Re: 2.6.13−rc3−mm3

Source: http://linux.derkeiler.com/Mailing−Lists/Kernel/2005−07/7086.html

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From: Michael Thonke (*tk−shockwave_at_web.de*)
Date: 07/29/05

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Date:   Fri, 29 Jul 2005 17:48:28 +0200
To: Andrew Morton <akpm@osdl.org>
```

Andrew Morton schrieb:
> Michael Thonke <iogl64nx@gmail.com> wrote:
>> here again I have two problems. With 2.6.13−rc3−mm3 I have problems
>> using my SATA drives on Intel ICH6.
>> The kernel can't route there IRQs or can't discover them. the option
>> irqpoll got them to work now.
>> The problem is new because 2.6.13−rc3[−mm1,mm2] work without any problems.
>
> OK. Please generate the full dmesg output for −mm2 and for −mm3 and run
> `diff −u dmesg.mm2 dmesg.mm3' and send it? And keep those files because we
> may end up needing to add them to an acpi bugzilla entry ;)

Well I did a little mistake..it only worked correctly up to
2.6.13−rc3−mm1 but this dmesg output I have.

Well as I save mm[2,3] are unable to setup the correct IRQs for the
devices..and please note that 2.6.13−rc3−mm3 only booted with irqpoll so
its in the dmesg output "dmesg.mm3"
Normaly the IRQ routed to something about 1xx now they are 1−21?! Caused
by irqpoll?

>
>> The SATA drives are Samsung HD160JJ SATAII. The mainboard I use is a
>> ASUS P4GPL−X.
>>
>> Second one is about Intel HD−Codec (snd−hda−intel) on modprobe when
>> loading the module it gives me
>>
>> −−−> snip
>> hda_codec: Unknown model for ALC880, trying auto−probe from BIOS...
>
> Does −mm2 print that `unknown model' message?

Yes and mm1 it's a wide problem as I found many posts on ALSA Forums
But the big problem behind is...after it oops
My Linux Raid (md) goes bad then..at reboot it gives me more oops and

all changes on FS (reiser4) lost..and if I wouldn't use snd−hda−intel as
modul the hole system hung at boot.

>
>> Unable to handle kernel NULL pointer dereference at virtual address 00000000
>> printing eip:
>> f88713f4
*>> *pde = 00000000*
>> Oops: 0002 [#1]
>> PREEMPT
>> last sysfs file:
>> Modules linked in: snd_hda_intel snd_hda_codec nvidia
>> CPU: 0
>> EIP: 0060:[<f88713f4>] Tainted: P VLI
>
> Please verify that it happens without the nvidia module loaded.
>
>> EFLAGS: 00010293 (2.6.13−rc3−mm3pm)
>> eax: fffffffe ebx: f3b33548 ecx: 00000000 edx: 00000000
>> esi: f3b33400 edi: 00000000 ebp: 00000006 esp: f0371ddc
>> ds: 007b es: 007b ss: 0068
>> Process modprobe (pid: 7398, threadinfo=f0370000 task=f4183560)
>> Stack: 00000000 00000000 00000000 00000000 f3b33400 f3b33548 f0f1d000
>> f8871933
>> f3b33400 f0f1d000 f8871bbd f8875478 f88748f6 00000001 f886d77e
>> 00000f00
>> 00000005 00000000 f0f1d000 f54d04c0 00000000 f886d984 00000f00
>> 00000002
>> Call Trace:
>> [<f8871933>]
>> [<f8871bbd>]
>
> Odd trace. Do you have CONFIG_KALLSYMS enabled? If not, please turn it on.

Mh I tried but my system freezes on boot then. And screen leaves blank.
>

Thank you Andrew and the other for the great help up to here.

Greets

Best regards
Michael

−−− dmesg.mm1 2005−07−29 13:47:58.878442480 +0000
+++ dmesg.mm3 2005−07−29 13:54:03.272355896 +0000
@@ −1,43 +1,13 @@
−Linux version 2.6.13−rc3−mm1pm (root@ioGL64NX_32) (gcc−Version 3.4.4 (Gentoo 3.4.4,

ssp−3.4.4−1.0, pie−8.7.8)) #1 PREEMPT Fri Jul 29 13:34:49 Local time zone must be set−−see
−BIOS−provided physical RAM map:
− BIOS−e820: 0000000000000000 − 000000000009fc00 (usable)
− BIOS−e820: 000000000009fc00 − 00000000000a0000 (reserved)
− BIOS−e820: 00000000000e4000 − 0000000000100000 (reserved)
− BIOS−e820: 0000000000100000 − 000000003ffb0000 (usable)
− BIOS−e820: 000000003ffb0000 − 000000003ffbe000 (ACPI data)
− BIOS−e820: 000000003ffbe000 − 000000003fff0000 (ACPI NVS)
− BIOS−e820: 000000003fff0000 − 0000000040000000 (reserved)
− BIOS−e820: 00000000ffb80000 − 0000000100000000 (reserved)
−127MB HIGHMEM available.
−896MB LOWMEM available.
−found SMP MP−table at 000ff780
−On node 0 totalpages: 262064
− DMA zone: 4096 pages, LIFO batch:1
− Normal zone: 225280 pages, LIFO batch:31
− HighMem zone: 32688 pages, LIFO batch:15
−DMI 2.3 present.
−Intel MultiProcessor Specification v1.1
− Virtual Wire compatibility mode.
−OEM ID: INTEL Product ID: APIC at: 0xFEE00000
−Processor #0 6:13 APIC version 20
−I/O APIC #1 Version 32 at 0xFEC00000.
−Enabling APIC mode: Flat. Using 1 I/O APICs
−Processors: 1
−Allocating PCI resources starting at 40000000 (gap: 40000000:bfb80000)
−Built 1 zonelists
−mapped APIC to ffffd000 (fee00000)
−mapped IOAPIC to ffffc000 (fec00000)
−Initializing CPU#0
−Kernel command line: root=/dev/md1 vga=794 quiet
+ormance
 PID hash table entries: 4096 (order: 12, 65536 bytes)
−Detected 1605.958 MHz processor.
−Using tsc for high−res timesource
+Detected 1605.994 MHz processor.
+Using pmtmr for high−res timesource
 Console: colour dummy device 80x25
 Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
 Inode−cache hash table entries: 65536 (order: 6, 262144 bytes)
−Memory: 1034508k/1048256k available (2702k kernel code, 12980k reserved, 839k data, 168k init,
130752k highmem)
+Memory: 1034260k/1048256k available (3050k kernel code, 13228k reserved, 670k data, 200k init,
130752k highmem)
 Checking if this processor honours the WP bit even in supervisor mode... Ok.
−Calibrating delay using timer specific routine.. 3214.33 BogoMIPS (lpj=1607165)
+Calibrating delay using timer specific routine.. 3215.31 BogoMIPS (lpj=1607658)
 Security Framework v1.0.0 initialized
 Capability LSM initialized
 Mount−cache hash table entries: 512
@@ −53,10 +23,18 @@

```
 Enabling fast FPU save and restore... done.
 Enabling unmasked SIMD FPU exception support... done.
 Checking 'hlt' instruction... OK.
+ ACPI−0287: *** Error: Region SystemMemory(0) has no handler
+ ACPI−0127: *** Error: acpi_load_tables: Could not load namespace: AE_NOT_EXIST
+ ACPI−0136: *** Error: acpi_load_tables: Could not load tables: AE_NOT_EXIST
+ACPI: Unable to load the System Description Tables
 ENABLING IO−APIC IRQs
−..TIMER: vector=0x31 pin1=2 pin2=0
+..TIMER: vector=0x31 pin1=2 pin2=−1
 NET: Registered protocol family 16
 PCI: Using configuration type 1
+ACPI: Subsystem revision 20050708
+ACPI: Interpreter disabled.
+Linux Plug and Play Support v0.97 (c) Adam Belay
+pnp: PnP ACPI: disabled
 SCSI subsystem initialized
 usbcore: registered new driver usbfs
 usbcore: registered new driver hub
@@ −67,31 +45,70 @@
 PCI: Transparent bridge − 0000:00:1e.0
 PCI: Discovered primary peer bus ff [IRQ]
 PCI: Using IRQ router PIIX/ICH [8086/2640] at 0000:00:1f.0
−PCI−>APIC IRQ transform: 0000:00:01.0[A] −> IRQ 129
−PCI−>APIC IRQ transform: 0000:00:1c.0[A] −> IRQ 129
−PCI−>APIC IRQ transform: 0000:00:1c.1[B] −> IRQ 137
−PCI−>APIC IRQ transform: 0000:00:1d.0[A] −> IRQ 161
−PCI−>APIC IRQ transform: 0000:00:1d.1[B] −> IRQ 153
−PCI−>APIC IRQ transform: 0000:00:1d.2[C] −> IRQ 145
−PCI−>APIC IRQ transform: 0000:00:1d.3[D] −> IRQ 129
−PCI−>APIC IRQ transform: 0000:00:1d.7[A] −> IRQ 161
−PCI−>APIC IRQ transform: 0000:00:1f.1[A] −> IRQ 145
−PCI−>APIC IRQ transform: 0000:00:1f.2[B] −> IRQ 153
−PCI−>APIC IRQ transform: 0000:00:1f.3[B] −> IRQ 153
−PCI−>APIC IRQ transform: 0000:04:00.0[A] −> IRQ 129
−PCI−>APIC IRQ transform: 0000:02:00.0[A] −> IRQ 137
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 0!
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+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 4!
+PCI BIOS passed nonexistent PCI bus 0!
+PCI BIOS passed nonexistent PCI bus 2!
```

+PCI BIOS passed nonexistent PCI bus 0!
+PCI: Bridge: 0000:00:01.0
+ IO window: e000−efff
+ MEM window: d2f00000−d7ffffff
+ PREFETCH window: d8000000−dfffffff
+PCI: Bridge: 0000:00:1c.0
+ IO window: d000−dfff
+ MEM window: disabled.
+ PREFETCH window: disabled.
+PCI: Bridge: 0000:00:1c.1
+ IO window: c000−cfff
+ MEM window: d2e00000−d2efffff
+ PREFETCH window: 40000000−400fffff
+PCI: Bridge: 0000:00:1e.0
+ IO window: b000−bfff
+ MEM window: disabled.
+ PREFETCH window: disabled.
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin A of device 0000:00:01.0. Probably buggy MP table.
+PCI: Setting latency timer of device 0000:00:01.0 to 64
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin A of device 0000:00:1c.0. Probably buggy MP table.
+PCI: Setting latency timer of device 0000:00:1c.0 to 64
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin B of device 0000:00:1c.1. Probably buggy MP table.
+PCI: Setting latency timer of device 0000:00:1c.1 to 64
+PCI: Setting latency timer of device 0000:00:1e.0 to 64
Machine check exception polling timer started.
+apm: BIOS version 1.2 Flags 0x03 (Driver version 1.16ac)
highmem bounce pool size: 64 pages
fuse init (API version 7.1)
Initializing Cryptographic API
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin A of device 0000:00:01.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:01.0 to 64
+pcie_portdrv_probe−>Dev[2581:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin A of device 0000:00:1c.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.0 to 64
+pcie_portdrv_probe−>Dev[2660:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
+PCI BIOS passed nonexistent PCI bus 0!
+PCI: No IRQ known for interrupt pin B of device 0000:00:1c.1. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.1 to 64
+pcie_portdrv_probe−>Dev[2662:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]

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 Allocate Port Service[pcie02]
@@ −100,6 +117,7 @@
 vesafb: protected mode interface info at c000:d620
 vesafb: scrolling: redraw
 vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0
+vesafb: Mode is VGA compatible
 Console: switching to colour frame buffer device 160x64
 fb0: VESA VGA frame buffer device
 fb1: Virtual frame buffer device, using 1024K of video memory
@@ −115,7 +133,7 @@
 FDC 0 is a post−1991 82077
 RAMDISK driver initialized: 2 RAM disks of 4096K size 1024 blocksize
 loop: loaded (max 8 devices)
−ub: sizeof ub_scsi_cmd 68 ub_dev 2384 ub_lun 140
+ub: sizeof ub_scsi_cmd 68 ub_dev 2388 ub_lun 140
 usbcore: registered new driver ub
 sk98lin: Network Device Driver v8.23.1.3
 (C)Copyright 1999−2005 Marvell(R).
@@ −126,6 +144,7 @@
 Uniform Multi−Platform E−IDE driver Revision: 7.00alpha2
 ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
 ICH6: IDE controller at PCI slot 0000:00:1f.1
+PCI BIOS passed nonexistent PCI bus 0!
 ICH6: chipset revision 5
 ICH6: not 100% native mode: will probe irqs later
     ide0: BM−DMA at 0xffa0−0xffa7, BIOS settings: hda:DMA, hdb:pio
@@ −141,8 +160,8 @@
 libata version 1.11 loaded.
 ata_piix version 1.03
 PCI: Setting latency timer of device 0000:00:1f.2 to 64
−ata1: SATA max UDMA/133 cmd 0xAC00 ctl 0xA882 bmdma 0xA400 irq 153
−ata2: SATA max UDMA/133 cmd 0xA800 ctl 0xA482 bmdma 0xA408 irq 153
+ata1: SATA max UDMA/133 cmd 0xAC00 ctl 0xA882 bmdma 0xA400 irq 3
+ata2: SATA max UDMA/133 cmd 0xA800 ctl 0xA482 bmdma 0xA408 irq 3
 ata1: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
 ata1: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
 ata1: dev 0 configured for UDMA/133
@@ −171,39 +190,39 @@
 Attached scsi generic sg1 at scsi1, channel 0, id 0, lun 0, type 0
 usbmon: debugs is not available
 PCI: Setting latency timer of device 0000:00:1d.7 to 64
−ehci_hcd 0000:00:1d.7: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI
Controller
+ehci_hcd 0000:00:1d.7: EHCI Host Controller
 ehci_hcd 0000:00:1d.7: debug port 1
 ehci_hcd 0000:00:1d.7: BIOS handoff failed (104, 01010001)
 ehci_hcd 0000:00:1d.7: continuing after BIOS bug...
 ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1
−ehci_hcd 0000:00:1d.7: irq 161, io mem 0xd2dffc00
+ehci_hcd 0000:00:1d.7: irq 11, io mem 0xd2dffc00
 PCI: cache line size of 32 is not supported by device 0000:00:1d.7
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 ehci_hcd 0000:00:1d.7: USB 2.0 initialized, EHCI 1.00, driver 10 Dec 2004
 hub 1−0:1.0: USB hub found
 hub 1−0:1.0: 8 ports detected
 USB Universal Host Controller Interface driver v2.3
 PCI: Setting latency timer of device 0000:00:1d.0 to 64
−uhci_hcd 0000:00:1d.0: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #1
+uhci_hcd 0000:00:1d.0: UHCI Host Controller
 uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
−uhci_hcd 0000:00:1d.0: irq 161, io base 0x00009880
+uhci_hcd 0000:00:1d.0: irq 11, io base 0x00009880
 hub 2−0:1.0: USB hub found
 hub 2−0:1.0: 2 ports detected
 PCI: Setting latency timer of device 0000:00:1d.1 to 64
−uhci_hcd 0000:00:1d.1: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #2
+uhci_hcd 0000:00:1d.1: UHCI Host Controller
 uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3
−uhci_hcd 0000:00:1d.1: irq 153, io base 0x00009c00
+uhci_hcd 0000:00:1d.1: irq 3, io base 0x00009c00
 hub 3−0:1.0: USB hub found
 hub 3−0:1.0: 2 ports detected
 PCI: Setting latency timer of device 0000:00:1d.2 to 64
−uhci_hcd 0000:00:1d.2: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #3
+uhci_hcd 0000:00:1d.2: UHCI Host Controller
 uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4
−uhci_hcd 0000:00:1d.2: irq 145, io base 0x0000a000
+uhci_hcd 0000:00:1d.2: irq 5, io base 0x0000a000
 hub 4−0:1.0: USB hub found
 hub 4−0:1.0: 2 ports detected
 PCI: Setting latency timer of device 0000:00:1d.3 to 64
−uhci_hcd 0000:00:1d.3: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #4
+uhci_hcd 0000:00:1d.3: UHCI Host Controller
 uhci_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 5
−uhci_hcd 0000:00:1d.3: irq 129, io base 0x0000a080
+uhci_hcd 0000:00:1d.3: irq 10, io base 0x0000a080
 hub 5−0:1.0: USB hub found
 hub 5−0:1.0: 2 ports detected
 usbcore: registered new driver usblp
@@ −213,16 +232,28 @@
 usb 2−2: new low speed USB device using uhci_hcd and address 3
 usbcore: registered new driver usb−storage
 USB Mass Storage support registered.
−usb 4−1: new full speed USB device using uhci_hcd and address 2
 input: USB HID v1.10 Keyboard [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
 input: USB HID v1.10 Device [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
 input: USB HID v1.10 Mouse [Genius NetScroll+Mini Traveler] on usb−0000:00:1d.0−2
 usbcore: registered new driver usbhid
 drivers/usb/input/hid−core.c: v2.6:USB HID core driver
+usb 4−1: new full speed USB device using uhci_hcd and address 2
+usbcore: registered new driver usbserial
+drivers/usb/serial/usb−serial.c: USB Serial support registered for Generic
+usbcore: registered new driver usbserial_generic
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+drivers/usb/serial/usb−serial.c: USB Serial Driver core v2.0
+drivers/usb/serial/usb−serial.c: USB Serial support registered for PL−2303
+pl2303 4−1:1.0: PL−2303 converter detected
+usb 4−1: PL−2303 converter now attached to ttyUSB0
+usbcore: registered new driver pl2303
+drivers/usb/serial/pl2303.c: Prolific PL2303 USB to serial adaptor driver v0.12
 md: linear personality registered as nr 1
 md: raid0 personality registered as nr 2
 md: md driver 0.90.2 MAX_MD_DEVS=256, MD_SB_DISKS=27
 md: bitmap version 3.38
+Advanced Linux Sound Architecture Driver Version 1.0.9 (Sun May 29 07:31:02 2005 UTC).
+ALSA device list:
+ No soundcards found.
 NET: Registered protocol family 2
 IP route cache hash table entries: 65536 (order: 6, 262144 bytes)
 TCP established hash table entries: 262144 (order: 9, 2097152 bytes)
@@ −309,7 +340,7 @@
 raid0 : Allocating 4 bytes for hash.
 md: ... autorun DONE.
 VFS: Mounted root (reiser4 filesystem) readonly.
−Freeing unused kernel memory: 168k freed
+Freeing unused kernel memory: 200k freed
 ReiserFS: sdb1: found reiserfs format "3.6" with standard journal
 ReiserFS: sdb1: using ordered data mode
 ReiserFS: sdb1: journal params: device sdb1, size 8192, journal first block 18, max trans len 1024, max batch 900, max commit age 30, max trans age 30

Linux version 2.6.13−rc3−mm1pm (root@ioGL64NX_32) (gcc−Version 3.4.4 (Gentoo 3.4.4, ssp−3.4.4−1.0, pie−8.7.8)) #1 PREEMPT Fri Jul 29 13:34:49 Local time zone must be set−−see
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 BIOS−e820: 000000003ffb0000 − 000000003ffbe000 (ACPI data)
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127MB HIGHMEM available.
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mapped APIC to ffffd000 (fee00000)
mapped IOAPIC to ffffc000 (fec00000)
Initializing CPU#0
Kernel command line: root=/dev/md1 vga=794 quiet
PID hash table entries: 4096 (order: 12, 65536 bytes)
Detected 1605.958 MHz processor.
Using tsc for high−res timesource
Console: colour dummy device 80x25
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
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Checking if this processor honours the WP bit even in supervisor mode... Ok.
Calibrating delay using timer specific routine.. 3214.33 BogoMIPS (lpj=1607165)
Security Framework v1.0.0 initialized
Capability LSM initialized
Mount−cache hash table entries: 512
CPU: After generic identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: After vendor identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 2048K
CPU: After all inits, caps: afe9fbff 00000000 00000000 00000040 00000180 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
mtrr: v2.0 (20020519)
CPU: Intel(R) Pentium(R) M processor 1.60GHz stepping 08
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
ENABLING IO−APIC IRQs
..TIMER: vector=0x31 pin1=2 pin2=0
NET: Registered protocol family 16
PCI: Using configuration type 1
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Probing PCI hardware
PCI: Probing PCI hardware (bus 00)
PCI: Ignoring BAR0−3 of IDE controller 0000:00:1f.1
Boot video device is 0000:04:00.0
PCI: Transparent bridge − 0000:00:1e.0
PCI: Discovered primary peer bus ff [IRQ]
PCI: Using IRQ router PIIX/ICH [8086/2640] at 0000:00:1f.0
PCI−>APIC IRQ transform: 0000:00:01.0[A] −> IRQ 129

PCI−>APIC IRQ transform: 0000:00:1c.0[A] −> IRQ 129
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PCI−>APIC IRQ transform: 0000:00:1d.2[C] −> IRQ 145
PCI−>APIC IRQ transform: 0000:00:1d.3[D] −> IRQ 129
PCI−>APIC IRQ transform: 0000:00:1d.7[A] −> IRQ 161
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PCI−>APIC IRQ transform: 0000:04:00.0[A] −> IRQ 129
PCI−>APIC IRQ transform: 0000:02:00.0[A] −> IRQ 137
Machine check exception polling timer started.
highmem bounce pool size: 64 pages
fuse init (API version 7.1)
Initializing Cryptographic API
PCI: Setting latency timer of device 0000:00:01.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
PCI: Setting latency timer of device 0000:00:1c.1 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
vesafb: framebuffer at 0xd8000000, mapped to 0xf8880000, using 5120k, total 131072k
vesafb: mode is 1280x1024x16, linelength=2560, pages=1
vesafb: protected mode interface info at c000:d620
vesafb: scrolling: redraw
vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0
Console: switching to colour frame buffer device 160x64
fb0: VESA VGA frame buffer device
fb1: Virtual frame buffer device, using 1024K of video memory
Real Time Clock Driver v1.12
i8xx TCO timer: heartbeat value must be 2<heartbeat<39, using 30
i8xx TCO timer: initialized (0x0860). heartbeat=30 sec (nowayout=0)
cn_fork is registered
cn_exit is registered
mice: PS/2 mouse device common for all mice
io scheduler noop registered
io scheduler cfq registered
Floppy drive(s): fd0 is 1.44M
FDC 0 is a post−1991 82077
RAMDISK driver initialized: 2 RAM disks of 4096K size 1024 blocksize
loop: loaded (max 8 devices)
ub: sizeof ub_scsi_cmd 68 ub_dev 2384 ub_lun 140
usbcore: registered new driver ub
sk98lin: Network Device Driver v8.23.1.3
(C)Copyright 1999−2005 Marvell(R).

```
PCI: Setting latency timer of device 0000:02:00.0 to 64
eth0: Marvell Yukon 88E8053 Gigabit Ethernet Controller
      PrefPort:A RlmtMode:Check Link State
netconsole: not configured, aborting
Uniform Multi−Platform E−IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
ICH6: IDE controller at PCI slot 0000:00:1f.1
ICH6: chipset revision 5
ICH6: not 100% native mode: will probe irqs later
    ide0: BM−DMA at 0xffa0−0xffa7, BIOS settings: hda:DMA, hdb:pio
    ide1: BM−DMA at 0xffa8−0xffaf, BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
hda: HL−DT−ST DVDRAM GSA−4163B, ATAPI CD/DVD−ROM drive
hdb: LITE−ON LTR−52246S, ATAPI CD/DVD−ROM drive
ide0 at 0x1f0−0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
hda: ATAPI 40X DVD−ROM DVD−R−RAM CD−R/RW drive, 2048kB Cache, UDMA(33)
Uniform CD−ROM driver Revision: 3.20
hdb: ATAPI 52X CD−ROM CD−R/RW drive, 2048kB Cache, UDMA(33)
libata version 1.11 loaded.
ata_piix version 1.03
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ata1: SATA max UDMA/133 cmd 0xAC00 ctl 0xA882 bmdma 0xA400 irq 153
ata2: SATA max UDMA/133 cmd 0xA800 ctl 0xA482 bmdma 0xA408 irq 153
ata1: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata1: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata1: dev 0 configured for UDMA/133
scsi0 : ata_piix
ata2: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata2: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata2: dev 0 configured for UDMA/133
scsi1 : ata_piix
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
 sda: sda1 sda2 < sda5 sda6 sda7 >
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
 sdb: sdb1 sdb2 < sdb5 sdb6 sdb7 sdb8 >
Attached scsi disk sdb at scsi1, channel 0, id 0, lun 0
Attached scsi generic sg0 at scsi0, channel 0, id 0, lun 0, type 0
Attached scsi generic sg1 at scsi1, channel 0, id 0, lun 0, type 0
usbmon: debugs is not available
```

PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
ehci_hcd 0000:00:1d.7: debug port 1
ehci_hcd 0000:00:1d.7: BIOS handoff failed (104, 01010001)
ehci_hcd 0000:00:1d.7: continuing after BIOS bug...
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:1d.7: irq 161, io mem 0xd2dffc00
PCI: cache line size of 32 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 1−0:1.0: USB hub found
hub 1−0:1.0: 8 ports detected
USB Universal Host Controller Interface driver v2.3
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #1
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
uhci_hcd 0000:00:1d.0: irq 161, io base 0x00009880
hub 2−0:1.0: USB hub found
hub 2−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #2
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3
uhci_hcd 0000:00:1d.1: irq 153, io base 0x00009c00
hub 3−0:1.0: USB hub found
hub 3−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.2 to 64
uhci_hcd 0000:00:1d.2: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #3
uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4
uhci_hcd 0000:00:1d.2: irq 145, io base 0x0000a000
hub 4−0:1.0: USB hub found
hub 4−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.3 to 64
uhci_hcd 0000:00:1d.3: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #4
uhci_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 5
uhci_hcd 0000:00:1d.3: irq 129, io base 0x0000a080
hub 5−0:1.0: USB hub found
hub 5−0:1.0: 2 ports detected
usbcore: registered new driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Initializing USB Mass Storage driver...
usb 2−1: new low speed USB device using uhci_hcd and address 2
usb 2−2: new low speed USB device using uhci_hcd and address 3
usbcore: registered new driver usb−storage
USB Mass Storage support registered.
usb 4−1: new full speed USB device using uhci_hcd and address 2
input: USB HID v1.10 Keyboard [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Device [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Mouse [Genius NetScroll+Mini Traveler] on usb−0000:00:1d.0−2
usbcore: registered new driver usbhid
drivers/usb/input/hid−core.c: v2.6:USB HID core driver
md: linear personality registered as nr 1

md: raid0 personality registered as nr 2
md: md driver 0.90.2 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: bitmap version 3.38
NET: Registered protocol family 2
IP route cache hash table entries: 65536 (order: 6, 262144 bytes)
TCP established hash table entries: 262144 (order: 9, 2097152 bytes)
TCP bind hash table entries: 65536 (order: 6, 262144 bytes)
TCP: Hash tables configured (established 262144 bind 65536)
TCP reno registered
TCP bic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
Using IPI Shortcut mode
md: Autodetecting RAID arrays.
md: autorun ...
md: considering sdb7 ...
md: adding sdb7 ...
md: sdb6 has different UUID to sdb7
md: sdb5 has different UUID to sdb7
md: sda7 has different UUID to sdb7
md: adding sda6 ...
md: sda5 has different UUID to sdb7
md: created md2
md: bind<sda6>
md: bind<sdb7>
md: running: <sdb7><sda6>
md2: setting max_sectors to 128, segment boundary to 32767
raid0: looking at sdb7
raid0: comparing sdb7(20000768) with sdb7(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda6
raid0: comparing sda6(20000768) with sdb7(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: considering sdb6 ...
md: adding sdb6 ...
md: sdb5 has different UUID to sdb6
md: sda7 has different UUID to sdb6
md: adding sda5 ...
md: created md0
md: bind<sda5>
md: bind<sdb6>
md: running: <sdb6><sda5>
md0: setting max_sectors to 128, segment boundary to 32767

raid0: looking at sdb6
raid0: comparing sdb6(20000768) with sdb6(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda5
raid0: comparing sda5(20000768) with sdb6(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: considering sdb5 ...
md: adding sdb5 ...
md: adding sda7 ...
md: created md1
md: bind<sda7>
md: bind<sdb5>
md: running: <sdb5><sda7>
md1: setting max_sectors to 128, segment boundary to 32767
raid0: looking at sdb5
raid0: comparing sdb5(20000768) with sdb5(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda7
raid0: comparing sda7(20000768) with sdb5(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: ... autorun DONE.
VFS: Mounted root (reiser4 filesystem) readonly.
Freeing unused kernel memory: 168k freed
ReiserFS: sdb1: found reiserfs format "3.6" with standard journal
ReiserFS: sdb1: using ordered data mode
ReiserFS: sdb1: journal params: device sdb1, size 8192, journal first block 18, max trans len 1024, max batch 900, max commit age 30, max trans age 30
ReiserFS: sdb1: checking transaction log (sdb1)
ReiserFS: sdb1: Using r5 hash to sort names
eth0: network connection up using port A
  speed: 100
  autonegotiation: yes
  duplex mode: full
  flowctrl: symmetric
  irq moderation: disabled

tcp offload: enabled
scatter−gather: enabled
tx−checksum: enabled
rx−checksum: enabled
rx−polling: enabled

ormance
PID hash table entries: 4096 (order: 12, 65536 bytes)
Detected 1605.994 MHz processor.
Using pmtmr for high−res timesource
Console: colour dummy device 80x25
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode−cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 1034260k/1048256k available (3050k kernel code, 13228k reserved, 670k data, 200k init, 130752k highmem)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
Calibrating delay using timer specific routine.. 3215.31 BogoMIPS (lpj=1607658)
Security Framework v1.0.0 initialized
Capability LSM initialized
Mount−cache hash table entries: 512
CPU: After generic identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: After vendor identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 2048K
CPU: After all inits, caps: afe9fbff 00000000 00000000 00000040 00000180 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
mtrr: v2.0 (20020519)
CPU: Intel(R) Pentium(R) M processor 1.60GHz stepping 08
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
ACPI−0287: *** Error: Region SystemMemory(0) has no handler
ACPI−0127: *** Error: acpi_load_tables: Could not load namespace: AE_NOT_EXIST
ACPI−0136: *** Error: acpi_load_tables: Could not load tables: AE_NOT_EXIST
ACPI: Unable to load the System Description Tables
ENABLING IO−APIC IRQs
..TIMER: vector=0x31 pin1=2 pin2=−1
NET: Registered protocol family 16
PCI: Using configuration type 1
ACPI: Subsystem revision 20050708
ACPI: Interpreter disabled.
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI: disabled
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Probing PCI hardware

```
PCI: Probing PCI hardware (bus 00)
PCI: Ignoring BAR0−3 of IDE controller 0000:00:1f.1
Boot video device is 0000:04:00.0
PCI: Transparent bridge − 0000:00:1e.0
PCI: Discovered primary peer bus ff [IRQ]
PCI: Using IRQ router PIIX/ICH [8086/2640] at 0000:00:1f.0
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 4!
PCI BIOS passed nonexistent PCI bus 0!
PCI BIOS passed nonexistent PCI bus 2!
PCI BIOS passed nonexistent PCI bus 0!
PCI: Bridge: 0000:00:01.0
  IO window: e000−efff
  MEM window: d2f00000−d7ffffff
  PREFETCH window: d8000000−dfffffff
PCI: Bridge: 0000:00:1c.0
  IO window: d000−dfff
  MEM window: disabled.
  PREFETCH window: disabled.
PCI: Bridge: 0000:00:1c.1
  IO window: c000−cfff
  MEM window: d2e00000−d2efffff
  PREFETCH window: 40000000−400fffff
PCI: Bridge: 0000:00:1e.0
  IO window: b000−bfff
  MEM window: disabled.
  PREFETCH window: disabled.
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin A of device 0000:00:01.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:01.0 to 64
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin A of device 0000:00:1c.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.0 to 64
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin B of device 0000:00:1c.1. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.1 to 64
PCI: Setting latency timer of device 0000:00:1e.0 to 64
Machine check exception polling timer started.
apm: BIOS version 1.2 Flags 0x03 (Driver version 1.16ac)
highmem bounce pool size: 64 pages
```

```
fuse init (API version 7.1)
Initializing Cryptographic API
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin A of device 0000:00:01.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:01.0 to 64
pcie_portdrv_probe−>Dev[2581:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin A of device 0000:00:1c.0. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.0 to 64
pcie_portdrv_probe−>Dev[2660:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
PCI BIOS passed nonexistent PCI bus 0!
PCI: No IRQ known for interrupt pin B of device 0000:00:1c.1. Probably buggy MP table.
PCI: Setting latency timer of device 0000:00:1c.1 to 64
pcie_portdrv_probe−>Dev[2662:8086] has invalid IRQ. Check vendor BIOS
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
vesafb: framebuffer at 0xd8000000, mapped to 0xf8880000, using 5120k, total 131072k
vesafb: mode is 1280x1024x16, linelength=2560, pages=1
vesafb: protected mode interface info at c000:d620
vesafb: scrolling: redraw
vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0
vesafb: Mode is VGA compatible
Console: switching to colour frame buffer device 160x64
fb0: VESA VGA frame buffer device
fb1: Virtual frame buffer device, using 1024K of video memory
Real Time Clock Driver v1.12
i8xx TCO timer: heartbeat value must be 2<heartbeat<39, using 30
i8xx TCO timer: initialized (0x0860). heartbeat=30 sec (nowayout=0)
cn_fork is registered
cn_exit is registered
mice: PS/2 mouse device common for all mice
io scheduler noop registered
io scheduler cfq registered
Floppy drive(s): fd0 is 1.44M
FDC 0 is a post−1991 82077
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loop: loaded (max 8 devices)
ub: sizeof ub_scsi_cmd 68 ub_dev 2388 ub_lun 140
usbcore: registered new driver ub
sk98lin: Network Device Driver v8.23.1.3
(C)Copyright 1999−2005 Marvell(R).
PCI: Setting latency timer of device 0000:02:00.0 to 64
eth0: Marvell Yukon 88E8053 Gigabit Ethernet Controller
    PrefPort:A RlmtMode:Check Link State
netconsole: not configured, aborting
```

```
Uniform Multi−Platform E−IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
ICH6: IDE controller at PCI slot 0000:00:1f.1
PCI BIOS passed nonexistent PCI bus 0!
ICH6: chipset revision 5
ICH6: not 100% native mode: will probe irqs later
    ide0: BM−DMA at 0xffa0−0xffa7, BIOS settings: hda:DMA, hdb:pio
    ide1: BM−DMA at 0xffa8−0xffaf, BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
hda: HL−DT−ST DVDRAM GSA−4163B, ATAPI CD/DVD−ROM drive
hdb: LITE−ON LTR−52246S, ATAPI CD/DVD−ROM drive
ide0 at 0x1f0−0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
hda: ATAPI 40X DVD−ROM DVD−R−RAM CD−R/RW drive, 2048kB Cache, UDMA(33)
Uniform CD−ROM driver Revision: 3.20
hdb: ATAPI 52X CD−ROM CD−R/RW drive, 2048kB Cache, UDMA(33)
libata version 1.11 loaded.
ata_piix version 1.03
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ata1: SATA max UDMA/133 cmd 0xAC00 ctl 0xA882 bmdma 0xA400 irq 3
ata2: SATA max UDMA/133 cmd 0xA800 ctl 0xA482 bmdma 0xA408 irq 3
ata1: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata1: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata1: dev 0 configured for UDMA/133
scsi0 : ata_piix
ata2: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata2: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata2: dev 0 configured for UDMA/133
scsi1 : ata_piix
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
 sda: sda1 sda2 < sda5 sda6 sda7 >
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
 sdb: sdb1 sdb2 < sdb5 sdb6 sdb7 sdb8 >
Attached scsi disk sdb at scsi1, channel 0, id 0, lun 0
Attached scsi generic sg0 at scsi0, channel 0, id 0, lun 0, type 0
Attached scsi generic sg1 at scsi1, channel 0, id 0, lun 0, type 0
usbmon: debugs is not available
PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: EHCI Host Controller
ehci_hcd 0000:00:1d.7: debug port 1
```

ehci_hcd 0000:00:1d.7: BIOS handoff failed (104, 01010001)
ehci_hcd 0000:00:1d.7: continuing after BIOS bug...
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:1d.7: irq 11, io mem 0xd2dffc00
PCI: cache line size of 32 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 1−0:1.0: USB hub found
hub 1−0:1.0: 8 ports detected
USB Universal Host Controller Interface driver v2.3
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: UHCI Host Controller
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
uhci_hcd 0000:00:1d.0: irq 11, io base 0x00009880
hub 2−0:1.0: USB hub found
hub 2−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: UHCI Host Controller
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3
uhci_hcd 0000:00:1d.1: irq 3, io base 0x00009c00
hub 3−0:1.0: USB hub found
hub 3−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.2 to 64
uhci_hcd 0000:00:1d.2: UHCI Host Controller
uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4
uhci_hcd 0000:00:1d.2: irq 5, io base 0x0000a000
hub 4−0:1.0: USB hub found
hub 4−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.3 to 64
uhci_hcd 0000:00:1d.3: UHCI Host Controller
uhci_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 5
uhci_hcd 0000:00:1d.3: irq 10, io base 0x0000a080
hub 5−0:1.0: USB hub found
hub 5−0:1.0: 2 ports detected
usbcore: registered new driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Initializing USB Mass Storage driver...
usb 2−1: new low speed USB device using uhci_hcd and address 2
usb 2−2: new low speed USB device using uhci_hcd and address 3
usbcore: registered new driver usb−storage
USB Mass Storage support registered.
input: USB HID v1.10 Keyboard [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Device [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Mouse [Genius NetScroll+Mini Traveler] on usb−0000:00:1d.0−2
usbcore: registered new driver usbhid
drivers/usb/input/hid−core.c: v2.6:USB HID core driver
usb 4−1: new full speed USB device using uhci_hcd and address 2
usbcore: registered new driver usbserial
drivers/usb/serial/usb−serial.c: USB Serial support registered for Generic
usbcore: registered new driver usbserial_generic
drivers/usb/serial/usb−serial.c: USB Serial Driver core v2.0
drivers/usb/serial/usb−serial.c: USB Serial support registered for PL−2303

pl2303 4−1:1.0: PL−2303 converter detected
usb 4−1: PL−2303 converter now attached to ttyUSB0
usbcore: registered new driver pl2303
drivers/usb/serial/pl2303.c: Prolific PL2303 USB to serial adaptor driver v0.12
md: linear personality registered as nr 1
md: raid0 personality registered as nr 2
md: md driver 0.90.2 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: bitmap version 3.38
Advanced Linux Sound Architecture Driver Version 1.0.9 (Sun May 29 07:31:02 2005 UTC).
ALSA device list:
  No soundcards found.
NET: Registered protocol family 2
IP route cache hash table entries: 65536 (order: 6, 262144 bytes)
TCP established hash table entries: 262144 (order: 9, 2097152 bytes)
TCP bind hash table entries: 65536 (order: 6, 262144 bytes)
TCP: Hash tables configured (established 262144 bind 65536)
TCP reno registered
TCP bic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
Using IPI Shortcut mode
md: Autodetecting RAID arrays.
md: autorun ...
md: considering sdb7 ...
md: adding sdb7 ...
md: sdb6 has different UUID to sdb7
md: sdb5 has different UUID to sdb7
md: sda7 has different UUID to sdb7
md: adding sda6 ...
md: sda5 has different UUID to sdb7
md: created md2
md: bind<sda6>
md: bind<sdb7>
md: running: <sdb7><sda6>
md2: setting max_sectors to 128, segment boundary to 32767
raid0: looking at sdb7
raid0: comparing sdb7(20000768) with sdb7(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda6
raid0: comparing sda6(20000768) with sdb7(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: considering sdb6 ...
md: adding sdb6 ...

md: sdb5 has different UUID to sdb6
md: sda7 has different UUID to sdb6
md: adding sda5 ...
md: created md0
md: bind<sda5>
md: bind<sdb6>
md: running: <sdb6><sda5>
md0: setting max_sectors to 128, segment boundary to 32767
raid0: looking at sdb6
raid0: comparing sdb6(20000768) with sdb6(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda5
raid0: comparing sda5(20000768) with sdb6(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: considering sdb5 ...
md: adding sdb5 ...
md: adding sda7 ...
md: created md1
md: bind<sda7>
md: bind<sdb5>
md: running: <sdb5><sda7>
md1: setting max_sectors to 128, segment boundary to 32767
raid0: looking at sdb5
raid0: comparing sdb5(20000768) with sdb5(20000768)
raid0: END
raid0: ==> UNIQUE
raid0: 1 zones
raid0: looking at sda7
raid0: comparing sda7(20000768) with sdb5(20000768)
raid0: EQUAL
raid0: FINAL 1 zones
raid0: done.
raid0 : md_size is 40001536 blocks.
raid0 : conf−>hash_spacing is 40001536 blocks.
raid0 : nb_zone is 1.
raid0 : Allocating 4 bytes for hash.
md: ... autorun DONE.
VFS: Mounted root (reiser4 filesystem) readonly.
Freeing unused kernel memory: 200k freed
ReiserFS: sdb1: found reiserfs format "3.6" with standard journal
ReiserFS: sdb1: using ordered data mode
ReiserFS: sdb1: journal params: device sdb1, size 8192, journal first block 18, max trans len 1024, max batch 900, max commit age 30, max trans age 30

```
ReiserFS: sdb1: checking transaction log (sdb1)
ReiserFS: sdb1: Using r5 hash to sort names
eth0: network connection up using port A
    speed: 100
    autonegotiation: yes
    duplex mode: full
    flowctrl: symmetric
    irq moderation: disabled
    tcp offload: enabled
    scatter−gather: enabled
    tx−checksum: enabled
    rx−checksum: enabled
    rx−polling: enabled




fb0000 (usable)
 BIOS−e820: 000000003ffb0000 − 000000003ffbe000 (ACPI data)
 BIOS−e820: 000000003ffbe000 − 000000003fff0000 (ACPI NVS)
 BIOS−e820: 000000003fff0000 − 0000000040000000 (reserved)
 BIOS−e820: 00000000ffb80000 − 0000000100000000 (reserved)
127MB HIGHMEM available.
896MB LOWMEM available.
found SMP MP−table at 000ff780
On node 0 totalpages: 262064
  DMA zone: 4096 pages, LIFO batch:1
  Normal zone: 225280 pages, LIFO batch:31
  HighMem zone: 32688 pages, LIFO batch:15
DMI 2.3 present.
Intel MultiProcessor Specification v1.1
    Virtual Wire compatibility mode.
OEM ID: INTEL Product ID: APIC at: 0xFEE00000
Processor #0 6:13 APIC version 20
I/O APIC #1 Version 32 at 0xFEC00000.
Enabling APIC mode: Flat. Using 1 I/O APICs
Processors: 1
Allocating PCI resources starting at 40000000 (gap: 40000000:bfb80000)
Built 1 zonelists
mapped APIC to ffffd000 (fee00000)
mapped IOAPIC to ffffc000 (fec00000)
Initializing CPU#0
Kernel command line: root=/dev/md1 vga=794 quiet
PID hash table entries: 4096 (order: 12, 65536 bytes)
Detected 1606.130 MHz processor.
Using tsc for high−res timesource
Console: colour dummy device 80x25
Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)
Inode−cache hash table entries: 65536 (order: 6, 262144 bytes)
Memory: 1034508k/1048256k available (2702k kernel code, 12980k reserved, 839k data, 168k init, 130752k
highmem)
```

Checking if this processor honours the WP bit even in supervisor mode... Ok.
Calibrating delay using timer specific routine.. 3214.30 BogoMIPS (lpj=1607154)
Security Framework v1.0.0 initialized
Capability LSM initialized
Mount−cache hash table entries: 512
CPU: After generic identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: After vendor identify, caps: afe9fbff 00000000 00000000 00000000 00000180 00000000 00000000
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 2048K
CPU: After all inits, caps: afe9fbff 00000000 00000000 00000040 00000180 00000000 00000000
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
mtrr: v2.0 (20020519)
CPU: Intel(R) Pentium(R) M processor 1.60GHz stepping 08
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Checking 'hlt' instruction... OK.
ENABLING IO−APIC IRQs
..TIMER: vector=0x31 pin1=2 pin2=0
NET: Registered protocol family 16
PCI: Using configuration type 1
SCSI subsystem initialized
usbcore: registered new driver usbfs
usbcore: registered new driver hub
PCI: Probing PCI hardware
PCI: Probing PCI hardware (bus 00)
PCI: Ignoring BAR0−3 of IDE controller 0000:00:1f.1
Boot video device is 0000:04:00.0
PCI: Transparent bridge − 0000:00:1e.0
PCI: Discovered primary peer bus ff [IRQ]
PCI: Using IRQ router PIIX/ICH [8086/2640] at 0000:00:1f.0
PCI−>APIC IRQ transform: 0000:00:01.0[A] −> IRQ 129
PCI−>APIC IRQ transform: 0000:00:1b.0[A] −> IRQ 129
PCI−>APIC IRQ transform: 0000:00:1c.0[A] −> IRQ 129
PCI−>APIC IRQ transform: 0000:00:1c.1[B] −> IRQ 137
PCI−>APIC IRQ transform: 0000:00:1d.0[A] −> IRQ 161
PCI−>APIC IRQ transform: 0000:00:1d.1[B] −> IRQ 153
PCI−>APIC IRQ transform: 0000:00:1d.2[C] −> IRQ 145
PCI−>APIC IRQ transform: 0000:00:1d.3[D] −> IRQ 129
PCI−>APIC IRQ transform: 0000:00:1d.7[A] −> IRQ 161
PCI−>APIC IRQ transform: 0000:00:1f.1[A] −> IRQ 145
PCI−>APIC IRQ transform: 0000:00:1f.2[B] −> IRQ 153
PCI−>APIC IRQ transform: 0000:00:1f.3[B] −> IRQ 153
PCI−>APIC IRQ transform: 0000:04:00.0[A] −> IRQ 129
PCI−>APIC IRQ transform: 0000:02:00.0[A] −> IRQ 137
Machine check exception polling timer started.
highmem bounce pool size: 64 pages
fuse init (API version 7.1)
Initializing Cryptographic API
PCI: Setting latency timer of device 0000:00:01.0 to 64
assign_interrupt_mode Found MSI capability

```
Allocate Port Service[pcie00]
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
PCI: Setting latency timer of device 0000:00:1c.1 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[pcie00]
Allocate Port Service[pcie02]
vesafb: framebuffer at 0xd8000000, mapped to 0xf8880000, using 5120k, total 131072k
vesafb: mode is 1280x1024x16, linelength=2560, pages=1
vesafb: protected mode interface info at c000:d620
vesafb: scrolling: redraw
vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0
Console: switching to colour frame buffer device 160x64
fb0: VESA VGA frame buffer device
fb1: Virtual frame buffer device, using 1024K of video memory
Real Time Clock Driver v1.12
i8xx TCO timer: heartbeat value must be 2<heartbeat<39, using 30
i8xx TCO timer: initialized (0x0860). heartbeat=30 sec (nowayout=0)
cn_fork is registered
cn_exit is registered
mice: PS/2 mouse device common for all mice
io scheduler noop registered
io scheduler cfq registered
Floppy drive(s): fd0 is 1.44M
FDC 0 is a post−1991 82077
RAMDISK driver initialized: 2 RAM disks of 4096K size 1024 blocksize
loop: loaded (max 8 devices)
ub: sizeof ub_scsi_cmd 68 ub_dev 2384 ub_lun 140
usbcore: registered new driver ub
sk98lin: Network Device Driver v8.23.1.3
(C)Copyright 1999−2005 Marvell(R).
PCI: Setting latency timer of device 0000:02:00.0 to 64
eth0: Marvell Yukon 88E8053 Gigabit Ethernet Controller
     PrefPort:A RlmtMode:Check Link State
netconsole: not configured, aborting
Uniform Multi−Platform E−IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
ICH6: IDE controller at PCI slot 0000:00:1f.1
ICH6: chipset revision 5
ICH6: not 100% native mode: will probe irqs later
   ide0: BM−DMA at 0xffa0−0xffa7, BIOS settings: hda:DMA, hdb:pio
   ide1: BM−DMA at 0xffa8−0xffaf, BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
hda: HL−DT−ST DVDRAM GSA−4163B, ATAPI CD/DVD−ROM drive
hdb: LITE−ON LTR−52246S, ATAPI CD/DVD−ROM drive
ide0 at 0x1f0−0x1f7,0x3f6 on irq 14
Probing IDE interface ide1...
hda: ATAPI 40X DVD−ROM DVD−R−RAM CD−R/RW drive, 2048kB Cache, UDMA(33)
Uniform CD−ROM driver Revision: 3.20
```

```
hdb: ATAPI 52X CD−ROM CD−R/RW drive, 2048kB Cache, UDMA(33)
libata version 1.11 loaded.
ata_piix version 1.03
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ata1: SATA max UDMA/133 cmd 0xAC00 ctl 0xA882 bmdma 0xA400 irq 153
ata2: SATA max UDMA/133 cmd 0xA800 ctl 0xA482 bmdma 0xA408 irq 153
ata1: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata1: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata1: dev 0 configured for UDMA/133
scsi0 : ata_piix
ata2: dev 0 cfg 49:2f00 82:746b 83:7f01 84:4023 85:7469 86:3c01 87:4023 88:20ff
ata2: dev 0 ATA−7, max UDMA7, 312581808 sectors: LBA48
ata2: dev 0 configured for UDMA/133
scsi1 : ata_piix
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
  Vendor: ATA Model: SAMSUNG HD160JJ Rev: WU10
  Type: Direct−Access ANSI SCSI revision: 05
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
SCSI device sda: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sda: drive cache: write back
 sda: sda1 sda2 < sda5 sda6 sda7 >
Attached scsi disk sda at scsi0, channel 0, id 0, lun 0
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
SCSI device sdb: 312581808 512−byte hdwr sectors (160042 MB)
SCSI device sdb: drive cache: write back
 sdb: sdb1 sdb2 < sdb5 sdb6 sdb7 sdb8 >
Attached scsi disk sdb at scsi1, channel 0, id 0, lun 0
Attached scsi generic sg0 at scsi0, channel 0, id 0, lun 0, type 0
Attached scsi generic sg1 at scsi1, channel 0, id 0, lun 0, type 0
usbmon: debugs is not available
PCI: Setting latency timer of device 0000:00:1d.7 to 64
ehci_hcd 0000:00:1d.7: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI
Controller
ehci_hcd 0000:00:1d.7: debug port 1
ehci_hcd 0000:00:1d.7: BIOS handoff failed (104, 01010001)
ehci_hcd 0000:00:1d.7: continuing after BIOS bug...
ehci_hcd 0000:00:1d.7: new USB bus registered, assigned bus number 1
ehci_hcd 0000:00:1d.7: irq 161, io mem 0xd2dffc00
PCI: cache line size of 32 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 1−0:1.0: USB hub found
hub 1−0:1.0: 8 ports detected
USB Universal Host Controller Interface driver v2.3
PCI: Setting latency timer of device 0000:00:1d.0 to 64
uhci_hcd 0000:00:1d.0: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #1
uhci_hcd 0000:00:1d.0: new USB bus registered, assigned bus number 2
uhci_hcd 0000:00:1d.0: irq 161, io base 0x00009880
hub 2−0:1.0: USB hub found
```

hub 2−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.1 to 64
uhci_hcd 0000:00:1d.1: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #2
uhci_hcd 0000:00:1d.1: new USB bus registered, assigned bus number 3
uhci_hcd 0000:00:1d.1: irq 153, io base 0x00009c00
hub 3−0:1.0: USB hub found
hub 3−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.2 to 64
uhci_hcd 0000:00:1d.2: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #3
uhci_hcd 0000:00:1d.2: new USB bus registered, assigned bus number 4
uhci_hcd 0000:00:1d.2: irq 145, io base 0x0000a000
hub 4−0:1.0: USB hub found
hub 4−0:1.0: 2 ports detected
PCI: Setting latency timer of device 0000:00:1d.3 to 64
uhci_hcd 0000:00:1d.3: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #4
uhci_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 5
uhci_hcd 0000:00:1d.3: irq 129, io base 0x0000a080
hub 5−0:1.0: USB hub found
hub 5−0:1.0: 2 ports detected
usbcore: registered new driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
Initializing USB Mass Storage driver...
usb 2−1: new low speed USB device using uhci_hcd and address 2
usb 2−2: new low speed USB device using uhci_hcd and address 3
usbcore: registered new driver usb−storage
USB Mass Storage support registered.
usb 4−1: new full speed USB device using uhci_hcd and address 2
input: USB HID v1.10 Keyboard [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Device [CHESEN USB Keyboard] on usb−0000:00:1d.0−1
input: USB HID v1.10 Mouse [Genius NetScroll+Mini Traveler] on usb−0000:00:1d.0−2
usbcore: registered new driver usbhid
drivers/usb/input/hid−core.c: v2.6:USB HID core driver
md: linear personality registered as nr 1
md: raid0 personality registered as nr 2
md: md driver 0.90.2 MAX_MD_DEVS=256, MD_SB_DISKS=27
md: bitmap version 3.38
NET: Registered protocol family 2
IP route cache hash table entries: 65536 (order: 6, 262144 bytes)
TCP established hash table entries: 262144 (order: 9, 2097152 bytes)
TCP bind hash table entries: 65536 (order: 6, 262144 bytes)
TCP: Hash tables configured (established 262144 bind 65536)
TCP reno registere