

RHEL: Displaying system info (firmware, serial numbers...)

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```
# Tested on RHEL 5, 6 & 7
```

```
# Network interface cards driver, driver version, firmware version,  
and bus information
```

```
ethtool -i eth0
```

```
driver: bnx2  
version: 2.0.8-rh  
firmware-version: bc 5.2.3 NCSI 2.0.6  
bus-info: 0000:03:00.0
```

```
cat /var/log/dmesg | grep eth
```

```
eth0: Broadcom NetXtreme II BCM5709 1000Base-T (C0) PCI Express  
found at mem f4000000, IRQ 169, node addr a0b3cce6a754  
eth1: Broadcom NetXtreme II BCM5709 1000Base-T (C0) PCI Express  
found at mem f2000000, IRQ 201, node addr a0b3cce6a756  
eth2: Broadcom NetXtreme II BCM5709 1000Base-T (C0) PCI Express  
found at mem f8000000, IRQ 217, node addr a0b3cce6a758  
eth3: Broadcom NetXtreme II BCM5709 1000Base-T (C0) PCI Express  
found at mem f6000000, IRQ 225, node addr a0b3cce6a75a
```

```
# NIC model - 'lspci'
```

```
lspci | grep net
```

```
03:00.0 Ethernet controller: Broadcom Corporation NetXtreme II
```

BCM5709 Gigabit Ethernet (rev 20)

03:00.1 Ethernet controller: Broadcom Corporation NetXtreme II

BCM5709 Gigabit Ethernet (rev 20)

04:00.0 Ethernet controller: Broadcom Corporation NetXtreme II

BCM5709 Gigabit Ethernet (rev 20)

04:00.1 Ethernet controller: Broadcom Corporation NetXtreme II

BCM5709 Gigabit Ethernet (rev 20)

SCSI adapters verbose information

systool -c scsi_host -v

Class = "scsi_host"

Class Device = "host0"

Class Device path = "/sys/class/scsi_host/host0"

cmd_per_lun = "1"
host_busy = "0"
proc_name = "cciss"
scan = <store method only>
sg_tablesize = "543"
state = "running"
uevent = <store method only>
unchecked_isa_dma = "0"
unique_id = "154"

Device = "host0"

Device path =

"/sys/devices/pci0000:00/0000:00:01.0/0000:05:00.0/host0"

uevent = <store method only>

Class Device = "host1"

Class Device path = "/sys/class/scsi_host/host1"

cmd_per_lun = "1"
host_busy = "0"
proc_name = "ata_piix"
scan = <store method only>

```
sg_tablesize      = "128"
state             = "running"
uevent           = <store method only>
unchecked_isa_dma = "0"
unique_id        = "1"

Device = "host1"
Device path = "/sys/devices/pci0000:00/0000:00:1f.2/host1"
uevent           = <store method only>
```

[.....]

SCSI devices information

cat /proc/scsi/scsi

Attached devices:

Host: scsi1 Channel: 00 Id: 00 Lun: 00

Vendor: TEAC Model: DV-28S-W Rev: C.2D

Type: CD-ROM ANSI SCSI revision: 05

Fibre Channel HBA HW information

systool -c fc_host -v

Class = "fc_host"

Class Device = "host3"

Class Device path = "/sys/class/fc_host/host3"

active_fc4s = "0x00 0x00 0x01 0x00 0x00 0x00 0x00 0x01
0x00 ..."

fabric_name = "0x0"

issue_lip = <store method only>

maxframe_size = "2048 bytes"

node_name = "0x20000090fa326a42" <-- Node WWN

port_id = "0x000000"

port_name = "0x10000090fa326a42" <-- Port WWN

port_state = "Linkdown"

```
port_type           = "Unknown"
speed               = "unknown"
supported_classes   = "Class 3"
supported_fc4s      = "0x00 0x00 0x01 0x00 0x00 0x00 0x00 0x01
0x00 ..."
supported_speeds    = "2 Gbit, 4 Gbit, 8 Gbit"
tgtid_bind_type     = "wwpn (World Wide Port Name)"
uevent              = <store method only>
```

```
Device = "host3"
```

```
Device path =
```

```
"/sys/devices/pci0000:20/0000:20:02.0/0000:27:00.0/host3"
```

```
uevent              = <store method only>
```

```
# Fibre Channel HBA driver information (In this case for Emulex HBA)
```

```
modinfo lpfc | egrep -i "emul|sion"
```

```
version:           0:8.2.0.128.3p
```

```
author:            Emulex Corporation - tech.support@emulex.com
```

```
description:       Emulex LightPulse Fibre Channel SCSI driver
```

```
8.2.0.128.3p
```

```
srcversion:        2A68E3242E7EBF06DDA7741
```

```
# HBA Firmware revision:
```

```
cat /sys/class/scsi_host/host3/fwrev
```

```
1.11A5 (U3D1.11A5), sli-3
```

```
# BIOS version and Serial Number (and other informations)
```

```
/usr/sbin/dmidecode | more
```

```
SMBIOS 2.7 present.
```

```
# SMBIOS implementations newer than version 2.6 are not
```

```
# fully supported by this version of dmidecode.
```

134 structures occupying 4012 bytes.
Table at 0xDF7FE000.

Handle 0x0000, DMI type 0, 24 bytes

BIOS Information

Vendor: HP
Version: P67
Release Date: 05/05/2011
Address: 0xF0000
Runtime Size: 64 kB
ROM Size: 8192 kB
Characteristics:
 PCI is supported
 PNP is supported

[.....]

System Information

Manufacturer: HP
Product Name: ProLiant DL380 G7
Version: Not Specified
Serial Number: CZ21xxxx2
UUID: 343xxx36-3xx0-5xx3-3231-343530444332
Wake-up Type: Power Switch
SKU Number: 63xxx5-421
Family: ProLiant

[.....]

Disks and tape drives serial numbers

sginfo -s /dev/sda

Serial Number '00c0ff10c5070000579cc94c01000000 '

sginfo -s /dev/cciss/c0d0

Serial Number '50014380175480A0'

SMART array controllers information

cat /proc/driver/cciss/cciss0

cciss0: HP Smart Array P410i Controller
Board ID: 0x3245103c
Firmware Version: 5.12
IRQ: 138
Logical drives: 1
Current Q depth: 0
Current # commands on controller: 0
Max Q depth since init: 157
Max # commands on controller since init: 160
Max SG entries since init: 128
Sequential access devices: 0

cciss/c0d0: 146.77GB RAID 1(1+0)

CPU information

cat /proc/cpuinfo

processor : 0
vendor_id : GenuineIntel
cpu family : 6
model : 44
model name : Intel(R) Xeon(R) CPU E5649 @ 2.53GHz
stepping : 2
cpu MHz : 2532.691
cache size : 12288 KB
physical id : 0
siblings : 12
core id : 0
cpu cores : 6
apicid : 0
fpu : yes

```
fpu_exception      : yes
cpuid level        : 11
wp                 : yes
flags              : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr
pge [...]
bogomips           : 5065.38
clflush size      : 64
cache_alignment    : 64
address sizes      : 40 bits physical, 48 bits virtual
power management: [8]
[.....]
```

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