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## FreeBSD Check The Health of Adaptec RAID Array

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I've Adaptec RAID 1 set via 5405 PCI card. I know how to get check the [health of Adaptec RAID array under Linux](#) <sup>[2]</sup>, but how do I find information about my RAID card, RAID status, disk failure and other information via command line?

aac is Adaptec AdvancedRAID Controller driver under FreeBSD operating system that works with HP NetRAID, IBM ServeRAID, Sun STK RAID, Dell PERC / CERC, and Adaptec SCSI / SATA systems. The Adaptec AAC family of SCSI Ultra2, Ultra160, and Ultra320, SATA and SAS RAID controllers.

## Find Out Information About Your RAID Device

Type the following commands:

```
# dmesg | grep -i RAID
```

Sample Outputs:

```
aac0:  mem 0xe8000000-0xe81fffff irq 16 at device 0.0 on pci6
aacd0:  on aac0
```

```
# pciconf -l | grep -i aac
```

Output:

```
aac0@pci0:6:0:0: class=0x010400 card=0x02d19005 chip=0x02859005 rev=0x09 hdr=0x00
```

## FreeBSD arconf

arconf is command Line Interface for the Adaptec SCSI RAID family of RAID controllers, used to configure and manage connected storage devices. It can be used to get detailed information about RAID configuration including health status.

### FreeBSD Install arconf

Type the following commands:

```
# portsnap fetch update
# cd /usr/ports/sysutils/arconf
# make install clean && rehash
```

## How Do I Use arconf To Information About The Health Of My Adaptec RAID Array?

Type the following command at a shell prompt to get the information controller # 1:

```
# /usr/local/sbin/arconf getconfig 1
```

Sample Outputs:

```
Controllers found: 1
-----
```

## Controller information

```

-----
Controller Status                : Optimal
Channel description              : SAS/SATA
Controller Model                 : Adaptec 5405
Controller Serial Number        : 8C4310BD20D
Physical Slot                    : 2
Temperature                      : 58 C/ 136 F (Normal)
Installed memory                 : 256 MB
Copyback                        : Disabled
Background consistency check    : Disabled
Automatic Failover              : Enabled
Global task priority            : High
Performance Mode                : Default/Dynamic
Stayawake period                : Disabled
Spinup limit internal drives    : 0
Spinup limit external drives    : 0
Defunct disk drive count       : 0
Logical devices/Failed/Degraded : 1/0/0
-----

```

## Controller Version Information

```

-----
BIOS                            : 5.2-0 (16501)
Firmware                        : 5.2-0 (16501)
Driver                          : 5.2-0 (16501)
Boot Flash                      : 5.2-0 (16501)
-----

```

## Controller Battery Information

```

-----
Status                          : Optimal
Over temperature                 : No
Capacity remaining               : 99 percent
Time remaining (at current draw) : 3 days, 0 hours, 52 minutes
-----

```

## Logical device information

## Logical device number 0

```

-----
Logical device name              : RAID1-A
RAID level                       : 1
Status of logical device        : Optimal
Size                            : 285686 MB
Read-cache mode                 : Enabled
Write-cache mode                : Enabled (write-back)
Write-cache setting             : Enabled (write-back) when protected by batter
Partitioned                     : Yes
Protected by Hot-Spare          : No
Bootable                        : Yes
Failed stripes                  : No
Power settings                  : Disabled
-----

```

## Logical device segment information

```

-----
Segment 0                       : Present (0,0) 3LM44BDA00009839M228
Segment 1                       : Present (0,1) 3LM4C6B000009841PEW9
-----

```

## Physical Device information

## Device #0

```

-----
Device is a Hard drive
State                          : Online
Supported                     : Yes
Transfer Speed                 : SAS 3.0 Gb/s
Reported Channel,Device(T:L)  : 0,0(0:0)
Reported Location              : Connector 0, Device 0
Vendor                         : SEAGATE
Model                         : ST3300655SS
Firmware                       : 0004
Serial number                  : 3LM44BDA00009839M228
-----

```

```
World-wide name      : 5000C50006EDAD74
Size                  : 286102 MB
Write Cache          : Enabled (write-back)
FRU                   : None
S.M.A.R.T.           : No
Device #1
Device is a Hard drive
State                 : Online
Supported             : Yes
Transfer Speed        : SAS 3.0 Gb/s
Reported Channel,Device(T:L) : 0,1(1:0)
Reported Location     : Connector 0, Device 1
Vendor                : SEAGATE
Model                 : ST3300655SS
Firmware              : 0004
Serial number         : 3LM4C6B000009841PEW9
World-wide name      : 5000C50006EF88D8
Size                  : 286102 MB
Write Cache          : Enabled (write-back)
FRU                   : None
S.M.A.R.T.           : No
```

Command completed successfully.

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[2] health of Adaptec RAID array under Linux: <http://www.cyberciti.biz/faq/howto-check-adaptec-raid-array/>