

freebsd-performance: Re: SCSI Bus tuning.

Re: SCSI Bus tuning.

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/performance/2003-07/0011.html>

From: Gary Stanley (gary_at_outloud.org)

Date: 07/06/03

Date: Sun, 06 Jul 2003 07:18:41 -0400
To: rmkml <rmkml@wanadoo.fr>

As for your perf tools, [http](http://www.freebsd.org/~zeus/) (zeus 4.2)

If you need anymore relevant information, I can provide more.

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FreeBSD 4.8-STABLE #1: Fri Jun 20 22:42:22 EDT 2003

gary@202-206.adultbouncer.com:/usr/obj/usr/src/sys/Gary

Timecounter "i8254" frequency 1193182 Hz

Timecounter "TSC" frequency 1999441064 Hz

CPU: Intel(R) Xeon(TM) CPU 2.00GHz (1999.44-MHz 686-class CPU)

Origin = "GenuineIntel" Id = 0xf27 Stepping = 7

Features=0xbfebfbff<FPU,VME,DE,PSE,TSC,MSR,PAE,MCE,CX8,APIC,SEP,MTRR,PGE,MCA,CMOV,PAT,PS

Hyperthreading: 2 logical CPUs

real memory = 2146959360 (2096640K bytes)

avail memory = 2084384768 (2035532K bytes)

Preloaded elf kernel "kernel" at 0x803a8000.

Pentium Pro MTRR support enabled

md0: Malloc disk

Using \$PIR table, 29 entries at 0x800fddf0

npx0: <math processor> on motherboard

npx0: INT 16 interface

pcib0: <Host to PCI bridge> on motherboard

pci0: <PCI bus> on pcib0

pci0: <unknown card> (vendor=0x8086, dev=0x2541) at 0.1

pcib1: <PCI to PCI bridge (vendor=8086 device=2543)> at device 2.0 on pci0

pci1: <PCI bus> on pcib1

pci1: <unknown card> (vendor=0x8086, dev=0x1461) at 28.0

pcib2: <PCI to PCI bridge (vendor=8086 device=1460)> at device 29.0 on pci1

pci2: <PCI bus> on pcib2

pci1: <unknown card> (vendor=0x8086, dev=0x1461) at 30.0

pcib3: <PCI to PCI bridge (vendor=8086 device=1460)> at device 31.0 on pci1

pci3: <PCI bus> on pcib3

aac0: <Adaptec SCSI RAID 2120S> mem 0xf8000000-0xfbffffff irq 11 at device 1.0 on pci3

aac0: i960RX 100MHz, 48MB cache memory, optional battery present

aac0: Kernel 4.0-0, Build 5770, S/N b7c096

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aac0: Supported

Options=1f7e<CLUSTERS,WCACHE,DATA64,HOSTTIME,RAID50,WINDOW4GB,SOFTERR,NORECOND,SGM

aacp0: <SCSI Passthrough Bus> on aac0

em0: <Intel(R) PRO/1000 Network Connection, Version - 1.6.6> port
0x3000-0x303f mem 0xf4200000-0xf421ffff irq 11 at device 2.0 on pci3

em0: Speed:1000 Mbps Duplex:Full

em1: <Intel(R) PRO/1000 Network Connection, Version - 1.6.6> port
0x3040-0x307f mem 0xf4220000-0xf423ffff irq 11 at device 2.1 on pci3

em1: Speed:N/A Duplex:N/A

pcib4: <PCI to PCI bridge (vendor=8086 device=2545)> at device 3.0 on pci0

pci4: <PCI bus> on pcib4

pci4: <unknown card> (vendor=0x8086, dev=0x1461) at 28.0

pcib5: <PCI to PCI bridge (vendor=8086 device=1460)> at device 29.0 on pci4

pci5: <PCI bus> on pcib5

pci4: <unknown card> (vendor=0x8086, dev=0x1461) at 30.0

pcib6: <PCI to PCI bridge (vendor=8086 device=1460)> at device 31.0 on pci4

pci6: <PCI bus> on pcib6

pci0: <UHCI USB controller> at 29.0 irq 11

pci0: <UHCI USB controller> at 29.1 irq 10

pci0: <UHCI USB controller> at 29.2 irq 5

pcib7: <Intel 82801BA/BAM (ICH2) Hub to PCI bridge> at device 30.0 on pci0

pci7: <PCI bus> on pcib7

pci7: <ATI Mach64-GR graphics accelerator> at 1.0 irq 11

isab0: <PCI to ISA bridge (vendor=8086 device=2480)> at device 31.0 on pci0

isa0: <ISA bus> on isab0

atapci0: <Intel ICH3 ATA100 controller> port

0x2060-0x206f,0x374-0x377,0x170-0x177,0x3f4-0x3f7,0x1f0-0x1f7 irq 0 at
device 31.1 on pci0

ata0: at 0x1f0 irq 14 on atapci0

ata1: at 0x170 irq 15 on atapci0

pci0: <unknown card> (vendor=0x8086, dev=0x2483) at 31.3 irq 0

orm0: <Option ROMs> at iomem

0xc0000-0xc7fff,0xc8000-0xc8fff,0xc9000-0xc9fff,0xc000-0xc0fff,0xe0000-0xe3fff
on isa0

fdc0: <NEC 72065B or clone> at port 0x3f0-0x3f5,0x3f7 irq 6 drq 2 on isa0

fdc0: FIFO enabled, 8 bytes threshold

fd0: <1440-KB 3.5" drive> on fdc0 drive 0

atkbd0: <Keyboard controller (i8042)> at port 0x60,0x64 on isa0

atkbd0: <AT Keyboard> flags 0x1 irq 1 on atkbd0

kbd0 at atkbd0

vga0: <Generic ISA VGA> at port 0x3c0-0x3df iomem 0xa0000-0xbffff on isa0

sc0: <System console> at flags 0x100 on isa0

sc0: VGA <16 virtual consoles, flags=0x300>

sio0 at port 0x3f8-0x3ff irq 4 flags 0x10 on isa0

sio0: type 16550A

sio1 at port 0x2f8-0x2ff irq 3 on isa0

sio1: type 16550A

ppc0: <Parallel port> at port 0x378-0x37f irq 7 on isa0

ppc0: SMC-like chipset (ECP/EPP/PS2/NIBBLE) in COMPATIBLE mode

ppc0: FIFO with 16/16/9 bytes threshold

plip0: <PLIP network interface> on ppbus0

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lpt0: <Printer> on ppbus0
lpt0: Interrupt-driven port
ppi0: <Parallel I/O> on ppbus0
ata0-slave: ATAPI identify retries exceeded
acd0: CDROM <SR243T> at ata0-master PIO4
aacd0: <RAID 5> on aac0
aacd0: 771034MB (1579077632 sectors)
pass0 at aacp0 bus 0 target 0 lun 0
pass0: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass0: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass1 at aacp0 bus 0 target 1 lun 0
pass1: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass1: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass2 at aacp0 bus 0 target 2 lun 0
pass2: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass2: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass3 at aacp0 bus 0 target 3 lun 0
pass3: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass3: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass4 at aacp0 bus 0 target 4 lun 0
pass4: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass4: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass5 at aacp0 bus 0 target 5 lun 0
pass5: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass5: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass6 at aacp0 bus 0 target 6 lun 0
pass6: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass6: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass7 at aacp0 bus 0 target 8 lun 0
pass7: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass7: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass8 at aacp0 bus 0 target 9 lun 0
pass8: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass8: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass9 at aacp0 bus 0 target 10 lun 0
pass9: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass9: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass10 at aacp0 bus 0 target 11 lun 0
pass10: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass10: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
pass11 at aacp0 bus 0 target 12 lun 0
pass11: <MAXTOR ATLAS10K4_73SCA DFL0> Fixed unknown SCSI-3 device
pass11: 160.000MB/s transfers (80.000MHz, offset 127, 16bit)
Mounting root from ufs:/dev/aacd0s1a

At 03:47 AM 7/6/2003, rmkml wrote:

>*and what perf tools use ?*

>(cp/scp/ftp/http/dd ?...)

>

>*send dmesg to list ?*

>

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>Regard.

>

>

>Gary Stanley wrote:

>

>> 4.8-STABLE

>>

>> At 11:18 AM 7/5/2003, you wrote:

>>>Hi Gary,

>>>

>>>What version freebsd use ?

>>>

>>>Regard.

>>>

>>>

>>>Gary Stanley wrote:

>>>

>>>>Hiya.

>>>>

>>>> With Adaptec 2120S Raid Controllers (PCI-X 66mhz) and 5 or 6

> Ultra320 RAID5

>>>> drives, what's the maximum data rate I could achieve on the array? It

>>>> currently seems to max out around 30mbyte/s with a small amount of

> burst.

>>>>

>>>> procs memory page disks faults

> cpu

>>>> r b w avm fre flt re pi po fr sr aa0 md0 in sy cs

>>> us sy id

>>>> 0 8 0 264040 75156 83 3 0 0 8321 8310 0 0 8251

> 23037 2613

>>>> 14 58 28

>>>> 6 2 0 265680 85652 80 0 0 0 8375 10985 651 0 8477

> 177349 3938

>>>> 14 62 24

>>>> 6 2 0 265780 95692 20 0 0 2 8419 11011 651 0 8426

> 201621 3493

>>>> 12 62 26

>>>>

>>>> tty aacd0 acd0 fd0

>>> cpu

>>>> tin tout KB/t tps MB/s KB/t tps MB/s KB/t tps MB/s us ni sy

>>> in id

>>>> 0 2 0.00 0 0.00 0.00 0 0.00 0.00 0 0.00 14 0 33

>>> 25 28

>>>> 0 77 51.71 637 32.18 0.00 0 0.00 0.00 0 0.00 7 0 26

>>> 24 43

>>>> 0 76 51.38 656 32.94 0.00 0 0.00 0.00 0 0.00 9 0 27

>>> 25 39

>>>> 0 76 51.85 616 31.18 0.00 0 0.00 0.00 0 0.00 8 0 26

>>> 26 39

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>>>> 0 76 51.56 636 32.01 0.00 0 0.00 0.00 0 0.00 6 0 22
>>> 24 47
>>>>
>>>> *ITEM SIZE LIMIT USED FREE REQUESTS*
>>>>
>>>> *PIPE: 160, 0, 4, 98, 20542*
>>>> *SWAPMETA: 160, 233016, 19, 57, 12493*
>>>> *unpcb: 160, 0, 46, 54, 21349*
>>>> *ripcb: 192, 131070, 0, 42, 5*
>>>> *syncache: 160, 15359, 8, 273, 2099188*
>>>> *tcpcb: 576, 131070, 3956, 2664, 1970515*
>>>> *udpcb: 192, 131070, 6, 36, 243*
>>>> *socket: 192, 131070, 4008, 2690, 1992113*
>>>> *DIRHASH: 1024, 0, 471, 377, 3917*
>>>> *KNOTE: 64, 0, 6882, 2782, 3950885*
>>>> *NFSNODE: 352, 0, 647, 849, 2379*
>>>> *NFSMOUNT: 544, 0, 2, 12, 2*
>>>> *VNODE: 192, 0, 34216, 22, 34216*
>>>> *NAMEI: 1024, 0, 0, 32, 22168837*
>>>> *VMSPACE: 192, 0, 45, 83, 38265*
>>>> *PROC: 416, 0, 51, 47, 38271*
>>>> *DP fakepg: 64, 0, 0, 0, 0*
>>>> *PV ENTRY: 28, 2690702, 140870, 383281, 23461659*
>>>> *MAP ENTRY: 48, 0, 3633, 5760, 3394017*
>>>> *KMAP ENTRY: 48, 64455, 233, 151, 83750*
>>>> *MAP: 108, 0, 7, 3, 7*
>>>> *VM OBJECT: 92, 0, 32805, 99, 595113*
>>>>
>>>> *If it helps any, Dual Xeon 2.0ghz procs, 2 gigs of ram, supermicro*
>>> *board, etc.*
>>>>
>>>> _____
>>>> *freebsd-performance@freebsd.org mailing list*
>>>> *<http://lists.freebsd.org/mailman/listinfo/freebsd-performance>*
>>>> *To unsubscribe, send any mail to*
>>>> *"freebsd-performance-unsubscribe@freebsd.org"*

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