



## Adaptec - снимаем информацию с RAID-контролера

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В одном из обслуживаемых серверов, согласно выводу **dmesg**, установлен **RAID**-контроллер **Adaptec**, который **FreeBSD** распознала как **aac0**. Выборка из **dmesg**:

```
# cat /var/run/dmesg.boot | grep RAID
aac0: Adaptec RAID controller, aac driver 2.1.9-1
aacd0: <RAID 1 (Mirror)> on aac0
```

Для работы с этим контроллером воспользуемся возможностями утилиты **arccconf**. **Arccconf** - утилита для работы с контроллерами **RAID** из командной строки. С ее помощью можно получить детальную информацию о контроллере и созданных массивах.

Установку, как всегда, выполним из системы портов:

```
# cd /usr/ports/sysutils/arccconf && make install clean && rehash
```

Размер дистрибутива "порадовал" - 99 MB. Хорошо, что сервер отдавал дистрибутив на скорости около 20 Mbps. А установка вообще заняла несколько строк. Собственно:

```
# cd /usr/ports/sysutils/arccconf && make install clean && rehash
=> asm_freebsd_x86_v7_30_18837.tgz doesn't seem to exist in /usr/ports/distfiles/.
=> Attempting to fetch
http://download.adaptec.com/raid/storage\_manager/asm\_freebsd\_x86\_v7\_30\_1... [1]
asm_freebsd_x86_v7_30_18837.tgz      100% of  99 MB 2641 kBps 00m00s
====> Extracting for arccconf-v7.30.18837
=> SHA256 Checksum OK for asm_freebsd_x86_v7_30_18837.tgz.
====> Patching for arccconf-v7.30.18837
====> Configuring for arccconf-v7.30.18837
====> Installing for arccconf-v7.30.18837
====> Generating temporary packing list
====> Checking if sysutils/arccconf already installed
install -s -o root -g wheel -m 555 /usr/ports/sysutils/arccconf/work/freebsd8/cmdline/arccconf
/usr/local/sbin
install -o root -g wheel -m 555 /usr/ports/sysutils/arccconf/work/410.status-aac-raid
/usr/local/etc/periodic/daily
====> Registering installation for arccconf-v7.30.18837
====> Cleaning for arccconf-v7.30.18837
```

После установки утилиты ознакомимся с ее возможностями. Для вывода "хелпа" запустим утилиту без указания ключей:

```
# arccconf
```



```

| UCLI | Adaptec by PMC uniform command line interface | UCLI | Version 7.30 (B
18837) | UCLI | (C) Adaptec by PMC 2003-2011 | UCLI | All Rights Reserved

ATAPASSWORD | Setting password on a physical drive COPYBACK
| toggles controller copy back mode CREATE | creates a logical
device DATASCRUB | toggles the controller background consistency check
mode DELETE | deletes one or more logical devices FAILOVER
| toggles the controller automatic failover mode GETCONFIG | p
rints controller information GETLOGS | gets controller log informati
on GETSMARTSTATS | gets the SMART statistics GETSTATUS | dis
plays the status of running tasks GETVERSION | prints version informati
on for all controllers IDENTIFY | blinks LEDS on device(s) connected
to a controller IMAGEUPDATE | update physical device firmware KEY
| installs a Feature Key onto a controller MODIFY | p
erforms RAID Level Migration or Online Capacity Expansion RESCAN |
checks for new or removed drives RESETSTATISTICSCOUNTERS | resets the controller sta
tistics counters ROMUPDATE | updates controller firmware SAVESUPPORTAR
CHIVE | saves the support archive SETALARM | controls the contro
ller alarm, if present SETCACHE | adjusts physical or logical device
cache mode SETCONFIG | restores the default configuration SETMAXCACHE
| adjusts MaxCache settings for physical or logical device SETNAME
| renames a logical device given its logical device number SETNCQ
| toggles the controller NCQ status SETPERFORM | changes adap
ter settings based on application SETPOWER | power settings for contr
oller or logical device SETPRIORITY | changes specific or global task pr
iority SETSTATE | manually sets the state of a physical or logical de
vice SETSTATSDATACOLLECTION | toggles the controller statistics data collection mod
es TASK | performs a task such as build/verify on a physical or l
ogical device

```

Проверим состояние массива (он у меня под номером 1):

```

# arccconf GETCONFIG 1

Controllers found: 1-----
-----Controller information-----
----- Controller Status : Optimal Channel descri
ption : SCSI Controller Model : PERC
3/Di Controller Serial Number : 202020D3 Installed memory
: 128 MB Copyback : Disabled B
ackground consistency check : Disabled Automatic Failover
: Enabled Stayawake period : Disabled Spinup l
imit internal drives : 0 Spinup limit external drives : 0
Defunct disk drive count : 0 Logical devices/Failed/Degraded
: 1/0/1 ----- Controlle
r Version Information ----- B
IOS : 2.8-0 (6095) Firmware
: 2.8-0 (6095) Driver : 2.1-9 (1)
Boot Flash : 0.0-0 (0) -----
----- Controller Battery Information -----
----- Status : O
ptimal Over temperature : No Capacity remaining
: 0 percent Time remaining (at current draw) : 0 days, 0 hou
rs, 0 minutes

-----Logical device
information-----Lo
gical device number 0 Logical device name : centr RAID leve
l : 1 Status of logical device : Deg

```



```

raged   Size                               : 69998 MB   Write-cache mode
        : Not supported   Partitioned           : Yes
Protected by Hot-Spare                     : No   Bootable
        : Yes   Failed stripes                 : No   Power settings
        : Disabled -----
----- Logical device segment information -----
----- Segment 0                               : Missing   Segment 1
        : Present (Controller:1,Channel:0,Device:2) 3HW1MXFH
-----
-----Physical Device
e information-----
Channel #0:      Transfer Speed              : Ultra160   Initiator a
t SCSI ID 7     Device #0                    Device is a Hard drive      State
Transfer Speed  : Ready                      Supported              : Yes   Tr
: 0,0(0:0)      Vendor                       : IBM-ESXS           Model
: C901          Serial number                 : MAS3735NC   FN   Firmware
:              : 70006 MB                      Write Cache          : Unk
nown           FRU                           : 32P0737         S.M.A.R.T.
: No           S.M.A.R.T. warnings            : 0   Device #2
Device is a Hard drive      State              : Online
Supported                  : Yes           Transfer Speed
: Ultra160                 Reported Channel,Device(T:L) : 0,2(2:0)   Vend
or                          : SEAGATE      Model
: ST373453LC               Firmware                   : DX10         Serial number
:                          : 3HW00XFH      Size          : 70007
MB          Write Cache                       : Unknown      FRU
: None          S.M.A.R.T.                   : No           S.M.A.
R.T. warnings : 0   Device #6                    Device is an Enclosure
Type          : SAF-TE          Vendor
: PE/PV      Model              : 1x5 SCSI BP   Firmw
are           : 1.1             Status of Enclosure      Temperatu
re status    : Normal   Channel #1:      Transfer Speed
: Ultra160   Initiator at SCSI ID 7     No physical drives attached

Command completed successfully.

```

Как оказалось, один из дисков "вылетел" из массива. Скорей всего кто-то выдернул диск на работающей системе, то есть "вгорячую". Необходимо пересобрать массив, но это уже тема для отдельной статьи ;)

**Источник (получено 2025-03-14 14:47):**

<http://muff.kiev.ua/content/adaptec-snimaem-informatsiyu-s-raid-kontrolera>

**Ссылки:**

[1] [http://download.adaptec.com/raid/storage\\_manager/asm\\_freebsd\\_x86\\_v7\\_30\\_18837.tgz](http://download.adaptec.com/raid/storage_manager/asm_freebsd_x86_v7_30_18837.tgz)