

Re: Serial ATA RAID Controllers (5.x)

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2004-10/0239.html>

From: Giovanni P. Tirloni (gpt_at_tirloni.org)

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Date: Thu, 28 Oct 2004 09:02:51 -0300
To: Charles Sprickman <spork@inch.com>

Charles Sprickman wrote:

> *On Wed, 27 Oct 2004, Steve wrote:*
>
>
>> *3ware 9xxx series is much better than adaptec,*
>> *Adaptec will not work with dbsd without some tweaking, 3ware will work*
>> *flawlessly.*
>
>
> *Are you running 4.x or 5.x?*

I've been testing 5.3-BETA7 with an Intel SE7210TP1-E motherboard.
It has Adaptec HostRAID and I'm using two Seagate 160GB SATA drives.
So far things are working as expected.

I had to create the RAID 1 array with atacontrol before installing
FreeBSD. Below is the output of `diskinfo -t /dev/ar0` with the default
GENERIC kernel. I've done no tuning yet.

```
/dev/ar0
  512 # sectorsize
 160041853440 # mediasize in bytes (149G)
  312581745 # mediasize in sectors
  19457 # Cylinders according to firmware.
   255 # Heads according to firmware.
    63 # Sectors according to firmware.
```

Seek times:

```
Full stroke: 250 iter in 1.515921 sec = 6.064 msec
Half stroke: 250 iter in 1.511172 sec = 6.045 msec
Quarter stroke: 500 iter in 2.999155 sec = 5.998 msec
Short forward: 400 iter in 2.200966 sec = 5.502 msec
Short backward: 400 iter in 1.902325 sec = 4.756 msec
Seq outer: 2048 iter in 0.482156 sec = 0.235 msec
Seq inner: 2048 iter in 0.490824 sec = 0.240 msec
```

Transfer rates:

```
outside: 102400 kbytes in 1.803000 sec = 56794 kbytes/sec
```

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middle: 102400 kbytes in 2.151312 sec = 47599 kbytes/sec

inside: 102400 kbytes in 3.436182 sec = 29801 kbytes/sec

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