

RE: PROBLEM: Oops when doing disk heavy disk I/O

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2006-10/msg08571.html>

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- *From:* "Michael" <[michael.sallaway@xxxxxxxx](mailto:michael.sallaway@xxxxxxxx)>
  - *Date:* Wed, 25 Oct 2006 10:21:30 +1000
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-----Original Message-----

From: Sergio Monteiro Basto [<mailto:sergio@xxxxxxxxxxxxxxxxxxxxxx>]

Sent: Wednesday, 25 October 2006 3:27 AM

Hi,

please boot with "report\_lost\_ticks" like

<http://marc.theaimsgroup.com/?l=linux-kernel&m=115545986619977&w=2>

and see if you have

time.c: Lost n timer tick(s)!

and

cat /sys/devices/system/clocksource/clocksource0/

cat /sys/devices/system/clocksource/clocksource0/current\_clocksource

Hi,

Yep, seems to be losing some ticks -- I'm not sure what that means, but is it bad? :-)

```
[ root @ barbossa : ~ ] # dmesg | grep tick
Command line: root=/dev/md1 ro report_lost_ticks
Kernel command line: root=/dev/md1 ro report_lost_ticks
time.c: Lost 1 timer tick(s)! rip release_console_sem+0x196/0x20c)
time.c: Lost 12 timer tick(s)! rip setup_boot_APIC_clock+0x11f/0x121)
time.c: Lost 2 timer tick(s)! rip __do_softirq+0x4a/0xc4)
```

(I've put a full dmesg below).

Also, for the clocksource:

```
[ root @ barbossa : ~ ] # ls /sys/devices/system/clocksource/clocksource0/
```

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available\_clocksource current\_clocksource

```
[ root @ barbossa : ~ ] # cat /sys/devices/system/clocksource/clocksource0/  
cat: /sys/devices/system/clocksource/clocksource0/: Is a directory
```

```
[ root @ barbossa : ~ ] # cat  
/sys/devices/system/clocksource/clocksource0/available_clocksource  
jiffies
```

```
[ root @ barbossa : ~ ] # cat  
/sys/devices/system/clocksource/clocksource0/current_clocksource  
jiffies
```

Thanks for your help.

Cheers,  
Michael

Full dmesg:

```
[ root @ barbossa : ~ ] # dmesg  
Linux version 2.6.19-rc3 (root@barbossa) (gcc version 4.1.2 20061007  
(prerelease) (Debian 4.1.1-16)) #1 SMP Tue Oct 24 22:23:07 EST 2006  
Command line: root=/dev/md1 ro report_lost_ticks  
BIOS-provided physical RAM map:  
BIOS-e820: 0000000000000000 - 000000000009f800 (usable)  
BIOS-e820: 000000000009f800 - 00000000000a0000 (reserved)  
BIOS-e820: 00000000000f0000 - 0000000000100000 (reserved)  
BIOS-e820: 0000000000100000 - 0000000007fee000 (usable)  
BIOS-e820: 0000000007fee000 - 0000000007fee3000 (ACPI NVS)  
BIOS-e820: 0000000007fee3000 - 0000000007fef0000 (ACPI data)  
BIOS-e820: 0000000007fef0000 - 0000000007ff00000 (reserved)  
BIOS-e820: 00000000f0000000 - 00000000f4000000 (reserved)  
BIOS-e820: 00000000fec00000 - 0000000100000000 (reserved)  
Entering add_active_range(0, 0, 159) 0 entries of 256 used  
Entering add_active_range(0, 256, 524000) 1 entries of 256 used  
end_pfn_map = 1048576  
DMI 2.4 present.  
ACPI: RSDP (v002 Nvidia ) @  
0x000000000000f7760  
ACPI: XSDT (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x00000000) @  
0x0000000007fee30c0  
ACPI: FADT (v003 Nvidia AWRDACPI 0x42302e31 AWRD 0x00000000) @  
0x0000000007feec380  
ACPI: HPET (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x00000098) @  
0x0000000007feec580  
ACPI: MCFG (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x00000000) @  
0x0000000007feec600  
ACPI: MADT (v001 Nvidia AWRDACPI 0x42302e31 AWRD 0x00000000) @
```

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```
0x000000007feec4c0
ACPI: DSDT (v001 NVIDIA AWRDACPI 0x00001000 MSFT 0x0100000e) @
0x0000000000000000
Entering add_active_range(0, 0, 159) 0 entries of 256 used
Entering add_active_range(0, 256, 524000) 1 entries of 256 used
Zone PFN ranges:
DMA 0 -> 4096
DMA32 4096 -> 1048576
Normal 1048576 -> 1048576
early_node_map[2] active PFN ranges
0: 0 -> 159
0: 256 -> 524000
On node 0 totalpages: 523903
DMA zone: 56 pages used for memmap
DMA zone: 1737 pages reserved
DMA zone: 2206 pages, LIFO batch:0
DMA32 zone: 7108 pages used for memmap
DMA32 zone: 512796 pages, LIFO batch:31
Normal zone: 0 pages used for memmap
ACPI: PM-Timer IO Port: 0x1008
ACPI: Local APIC address 0xfe00000
ACPI: LAPIC (acpi_id[0x00] lapic_id[0x00] enabled)
Processor #0 (Bootup-CPU)
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x01] disabled)
ACPI: LAPIC_NMI (acpi_id[0x00] high edge lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x01] high edge lint[0x1])
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, address 0xfec00000, GSI 0-23
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: INT_SRC_OVR (bus 0 bus_irq 14 global_irq 14 high edge)
ACPI: INT_SRC_OVR (bus 0 bus_irq 15 global_irq 15 high edge)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
ACPI: IRQ14 used by override.
ACPI: IRQ15 used by override.
Setting APIC routing to flat
ACPI: HPET id: 0x10de8201 base: 0xfefff000
Using ACPI (MADT) for SMP configuration information
Nosave address range: 000000000009f000 - 00000000000a0000
Nosave address range: 00000000000a0000 - 00000000000f0000
Nosave address range: 00000000000f0000 - 0000000000100000
Allocating PCI resources starting at 80000000 (gap: 7ff00000:70100000)
PERCPU: Allocating 33408 bytes of per cpu data
Built 1 zonelists. Total pages: 515002
Kernel command line: root=/dev/md1 ro report_lost_ticks
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 32768 bytes)
Console: colour VGA+ 80x25
time.c: Lost 1 timer tick(s)! rip release_console_sem+0x196/0x20c)
```

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Dentry cache hash table entries: 262144 (order: 9, 2097152 bytes)  
Inode-cache hash table entries: 131072 (order: 8, 1048576 bytes)  
Checking aperture...  
CPU 0: aperture @ c8f4000000 size 32 MB  
Aperture too small (32 MB)  
No AGP bridge found  
Memory: 2045020k/2096000k available (4241k kernel code, 50228k reserved,  
1733k data, 272k init)  
Calibrating delay using timer specific routine.. 4022.98 BogoMIPS  
(lpj=8045974)  
Security Framework v1.0.0 initialized  
SELinux: Disabled at boot.  
Capability LSM initialized  
Mount-cache hash table entries: 256  
CPU: L1 I Cache: 64K (64 bytes/line), D cache 64K (64 bytes/line)  
CPU: L2 Cache: 512K (64 bytes/line)  
SMP alternatives: switching to UP code  
Freeing SMP alternatives: 48k freed  
ACPI: Core revision 20060707  
Using local APIC timer interrupts.  
result 12559460  
Detected 12.559 MHz APIC timer.  
time.c: Lost 12 timer tick(s)! rip setup\_boot\_APIC\_clock+0x11f/0x121)  
Brought up 1 CPUs  
testing NMI watchdog ... OK.  
time.c: Using 25.000000 MHz WALL HPET GTOD HPET/TSC timer.  
time.c: Detected 2009.511 MHz processor.  
checking if image is initramfs... it is  
Freeing initrd memory: 3210k freed  
NET: Registered protocol family 16  
ACPI: bus type pci registered  
PCI: Using configuration type 1  
ACPI: Interpreter enabled  
ACPI: Using IOAPIC for interrupt routing  
ACPI: PCI Root Bridge [PCI0] (0000:00)  
PCI: Probing PCI hardware (bus 00)  
Boot video device is 0000:01:07.0  
PCI: Transparent bridge - 0000:00:06.0  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.\_PRT]  
ACPI: PCI Interrupt Routing Table [\_SB\_.PCI0.HUB0.\_PRT]  
ACPI: PCI Interrupt Link [LNK1] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LNK2] (IRQs 5 7 9 \*10 11 14 15)  
ACPI: PCI Interrupt Link [LNK3] (IRQs 5 7 9 10 \*11 14 15)  
ACPI: PCI Interrupt Link [LNK4] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LNK5] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LNK6] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LNK7] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LNK8] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LP2P] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LUBA] (IRQs 5 7 9 \*10 11 14 15)  
ACPI: PCI Interrupt Link [LMAC] (IRQs 5 7 9 \*10 11 14 15)

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ACPI: PCI Interrupt Link [LAZA] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LPMU] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LSMB] (IRQs \*5 7 9 10 11 14 15)  
ACPI: PCI Interrupt Link [LUB2] (IRQs 5 7 9 10 \*11 14 15)  
ACPI: PCI Interrupt Link [LIDE] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LSID] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LFID] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [LSA2] (IRQs 5 7 9 10 11 14 15) \*0, disabled.  
ACPI: PCI Interrupt Link [APC1] (IRQs 16) \*0, disabled.  
ACPI: PCI Interrupt Link [APC2] (IRQs 17) \*0, disabled.  
ACPI: PCI Interrupt Link [APC3] (IRQs 18) \*0, disabled.  
ACPI: PCI Interrupt Link [APC4] (IRQs 19) \*0, disabled.  
ACPI: PCI Interrupt Link [APC5] (IRQs 16) \*0, disabled.  
ACPI: PCI Interrupt Link [APC6] (IRQs 16) \*0, disabled.  
ACPI: PCI Interrupt Link [APC7] (IRQs 16) \*0, disabled.  
ACPI: PCI Interrupt Link [APC8] (IRQs 16) \*0, disabled.  
ACPI: PCI Interrupt Link [APCF] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APCH] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APMU] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [AAZA] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APCS] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APCL] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APCM] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APCZ] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APSI] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [APSJ] (IRQs 20 21 22 23) \*0, disabled.  
ACPI: PCI Interrupt Link [ASA2] (IRQs 20 21 22 23) \*0, disabled.  
SCSI subsystem initialized  
usbcore: registered new interface driver usbfs  
usbcore: registered new interface driver hub  
usbcore: registered new device driver usb  
PCI: Using ACPI for IRQ routing  
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report  
PCI-DMA: Disabling IOMMU.  
PCI: Bridge: 0000:00:06.0  
IO window: d000-dfff  
MEM window: fc800000-fd7fffff  
PREFETCH window: 80000000-800fffff  
PCI: Bridge: 0000:00:0a.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:00:0b.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:00:0c.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.

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PCI: Bridge: 0000:00:0d.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:00:0e.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Bridge: 0000:00:0f.0  
IO window: disabled.  
MEM window: disabled.  
PREFETCH window: disabled.  
PCI: Setting latency timer of device 0000:00:06.0 to 64  
PCI: Setting latency timer of device 0000:00:0a.0 to 64  
PCI: Setting latency timer of device 0000:00:0b.0 to 64  
PCI: Setting latency timer of device 0000:00:0c.0 to 64  
PCI: Setting latency timer of device 0000:00:0d.0 to 64  
PCI: Setting latency timer of device 0000:00:0e.0 to 64  
PCI: Setting latency timer of device 0000:00:0f.0 to 64  
NET: Registered protocol family 2  
IP route cache hash table entries: 65536 (order: 7, 524288 bytes)  
TCP established hash table entries: 262144 (order: 10, 4194304 bytes)  
TCP bind hash table entries: 65536 (order: 8, 1048576 bytes)  
TCP: Hash tables configured (established 262144 bind 65536)  
TCP reno registered  
audit: initializing netlink socket (disabled)  
audit(1161771160.632:1): initialized  
VFS: Disk quotas dquot\_6.5.1  
Dquot-cache hash table entries: 512 (order 0, 4096 bytes)  
Installing knfsd (copyright (C) 1996 okir@xxxxxxxxxxxxx).  
fuse init (API version 7.7)  
JFS: nTxBlock = 8192, nTxLock = 65536  
SGI XFS with ACLs, security attributes, realtime, large block/inode numbers,  
no debug enabled  
SGI XFS Quota Management subsystem  
io scheduler noop registered  
io scheduler anticipatory registered  
io scheduler deadline registered  
io scheduler cfq registered (default)  
time.c: Lost 2 timer tick(s)! rip \_\_do\_softirq+0x4a/0xc4)  
PCI: Setting latency timer of device 0000:00:0a.0 to 64  
pcie\_portdrv\_probe->Dev[0376:10de] has invalid IRQ. Check vendor BIOS  
assign\_interrupt\_mode Found MSI capability  
Allocate Port Service[0000:00:0a.0:pcie00]  
PCI: Setting latency timer of device 0000:00:0b.0 to 64  
pcie\_portdrv\_probe->Dev[0374:10de] has invalid IRQ. Check vendor BIOS  
assign\_interrupt\_mode Found MSI capability  
Allocate Port Service[0000:00:0b.0:pcie00]  
PCI: Setting latency timer of device 0000:00:0c.0 to 64  
pcie\_portdrv\_probe->Dev[0374:10de] has invalid IRQ. Check vendor BIOS  
assign\_interrupt\_mode Found MSI capability

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```
Allocate Port Service[0000:00:0c.0:pcie00]
PCI: Setting latency timer of device 0000:00:0d.0 to 64
pcie_portdrv_probe->Dev[0378:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0d.0:pcie00]
PCI: Setting latency timer of device 0000:00:0e.0 to 64
pcie_portdrv_probe->Dev[0375:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0e.0:pcie00]
PCI: Setting latency timer of device 0000:00:0f.0 to 64
pcie_portdrv_probe->Dev[0377:10de] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:0f.0:pcie00]
vga16fb: initializing
vga16fb: mapped to 0xffff8100000a0000
fb0: VGA16 VGA frame buffer device
ACPI: Power Button (FF) [PWRF]
ACPI: Power Button (CM) [PWRB]
ACPI: Fan [FAN] (on)
ACPI: Getting cpuindex for acpiid 0x1
ACPI: Thermal Zone [THRM] (40 C)
Real Time Clock Driver v1.12ac
Linux agpgart interface v0.101 (c) Dave Jones
Serial: 8250/16550 driver $Revision: 1.90 $ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
Floppy drive(s): fd0 is 1.44M
FDC 0 is a post-1991 82077
RAMDISK driver initialized: 16 RAM disks of 65536K size 1024 blocksize
loop: loaded (max 8 devices)
forcedeth.c: Reverse Engineered nForce ethernet driver. Version 0.57.
ACPI: PCI Interrupt Link [APCH] enabled at IRQ 23
ACPI: PCI Interrupt 0000:00:08.0[A] -> Link [APCH] -> GSI 23 (level, low) ->
IRQ 23
PCI: Setting latency timer of device 0000:00:08.0 to 64
forcedeth: using HIGHDMA
eth0: forcedeth.c: subsystem: 01043:8239 bound to 0000:00:08.0
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
NFORCE-MCP55: IDE controller at PCI slot 0000:00:04.0
NFORCE-MCP55: chipset revision 161
NFORCE-MCP55: not 100% native mode: will probe irqs later
NFORCE-MCP55: BIOS didn't set cable bits correctly. Enabling workaround.
NFORCE-MCP55: 0000:00:04.0 (rev a1) UDMA133 controller
ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:DMA, hdb:DMA
Probing IDE interface ide0...
hda: IC35L040AVVN07-0, ATA DISK drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
hda: max request size: 128KiB
hda: 80418240 sectors (41174 MB) w/1863KiB Cache, CHS=65535/16/63, UDMA(100)
hda: cache flushes supported
```

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```
hda: hda1 hda2 hda3 hda4 < hda5 hda6 >
ACPI: PCI Interrupt Link [APC3] enabled at IRQ 18
ACPI: PCI Interrupt 0000:01:08.0[A] -> Link [APC3] -> GSI 18 (level, low) ->
IRQ 18
scsi0 : Adaptec AIC7XXX EISA/VLB/PCI SCSI HBA DRIVER, Rev 7.0
<Adaptec 29160B Ultra160 SCSI adapter>
aic7892: Ultra160 Wide Channel A, SCSI Id=7, 32/253 SCBs

usbmon: debugfs is not available
ACPI: PCI Interrupt Link [APCL] enabled at IRQ 22
ACPI: PCI Interrupt 0000:00:02.1[B] -> Link [APCL] -> GSI 22 (level, low) ->
IRQ 22
PCI: Setting latency timer of device 0000:00:02.1 to 64
ehci_hcd 0000:00:02.1: EHCI Host Controller
ehci_hcd 0000:00:02.1: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:02.1: debug port 1
PCI: cache line size of 64 is not supported by device 0000:00:02.1
ehci_hcd 0000:00:02.1: irq 22, io mem 0xfe02e000
ehci_hcd 0000:00:02.1: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 10 ports detected
116x: driver isp116x-hcd, 03 Nov 2005
ohci_hcd: 2006 August 04 USB 1.1 'Open' Host Controller (OHCI) Driver (PCI)
ACPI: PCI Interrupt Link [APCF] enabled at IRQ 21
ACPI: PCI Interrupt 0000:00:02.0[A] -> Link [APCF] -> GSI 21 (level, low) ->
IRQ 21
PCI: Setting latency timer of device 0000:00:02.0 to 64
ohci_hcd 0000:00:02.0: OHCI Host Controller
ohci_hcd 0000:00:02.0: new USB bus registered, assigned bus number 2
ohci_hcd 0000:00:02.0: irq 21, io mem 0xfe02f000
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 10 ports detected
USB Universal Host Controller Interface driver v3.0
sl811: driver sl811-hcd, 19 May 2005
usbcore: registered new interface driver cdc_acm
drivers/usb/class/cdc-acm.c: v0.25:USB Abstract Control Model driver for USB
modems and ISDN adapters
Initializing USB Mass Storage driver...
usbcore: registered new interface driver usb-storage
USB Mass Storage support registered.
usbcore: registered new interface driver hiddev
usbcore: registered new interface driver usbhid
drivers/usb/input/hid-core.c: v2.6:USB HID core driver
serio: i8042 KBD port at 0x60,0x64 irq 1
serio: i8042 AUX port at 0x60,0x64 irq 12
mice: PS/2 mouse device common for all mice
input: PC Speaker as /class/input/input0
input: AT Translated Set 2 keyboard as /class/input/input1
I2O subsystem v1.325
```

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i2o: max drivers = 8  
I2O Configuration OSM v1.323  
I2O Bus Adapter OSM v1.317  
I2O Block Device OSM v1.325  
I2O SCSI Peripheral OSM v1.316  
I2O ProcFS OSM v1.316  
i2c /dev entries driver  
i2c\_adapter i2c-0: nForce2 SMBus adapter at 0x1c00  
i2c\_adapter i2c-1: nForce2 SMBus adapter at 0x1c40  
md: linear personality registered for level -1  
md: raid0 personality registered for level 0  
md: raid1 personality registered for level 1  
md: raid10 personality registered for level 10  
raid6: int64x1 1847 MB/s  
raid6: int64x2 2357 MB/s  
raid6: int64x4 2379 MB/s  
raid6: int64x8 1679 MB/s  
raid6: sse2x1 2697 MB/s  
raid6: sse2x2 3699 MB/s  
raid6: sse2x4 3815 MB/s  
raid6: using algorithm sse2x4 (3815 MB/s)  
md: raid6 personality registered for level 6  
md: raid5 personality registered for level 5  
md: raid4 personality registered for level 4  
raid5: automatically using best checksumming function: generic\_sse  
generic\_sse: 6186.000 MB/sec  
raid5: using function: generic\_sse (6186.000 MB/sec)  
md: multipath personality registered for level -4  
md: faulty personality registered for level -5  
device-mapper: ioctl: 4.10.0-ioctl (2006-09-14) initialised:  
dm-devel@xxxxxxxxxxx  
device-mapper: multipath: version 1.0.5 loaded  
device-mapper: multipath round-robin: version 1.0.0 loaded  
device-mapper: multipath emc: version 0.0.3 loaded  
Netfilter messages via NETLINK v0.30.  
ip\_conntrack version 2.4 (8192 buckets, 65536 max) - 312 bytes per conntrack  
ctnetlink v0.90: registering with nfnetlink.  
ip\_conntrack\_pptp version 3.1 loaded  
ip\_nat\_pptp version 3.0 loaded  
ip\_tables: (C) 2000-2006 Netfilter Core Team  
ClusterIP Version 0.8 loaded successfully  
arp\_tables: (C) 2002 David S. Miller  
TCP bic registered  
Initializing XFRM netlink socket  
NET: Registered protocol family 1  
NET: Registered protocol family 10  
lo: Disabled Privacy Extensions  
ip6\_tables: (C) 2000-2006 Netfilter Core Team  
IPv6 over IPv4 tunneling driver  
NET: Registered protocol family 17  
NET: Registered protocol family 15

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NET: Registered protocol family 8  
NET: Registered protocol family 20  
Freeing unused kernel memory: 272k freed  
md: md0 stopped.  
md: bind<hda1>  
raid1: raid set md0 active with 1 out of 2 mirrors  
md: md1 stopped.  
md: bind<hda2>  
raid1: raid set md1 active with 1 out of 2 mirrors  
EXT3-fs: INFO: recovery required on readonly filesystem.  
EXT3-fs: write access will be enabled during recovery.  
(fs/jbd/recovery.c, 255): journal\_recover: JBD: recovery, exit status 0,  
recovered transactions 15992 to 16718  
(fs/jbd/recovery.c, 257): journal\_recover: JBD: Replayed 6324 and revoked  
1/4 blocks  
kjournald starting. Commit interval 5 seconds  
EXT3-fs: recovery complete.  
EXT3-fs: mounted filesystem with ordered data mode.  
Adding 1052248k swap on /dev/hda3. Priority:-1 extents:1 across:1052248k  
EXT3 FS on md1, internal journal  
kjournald starting. Commit interval 5 seconds  
EXT3 FS on md0, internal journal  
EXT3-fs: mounted filesystem with ordered data mode.  
eth0: no IPv6 routers present

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