

Re: AHCI – remove probing of ata2

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-04/msg00083.html>

- *From:* Håkan Lindqvist <lindqvist@xxxxxxxxxxx>
 - *Date:* Sun, 01 Apr 2007 16:19:01 +0200
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On Wed, 2007-02-14 at 13:56 +1300, Greg Trounson wrote:

At the risk of sounding like a "me too" post:

I also have an Asus P5W-DH, with the following drives connected:

SATA: ST3250820AS, connected to sata1

PATA: HL-DT-ST GSA-H12N, ATAPI DVD Writer, Primary master

On bootup of 2.6.19 and 2.6.20, the kernel stalls for 1 minute when probing sata2, eventually giving up and continuing the boot process. There is no physical sata2 connector on the Motherboard, just solder lugs between sata1 and sata3. From other users I understand this is really a Silicon Image SIL4723 SATA to 2-Port SATA splitter. It is detected by the kernel as a disk, as below.

I've had the same problem, in addition to the JMicron problem, but I have noticed a clear improvement in 2.6.21-rc5. (I have not tried any of the versions between 2.6.20 and this.)

I also have an Asus P5W DH Deluxe board, I normally only have PATA devices hooked up fow now (two harddrives on the ICH PATA port and a DVD-RW drive on the JMicron PATA port).

I used to have the same two main problems as have been discussed in this thread:

1) The one you mention above, the kernel stopping a long time to wait for the ata2 port (ICH SATA port 2, which really is linked to this SiL RAID chip), unless I had very specific settings in BIOS regarding the disk configuration.

2) The JMicron PATA breaking the kernel in various more or less spectacular ways.

So up until now I've had to disable the JMicron controller entirely, and have the ICH controller configured in a specific way in to be able to boot properly.

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With 2.6.21-rc5 BOTH of the above seem to have had a clear improvement. Both seem to work correctly with my configuration, I do however have to pass the "irqpoll" option to the kernel on boot.

For the sake of investigation I did hook up an extra drive on the sata1 (ICH) port, and noticed that while the ata1 initialized quickly and correctly, having any SATA drive connected caused the ata2 problem to reappear.

However, the kernel recovered A LOT quicker than it used to and when everything had booted, it seems that everything worked correctly (except that really shouldn't have been a "sdb" drive detected).

Attached is dmesg output from both cases.

Regards,
Håkan Lindqvist

(I am not subscribed to the list, please CC me on any replies.)

Linux version 2.6.21-rc5 (hawk@janne) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1 SMP PREEMPT Sun Apr 1 14:54:51 CEST 2007

BIOS-provided physical RAM map:

sanitize start

sanitize end

copy_e820_map() start: 0000000000000000 size: 000000000009fc00 end: 000000000009fc00 type: 1

copy_e820_map() type is E820_RAM

copy_e820_map() start: 000000000009fc00 size: 0000000000004000 end: 00000000000a0000 type: 2

copy_e820_map() start: 00000000000e4000 size: 000000000001c000 end: 0000000000100000 type: 2

copy_e820_map() start: 0000000000100000 size: 000000007fe80000 end: 000000007ff80000 type: 1

copy_e820_map() type is E820_RAM

copy_e820_map() start: 000000007ff80000 size: 000000000000e000 end: 000000007ff8e000 type: 3

copy_e820_map() start: 000000007ff8e000 size: 0000000000052000 end: 000000007ffe0000 type: 4

copy_e820_map() start: 000000007ffe0000 size: 0000000000020000 end: 0000000080000000 type: 2

copy_e820_map() start: 00000000ffb00000 size: 0000000000500000 end: 0000000100000000 type: 2

BIOS-e820: 0000000000000000 – 000000000009fc00 (usable)

BIOS-e820: 000000000009fc00 – 00000000000a0000 (reserved)

BIOS-e820: 00000000000e4000 – 0000000000100000 (reserved)

BIOS-e820: 0000000000100000 – 000000007ff80000 (usable)

BIOS-e820: 000000007ff80000 – 000000007ff8e000 (ACPI data)

BIOS-e820: 000000007ff8e000 – 000000007ffe0000 (ACPI NVS)

BIOS-e820: 000000007ffe0000 – 0000000080000000 (reserved)

BIOS-e820: 00000000ffb00000 – 0000000100000000 (reserved)

1151MB HIGHMEM available.

896MB LOWMEM available.

found SMP MP-table at 000ff780

Entering add_active_range(0, 0, 524160) 0 entries of 256 used

Zone PFN ranges:

DMA 0 -> 4096

Normal 4096 -> 229376

HighMem 229376 -> 524160

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early_node_map[1] active PFN ranges
0: 0 -> 524160
On node 0 totalpages: 524160
DMA zone: 32 pages used for memmap
DMA zone: 0 pages reserved
DMA zone: 4064 pages, LIFO batch:0
Normal zone: 1760 pages used for memmap
Normal zone: 223520 pages, LIFO batch:31
HighMem zone: 2303 pages used for memmap
HighMem zone: 292481 pages, LIFO batch:31
DMI 2.4 present.
ACPI: RSDP 000FAF20, 0014 (r0 ACPIAM)
ACPI: RSDT 7FF80000, 0044 (r1 NEC 3000707 MSFT 97)
ACPI: FACP 7FF80200, 0081 (r1 A_M_I_OEMFACP 3000707 MSFT 97)
ACPI: DSDT 7FF80590, 9560 (r1 A0543 A0543000 0 INTL 20060113)
ACPI: FACS 7FF8E000, 0040
ACPI: APIC 7FF80390, 0080 (r1 A_M_I_OEMAPIC 3000707 MSFT 97)
ACPI: SLIC 7FF80410, 0176 (r1 NEC 3000707 MSFT 97)
ACPI: OEMB 7FF8E040, 0066 (r1 A_M_I_AMI_OEM 3000707 MSFT 97)
ACPI: HPET 7FF89AF0, 0038 (r1 A_M_I_OEMHPET 3000707 MSFT 97)
ACPI: MCFG 7FF89B30, 003C (r1 A_M_I_OEMMCFG 3000707 MSFT 97)
ACPI: SSDT 7FF8E0B0, 01C6 (r1 AMI CPU1PM 1 INTL 20060113)
ACPI: SSDT 7FF8E280, 013A (r1 AMI CPU2PM 1 INTL 20060113)
ACPI: PM-Timer IO Port: 0x808
ACPI: Local APIC address 0xfe00000
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x02] lapic_id[0x01] enabled)
Processor #1 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x03] lapic_id[0x82] disabled)
ACPI: LAPIC (acpi_id[0x04] lapic_id[0x83] disabled)
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, version 32, 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 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
Enabling APIC mode: Flat. Using 1 I/O APICs
ACPI: HPET id: 0x8086a201 base: 0xfed00000
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 88000000 (gap: 80000000:7fb00000)
Built 1 zonelists. Total pages: 520065
Kernel command line: root=/dev/hde2 ro irqpoll
Misrouted IRQ fixup and polling support enabled
This may significantly impact system performance
mapped APIC to fffd000 (fee00000)
mapped IOAPIC to fffc000 (fec00000)
Enabling fast FPU save and restore... done.

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Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 16384 bytes)
Detected 2404.237 MHz processor.
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: 2070604k/2096640k available (1679k kernel code, 24756k reserved, 668k data, 212k init, 1179136k highmem)
virtual kernel memory layout:
fixmap : 0xfff4f000 – 0xfffff000 (704 kB)
pkmap : 0xff800000 – 0xffc00000 (4096 kB)
vmalloc : 0xf8800000 – 0xff7fe000 (111 MB)
lowmem : 0xc0000000 – 0xf8000000 (896 MB)
.init : 0xc0351000 – 0xc0386000 (212 kB)
.data : 0xc02a3c5d – 0xc034af74 (668 kB)
.text : 0xc0100000 – 0xc02a3c5d (1679 kB)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0
hpet0: 3 64-bit timers, 14318180 Hz
Calibrating delay using timer specific routine.. 4818.55 BogoMIPS (lpj=9637105)
Security Framework v1.0.0 initialized
SELinux: Disabled at boot.
Capability LSM initialized
Mount-cache hash table entries: 512
CPU: After generic identify, caps: bfebfbff 20100000 00000000 00000000 0000e3bd 00000000 00000001
monitor/mwait feature present.
using mwait in idle threads.
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 0
CPU: After all inits, caps: bfebfbff 20100000 00000000 00003940 0000e3bd 00000000 00000001
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
Compat vDSO mapped to fffe000.
Checking 'hlt' instruction... OK.
SMP alternatives: switching to UP code
ACPI: Core revision 20070126
CPU0: Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz stepping 06
SMP alternatives: switching to SMP code
Booting processor 1/1 eip 3000
Initializing CPU#1
Calibrating delay using timer specific routine.. 4808.23 BogoMIPS (lpj=9616466)
CPU: After generic identify, caps: bfebfbff 20100000 00000000 00000000 0000e3bd 00000000 00000001
monitor/mwait feature present.
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 1
CPU: After all inits, caps: bfebfbff 20100000 00000000 00003940 0000e3bd 00000000 00000001

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Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#1.
CPU1: Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz stepping 06
Total of 2 processors activated (9626.78 BogomIPS).
ENABLING IO-APIC IRQs
..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
APIC calibration not consistent with PM Timer: 97ms instead of 100ms
APIC delta adjusted to PM-Timer: 1669521 (1621206)
checking TSC synchronization [CPU#0 -> CPU#1]: passed.
Brought up 2 CPUs
migration_cost=37
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: BIOS Bug: MCFG area at f0000000 is not E820-reserved
PCI: Not using MMCONFIG.
PCI: PCI BIOS revision 3.00 entry at 0xf0031, last bus=4
PCI: Using configuration type 1
Setting up standard PCI resources
ACPI: Interpreter enabled
ACPI: (supports S0 S1 S3 S4 S5)
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
PCI: Probing PCI hardware (bus 00)
PCI quirk: region 0800-087f claimed by ICH6 ACPI/GPIO/TCO
PCI quirk: region 0480-04bf claimed by ICH6 GPIO
0000:00:1f.1: trying to change BAR0 from 0000 to 01F0
0000:00:1f.1: trying to change BAR1 from 0000 to 03F4
0000:00:1f.1: trying to change BAR2 from 0000 to 0170
0000:00:1f.1: trying to change BAR3 from 0000 to 0374
Boot video device is 0000:04:00.0
PCI: Transparent bridge - 0000:00:1e.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P1._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P3._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P4._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P9._PRT]
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 5 6 *7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKD] (IRQs *3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 *5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKG] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LNKH] (IRQs 3 4 5 *6 7 10 11 12 14 15)
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI: init
pnp: PnP ACPI: found 14 devices
PnPBIOS: Disabled by ACPI PNP
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
NET: Registered protocol family 8

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NET: Registered protocol family 20
pnp: 00:01: iomem range 0xfed13000–0xfed19fff has been reserved
pnp: 00:06: ioport range 0x290–0x297 has been reserved
pnp: 00:07: iomem range 0xfed1c000–0xfed1ffff has been reserved
pnp: 00:07: iomem range 0xfed20000–0xfed3ffff has been reserved
pnp: 00:07: iomem range 0xfed50000–0xfed8ffff has been reserved
pnp: 00:07: iomem range 0xffb00000–0xffbfffff could not be reserved
pnp: 00:0a: iomem range 0xfec00000–0xfec00fff has been reserved
pnp: 00:0a: iomem range 0xfe000000–0xfe00fff has been reserved
pnp: 00:0c: iomem range 0xf0000000–0xf3ffffff has been reserved
pnp: 00:0d: iomem range 0x0–0x9ffff could not be reserved
pnp: 00:0d: iomem range 0xc0000–0xdffff could not be reserved
pnp: 00:0d: iomem range 0xe0000–0xfffff could not be reserved
pnp: 00:0d: iomem range 0x100000–0x7ffffff could not be reserved
Time: tsc clocksource has been installed.
PCI: Bridge: 0000:00:01.0
IO window: c000–cfff
MEM window: faa00000–feafffff
PREFETCH window: cff00000–efefffff
PCI: Bridge: 0000:00:1c.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: cfe00000–cfefffff
PCI: Bridge: 0000:00:1c.5
IO window: b000–bfff
MEM window: fa900000–fa9fffff
PREFETCH window: disabled.
PCI: Bridge: 0000:00:1e.0
IO window: a000–afff
MEM window: fa800000–fa8fffff
PREFETCH window: c7e00000–cfdfffff
ACPI: PCI Interrupt 0000:00:01.0[A] -> GSI 16 (level, low) -> IRQ 16
PCI: Setting latency timer of device 0000:00:01.0 to 64
ACPI: PCI Interrupt 0000:00:1c.0[A] -> GSI 16 (level, low) -> IRQ 16
PCI: Setting latency timer of device 0000:00:1c.0 to 64
ACPI: PCI Interrupt 0000:00:1c.5[B] -> GSI 17 (level, low) -> IRQ 17
PCI: Setting latency timer of device 0000:00:1c.5 to 64
PCI: Setting latency timer of device 0000:00:1e.0 to 64
NET: Registered protocol family 2
IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
TCP established hash table entries: 131072 (order: 9, 2097152 bytes)
TCP bind hash table entries: 65536 (order: 7, 786432 bytes)
TCP: Hash tables configured (established 131072 bind 65536)
TCP reno registered
checking if image is initramfs... it is
Freeing initrd memory: 4594k freed
audit: initializing netlink socket (disabled)
audit(1175440901.832:1): initialized
highmem bounce pool size: 64 pages
VFS: Disk quotas dquot_6.5.1
Dquot–cache hash table entries: 1024 (order 0, 4096 bytes)

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io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
PCI: Setting latency timer of device 0000:00:01.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:01.0:pcie00]
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.0:pcie00]
Allocate Port Service[0000:00:1c.0:pcie02]
PCI: Setting latency timer of device 0000:00:1c.5 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.5:pcie00]
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
hpet_resources: 0xfed00000 is busy
Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
00:0b: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
RAMDISK driver initialized: 16 RAM disks of 8192K size 1024 blocksize
PNP: PS/2 Controller [PNP0303:PS2K] at 0x60,0x64 irq 1
PNP: PS/2 controller doesn't have AUX irq; using default 12
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
TCP bic registered
NET: Registered protocol family 1
NET: Registered protocol family 17
Starting balanced_irq
Using IPI No-Shortcut mode
Freeing unused kernel memory: 212k freed
input: AT Translated Set 2 keyboard as /class/input/input0
ACPI Warning (tbutils-0158): Incorrect checksum in table [OEMTB] – DB, should be DA [20070126]
ACPI Error (psparse-0537): Method parse/execution failed [_PR_.CPU1._OSC] (Node c20f5888),
AE_ALREADY_EXISTS
ACPI: Marking method _OSC as Serialized
ACPI Error (psparse-0537): Method parse/execution failed [_PR_.CPU1._PDC] (Node c20f589c),
AE_ALREADY_EXISTS
ACPI: Marking method _PDC as Serialized
ACPI: Processor [CPU1] (supports 8 throttling states)
ACPI Error (psparse-0537): Method parse/execution failed [_PR_.CPU2._OSC] (Node c20f57d4),
AE_ALREADY_EXISTS
ACPI: Marking method _OSC as Serialized
ACPI Error (psparse-0537): Method parse/execution failed [_PR_.CPU2._PDC] (Node c20f57e8),
AE_ALREADY_EXISTS
ACPI: Marking method _PDC as Serialized
ACPI: Processor [CPU2] (supports 8 throttling states)
ACPI Exception (processor_core-0783): AE_NOT_FOUND, Processor Device is not present [20070126]
ACPI Exception (processor_core-0783): AE_NOT_FOUND, Processor Device is not present [20070126]
usbcore: registered new interface driver usbfs

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usbcore: registered new interface driver hub
usbcore: registered new device driver usb
USB Universal Host Controller Interface driver v3.0
ACPI: PCI Interrupt 0000:00:1d.0[A] -> GSI 20 (level, low) -> IRQ 18
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 1
uhci_hcd 0000:00:1d.0: irq 18, io base 0x0000e480
usb usb1: configuration #1 chosen from 1 choice
hub 1-0:1.0: USB hub found
hub 1-0:1.0: 2 ports detected
SCSI subsystem initialized
libata version 2.20 loaded.
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
Intel(R) PRO/1000 Network Driver – version 7.3.20-k2-NAPI
Copyright (c) 1999–2006 Intel Corporation.
ieee1394: Initialized config rom entry `ip1394'
ACPI: PCI Interrupt 0000:00:1d.1[B] -> GSI 17 (level, low) -> IRQ 17
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 2
uhci_hcd 0000:00:1d.1: irq 17, io base 0x0000e800
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.2[C] -> GSI 18 (level, low) -> IRQ 19
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 3
uhci_hcd 0000:00:1d.2: irq 19, io base 0x0000e880
usb usb3: configuration #1 chosen from 1 choice
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.3[D] -> GSI 19 (level, low) -> IRQ 20
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 4
uhci_hcd 0000:00:1d.3: irq 20, io base 0x0000ec00
usb usb4: configuration #1 chosen from 1 choice
hub 4-0:1.0: USB hub found
hub 4-0:1.0: 2 ports detected
usb 1-2: new low speed USB device using uhci_hcd and address 2
JMB363: IDE controller at PCI slot 0000:02:00.1
ACPI: PCI Interrupt 0000:02:00.1[B] -> GSI 16 (level, low) -> IRQ 16
JMB363: chipset revision 2
JMB363: 100% native mode on irq 16
ide0: BM-DMA at 0xb400–0xb407, BIOS settings: hda:prio, hdb:prio
ide1: BM-DMA at 0xb408–0xb40f, BIOS settings: hdc:prio, hdd:prio
Probing IDE interface ide0...
usb 1-2: configuration #1 chosen from 1 choice

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usb 3-1: new full speed USB device using uhci_hcd and address 2
usb 3-1: configuration #1 chosen from 1 choice
hda: _NEC DVD_RW ND-3500AG, ATAPI CD/DVD-ROM drive
usb 3-2: new full speed USB device using uhci_hcd and address 3
usb 3-2: configuration #1 chosen from 1 choice
hub 3-2:1.0: USB hub found
hub 3-2:1.0: 4 ports detected
usb 4-1: new full speed USB device using uhci_hcd and address 2
ide0 at 0xbc00-0xbc07,0xb882 on irq 16
Probing IDE interface ide1...
usb 4-1: configuration #1 chosen from 1 choice
hub 4-1:1.0: USB hub found
hub 4-1:1.0: 4 ports detected
usb 3-2.3: new low speed USB device using uhci_hcd and address 4
ACPI: PCI Interrupt 0000:00:1d.7[A] -> GSI 20 (level, low) -> IRQ 18
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: new USB bus registered, assigned bus number 5
ehci_hcd 0000:00:1d.7: debug port 1
PCI: cache line size of 32 is not supported by device 0000:00:1d.7
ehci_hcd 0000:00:1d.7: irq 18, io mem 0xfebffc00
ehci_hcd 0000:00:1d.7: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb5: configuration #1 chosen from 1 choice
hub 5-0:1.0: USB hub found
hub 5-0:1.0: 8 ports detected
usb 3-2.3: configuration #1 chosen from 1 choice
usb 3-2.3: can't set config #1, error -71
hub 3-2:1.0: hub_port_status failed (err = -71)
hub 4-1:1.0: hub_port_status failed (err = -71)
hub 4-1:1.0: hub_port_status failed (err = -71)
hub 4-1:1.0: hub_port_status failed (err = -71)
hub 4-1:1.0: hub_port_status failed (err = -71)
hub 4-1:1.0: hub_port_status failed (err = -71)
hub 3-2:1.0: hub_port_status failed (err = -71)
usb 4-1: USB disconnect, address 2
ACPI: PCI Interrupt 0000:01:00.0[A] -> GSI 21 (level, low) -> IRQ 21
e1000: 0000:01:00.0: e1000_probe: (PCI:33MHz:32-bit) 00:07:e9:3e:c3:48
e1000: eth0: e1000_probe: Intel(R) PRO/1000 Network Connection
ACPI: PCI Interrupt 0000:01:01.2[B] -> GSI 23 (level, low) -> IRQ 22
ohci1394: fw-host0: OHCI-1394 1.1 (PCI): IRQ=[22] MMIO=[fa89f800-fa89ffff] Max Packet=[2048]
IR/IT contexts=[4/8]
ACPI: PCI Interrupt 0000:01:03.0[A] -> GSI 21 (level, low) -> IRQ 21
ohci1394: fw-host1: OHCI-1394 1.1 (PCI): IRQ=[21] MMIO=[fa89f000-fa89f7ff] Max Packet=[2048]
IR/IT contexts=[4/8]
ahci 0000:00:1f.2: version 2.1
ACPI: PCI Interrupt 0000:00:1f.2[B] -> GSI 23 (level, low) -> IRQ 22
usb 5-6: new high speed USB device using ehci_hcd and address 4
usb 5-6: configuration #1 chosen from 1 choice
hub 5-6:1.0: USB hub found
hub 5-6:1.0: 4 ports detected
usb 5-7: new high speed USB device using ehci_hcd and address 5
usb 5-7: configuration #1 chosen from 1 choice

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hub 5-7:1.0: USB hub found
hub 5-7:1.0: 4 ports detected
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ahci 0000:00:1f.2: AHCI 0001.0100 32 slots 4 ports 3 Gbps 0xf impl SATA mode
ahci 0000:00:1f.2: flags: 64bit ncq led clo pio slum part
ata1: SATA max UDMA/133 cmd 0xf8854900 ctl 0x00000000 bmdma 0x00000000 irq 220
ata2: SATA max UDMA/133 cmd 0xf8854980 ctl 0x00000000 bmdma 0x00000000 irq 220
ata3: SATA max UDMA/133 cmd 0xf8854a00 ctl 0x00000000 bmdma 0x00000000 irq 220
ata4: SATA max UDMA/133 cmd 0xf8854a80 ctl 0x00000000 bmdma 0x00000000 irq 220
scsi0 : ahci
usb 3-1: USB disconnect, address 2
ieee1394: Host added: ID:BUS[0-00:1023] GUID[00023c0151100d55]
usb 3-1: new full speed USB device using uhci_hcd and address 5
ata1: SATA link down (SStatus 0 SControl 300)
scsi1 : ahci
usb 3-1: configuration #1 chosen from 1 choice
usb 3-2: USB disconnect, address 3
usb 3-2.3: USB disconnect, address 4
ieee1394: Host added: ID:BUS[1-00:1023] GUID[0011d80000fee27c]
usb 1-2: USB disconnect, address 2
usb 1-2: new low speed USB device using uhci_hcd and address 3
ata2: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
scsi2 : ahci
usb 1-2: configuration #1 chosen from 1 choice
ata3: SATA link down (SStatus 0 SControl 300)
scsi3 : ahci
usb 5-6.3: new low speed USB device using ehci_hcd and address 6
usb 5-6.3: configuration #1 chosen from 1 choice
ata4: SATA link down (SStatus 0 SControl 300)
ACPI: PCI Interrupt 0000:02:00.0[A] -> GSI 17 (level, low) -> IRQ 17
usb 5-7.3: new high speed USB device using ehci_hcd and address 7
usb 5-7.3: configuration #1 chosen from 1 choice
usbcore: registered new interface driver hiddev
input: Logitech USB-PS/2 Optical Mouse as /class/input/input1
input: USB HID v1.10 Mouse [Logitech USB-PS/2 Optical Mouse] on usb-0000:00:1d.0-2
input: Logitech Logitech RumblePad 2 USB as /class/input/input2
input: USB HID v1.10 Joystick [Logitech Logitech RumblePad 2 USB] on usb-0000:00:1d.7-6.3
usbcore: registered new interface driver usbhid
drivers/usb/input/hid-core.c: v2.6:USB HID core driver
PCI: Setting latency timer of device 0000:02:00.0 to 64
ahci 0000:02:00.0: AHCI 0001.0000 32 slots 2 ports 3 Gbps 0x3 impl SATA mode
ahci 0000:02:00.0: flags: 64bit ncq pm led clo pmp pio slum part
ata5: SATA max UDMA/133 cmd 0xf89f0100 ctl 0x00000000 bmdma 0x00000000 irq 17
ata6: SATA max UDMA/133 cmd 0xf89f0180 ctl 0x00000000 bmdma 0x00000000 irq 17
scsi4 : ahci
ata5: SATA link down (SStatus 0 SControl 300)
scsi5 : ahci
ata6: SATA link down (SStatus 0 SControl 300)
ICH7: IDE controller at PCI slot 0000:00:1f.1
ACPI: PCI Interrupt 0000:00:1f.1[A] -> GSI 22 (level, low) -> IRQ 23
ICH7: chipset revision 1

Re: AHCI – remove probing of ata2

ICH7: not 100% native mode: will probe irqs later
ide2: BM-DMA at 0xffa0-0xffa7, BIOS settings: hde:DMA, hdf:DMA
ide3: BM-DMA at 0xffa8-0xffaf, BIOS settings: hdg:pio, hdh:pio
Probing IDE interface ide2...
hde: ST3250823A, ATA DISK drive
hdf: IC35L120AVV207-0, ATA DISK drive
ide2 at 0x1f0-0x1f7,0x3f6 on irq 14
Probing IDE interface ide3...
hde: max request size: 512KiB
hde: 488397168 sectors (250059 MB) w/8192KiB Cache, CHS=30401/255/63, UDMA(100)
hde: cache flushes supported
hde:<6>hda: ATAPI 48X DVD-ROM DVD-R CD-R/RW drive, 2048kB Cache, UDMA(33)
Uniform CD-ROM driver Revision: 3.20
hde1 hde2 hde3 hde4 < hde5 >
hdf: max request size: 512KiB
hdf: 241254720 sectors (123522 MB) w/1821KiB Cache, CHS=16383/255/63, UDMA(100)
hdf: cache flushes supported
hdf: hdf1
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
input: PC Speaker as /class/input/input3
Real Time Clock Driver v1.12ac
eth1394: eth1: IEEE-1394 IPv4 over 1394 Ethernet (fw-host0)
eth1394: eth2: IEEE-1394 IPv4 over 1394 Ethernet (fw-host1)
intel_rng: FWH not detected
ACPI: PCI Interrupt 0000:00:1f.3[B] -> GSI 23 (level, low) -> IRQ 22
drivers/usb/class/usblp.c: usblp0: USB Bidirectional printer dev 5 if 0 alt 1 proto 2 vid 0x03F0 pid 0x0317
usbcore: registered new interface driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
gameport: EMU10K1 is pci0000:01:01.1/gameport0, io 0xac00, speed 1028kHz
ACPI: PCI Interrupt 0000:01:01.0[A] -> GSI 22 (level, low) -> IRQ 23
Installing spdif_bug patch: Audigy 2 ZS [SB0350]
EXT3 FS on hde2, internal journal
Probing IDE interface ide1...
Probing IDE interface ide3...
device-mapper: ioctl: 4.11.0-ioctl (2006-10-12) initialised: dm-devel@xxxxxxxxxxx
SGI XFS with ACLs, security attributes, realtime, large block numbers, no debug enabled
SGI XFS Quota Management subsystem
e1000: eth0: e1000_watchdog: NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX/TX
NET: Registered protocol family 10
lo: Disabled Privacy Extensions
lp: driver loaded but no devices found
ppdev: user-space parallel port driver
eth0: no IPv6 routers present
Linux version 2.6.21-rc5 (hawk@janne) (gcc version 4.1.2 20061115 (prerelease) (Debian 4.1.1-21)) #1
SMP PREEMPT Sun Apr 1 14:54:51 CEST 2007
BIOS-provided physical RAM map:
sanitize start
sanitize end
copy_e820_map() start: 0000000000000000 size: 000000000009fc00 end: 000000000009fc00 type: 1
copy_e820_map() type is E820_RAM

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copy_e820_map() start: 00000000009fc00 size: 000000000000400 end: 0000000000a0000 type: 2
copy_e820_map() start: 0000000000e4000 size: 00000000001c000 end: 000000000100000 type: 2
copy_e820_map() start: 000000000100000 size: 000000007fe80000 end: 000000007ff80000 type: 1
copy_e820_map() type is E820_RAM
copy_e820_map() start: 000000007ff80000 size: 000000000000e000 end: 000000007ff8e000 type: 3
copy_e820_map() start: 000000007ff8e000 size: 0000000000052000 end: 000000007ffe0000 type: 4
copy_e820_map() start: 000000007ffe0000 size: 000000000020000 end: 0000000080000000 type: 2
copy_e820_map() start: 00000000ffb00000 size: 000000000500000 end: 0000000100000000 type: 2
BIOS-e820: 0000000000000000 – 000000000009fc00 (usable)
BIOS-e820: 000000000009fc00 – 00000000000a0000 (reserved)
BIOS-e820: 00000000000e4000 – 0000000000100000 (reserved)
BIOS-e820: 0000000000100000 – 000000007ff80000 (usable)
BIOS-e820: 000000007ff80000 – 000000007ff8e000 (ACPI data)
BIOS-e820: 000000007ff8e000 – 000000007ffe0000 (ACPI NVS)
BIOS-e820: 000000007ffe0000 – 0000000080000000 (reserved)
BIOS-e820: 00000000ffb00000 – 0000000100000000 (reserved)
1151MB HIGHMEM available.
896MB LOWMEM available.
found SMP MP-table at 000ff780
Entering add_active_range(0, 0, 524160) 0 entries of 256 used
Zone PFN ranges:
DMA 0 -> 4096
Normal 4096 -> 229376
HighMem 229376 -> 524160
early_node_map[1] active PFN ranges
0: 0 -> 524160
On node 0 totalpages: 524160
DMA zone: 32 pages used for memmap
DMA zone: 0 pages reserved
DMA zone: 4064 pages, LIFO batch:0
Normal zone: 1760 pages used for memmap
Normal zone: 223520 pages, LIFO batch:31
HighMem zone: 2303 pages used for memmap
HighMem zone: 292481 pages, LIFO batch:31
DMI 2.4 present.
ACPI: RSDP 000FAF20, 0014 (r0 ACPIAM)
ACPI: RSDT 7FF80000, 0044 (r1 NEC 3000707 MSFT 97)
ACPI: FACP 7FF80200, 0081 (r1 A_M_I_OEMFACP 3000707 MSFT 97)
ACPI: DSDT 7FF80590, 9560 (r1 A0543 A0543000 0 INTL 20060113)
ACPI: FACS 7FF8E000, 0040
ACPI: APIC 7FF80390, 0080 (r1 A_M_I_OEMAPIC 3000707 MSFT 97)
ACPI: SLIC 7FF80410, 0176 (r1 NEC 3000707 MSFT 97)
ACPI: OEMB 7FF8E040, 0066 (r1 A_M_I_AMI_OEM 3000707 MSFT 97)
ACPI: HPET 7FF89AF0, 0038 (r1 A_M_I_OEMHPET 3000707 MSFT 97)
ACPI: MCFG 7FF89B30, 003C (r1 A_M_I_OEMMCFG 3000707 MSFT 97)
ACPI: SSDT 7FF8E0B0, 01C6 (r1 AMI CPU1PM 1 INTL 20060113)
ACPI: SSDT 7FF8E280, 013A (r1 AMI CPU2PM 1 INTL 20060113)
ACPI: PM-Timer IO Port: 0x808
ACPI: Local APIC address 0xfee00000
ACPI: LAPIC (acpi_id[0x01] lapic_id[0x00] enabled)
Processor #0 6:15 APIC version 20

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ACPI: LAPIC (acpi_id[0x02] lapic_id[0x01] enabled)
Processor #1 6:15 APIC version 20
ACPI: LAPIC (acpi_id[0x03] lapic_id[0x82] disabled)
ACPI: LAPIC (acpi_id[0x04] lapic_id[0x83] disabled)
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi_base[0])
IOAPIC[0]: apic_id 2, version 32, 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 0 global_irq 2 dfl dfl)
ACPI: INT_SRC_OVR (bus 0 bus_irq 9 global_irq 9 high level)
ACPI: IRQ0 used by override.
ACPI: IRQ2 used by override.
ACPI: IRQ9 used by override.
Enabling APIC mode: Flat. Using 1 I/O APICs
ACPI: HPET id: 0x8086a201 base: 0xfed00000
Using ACPI (MADT) for SMP configuration information
Allocating PCI resources starting at 88000000 (gap: 80000000:7fb00000)
Built 1 zonelists. Total pages: 520065
Kernel command line: root=/dev/hde2 ro irqpoll
Misrouted IRQ fixup and polling support enabled
This may significantly impact system performance
mapped APIC to ffffd000 (fec00000)
mapped IOAPIC to fffc000 (fec00000)
Enabling fast FPU save and restore... done.
Enabling unmasked SIMD FPU exception support... done.
Initializing CPU#0
PID hash table entries: 4096 (order: 12, 16384 bytes)
Detected 2404.249 MHz processor.
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: 2070604k/2096640k available (1679k kernel code, 24756k reserved, 668k data, 212k init, 1179136k highmem)
virtual kernel memory layout:
fixmap : 0xffff4f000 – 0xfffff000 (704 kB)
pkmap : 0xff800000 – 0xffc00000 (4096 kB)
vmalloc : 0xf8800000 – 0xff7fe000 (111 MB)
lowmem : 0xc0000000 – 0xf8000000 (896 MB)
.init : 0xc0351000 – 0xc0386000 (212 kB)
.data : 0xc02a3c5d – 0xc034af74 (668 kB)
.text : 0xc0100000 – 0xc02a3c5d (1679 kB)
Checking if this processor honours the WP bit even in supervisor mode... Ok.
hpet0: at MMIO 0xfed00000, IRQs 2, 8, 0
hpet0: 3 64-bit timers, 14318180 Hz
Calibrating delay using timer specific routine.. 4818.55 BogoMIPS (lpj=9637112)
Security Framework v1.0.0 initialized
SELinux: Disabled at boot.
Capability LSM initialized
Mount-cache hash table entries: 512
CPU: After generic identify, caps: bfebfbff 20100000 00000000 00000000 0000e3bd 00000000 00000001
monitor/mwait feature present.

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using mwait in idle threads.
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 0
CPU: After all inits, caps: bfebfbff 20100000 00000000 00003940 0000e3bd 00000000 00000001
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#0.
Compat vDSO mapped to fffff000.
Checking 'hlt' instruction... OK.
SMP alternatives: switching to UP code
ACPI: Core revision 20070126
CPU0: Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz stepping 06
SMP alternatives: switching to SMP code
Booting processor 1/1 eip 3000
Initializing CPU#1
Calibrating delay using timer specific routine.. 4808.24 BogoMIPS (lpj=9616482)
CPU: After generic identify, caps: bfebfbff 20100000 00000000 00000000 0000e3bd 00000000 00000001
monitor/mwait feature present.
CPU: L1 I cache: 32K, L1 D cache: 32K
CPU: L2 cache: 4096K
CPU: Physical Processor ID: 0
CPU: Processor Core ID: 1
CPU: After all inits, caps: bfebfbff 20100000 00000000 00003940 0000e3bd 00000000 00000001
Intel machine check architecture supported.
Intel machine check reporting enabled on CPU#1.
CPU1: Intel(R) Core(TM)2 CPU 6600 @ 2.40GHz stepping 06
Total of 2 processors activated (9626.79 BogoMIPS).
ENABLING IO-APIC IRQs
..TIMER: vector=0x31 apic1=0 pin1=2 apic2=-1 pin2=-1
APIC calibration not consistent with PM Timer: 96ms instead of 100ms
APIC delta adjusted to PM-Timer: 1669519 (1618826)
checking TSC synchronization [CPU#0 -> CPU#1]: passed.
Brought up 2 CPUs
migration_cost=27
NET: Registered protocol family 16
ACPI: bus type pci registered
PCI: BIOS Bug: MCFG area at f0000000 is not E820-reserved
PCI: Not using MMCONFIG.
PCI: PCI BIOS revision 3.00 entry at 0xf0031, last bus=4
PCI: Using configuration type 1
Setting up standard PCI resources
ACPI: Interpreter enabled
ACPI: (supports S0 S1 S3 S4 S5)
ACPI: Using IOAPIC for interrupt routing
ACPI: PCI Root Bridge [PCI0] (0000:00)
PCI: Probing PCI hardware (bus 00)
PCI quirk: region 0800-087f claimed by ICH6 ACPI/GPIO/TCO
PCI quirk: region 0480-04bf claimed by ICH6 GPIO
0000:00:1f.1: trying to change BAR0 from 0000 to 01F0
0000:00:1f.1: trying to change BAR1 from 0000 to 03F4

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0000:00:1f.1: trying to change BAR2 from 0000 to 0170
0000:00:1f.1: trying to change BAR3 from 0000 to 0374
Boot video device is 0000:04:00.0
PCI: Transparent bridge – 0000:00:1e.0
ACPI: PCI Interrupt Routing Table [_SB_.PCI0._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P1._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P3._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P4._PRT]
ACPI: PCI Interrupt Routing Table [_SB_.PCI0.P0P9._PRT]
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 5 6 *7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKD] (IRQs *3 4 5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 *5 6 7 10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 6 7 *10 11 12 14 15)
ACPI: PCI Interrupt Link [LNKG] (IRQs 3 4 5 6 7 10 *11 12 14 15)
ACPI: PCI Interrupt Link [LNKH] (IRQs 3 4 5 *6 7 10 11 12 14 15)
Linux Plug and Play Support v0.97 (c) Adam Belay
pnp: PnP ACPI init
pnp: PnP ACPI: found 14 devices
PnPBIOS: Disabled by ACPI PNP
PCI: Using ACPI for IRQ routing
PCI: If a device doesn't work, try "pci=routeirq". If it helps, post a report
NET: Registered protocol family 8
NET: Registered protocol family 20
pnp: 00:01: iomem range 0xfed13000–0xfed19fff has been reserved
pnp: 00:06: ioport range 0x290–0x297 has been reserved
pnp: 00:07: iomem range 0xfed1c000–0xfed1ffff has been reserved
pnp: 00:07: iomem range 0xfed20000–0xfed3ffff has been reserved
pnp: 00:07: iomem range 0xfed50000–0xfed8ffff has been reserved
pnp: 00:07: iomem range 0xffb00000–0xffbfffff could not be reserved
pnp: 00:0a: iomem range 0xfec00000–0xfec00fff has been reserved
pnp: 00:0a: iomem range 0xfe000000–0xfe00fff has been reserved
pnp: 00:0c: iomem range 0xf0000000–0xf3ffffff has been reserved
pnp: 00:0d: iomem range 0x0–0x9ffff could not be reserved
pnp: 00:0d: iomem range 0xc0000–0xdffff could not be reserved
pnp: 00:0d: iomem range 0xe0000–0xfffff could not be reserved
pnp: 00:0d: iomem range 0x100000–0x7ffffff could not be reserved
Time: tsc clocksource has been installed.
PCI: Bridge: 0000:00:01.0
IO window: c000–cfff
MEM window: faa00000–feafffff
PREFETCH window: cff00000–efefffff
PCI: Bridge: 0000:00:1c.0
IO window: disabled.
MEM window: disabled.
PREFETCH window: cfe00000–cfefffff
PCI: Bridge: 0000:00:1c.5
IO window: b000–bfff
MEM window: fa900000–fa9fffff
PREFETCH window: disabled.

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PCI: Bridge: 0000:00:1e.0
IO window: a000–afff
MEM window: fa800000–fa8fffff
PREFETCH window: c7e00000–cfdfffff
ACPI: PCI Interrupt 0000:00:01.0[A] –> GSI 16 (level, low) –> IRQ 16
PCI: Setting latency timer of device 0000:00:01.0 to 64
ACPI: PCI Interrupt 0000:00:1c.0[A] –> GSI 16 (level, low) –> IRQ 16
PCI: Setting latency timer of device 0000:00:1c.0 to 64
ACPI: PCI Interrupt 0000:00:1c.5[B] –> GSI 17 (level, low) –> IRQ 17
PCI: Setting latency timer of device 0000:00:1c.5 to 64
PCI: Setting latency timer of device 0000:00:1e.0 to 64
NET: Registered protocol family 2
IP route cache hash table entries: 32768 (order: 5, 131072 bytes)
TCP established hash table entries: 131072 (order: 9, 2097152 bytes)
TCP bind hash table entries: 65536 (order: 7, 786432 bytes)
TCP: Hash tables configured (established 131072 bind 65536)
TCP reno registered
checking if image is initramfs... it is
Freeing initrd memory: 4594k freed
audit: initializing netlink socket (disabled)
audit(1175442775.832:1): initialized
highmem bounce pool size: 64 pages
VFS: Disk quotas dquot_6.5.1
Dquot–cache hash table entries: 1024 (order 0, 4096 bytes)
io scheduler noop registered
io scheduler anticipatory registered
io scheduler deadline registered
io scheduler cfq registered (default)
PCI: Setting latency timer of device 0000:00:01.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:01.0:pcie00]
PCI: Setting latency timer of device 0000:00:1c.0 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.0:pcie00]
Allocate Port Service[0000:00:1c.0:pcie02]
PCI: Setting latency timer of device 0000:00:1c.5 to 64
assign_interrupt_mode Found MSI capability
Allocate Port Service[0000:00:1c.5:pcie00]
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
hpet_resources: 0xfed00000 is busy
Serial: 8250/16550 driver \$Revision: 1.90 \$ 4 ports, IRQ sharing enabled
serial8250: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
00:0b: ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
RAMDISK driver initialized: 16 RAM disks of 8192K size 1024 blocksize
PNP: PS/2 Controller [PNP0303:PS2K] at 0x60,0x64 irq 1
PNP: PS/2 controller doesn't have AUX irq; using default 12
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
TCP bic registered

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NET: Registered protocol family 1
NET: Registered protocol family 17
Starting balanced_irq
Using IPI No-Shortcut mode
Freeing unused kernel memory: 212k freed
input: AT Translated Set 2 keyboard as /class/input/input0
ACPI Warning (tbutils-0158): Incorrect checksum in table [OEMB] – DB, should be DA [20070126]
ACPI Error (psparse-0537): Method parse/execution failed [_PR_CPU1._OSC] (Node c20f5888),
AE_ALREADY_EXISTS
ACPI: Marking method _OSC as Serialized
ACPI Error (psparse-0537): Method parse/execution failed [_PR_CPU1._PDC] (Node c20f589c),
AE_ALREADY_EXISTS
ACPI: Marking method _PDC as Serialized
ACPI: Processor [CPU1] (supports 8 throttling states)
ACPI Error (psparse-0537): Method parse/execution failed [_PR_CPU2._OSC] (Node c20f57d4),
AE_ALREADY_EXISTS
ACPI: Marking method _OSC as Serialized
ACPI Error (psparse-0537): Method parse/execution failed [_PR_CPU2._PDC] (Node c20f57e8),
AE_ALREADY_EXISTS
ACPI: Marking method _PDC as Serialized
ACPI: Processor [CPU2] (supports 8 throttling states)
ACPI Exception (processor_core-0783): AE_NOT_FOUND, Processor Device is not present [20070126]
ACPI Exception (processor_core-0783): AE_NOT_FOUND, Processor Device is not present [20070126]
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
JMB363: IDE controller at PCI slot 0000:02:00.1
ACPI: PCI Interrupt 0000:02:00.1[B] -> GSI 16 (level, low) -> IRQ 16
JMB363: chipset revision 2
JMB363: 100% native mode on irq 16
ide0: BM-DMA at 0xb400-0xb407, BIOS settings: hda:pio, hdb:pio
ide1: BM-DMA at 0xb408-0xb40f, BIOS settings: hdc:pio, hdd:pio
Probing IDE interface ide0...
usbcore: registered new interface driver usbfs
usbcore: registered new interface driver hub
SCSI subsystem initialized
usbcore: registered new device driver usb
libata version 2.20 loaded.
Intel(R) PRO/1000 Network Driver – version 7.3.20-k2-NAPI
Copyright (c) 1999-2006 Intel Corporation.
USB Universal Host Controller Interface driver v3.0
ieee1394: Initialized config rom entry `ip1394'
hda: _NEC DVD_RW ND-3500AG, ATAPI CD/DVD-ROM drive
ide0 at 0xbc00-0xbc07,0xb882 on irq 16
Probing IDE interface ide1...
ahci 0000:00:1f.2: version 2.1
ACPI: PCI Interrupt 0000:00:1f.2[B] -> GSI 23 (level, low) -> IRQ 18
PCI: Setting latency timer of device 0000:00:1f.2 to 64
ahci 0000:00:1f.2: AHCI 0001.0100 32 slots 4 ports 3 Gbps 0xf impl SATA mode
ahci 0000:00:1f.2: flags: 64bit ncq led clo pio slum part
ata1: SATA max UDMA/133 cmd 0xf8850900 ctl 0x00000000 bmdma 0x00000000 irq 220
ata2: SATA max UDMA/133 cmd 0xf8850980 ctl 0x00000000 bmdma 0x00000000 irq 220

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```
ata3: SATA max UDMA/133 cmd 0xf8850a00 ctl 0x00000000 bmdma 0x00000000 irq 220
ata4: SATA max UDMA/133 cmd 0xf8850a80 ctl 0x00000000 bmdma 0x00000000 irq 220
scsi0 : ahci
ata1: SATA link up 1.5 Gbps (SStatus 113 SControl 300)
ata1.00: ATA-4: ST320430A, 3.11, max UDMA/33
ata1.00: 40079088 sectors, multi 16: LBA
ata1.00: applying bridge limits
ata1.00: configured for UDMA/33
scsi1 : ahci
ata2: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
ata2.00: qc timeout (cmd 0xec)
ata2.00: failed to IDENTIFY (I/O error, err_mask=0x104)
ata2: port is slow to respond, please be patient (Status 0x80)
ata2: port failed to respond (30 secs, Status 0x80)
ata2: COMRESET failed (device not ready)
ata2: hardreset failed, retrying in 5 secs
ata2: SATA link up 3.0 Gbps (SStatus 123 SControl 300)
ata2.00: ATA-6: Config Disk, RGL10364, max UDMA/133
ata2.00: 640 sectors, multi 1: LBA
ata2.00: configured for UDMA/133
scsi2 : ahci
ata3: SATA link down (SStatus 0 SControl 300)
scsi3 : ahci
ata4: SATA link down (SStatus 0 SControl 300)
scsi 0:0:0:0: Direct-Access ATA ST320430A 3.11 PQ: 0 ANSI: 5
scsi 1:0:0:0: Direct-Access ATA Config Disk RGL1 PQ: 0 ANSI: 5
ACPI: PCI Interrupt 0000:02:00.0[A] -> GSI 17 (level, low) -> IRQ 17
PCI: Setting latency timer of device 0000:02:00.0 to 64
ahci 0000:02:00.0: AHCI 0001.0000 32 slots 2 ports 3 Gbps 0x3 impl SATA mode
ahci 0000:02:00.0: flags: 64bit ncq pm led clo pmp pio slum part
ata5: SATA max UDMA/133 cmd 0xf8910100 ctl 0x00000000 bmdma 0x00000000 irq 17
ata6: SATA max UDMA/133 cmd 0xf8910180 ctl 0x00000000 bmdma 0x00000000 irq 17
scsi4 : ahci
ata5: SATA link down (SStatus 0 SControl 300)
scsi5 : ahci
ata6: SATA link down (SStatus 0 SControl 300)
ACPI: PCI Interrupt 0000:01:00.0[A] -> GSI 21 (level, low) -> IRQ 19
SCSI device sda: 40079088 512-byte hdwr sectors (20520 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: write cache: enabled, read cache: enabled, doesn't support DPO or FUA
SCSI device sda: 40079088 512-byte hdwr sectors (20520 MB)
sda: Write Protect is off
sda: Mode Sense: 00 3a 00 00
SCSI device sda: write cache: enabled, read cache: enabled, doesn't support DPO or FUA
sda: sda1 sda2 < sda5 >
sd 0:0:0:0: Attached scsi disk sda
SCSI device sdb: 640 512-byte hdwr sectors (0 MB)
sdb: Write Protect is off
sdb: Mode Sense: 00 3a 00 00
SCSI device sdb: write cache: disabled, read cache: enabled, doesn't support DPO or FUA
```

Re: AHCI – remove probing of ata2

SCSI device sdb: 640 512-byte hdwr sectors (0 MB)
sdb: Write Protect is off
sdb: Mode Sense: 00 3a 00 00
SCSI device sdb: write cache: disabled, read cache: enabled, doesn't support DPO or FUA
sdb: unknown partition table
sd 1:0:0:0: Attached scsi disk sdb
e1000: 0000:01:00:0: e1000_probe: (PCI:33MHz:32-bit) 00:07:e9:3e:c3:48
e1000: eth0: e1000_probe: Intel(R) PRO/1000 Network Connection
ICH7: IDE controller at PCI slot 0000:00:1f.1
ACPI: PCI Interrupt 0000:00:1f.1[A] -> GSI 22 (level, low) -> IRQ 20
ICH7: chipset revision 1
ICH7: not 100% native mode: will probe irqs later
ide2: BM-DMA at 0xffa0-0xffa7, BIOS settings: hde:DMA, hdf:DMA
ide3: BM-DMA at 0xffa8-0xffaf, BIOS settings: hdg:pio, hdh:pio
Probing IDE interface ide2...
hde: ST3250823A, ATA DISK drive
hdf: IC35L120AVV207-0, ATA DISK drive
ide2 at 0x1f0-0x1f7,0x3f6 on irq 14
Probing IDE interface ide3...
ACPI: PCI Interrupt 0000:01:01.2[B] -> GSI 23 (level, low) -> IRQ 18
ohci1394: fw-host0: OHCI-1394 1.1 (PCI): IRQ=[18] MMIO=[fa89f800-fa89ffff] Max Packet=[2048]
IR/IT contexts=[4/8]
ACPI: PCI Interrupt 0000:01:03.0[A] -> GSI 21 (level, low) -> IRQ 19
ohci1394: fw-host1: OHCI-1394 1.1 (PCI): IRQ=[19] MMIO=[fa89f000-fa89f7ff] Max Packet=[2048]
IR/IT contexts=[4/8]
ACPI: PCI Interrupt 0000:00:1d.0[A] -> GSI 20 (level, low) -> IRQ 21
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 1
uhci_hcd 0000:00:1d.0: irq 21, io base 0x0000e480
usb usb1: configuration #1 chosen from 1 choice
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 17 (level, low) -> IRQ 17
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 2
uhci_hcd 0000:00:1d.1: irq 17, io base 0x0000e800
usb usb2: configuration #1 chosen from 1 choice
hub 2-0:1.0: USB hub found
hub 2-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.2[C] -> GSI 18 (level, low) -> IRQ 22
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 3
uhci_hcd 0000:00:1d.2: irq 22, io base 0x0000e880
usb usb3: configuration #1 chosen from 1 choice
hub 3-0:1.0: USB hub found
hub 3-0:1.0: 2 ports detected
ACPI: PCI Interrupt 0000:00:1d.3[D] -> GSI 19 (level, low) -> IRQ 23
PCI: Setting latency timer of device 0000:00:1d.3 to 64

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uhci_hcd 0000:00:1d.3: UHCI Host Controller
uhci_hcd 0000:00:1d.3: new USB bus registered, assigned bus number 4
uhci_hcd 0000:00:1d.3: irq 23, io base 0x0000ec00
usb usb4: configuration #1 chosen from 1 choice
hub 4-0:1.0: USB hub found
hub 4-0:1.0: 2 ports detected
usb 1-2: new low speed USB device using uhci_hcd and address 2
ACPI: PCI Interrupt 0000:00:1d.7[A] -> GSI 20 (level, low) -> IRQ 21
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: new USB bus registered, assigned bus number 5
ehci_hcd 0000:00:1d.7: debug port 1
PCI: cache line size of 32 is not supported by device 0000:00:1d.7
ehci_hcd 0000:00:1d.7: irq 21, io mem 0xfebffc00
ehci_hcd 0000:00:1d.7: USB 2.0 started, EHCI 1.00, driver 10 Dec 2004
usb usb5: configuration #1 chosen from 1 choice
hub 5-0:1.0: USB hub found
hub 5-0:1.0: 8 ports detected
hda: ATAPI 48X DVD-ROM DVD-R CD-R/RW drive, 2048kB Cache, UDMA(33)
Uniform CD-ROM driver Revision: 3.20
hde: max request size: 512KiB
hde: 488397168 sectors (250059 MB) w/8192KiB Cache, CHS=30401/255/63, UDMA(100)
hde: cache flushes supported
hde: hde1 hde2 hde3 hde4 < hde5 >
hdf: max request size: 512KiB
hdf: 241254720 sectors (123522 MB) w/1821KiB Cache, CHS=16383/255/63, UDMA(100)
hdf: cache flushes supported
hdf: hdf1
usb 1-2: device not accepting address 2, error -71
kjournald starting. Commit interval 5 seconds
EXT3-fs: mounted filesystem with ordered data mode.
ieee1394: Host added: ID:BUS[0-00:1023] GUID[00023c0151100d55]
ieee1394: Host added: ID:BUS[1-00:1023] GUID[0011d80000fee27c]
usb 5-6: new high speed USB device using ehci_hcd and address 4
usb 5-6: configuration #1 chosen from 1 choice
hub 5-6:1.0: USB hub found
hub 5-6:1.0: 4 ports detected
usb 5-7: new high speed USB device using ehci_hcd and address 5
usb 5-7: configuration #1 chosen from 1 choice
hub 5-7:1.0: USB hub found
hub 5-7:1.0: 4 ports detected
usb 1-2: new low speed USB device using uhci_hcd and address 4
usb 1-2: configuration #1 chosen from 1 choice
eth1394: eth1: IEEE-1394 IPv4 over 1394 Ethernet (fw-host0)
eth1394: eth2: IEEE-1394 IPv4 over 1394 Ethernet (fw-host1)
usb 3-1: new full speed USB device using uhci_hcd and address 2
input: PC Speaker as /class/input/input1
ACPI: PCI Interrupt 0000:00:1f.3[B] -> GSI 23 (level, low) -> IRQ 18
usb 3-1: configuration #1 chosen from 1 choice
usb 5-6.3: new low speed USB device using ehci_hcd and address 6
intel_rng: FWH not detected

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usb 5–6.3: configuration #1 chosen from 1 choice
gameport: EMU10K1 is pci0000:01:01.1/gameport0, io 0xac00, speed 1028kHz
Real Time Clock Driver v1.12ac
usb 5–7.3: new high speed USB device using ehci_hcd and address 7
usb 5–7.3: configuration #1 chosen from 1 choice
usbcore: registered new interface driver hiddev
drivers/usb/class/usblp.c: usblp0: USB Bidirectional printer dev 2 if 0 alt 1 proto 2 vid 0x03F0 pid 0x0317
usbcore: registered new interface driver usblp
drivers/usb/class/usblp.c: v0.13: USB Printer Device Class driver
input: Logitech USB–PS/2 Optical Mouse as /class/input/input2
input: USB HID v1.10 Mouse [Logitech USB–PS/2 Optical Mouse] on usb–0000:00:1d.0–2
input: Logitech Logitech RumblePad 2 USB as /class/input/input3
input: USB HID v1.10 Joystick [Logitech Logitech RumblePad 2 USB] on usb–0000:00:1d.7–6.3
usbcore: registered new interface driver usbhid
drivers/usb/input/hid–core.c: v2.6:USB HID core driver
ACPI: PCI Interrupt 0000:01:01.0[A] –> GSI 22 (level, low) –> IRQ 20
Installing spdif_bug patch: Audigy 2 ZS [SB0350]
EXT3 FS on hde2, internal journal
Probing IDE interface ide1...
Probing IDE interface ide3...
device–mapper: ioctl: 4.11.0–ioctl (2006–10–12) initialised: dm–devel@xxxxxxxxxxx
SGI XFS with ACLs, security attributes, realtime, large block numbers, no debug enabled
SGI XFS Quota Management subsystem
XFS: bad magic number
XFS: SB validate failed
e1000: eth0: e1000_watchdog: NIC Link is Up 1000 Mbps Full Duplex, Flow Control: RX/TX
NET: Registered protocol family 10
lo: Disabled Privacy Extensions
lp: driver loaded but no devices found
ppdev: user–space parallel port driver
eth0: no IPv6 routers present

Attachment: [smime.p7s](#)

Description: S/MIME cryptographic signature