

freebsd-performance: Re: promise sx4000 card & tx4000 results over 170mb/s sustained read

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Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-07/0044.html>

From: Pedram Nimreezi (*Support_at_Netflag.Net*)

Date: 07/18/03

Date: Fri, 18 Jul 2003 14:56:17 -0700

To: Trent George <soundsampler@sbcglobal.net>, sos@freebsd.org

I have a raid10 configuration with 4 western digital 8mb cache 120gig hard drives using a 2400a controller from adaptec on a dual 2400 xeon with 2 gigs ECC ram I'm doing the same tests... I'm getting 33mb/s. I got the controller because I figured it would be better to use a hardware solution... Does all this sound right?

I should be getting much better results shouldn't I? After striping and mirroring i get

220 gigs free and from a report I read this configuration gets better performance from the 2400A

<http://www.xbitlabs.com/articles/storage/display/adaptec-2400a.html>

At 09:00 PM 7/17/2003 -0700, Trent George wrote:

>Hi Soren,

>

>I wanted to congratulate you on fantastic results in performance on a >tx4000 card.

>

>I have a dual amd mb with 66mhz support slot. 4 western digital drives >(180gb each)

>

>I have clocked sustained 176mb/s read from this raid0 array and 120+mb/s write

>

>writes seemed cpu bound ? (50% idle from second processor)

>reads 56% idle (first process close to maxed out)

>

>there were several tricks to getting this performance, custom kernel compile

>

>1/ MAXPHYS=256k

>2/ MAXBSIZE=256k

>3/ atacontrol create RAID0 128 /dev/ad4 /dev/ad6 /dev/ad8 /dev/ad10

>4/ newfs -U bs=262144 /dev/ar0

>

>this allowed 64kb stripe size to use 4 drives on each "block" parallel reading

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>
>*i used iostat to monitor processor and transfer rate using following commands*
>
>*dd of=test.dat if=/dev/zero bs=64k count=20000*
>*dd if=test.dat of=/dev/null bs=64k*
>
>*Question #2*
>
>*I purchased a sx4000 card in the hope to increase speed :-)*
>*I noticed that PDC20621 is not in ata-chipset.c yet*
>*The card is not recognised on boot ether.*
>
>*Is there anything I can do or provide to help you add support for this card ?*
>
>*Question #3*
>
>*Is there any plans to support intel SATA raid support on ICH5R (i865/i875)*
>*for boot up (sort of like promise and highpoint)*
>
>*I have been experimenting with gigabit ethernet and sustained 100mb/s*
>*samba read/write performance, and seem to be making good progress.*
>
>*also experimenting on huge writeback cache (400mb+) up from 1mb*
>*vfs.hirunningspace*
>*seems to help with impressive burst network transfer speed.*
>
>
>*Thanks*
>
>*Trent George*
>
>
>
>*PS I don't know if you remember but I sent an amd system to you a long*
>*time ago to help add support for highpoint chipsets, I appreciate all your*
>*great work.*
>
>
>

>*freebsd-performance@freebsd.org mailing list*
>*<http://lists.freebsd.org/mailman/listinfo/freebsd-performance>*
>*To unsubscribe, send any mail to*
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