

Re: SATA 500Gb disk problem

Source: <http://unix.derkeiler.com/Mailing-Lists/FreeBSD/stable/2006-10/msg01174.html>

- *From:* Nguyen Tam Chinh <chinhngt@xxxxxxxxxxxxxxxxx>
 - *Date:* Sat, 28 Oct 2006 19:32:03 +0400 (MSD)
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On Sat, 28 Oct 2006, Jeremy Chadwick wrote:

On Sat, Oct 28, 2006 at 10:26:25AM +0400, Nguyen Tam Chinh wrote:

We have some dedicated servers at layeredtech. Currently new SATA 500Gb drive was added to each server and we now noticed strange problems with all of them: all new sata disks failed under normal load (3-6 Mbit/s I/O). Engineers at data center replaced the drives but they failed again and again.
Do you have any experience in working with 500Gb or more SATA drive?

Can you provide what ATA chipset this drive is connected to? The drive appears to be associated with ata2. The following may suffice, for example:

```
$ dmesg | grep ata2
ata2: <ATA channel 0> on atapci1
ad4: 114473MB <Seagate ST3120827AS 3.42> at ata2-master SATA150
```

```
$ dmesg | grep atapci1
atapci1: <nVidia nForce CK804 SATA300 controller> port
0x9f0-0x9f7,0xbf0-0xbf3,0x970-0x977,0xb70-0xb73,0xd800-0xd80f mem
0xd3002000-0xd3002fff irq 23 at device 7.0 on pci0
ata2: <ATA channel 0> on atapci1
ata3: <ATA channel 1> on atapci1
```

Additionally, please provide the output of ``vmstat -i`` to see if there's any shared interrupts with the ATA controller.

Yes, of course:

```
%dmesg | grep ata2
ata2: <ATA channel 0> on atapci0
ad4: 476940MB <WDC WD5000KS-00MNB0 06.02E06> at ata2-master SATA150
%dmesg | grep atapci0
```

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```
atapci0: <SiI 3112 SATA150 controller> port
0xdc00-0xdc07,0xd480-0xd483,0xd400-0xd407,0xd080-0xd083,0xd000-0xd00f mem
0xff8fec00-0xff8fedff irq 22 at device 1.0 on pci 1
ata2: <ATA channel 0> on atapci0
ata3: <ATA channel 1> on atapci0
% vmstat -i
interrupt total rate
irq20: fxp0 8913713 574
irq21: ahc0 126293 8
irq22: atapci0 3484356 224
cpu0: timer 31024212 1999
Total 43548574 2807
%
```

With best regards, | The Power to Serve
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