

two scary syslog kernel messages

Source: <http://linux.derkeiler.com/Mailing-Lists/Debian/2005-09/2609.html>

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To: debian-user@lists.debian.org

I'm running Debian Testing with the following kernel:

Linux marvin 2.6.11-1-686-smp #1 SMP Mon Jun 20 20:18:45 MDT 2005 i686
GNU/Linux

My system is a 2.8Ghz Intel P4 with hyper threading enabled, 2GB RAM, and 2 SATA drives running in software RAID-1 (everything is mirrored including the boot and swap partitions).

This system is reasonably new and has been in production for about a month. Up until about 3 days ago there were no problems – then suddenly mysql mysteriously corrupted a table. Since mysql has done that sort of thing to me in the past (on different hardware), I didn't think too much of it and was able to restore from backup without any problem. It bothered me as we had just purchased new hardware, but I put it to the back of my mind at the time.

This morning, however, I found the following two scary snippets in my syslog:

```
Sep 20 03:46:06 marvin kernel: -----[ cut here ]-----
Sep 20 03:46:06 marvin kernel: kernel BUG at mm/rmap.c:482!
Sep 20 03:46:06 marvin kernel: invalid operand: 0000 [#1]
Sep 20 03:46:06 marvin kernel: SMP
Sep 20 03:46:06 marvin kernel: Modules linked in: ipv6 i2c_i801
i2c_core capability commoncap ext3 jbd mbcache evdev pcspkr hw_random
shpchp
pci_hotplug intel_agp intel_mch_agp agpgart psmouse genrtc raid5 xor
raid0 dm_mod e100 mii e1000 yenta_socket rsrc_nonstatic pcmcia_core sd_m
od ide_cd cdrom ide_disk ide_generic pdc202xx_new aec62xx alim15x3
amd74xx atiixp cmd64x cs5520 cs5530 cy82c693 generic hpt34x ns87415
opti62
1 pdc202xx_old rz1000 sc1200 serverworks siimage sis5513 slc90e66
triflex trm290 via82cxxx floppy usb_storage piix ide_core vga16fb
vgastate
usbserial usbhid usbkbd ehci_hcd uhci_hcd usbcore thermal processor fan
ata_piix libata scsi_mod raid1 md unix fbcon font bitblit vesafb cfbc
opyarea cfbimgblt cfbfillrect
Sep 20 03:46:06 marvin kernel: CPU: 0
```

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```
Sep 20 03:46:06 marvin kernel: EIP: 0060:[page_remove_rmap+57/80]
Not tainted VLI
Sep 20 03:46:06 marvin kernel: EFLAGS: 00010286 (2.6.11-1-686-smp)
Sep 20 03:46:06 marvin kernel: EIP is at page_remove_rmap+0x39/0x50
Sep 20 03:46:06 marvin kernel: eax: ffffffff ebx: 00002000 ecx:
c181cec0 edx: c181cec0
Sep 20 03:46:06 marvin kernel: esi: cfcfa00c edi: c181cec0 ebp:
00003000 esp: d3349d54
Sep 20 03:46:06 marvin kernel: ds: 007b es: 007b ss: 0068
Sep 20 03:46:06 marvin kernel: Process java (pid: 20194,
threadinfo=d3348000 task=db7a6a60)
Sep 20 03:46:06 marvin kernel: Stack: b5404000 00002000 c0149805
c181cec0 c02f2f80 00000000 d3349d8c 40e765e9
Sep 20 03:46:06 marvin kernel: b5801000 f536eb58 b5404000
00000000 c01499e3 c200c3a0 f536eb54 b5401000
Sep 20 03:46:06 marvin kernel: 00003000 00000000 b5401000
f536eb58 b5404000 00000000 c0149a43 c200c3a0
Sep 20 03:46:06 marvin kernel: Call Trace:
Sep 20 03:46:06 marvin kernel: [zap_pte_range+341/736]
zap_pte_range+0x155/0x2e0
Sep 20 03:46:06 marvin kernel: [zap_pmd_range+83/112] zap_pmd_range+0x53/0x70
Sep 20 03:46:06 marvin kernel: [zap_pud_range+67/96] zap_pud_range+0x43/0x60
Sep 20 03:46:06 marvin kernel: [unmap_page_range+126/160]
unmap_page_range+0x7e/0xa0
Sep 20 03:46:06 marvin kernel: [unmap_vmas+246/592] unmap_vmas+0xf6/0x250
Sep 20 03:46:06 marvin kernel: [exit_mmap+159/400] exit_mmap+0x9f/0x190
Sep 20 03:46:06 marvin kernel: [mmput+56/160] mmput+0x38/0xa0
Sep 20 03:46:06 marvin kernel: [do_exit+175/832] do_exit+0xaf/0x340
Sep 20 03:46:06 marvin kernel: [do_IRQ+30/48] do_IRQ+0x1e/0x30
Sep 20 03:46:06 marvin kernel: [common_interrupt+26/32]
common_interrupt+0x1a/0x20
Sep 20 03:46:06 marvin kernel: [do_group_exit+64/176] do_group_exit+0x40/0xb0
Sep 20 03:46:06 marvin kernel: [get_signal_to_deliver+528/800]
get_signal_to_deliver+0x210/0x320
Sep 20 03:46:06 marvin kernel: [do_signal+155/304] do_signal+0x9b/0x130
Sep 20 03:46:06 marvin kernel: [del_singleshot_timer_sync+19/64]
del_singleshot_timer_sync+0x13/0x40
Sep 20 03:46:06 marvin kernel: [schedule_timeout+118/192]
schedule_timeout+0x76/0xc0
Sep 20 03:46:06 marvin kernel: [process_timeout+0/16] process_timeout+0x0/0x10
Sep 20 03:46:06 marvin kernel: [sys_nanosleep+222/368]
sys_nanosleep+0xde/0x170
Sep 20 03:46:06 marvin kernel: [do_notify_resume+55/60]
do_notify_resume+0x37/0x3c
Sep 20 03:46:06 marvin kernel: [work_notifysig+19/21] work_notifysig+0x13/0x15
Sep 20 03:46:06 marvin kernel: Code: f0 83 42 08 ff 0f 98 c0 84 c0 74
1b 8b 42 08 40 78 19 c7 04 24 10 00 00 00 b8 ff ff ff ff 89 44 24 04 e8
bb f8 fe ff 83 c4 08 c3 <0f> 0b e2 01 08 23 2c c0 eb dd 0f 0b df 01 08
23 2c c0 eb c1 8d
```

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And then later:

```
Sep 20 06:26:15 marvin kernel: Bad page state at prep_new_page (in
process 'mysqld', page c181cec0)
Sep 20 06:26:15 marvin kernel: flags:0x40000114 mapping:00000000
mapcount:-1 count:0
Sep 20 06:26:15 marvin kernel: Backtrace:
Sep 20 06:26:15 marvin kernel: [bad_page+117/176] bad_page+0x75/0xb0
Sep 20 06:26:15 marvin kernel: [prep_new_page+64/112] prep_new_page+0x40/0x70
Sep 20 06:26:15 marvin kernel: [buffered_rmqueue+245/496]
buffered_rmqueue+0xf5/0x1f0
Sep 20 06:26:15 marvin kernel: [__alloc_pages+1018/1056]
__alloc_pages+0x3fa/0x420
Sep 20 06:26:15 marvin kernel: [__do_page_cache_readahead+296/352]
__do_page_cache_readahead+0x128/0x160
Sep 20 06:26:15 marvin kernel:
[blockable_page_cache_readahead+106/128]
blockable_page_cache_readahead+0x6a/0x80
Sep 20 06:26:15 marvin kernel: [page_cache_readahead+351/720]
page_cache_readahead+0x15f/0x2d0
Sep 20 06:26:15 marvin kernel: [do_generic_mapping_read+1556/1584]
do_generic_mapping_read+0x614/0x630
Sep 20 06:26:15 marvin kernel: [__generic_file_aio_read+530/592]
__generic_file_aio_read+0x212/0x250
Sep 20 06:26:15 marvin kernel: [file_read_actor+0/240]
file_read_actor+0x0/0xf0
Sep 20 06:26:15 marvin kernel: [try_to_wake_up+594/640]
try_to_wake_up+0x252/0x280
Sep 20 06:26:15 marvin kernel: [generic_file_aio_read+91/128]
generic_file_aio_read+0x5b/0x80
Sep 20 06:26:15 marvin kernel: [do_sync_read+183/240] do_sync_read+0xb7/0xf0
Sep 20 06:26:15 marvin kernel: [__wake_up+62/96] __wake_up+0x3e/0x60
Sep 20 06:26:15 marvin kernel: [futex_wake+123/208] futex_wake+0x7b/0xd0
Sep 20 06:26:15 marvin kernel: [finish_task_switch+60/144]
finish_task_switch+0x3c/0x90
Sep 20 06:26:15 marvin kernel: [autoremove_wake_function+0/96]
autoremove_wake_function+0x0/0x60
Sep 20 06:26:15 marvin kernel: [schedule+924/3072] schedule+0x39c/0xc00
Sep 20 06:26:15 marvin kernel: [dnotify_parent+58/176]
dnotify_parent+0x3a/0xb0
Sep 20 06:26:15 marvin kernel: [vfs_read+229/352] vfs_read+0xe5/0x160
Sep 20 06:26:15 marvin kernel: [sys_read+81/128] sys_read+0x51/0x80
Sep 20 06:26:15 marvin kernel: [syscall_call+7/11] syscall_call+0x7/0xb
Sep 20 06:26:15 marvin kernel: Trying to fix it up, but a reboot is needed
```

I quickly rebooted, but this is very concerning. Could this be signs of bad memory or is this really a kernel bug of some kind?

Here's a dump of dmesg as well (after I rebooted):

```
Linux version 2.6.11-1-686-smp (dannf@firetheft) (gcc version 3.3.6
(Debian 1:3.3.6-6)) #1 SMP Mon Jun 20 20:18:45 MDT 2005
BIOS-provided physical RAM map:
```

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```
BIOS–e820: 0000000000000000 – 000000000009f800 (usable)
BIOS–e820: 000000000009f800 – 00000000000a0000 (reserved)
BIOS–e820: 00000000000e4000 – 0000000000100000 (reserved)
BIOS–e820: 0000000000100000 – 000000007fff0000 (usable)
BIOS–e820: 000000007fff0000 – 000000007ffff000 (ACPI data)
BIOS–e820: 000000007ffff000 – 0000000080000000 (ACPI NVS)
BIOS–e820: 00000000fee00000 – 00000000fee01000 (reserved)
BIOS–e820: 00000000ffb00000 – 0000000100000000 (reserved)
1151MB HIGHMEM available.
896MB LOWMEM available.
found SMP MP–table at 000ff780
On node 0 totalpages: 524272
  DMA zone: 4096 pages, LIFO batch:1
  Normal zone: 225280 pages, LIFO batch:16
  HighMem zone: 294896 pages, LIFO batch:16
DMI 2.3 present.
ACPI: RSDP (v000 ACPIAM ) @ 0x000f7a60
ACPI: RSDT (v001 A M I OEMRSDT 0x09000408 MSFT 0x00000097) @ 0x7fff0000
ACPI: FADT (v002 A M I OEMFACP 0x09000408 MSFT 0x00000097) @ 0x7fff0200
ACPI: MADT (v001 A M I OEMAPIC 0x09000408 MSFT 0x00000097) @ 0x7fff0390
ACPI: OEMB (v001 A M I AMI_OEM 0x09000408 MSFT 0x00000097) @ 0x7fff040
ACPI: DSDT (v001 STP1A STP1A035 0x00000035 INTL 0x02002026) @ 0x00000000
ACPI: PM–Timer IO Port: 0x808
ACPI: Local APIC address 0xfee00000
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 15:3 APIC version 20
ACPI: LAPIC (acpi_id[0x02] lapic_id[0x01] enabled)
Processor #1 15:3 APIC version 20
ACPI: LAPIC_NMI (acpi_id[0x01] dfl dfl lint[0x1])
ACPI: LAPIC_NMI (acpi_id[0x02] dfl dfl lint[0x1])
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, version 32, address 0xfec00000, GSI 0–23
ACPI: IOAPIC (id[0x03] address[0xfec10000] gsi_base[24])
IOAPIC[1]: apic_id 3, version 32, address 0xfec10000, GSI 24–47
ACPI: INT_SRC_OVR (bus 0 bus_irq 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 10 global_irq 10 high level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ10 used by override.
Enabling APIC mode: Flat. Using 2 I/O APICs
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 80000000 (gap: 80000000:7ee00000)
Built 1 zonelists
Kernel command line: root=/dev/md3 ro
mapped APIC to fffd000 (fee00000)
mapped IOAPIC to fffc000 (fec00000)
mapped IOAPIC to fffb000 (fec10000)
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 65536 bytes)
Detected 2793.476 MHz processor.
Using pmtmr for high–res timesource
```

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```
Console: colour VGA+ 80x25
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 2070484k/2097088k available (1720k kernel code, 25608k
reserved, 719k data, 204k init, 1179584k highmem)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
Calibrating delay loop... 5537.79 BogoMIPS (lpj=2768896)
Security Framework v1.0.0 initialized
SELinux: Disabled at boot.
Mount-cache hash table entries: 512 (order: 0, 4096 bytes)
CPU: After generic identify, caps: bfebfbff 00000000 00000000 00000000
0000041d 00000000 00000000
CPU: After vendor identify, caps: bfebfbff 00000000 00000000 00000000
0000041d 00000000 00000000
monitor/mwait feature present.
using mwait in idle threads.
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 1024K
CPU: Physical Processor ID: 0
CPU: After all inits, caps: bfebfbff 00000000 00000000 00000080
0000041d 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
CPU0: Intel P4/Xeon Extended MCE MSRs (12) available
CPU0: Thermal monitoring enabled
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
CPU0: Intel(R) Pentium(R) 4 CPU 2.80GHz stepping 03
per-CPU timeslice cutoff: 2926.20 usecs.
task migration cache decay timeout: 3 msecs.
Booting processor 1/1 eip 3000
Initializing CPU#1
Calibrating delay loop... 5570.56 BogoMIPS (lpj=2785280)
CPU: After generic identify, caps: bfebfbff 00000000 00000000 00000000
0000041d 00000000 00000000
CPU: After vendor identify, caps: bfebfbff 00000000 00000000 00000000
0000041d 00000000 00000000
monitor/mwait feature present.
CPU: Trace cache: 12K uops, L1 D cache: 16K
CPU: L2 cache: 1024K
CPU: Physical Processor ID: 0
CPU: After all inits, caps: bfebfbff 00000000 00000000 00000080
0000041d 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#1.
CPU1: Intel P4/Xeon Extended MCE MSRs (12) available
CPU1: Thermal monitoring enabled
CPU1: Intel(R) Pentium(R) 4 CPU 2.80GHz stepping 03
Total of 2 processors activated (11108.35 BogoMIPS).
ENABLING IO-APIC IRQs
```

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```
..TIMER: vector=0x31 pin1=2 pin2=-1
checking TSC synchronization across 2 CPUs: passed.
Brought up 2 CPUs
CPU0 attaching sched-domain:
domain 0: span 03
groups: 01 02
domain 1: span 03
groups: 03
CPU1 attaching sched-domain:
domain 0: span 03
groups: 02 01
domain 1: span 03
groups: 03
checking if image is initramfs...it isn't (bad gzip magic numbers);
looks like an initrd
Freeing initrd memory: 5192k freed
NET: Registered protocol family 16
PCI: PCI BIOS revision 2.10 entry at 0xf0031, last bus=3
PCI: Using configuration type 1
mtrr: v2.0 (20020519)
ACPI: Subsystem revision 20050211
ACPI: Interpreter enabled
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (00:00)
PCI: Probing PCI hardware (bus 00)
PCI: Ignoring BAR0–3 of IDE controller 0000:00:1f.1
PCI: Transparent bridge – 0000:00:1e.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P5._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P4._PRT]
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 *5 6 9 11 12 14 15)
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 *5 6 9 11 12 14 15)
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 *5 6 9 11 12 14 15)
ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 6 *9 11 12 14 15)
ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 5 6 9 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 6 9 *11 12 14 15)
ACPI: PCI Interrupt Link [LNKG] (IRQs 3 4 5 6 9 11 12 14 15) *0, disabled.
ACPI: PCI Interrupt Link [LNKH] (IRQs *7)
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init
pnp: PnP ACPI: found 13 devices
PnPBIOS: Disabled by ACPI PNP
PCI: Using ACPI for IRQ routing
** PCI interrupts are no longer routed automatically. If this
** causes a device to stop working, it is probably because the
** driver failed to call pci_enable_device(). As a temporary
** workaround, the "pci=routeirq" argument restores the old
** behavior. If this argument makes the device work again,
** please email the output of "lspci" to bjorn.helgaas@hp.com
** so I can fix the driver.
pnp: 00:09: ioport range 0x680–0x6ff has been reserved
```

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```
pnp: 00:09: ioport range 0x295–0x296 has been reserved
highmem bounce pool size: 64 pages
VFS: Disk quotas dquot_6.5.1
Dquot–cache hash table entries: 1024 (order 0, 4096 bytes)
devfs: 2004–01–31 Richard Gooch (rgooch@atnf.csiro.au)
devfs: boot_options: 0x0
Initializing Cryptographic API
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
serio: i8042 AUX port at 0x60,0x64 irq 12
serio: i8042 KBD port at 0x60,0x64 irq 1
Serial: 8250/16550 driver $Revision: 1.90 $ 48 ports, IRQ sharing enabled
ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered
RAMDISK driver initialized: 16 RAM disks of 8192K size 1024 blocksize
NET: Registered protocol family 2
IP: routing cache hash table of 16384 buckets, 128Kbytes
TCP established hash table entries: 524288 (order: 10, 4194304 bytes)
TCP bind hash table entries: 65536 (order: 7, 524288 bytes)
TCP: Hash tables configured (established 524288 bind 65536)
NET: Registered protocol family 8
NET: Registered protocol family 20
ACPI wakeup devices:
GBEQ POP5 MC97 WDTR POP4 USB1 USB2 EUSB SLPB
ACPI: (supports S0 S1 S4 S5)
RAMDISK: cramfs filesystem found at block 0
RAMDISK: Loading 5192KiB [1 disk] into ram disk... done.
VFS: Mounted root (cramfs filesystem) readonly.
Freeing unused kernel memory: 204k freed
NET: Registered protocol family 1
md: md driver 0.90.1 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: raid1 personality registered as nr 3
SCSI subsystem initialized
libata version 1.10 loaded.
ata_piix version 1.03
ACPI: PCI interrupt 0000:00:1f.2[A] -> GSI 18 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ata1: SATA max UDMA/133 cmd 0xE400 ctl 0xE002 bmdma 0xD400 irq 169
ata2: SATA max UDMA/133 cmd 0xDC00 ctl 0xD802 bmdma 0xD408 irq 169
ata1: dev 0 cfg 49:2f00 82:346b 83:7d01 84:4023 85:3469 86:3c01 87:4023 88:207f
ata1: dev 0 ATA, max UDMA/133, 390721968 sectors: lba48
ata1: dev 0 configured for UDMA/133
scsi0 : ata_piix
ata2: dev 0 cfg 49:2f00 82:346b 83:7d01 84:4023 85:3469 86:3c01 87:4023 88:207f
ata2: dev 0 ATA, max UDMA/133, 390721968 sectors: lba48
```

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```
ata2: dev 0 configured for UDMA/133
scsi1 : ata_piix
Vendor: ATA Model: ST3200826AS Rev: 3.02
Type: Direct–Access ANSI SCSI revision: 05
Vendor: ATA Model: ST3200826AS Rev: 3.02
Type: Direct–Access ANSI SCSI revision: 05
ACPI: Processor [CPU1] (supports 8 throttling states)
usbcore: registered new driver usbfs
usbcore: registered new driver hub
USB Universal Host Controller Interface driver v2.2
ACPI: PCI interrupt 0000:00:1d.0[A] -> GSI 16 (level, low) -> IRQ 177
uhci_hcd 0000:00:1d.0: Intel Corp. 6300ESB USB Universal Host Controller
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: irq 177, io base 0xe800
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 1
hub 1–0:1.0: USB hub found
hub 1–0:1.0: 2 ports detected
ACPI: PCI interrupt 0000:00:1d.1[B] -> GSI 19 (level, low) -> IRQ 185
uhci_hcd 0000:00:1d.1: Intel Corp. 6300ESB USB Universal Host Controller
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: irq 185, io base 0xec00
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 2
hub 2–0:1.0: USB hub found
hub 2–0:1.0: 2 ports detected
ACPI: PCI interrupt 0000:00:1d.7[D] -> GSI 23 (level, low) -> IRQ 193
ehci_hcd 0000:00:1d.7: Intel Corp. 6300ESB USB2 Enhanced Host Controller
PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: irq 193, pci mem 0xfe7ffc00
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 3
PCI: cache line size of 128 is not supported by device 0000:00:1d.7
ehci_hcd 0000:00:1d.7: USB 2.0 initialized, EHCI 1.00, driver 10 Dec 2004
hub 3–0:1.0: USB hub found
hub 3–0:1.0: 4 ports detected
usbcore: registered new driver usbkbd
drivers/usb/input/usbkbd.c: :USB HID Boot Protocol keyboard driver
usbcore: registered new driver hiddev
usbcore: registered new driver usbhid
drivers/usb/input/hid–core.c: v2.0:USB HID core driver
drivers/usb/serial/usb–serial.c: USB Serial support registered for Generic
usbcore: registered new driver usbserial_generic
usbcore: registered new driver usbserial
drivers/usb/serial/usb–serial.c: USB Serial Driver core v2.0
vga16fb: initializing
vga16fb: mapped to 0xc00a0000
Console: switching to colour frame buffer device 80x30
fb0: VGA16 VGA frame buffer device
Uniform Multi–Platform E–IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Initializing USB Mass Storage driver...
usbcore: registered new driver usb–storage
USB Mass Storage support registered.
```

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```
FDC 0 is a post-1991 82077
ICH5: IDE controller at PCI slot 0000:00:1f.1
ACPI: PCI interrupt 0000:00:1f.1[A] -> GSI 18 (level, low) -> IRQ 169
ICH5: chipset revision 2
ICH5: not 100% native mode: will probe irqs later
  ide0: BM-DMA at 0xfc00-0xfc07, BIOS settings: hda:DMA, hdb:pio
  ide1: BM-DMA at 0xfc08-0xfc0f, BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
hda: SAMSUNG CD-ROM SH-152A, ATAPI CD/DVD-ROM drive
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
Probing IDE interface ide1...
Probing IDE interface ide2...
Probing IDE interface ide3...
Probing IDE interface ide4...
Probing IDE interface ide5...
hda: ATAPI 52X CD-ROM drive, 128kB Cache, UDMA(33)
Uniform CD-ROM driver Revision: 3.20
SCSI device sda: 390721968 512-byte hdwr sectors (200050 MB)
SCSI device sda: drive cache: write back
SCSI device sda: 390721968 512-byte hdwr sectors (200050 MB)
SCSI device sda: drive cache: write back
/dev/scsi/host0/bus0/target0/lun0: p1 p2 p3 p4
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
SCSI device sdb: 390721968 512-byte hdwr sectors (200050 MB)
SCSI device sdb: drive cache: write back
SCSI device sdb: 390721968 512-byte hdwr sectors (200050 MB)
SCSI device sdb: drive cache: write back
/dev/scsi/host1/bus0/target0/lun0: p1 p2 p3 p4
Attached scsi disk sdb at scsi1, channel 0, id 0, lun 0
Linux Kernel Card Services
  options: [pci] [cardbus] [pm]
Intel(R) PRO/1000 Network Driver - version 5.6.10.1-k2
Copyright (c) 1999-2004 Intel Corporation.
ACPI: PCI interrupt 0000:01:01.0[A] -> GSI 18 (level, low) -> IRQ 169
PCI: Setting latency timer of device 0000:01:01.0 to 64
e1000: eth0: e1000_probe: Intel(R) PRO/1000 Network Connection
e100: Intel(R) PRO/100 Network Driver, 3.3.6-k2-NAPI
e100: Copyright(c) 1999-2004 Intel Corporation
ACPI: PCI interrupt 0000:03:01.0[A] -> GSI 17 (level, low) -> IRQ 201
e100: eth1: e100_probe: addr 0xfe6fe000, irq 201, MAC addr 00:04:23:B8:B3:8D
device-mapper: 4.4.0-ioctl (2005-01-12) initialised: dm-devel@redhat.com
md: raid0 personality registered as nr 2
raid5: automatically using best checksumming function: pIII_sse
  pIII_sse : 4452.000 MB/sec
raid5: using function: pIII_sse (4452.000 MB/sec)
md: raid5 personality registered as nr 4
Generic RTC Driver v1.07
Linux agpgart interface v0.100 (c) Dave Jones
agpgart: Detected an Intel i875 Chipset.
agpgart: Maximum main memory to use for agp memory: 1919M
```

Debian–User: two scary syslog kernel messages

```
agpgart: AGP aperture is 4M @ 0xfe800000
cpci_hotplug: CompactPCI Hot Plug Core version: 0.2
pci_hotplug: PCI Hot Plug PCI Core version: 0.5
Evaluate _OSC Set fails. Status = 0x0005
pciehnp: add_host_bridge: status 5
pciehnp: Fails to gain control of native hot-plug
shpchp: shpc_init : shpc_cap_offset == 0
shpchp: shpc_init : shpc_cap_offset == 0
shpchp: shpc_init : shpc_cap_offset == 0
shpchp: Standard Hot Plug PCI Controller Driver version: 0.4
hw_random hardware driver 1.0.0 loaded
input: PC Speaker
devfs_mk_dev: could not append to parent for md/3
md: md3 stopped.
md: bind<sdb4>
md: bind<sda4>
raid1: raid set md3 active with 2 out of 2 mirrors
EXT3–fs: INFO: recovery required on readonly filesystem.
EXT3–fs: write access will be enabled during recovery.
kjournald starting. Commit interval 5 seconds
EXT3–fs: md3: orphan cleanup on readonly fs
ext3_orphan_cleanup: deleting unreferenced inode 21446685
EXT3–fs: md3: 1 orphan inode deleted
EXT3–fs: recovery complete.
EXT3–fs: mounted filesystem with ordered data mode.
devfs_mk_dev: could not append to parent for md/1
Unable to find swap–space signature
devfs_mk_dev: could not append to parent for md/2
Unable to find swap–space signature
EXT3 FS on md3, internal journal
Capability LSM initialized
md: md2 stopped.
md: bind<sdb3>
md: bind<sda3>
raid1: raid set md2 active with 2 out of 2 mirrors
md: md1 stopped.
md: bind<sdb2>
md: bind<sda2>
raid1: raid set md1 active with 2 out of 2 mirrors
devfs_mk_dev: could not append to parent for md/0
md: md0 stopped.
md: bind<sdb1>
md: bind<sda1>
raid1: raid set md0 active with 2 out of 2 mirrors
kjournald starting. Commit interval 5 seconds
EXT3 FS on md0, internal journal
EXT3–fs: mounted filesystem with ordered data mode.
Adding 1951800k swap on /dev/md1. Priority:–1 extents:1
Adding 1951800k swap on /dev/md2. Priority:–2 extents:1
NET: Registered protocol family 10
Disabled Privacy Extensions on device c0336ac0(lo)
```

Debian-User: two scary syslog kernel messages

IPv6 over IPv4 tunneling driver

e1000: eth0: e1000_watchdog: NIC Link is Up 100 Mbps Full Duplex

eth0: no IPv6 routers present

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