true**, operating system ignores carrier-detect on TTYA. Defaults to **true**.

ttyb-ignore-cd If **true**, operating system ignores carrier-detect on TTYA. Defaults to **true**.

ttya-rts-dtr-off If **true**, operating system does not assert DTR and RTS on TTYA. Defaults to **false**.

ttyb-rts-dtr-off If **true**, operating system does not assert DTR and RTS on TTYB. Defaults to **false**.

use-nvramrc? If **true**, execute commands in NVRAMRC during system start-up. Defaults to **false**.

version2? If **true**, hybrid (1.*x*/2.*x*) PROM comes up in version 2.*x*. Defaults to **true**.

watchdog-reboot? If **true**, reboot after watchdog reset. Defaults to **false**.

EXAMPLES

The following example demonstrates the method for changing from one to two the number of megabytes of RAM that the system will test.

```
example# eeprom selftest-#megs
selftest-#megs=1

example# eeprom selftest-#megs=2

example# eeprom selftest-#megs
selftest-#megs=2
```

The following example demonstrates the method for setting the **auto-boot?** parameter to **true**.

```
example# eeprom auto-boot?=true
```

When the **eeprom** command is executed in user mode, the parameters with a trailing question mark (?) need to be enclosed in double quotation marks (" ") to prevent the shell from interpreting the question mark. Preceding the question mark with an escape character (\) will also prevent the shell from interpreting the question mark.

example% eeprom "auto-boot?"=true

FILES

/dev/openprom device file

/usr/platform/*platform-name***/sbin/eeprom**
platform-specific version of **eeprom**. To obtain *platform-name*, use **uname –i**.

SEE ALSO

passwd(1), **sh**(1), **uname**(1)