```
==================
SOLARIS HARDWARE
==================
cfgadm: List all device names on a system
devfsadm: manages /dev and path-to-inst database
prtenv: Display EEPROM parameters
bootblk: Tells system where to boot from
btmp:     Keeps track of failed logon attempts

Check PROM Boot Device
eeprom | grep boot-device

SET AUTO_BOOT TO FALSE
------------------------------
eeprom auto-boot\?=false OR eeprom "auto-boot?"=false
SET AUTO_BOOT TO TRUE
------------------------------
eeprom auto-boot\?=true

Obtain configuration data
fbconfig -prconf       Display fb hardware configuration
fbconfig -propt        Dispaly fb software configuration
fbconfig -list         List configurable devices

SYS_CONTROL - System controller commands
- poweron
- showboards
- showchs -v -c <controller>
Show All Domains: showplatforms
Set Keyswitch to Standby: keyswitch -<domain> standby
Set Keyswitch to Off: keyswitch -<domain> off

Display License Information: flexlm
Licenses are managed from /etc/opt/licenses

Display Information (framebuffer)
Sun XVR-1200: /dev/fbs/jfb0
Sun XVR-600: /dev/fbs/jfb0
Sun XVR-300: /dev/fbs/nfb

IOSTAT: reports terminal and disk I/O activity and CPU utilization.
Display all device error statistics: iostat -E
Display device name in descripted format: iostat -n <device_name>

DISPLAYING DIMM INFORMATION:

-> show /SYS/MB/CMP0/BR0/CH0/D#

    Targets:
        SEEPROM
```

```
            SERVICE
            PRSNT
            T_AMB

        Properties:
            type = DIMM
            component_state = Enabled
            fru_name = 4096MB DDR2 SDRAM FB-DIMM 333 (PC2 2600)
            fru_description = FBDIMM 4096 Mbyte
            fru_manufacturer = Samsung
            fru_version = FFFFFF
            fru_part_number = 501-7954-01 Rev 05
            fru_serial_number = 00CE01074627037EA3
            fault_state = OK
            clear_fault_action = (none)

Setting up Network Managment Port ILOM:

-> set pendingipaddress=<ip_address>
-> set pendingipdiscovery=static
-> set pendingipnetmask=255.255.255.0
-> set pendingipgateway=<ip_address>
-> set commitpending=true


Setting up Network Managment Port ALOM:

sc> setsc if_network true
sc> setsc if_connection "telnet or ssh"
sc> setsc netsc_dhcp false
sc> setsc netsc_ipaddr <ip_address>
sc> setsc netsc_ipnetmask <netmask>
sc> setsc netsc_ipgateway <ip_address>
sc> setsc netsc_commit
Procedure to set the Serial Number after PDB replacement
----------------------------------------------------------
sc> setsc sc_servicemode true
Warning: misuse of this mode may invalidate your warranty.
sc> setcsn -c chassis_serial_number
Are you sure you want to permanently set the Chassis Serial Number
to chassis_serial_number[y/n]? y
Chassis serial number recorded.
sc> showplatform
SUNW,Sun-Fire-T5120
Chassis Serial Number: chassis-serial-number
Domain Status
------ ------
S0 Running
sc>setsc sc_servicemode false


*************************************************
```

```
Solaris ILOM / ALOM Commands
***************************************************
ILOM – Integrated Lights Out Management for:
SunFire X4100(M2)/X4200(M2)/X4600(M2)/X4140/X4240/X4440/X4150/X4250/
X4450/X4170/X4270/X2250/X2270
Sun Blade 6000 Chassis Management Module/Blade Module(X6220/X6420/
X6240/X6440/X6250/X6450/X6270/X6275)
Sun CMT servers/blades (Sun T5120, T5220, T5240, T6340, T6320)

ALOM – Advanced Lights Out Management for: SunFire V125/V210/V215/
V240/V245/V250/V440/T1000, Sun Netra 210/240/440


ILOM ALOM CMT Command Comparison


ALOM:            ILOM:
setdate          set /SP/clock datetime=value
                     value format: MMDDhhmmYYYY


setdefaults      set /SP reset_to_defaults=all
                     -> reset /SP This resets the SP


setkeyswitch     set /SYS keyswitch_state=value
                     value= normal, diag, stby, locked


setsc            set target property=value
setupsc          No equivalent in ILOM
setlocator       set /SYS/LOCATE value= Fast_Blink or off
setfru –c data   set /SYS customer_frudata=data
showplatform     show /HOST
showplatform     show /SYS ( to view Serial Number )
showfru          No equivalent in ILOM
showusers –g #   show /SP/users
showhost         show /HOST
showkeyswitch    show /SYS keyswitch_state


showsc param     show target property
VIEW DIAG LEVEL  show /HOST/diag


setsc diag_level set /HOST/diag trigger=All-resets
                     none, normal, User-reset, Power-on-reset, Error-
reset


showdate         show /SP/clock datetime


showlogs         show /SP/logs/event/list
showlogs         show /SP/faultmgmt
                 set /SP/logs/event clear=true


showenvironment  show –o table –level all /SYS
shownetwork      show /SP/network
```

```
showlocator       show /SYS/LOCATE
password          set /SP/users/<username> password
restartssh        set /SP/services/ssh restart_sshd_action=true
usershow          show /SP/users
useradd user      create /SP/users/<username>

Create "admin"    create /SP/users/admin
                  set /SP/users/admin role=Administrator
                  set /SP/users/admin cli_mode=alom

userdel user      delete /SP/users/<username>
userdel -y        delete -script /SP/users/<username>
userpassword      set /SP/users/<username> password
userperm user     set /SP/users/<username> role=permissions
consolehistory    SEE RENE FOR MORE INFO ;)
console -f        start -force /SP/console
break -c          set /HOST send_break_action=break
break -D          set /HOST send_break_action=dumpcore

bootmode          set /HOST/bootmode property=value
                      state=value "reset_nvram or normal"
                      script="setenv auto-boot? false"

flashupdate -s    load -source tftp://ipaddr/pathname
reset -c          reset /SYS
reset -y -c       reset -script /SYS
powercycle        stop /SYS
powercycle -y     stop -script /SYS
powercycle -f     stop -force /SYS
                  start -force /SYS
poweroff          stop /SYS
poweroff -y       stop -script /SYS
poweroff -f       stop -force /SYS
poweron           start /SYS
clearfault uuid   set /SYS/component clear_fault_action=true
removefru -y      set /SYS/PS0 prepare_to_remove_action=true
enablecomponent   set /SYS/component component_state=enabled
disablecomp       set /SYS/component component_state=disabled
clearasrdb        No equivalent in ILOM
resetsc           reset /SP
resetsc -y        reset -script /SP
userclimode       set /SP/users/<username> cli_mode=default or alom
logout            exit

ALOM CMT Variable Comparison

ALOM:             ILOM:
diag_level        /HOST/diag level
diag_mode         /HOST/diag mode
diag_trigger      /HOST/diag trigger
```

```
diag_verbosity  /HOST/diag verbosity
if_connection   /SP/services/ssh state
if_emailalerts  /SP/clients/smtp state
if_network      /SP/network state
if_snmp         /SP/services/snmp
mgt_mailalert   /SP/alertmgmt/rules
mgt_mailhost    /SP/clients/smtp address
mgt_snmptraps   /SP/sevices/snmp v1|v2c|v3
mgt_traphost    /SP/alertmgmt/rules
                /SP/services/snmp port
netsc_dhcp      /SP/network pendingipdiscovery
netsc_commit    /SP/network commitpending=true
netsc_enetaddr  /SP/network macaddress
netsc_ipaddr    /SP/network pendingipaddress
netsc_ipgateway /SP/network pendingipgateway
netsc_ipnetmask /SP/network pendingipnetmask
sc_backupuserdata       /SP BACKUP_USER_DATA
sc_customerinfo /SP system_identifier
sc_escapechars  /SP/console escapechars
sc_powerondelay /SP/policy HOST_POWER_ON_DELAY

sc_powerstatememory     /SP/policy HOST_LAST_POWER_STATE
                        States= enabled or disabled


ser_baudrate    /SP/serial/external pendingspeed
ser_data        No equivalent in ILOM
ser_parity      /SP/serial/external pendingparity
ser_stopbits    /SP/serial/external pendingstopbits
sys_autorestart /SP autorestart
sys_autorunonerror      /SP autorunonerror
sys_eventlevel  No equivalent in ILOM
sys_enetaddr    /HOST macaddress
```

HOW TO RESET ILOM PASSWORD

InfoDoc #: 209731

Power down the host system (using the front panel powerbutton)
or if an SP admin account exists, you can alternatiely use that
accounts ALOM Command Line Interface poweroff command.

Unplug the system's power cord(s) Remove the system's top cover.

 Insert a Jumper (you provide the jumper) on Pins 1 & 2 of PJ6801.
 This Jumper is located at the T5120/T5220 Motherboard

 Insert a Jumper (you provide the jumper) on Pins 1 & 2 of J10401
 This Jumper is located on the SP of the T5140/T5240

– near the edge of the Motherboard at rear of the system –

center of the rear edge of the Motherboard.

Plug in the system's power cord(s).

Press the front panel Power button to power on the system.
  You must power on the system to complete the reset.

This is because the state of the PJ6801 jumper cannot be
determined without the host CPU running.

The SP root password will be reset to the default changeme.

Log in as root into the SP, using any available method — ssh
or a Web Browser to the SP's network management port or via
tip-hardware or a terminal server to the SP's serial management
port.

Password to use is   changeme.

That is simply to see if the changeme password works.

Power down the system using the front panel

Unplug the system's power cord(s)

Remove the PJ6801 jumper. You must remove the PJ6801 jumper
after resetting the password, or the password will be reset
every time the SP is reset (e.g. at power up).

Replace the system's top cover.

Plug in the system's power cord(s).

If the system administrator would like the SP's root account
password changed to something other than changeme Then you
can change the root password using the usualSP's root account's
Command Line User Interface command. Whether or not the SP's root
account password is to be changed to something different than changeme
after the top cover has been reinstalled and the system's power
cord(s)
plugged-in, if the system administrator would like the Host powered-
up,
that can be done using the front panel power button or via a login to
the SP's root or admin accounts and the appropriate START or
power on, respectively, may be used.
Sun Common Array Manager Software (CAMS)
----
svn://system/fmservice:default
/opt/SUNWsefms/sbin/fmservice.sh
start | stop | restart | status

Categorize Manpages: catman -w
cfgadm List all device names on a system
devfsadm - manages /dev and path-to-inst database
===================
SUNRAY
===================
SUNRAY command: /opt/SUNWut
Sun Ray commands location: /opt/SUNWut/sbin

Restart Sun Ray services without clearing sessions: # utrestart
Restart Sun Ray services and CLEAR sessions: # utrestart -c

SUNRAY won't connect:
1. Is it getting an IP address?
- Make sure DHCP is running. Thin clients aren't usually configured manually.
2. Launch SunRay Administration GUI
- Launch browser
- Use <sunray server>:1660
3. Restart Sunray Service
/etc/init.d/utsvc stop; /etc/init.d/utsvc start

XHOST: /usr/openwin/bin/xhost
XINERAMA - X Windows feature used to move windows across screen boundaries
- Enable xinerama: add +xinerama to the Xsun command line in /etc/dt/config/Xservers
- The Xserver cannot be started on display :0
- Error log: /var/dt/Xerrors
XSUN - Solaris X11 server. It is started by dtlogin.

Display Information (framebuffer)
Sun XVR-1200: /dev/fbs/jfb0
Sun XVR-600: /dev/fbs/jfb0
Sun XVR-300: /dev/fbs/nfb

===================
CDE
===================
CDE - Common Desktop Environment
  /usr/dt/bin/sdtprocess

Restart CDE from the command line
As the user, verfiy dtwm as down
ps -ef | grep dtwm
Now start: /usr/dt/bin/dtwm &

CDE Errors log: /var/dt/Xerrors and ~/.dt/errorlog

CDE/Openwin: Reset terminal size for vi

```
% set TERM vt100
% /usr/openwin/bin/resize
LINE=12
Change a Sun Workstation's Resolution
1. View the current configuration
% fbconfig -prconf
2. Find the fb device to change
% ls -la /dev/fb*
3. Change resolution
% fbconfig -dev /dev/<fb #> -res <resolution> -defdepth 24

Forward Solaris Graphical Programs to another machine
% xhost +
% echo $DISPLAY # Note the hostname:port result
% ssh -X userid@hostname
% setenv DISPLAY <hostname:port>   # from original machine


======================
Kill a frozen CDE login
======================
pkill -9 Xsun
```