



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 1
imit internal drives          : 0   Spinup limit external drives          : 0
Defunct disk drive count          : 0   Logical devices/Failed/Degraded
          : 1/0/1   ----- Controller
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
```



```
rated      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
ansfer Speed     : Ultra160                     Reported Channel,Device(T:L)
      : 0,0(0:0)      Vendor                   : IBM-ESXS      Model
      : C901          Serial number              : 05000G1K      Size
      : 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
Supported        : Yes   Transfer Speed
      : Ultra160      Reported Channel,Device(T:L) : 0,2(2:0)      Vend
or
      : 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            : 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 2025-05-09 15:53):

<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