

PROBLEM: sata_sil24 lockups under heavy i/o

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-01/msg00713.html>

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[1.] One line summary of the problem:

sata_sil24 lockups under heavy i/o

[2.] Full description of the problem/report:

I have a PCI-based sata_sil24 card. It has 4 ports. It was functioning well with two disks attached. Once I attached 2 additional disks (for a total of 4) and started heavy i/o (extending a software raid5 device) the system began locking up for a few minutes at a time. After the system recovers the disk transfer speed is reduced from UDMA/100 to UDMA/66 or UDMA/44.

[3.] Keywords (i.e., modules, networking, kernel):

libata sata_sil24

[4.] Kernel version (from /proc/version):

Linux version 2.6.19-gentoo-r2 (root@cthulhu) (gcc version 4.1.1 (Gentoo 4.1.1-r3)) #1 Tue Dec 19 22:55:21 PST 2006

[5.] Most recent kernel version which did not have the bug:

Unknown.

[8.1.] Software (add the output of the ver_linux script here)

Linux cthulhu 2.6.19-gentoo-r2 #1 Tue Dec 19 22:55:21 PST 2006 i686 AMD Athlon(tm) Processor AuthenticAMD GNU/Linux

Gnu C 4.1.1
Gnu make 3.81
binutils 2.17
util-linux 2.12r
mount 2.12r
module-init-tools 3.2.2
e2fsprogs 1.39
Linux C Library > libc.2.4

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Dynamic linker (ldd) 2.4
Procps 3.2.7
Net-tools 1.60
Kbd 1.12
Sh-utils 6.7
udev 103
Modules Loaded w83781d hwmon_vid lp usbhid 8250_pnp 8250
serial_core parport_pc pcpkr parport uhci_hcd via686a i2c_isa usbcore
i2c_viapro i2c_core

[8.2.] Processor information (from /proc/cpuinfo):

processor : 0
vendor_id : AuthenticAMD
cpu family : 6
model : 4
model name : AMD Athlon(tm) Processor
stepping : 4
cpu MHz : 1410.226
cache size : 256 KB
fdiv_bug : no
hlt_bug : no
f00f_bug : no
coma_bug : no
fpu : yes
fpu_exception : yes
cpuid level : 1
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge
mca cmov pat pse36 mmx fxsr syscall mmxext 3dnowext 3dnow
bogomips : 2822.62

[8.3.] Module information (from /proc/modules):

w83781d 28008 1 – Live 0xfa367000
hwmon_vid 2240 1 w83781d, Live 0xf887d000
lp 8452 0 – Live 0xfa24c000
usbhid 32288 1 – Live 0xfa257000
8250_pnp 8704 0 – Live 0xf883b000
8250 17252 1 8250_pnp, Live 0xf8851000
serial_core 14976 1 8250, Live 0xf884c000
parport_pc 28644 1 – Live 0xfa202000
pcspkr 2240 0 – L