

Linux-Kernel: Reporting "Yenta TI: socket 0000:02:03.0 no PCI interrupts. Fish. Please report."

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-07/6109.html>

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Date: 07/30/04

To: linux-kernel@vger.kernel.org

Date: Fri, 30 Jul 2004 14:10:51 +1000

Hi,

I just tried upgrading my notebook (Dell Latitude D800) from 2.6.4-rc1-mm1 to 2.6.8-rc2-mm1. It didn't work really well for me. Both the Wireless (internal Orinico pcmcia device) and the sound (i810) don't work.

There seems to be a problem with allocating interrupts. Interrupt 11, which seems to be used for just about everything, isn't being handled well.

Below is a diff -U100 between "dmesg" for a working boot with 2.6.4-rc1-mm1, and "dmesg" from a boot with 2.6.8-rc2-mm1

One thing that stands out is

```
-Yenta: ISA IRQ mask 0x0000, PCI irq 11
+Yenta TI: socket 0000:02:03.0, mfunc 0x01000002, devctl 0x60
+Yenta: request_irq() in yenta_probe_cb_irq() failed!
+Yenta TI: socket 0000:02:03.0 no PCI interrupts. Fish. Please report.
+Yenta: ISA IRQ mask 0x0000, PCI irq 0
```

which asks me to report, so I am.

After the diff is /proc/interrupts and the output of lspci when booted under 2.6.8-rc2-mm1.

Any help would be appreciated.

Thanks,

NeilBrown

```
--- dmesg.orig 2004-07-30 13:57:32.000000000 +1000
```

```
+++ dmesg 2004-07-30 13:41:51.000000000 +1000
```

```
@@ -1,261 +1,282 @@
```

```
-Linux version 2.6.4-rc1-mm1 (root@notabene) (gcc version 3.3.3 20040214 (prerelease) (Debian)) #3 Mon Mar 1 20:53:30 EST 2004
```

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+Linux version 2.6.8-rc2-mm1 (neilb@notabene) (gcc version 3.3.4 (Debian 1:3.3.4-4)) #2 Thu Jul 29 23:48:46 EST 2004

BIOS-provided physical RAM map:

BIOS-e820: 0000000000000000 - 000000000009f000 (usable)

BIOS-e820: 000000000009f000 - 00000000000a0000 (reserved)

BIOS-e820: 0000000000100000 - 000000003ffae000 (usable)

BIOS-e820: 000000003ffae000 - 0000000040000000 (reserved)

BIOS-e820: 00000000feda0000 - 00000000fee00000 (reserved)

BIOS-e820: 00000000ffb00000 - 0000000100000000 (reserved)

Warning only 896MB will be used.

Use a HIGHMEM enabled kernel.

896MB LOWMEM available.

-zapping low mappings.

On node 0 totalpages: 229376

DMA zone: 4096 pages, LIFO batch:1

Normal zone: 225280 pages, LIFO batch:16

HighMem zone: 0 pages, LIFO batch:1

DMI 2.3 present.

Dell Latitude with broken BIOS detected. Refusing to enable the local APIC.

ACPI: RSDP (v000 DELL) @ 0x000fd00

ACPI: RSDT (v001 DELL CPi R 0x27d3091e ASL 0x00000061) @ 0x3fff0000

ACPI: FADT (v001 DELL CPi R 0x27d3091e ASL 0x00000061) @ 0x3fff0400

ACPI: ASF! (v016 DELL CPi R 0x27d3091e ASL 0x00000061) @ 0x3fff0800

ACPI: DSDT (v001 INT430 SYSFexxx 0x00001001 MSFT 0x0100000e) @ 0x00000000

ACPI: PM-Timer IO Port: 0x808

Built 1 zonelists

Initializing CPU#0

-Kernel command line: auto BOOT_IMAGE=4 ro root=301 resume=/dev/hda2

+Kernel command line: auto BOOT_IMAGE=8 ro root=301 resume=/dev/hda2

PID hash table entries: 4096 (order 12: 32768 bytes)

-Detected 1598.664 MHz processor.

+Detected 1598.665 MHz processor.

Using pmtmr for high-res timesource

Console: colour VGA+ 80x25

-Memory: 903188k/917504k available (1975k kernel code, 13572k reserved, 957k data, 240k init, 0k highmem)

-Calibrating delay loop... 3191.60 BogomIPS

Dentry cache hash table entries: 131072 (order: 7, 524288 bytes)

Inode-cache hash table entries: 65536 (order: 6, 262144 bytes)

+Memory: 904148k/917504k available (2001k kernel code, 12612k reserved, 993k data, 240k init, 0k highmem)

+Checking if this processor honours the WP bit even in supervisor mode... Ok.

+Calibrating delay loop... 3191.60 BogomIPS (lpj=15958016)

Mount-cache hash table entries: 512 (order: 0, 4096 bytes)

-CPU: After generic identify, caps: a7e9f9bf 00000000 00000000 00000000

-CPU: After vendor identify, caps: a7e9f9bf 00000000 00000000 00000000

+CPU: After generic identify, caps: a7e9f9bf 00000000 00000000 00000000

+CPU: After vendor identify, caps: a7e9f9bf 00000000 00000000 00000000

CPU: L1 I cache: 32K, L1 D cache: 32K

CPU: L2 cache: 1024K

-CPU: After all inits, caps: a7e9f9bf 00000000 00000000 00000040

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```
pnnp: the driver 'system' has been registered
PnPBIOS: Scanning system for PnP BIOS support...
PnPBIOS: Found PnP BIOS installation structure at 0xc00fe2d0
PnPBIOS: PnP BIOS version 1.0, entry 0xf0000:0xe2f4, dseg 0x40
pnnp: match found with the PnP device '00:01' and the driver 'system'
-pnp: 00:01: ioport range 0x800-0x85f has been reserved
+pnp: 00:01: ioport range 0x800-0x85f could not be reserved
pnp: 00:01: ioport range 0x860-0x87f has been reserved
pnp: 00:01: ioport range 0x880-0x8bf has been reserved
pnp: 00:01: ioport range 0x8c0-0x8ff has been reserved
pnp: 00:01: ioport range 0x3f0-0x3f1 has been reserved
pnp: 00:01: ioport range 0x900-0x97f has been reserved
-pnp: 00:01: ioport range 0xf400-0xf4fe has been reserved
+pnp: 00:01: ioport range 0xf400-0xf4fe could not be reserved
PnPBIOS: 14 nodes reported by PnP BIOS; 14 recorded by driver
SCSI subsystem initialized
Linux Kernel Card Services
  options: [pci] [cardbus] [pm]
-drivers/usb/core/usb.c: registered new driver usbfs
-drivers/usb/core/usb.c: registered new driver hub
+usbcore: registered new driver usbfs
+usbcore: registered new driver hub
+PCI: Using ACPI for IRQ routing
ACPI: PCI Interrupt Link [LNKA] enabled at IRQ 11
+ACPI: PCI interrupt 0000:00:1d.0[A] -> GSI 11 (level, low) -> IRQ 11
ACPI: PCI Interrupt Link [LNKD] enabled at IRQ 11
+ACPI: PCI interrupt 0000:00:1d.1[B] -> GSI 11 (level, low) -> IRQ 11
ACPI: PCI Interrupt Link [LNKC] enabled at IRQ 11
+ACPI: PCI interrupt 0000:00:1d.2[C] -> GSI 11 (level, low) -> IRQ 11
ACPI: PCI Interrupt Link [LNKH] enabled at IRQ 11
-ACPI: PCI Interrupt Link [LNKB] enabled at IRQ 11
-PCI: Using ACPI for IRQ routing
-PCI: if you experience problems, try using option 'pci=noacpi' or even 'acpi=off'
-ikconfig 0.7 with /proc/config*
+ACPI: PCI interrupt 0000:00:1d.7[D] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:00:1f.1[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI Interrupt Link [LNKB] enabled at IRQ 7
+ACPI: PCI interrupt 0000:00:1f.5[B] -> GSI 7 (level, low) -> IRQ 7
+ACPI: PCI interrupt 0000:00:1f.6[B] -> GSI 7 (level, low) -> IRQ 7
+ACPI: PCI interrupt 0000:01:00.0[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:02:00.0[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:02:01.0[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:02:01.1[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:02:01.2[A] -> GSI 11 (level, low) -> IRQ 11
+ACPI: PCI interrupt 0000:02:03.0[A] -> GSI 7 (level, low) -> IRQ 7
+vesafb: probe of vesafb0 failed with error -6
Initializing Cryptographic API
ACPI: AC Adapter [AC] (on-line)
ACPI: Battery Slot [BAT0] (battery present)
ACPI: Battery Slot [BAT1] (battery present)
ACPI: Lid Switch [LID]
```

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```
ACPI: Power Button (CM) [PBTN]
ACPI: Sleep Button (CM) [SBTN]
ACPI: Processor [CPU0] (supports C1 C2 C3, 8 throttling states)
-ACPI: Thermal Zone [THM] (57 C)
+ACPI: Thermal Zone [THM] (58 C)
isapnp: Scanning for PnP cards...
isapnp: No Plug & Play device found
Real Time Clock Driver v1.12
Serial: 8250/16550 driver $Revision: 1.90 $ 8 ports, IRQ sharing disabled
ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A
ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A
+ACPI: PCI interrupt 0000:00:1f.6[B] -> GSI 7 (level, low) -> IRQ 7
pnp: the driver 'serial' has been registered
pnp: match found with the PnP device '00:0b' and the driver 'serial'
pnp: the driver 'parport_pc' has been registered
pnp: match found with the PnP device '00:0d' and the driver 'parport_pc'
-parport0: PC-style at 0x378 (0x778) [PCSPP,TRISTATE]
-parport0: irq 7 detected
-parport0: cpp_daisy: aa5500ff(38)
-parport0: assign_addrs: aa5500ff(38)
-parport0: cpp_daisy: aa5500ff(38)
-parport0: assign_addrs: aa5500ff(38)
+parport: PnPBIOS parport detected.
+parport0: PC-style at 0x378 (0x778), irq 7, dma 1 [PCSPP,TRISTATE,COMPAT,ECP,DMA]
RAMDISK driver initialized: 16 RAM disks of 4096K size 1024 blocksize
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx
ICH4: IDE controller at PCI slot 0000:00:1f.1
PCI: Enabling device 0000:00:1f.1 (0005 -> 0007)
+ACPI: PCI interrupt 0000:00:1f.1[A] -> GSI 11 (level, low) -> IRQ 11
ICH4: chipset revision 1
ICH4: not 100% native mode: will probe irqs later
   ide0: BM-DMA at 0xbfa0-0xbfa7, BIOS settings: hda:DMA, hdb:pio
   ide1: BM-DMA at 0xbfa8-0xbfaf, BIOS settings: hdc:pio, hdd:pio
hda: HITACHI_DK23EA-60, ATA DISK drive
Using anticipatory io scheduler
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14
hda: max request size: 128KiB
hda: 117210240 sectors (60011 MB) w/2048KiB Cache, CHS=65535/16/63, UDMA(100)
+hda: cache flushes supported
   hda: hda1 hda2 hda3
PCI: Enabling device 0000:02:01.0 (0000 -> 0002)
+ACPI: PCI interrupt 0000:02:01.0[A] -> GSI 11 (level, low) -> IRQ 11
Yenta: CardBus bridge found at 0000:02:01.0 [1028:014e]
-Yenta: ISA IRQ mask 0x04f8, PCI irq 11
+Yenta: ISA IRQ mask 0x0478, PCI irq 11
Socket status: 30000006
+ACPI: PCI interrupt 0000:02:01.1[A] -> GSI 11 (level, low) -> IRQ 11
Yenta: CardBus bridge found at 0000:02:01.1 [1028:014e]
-Yenta: ISA IRQ mask 0x04f8, PCI irq 11
+Yenta: ISA IRQ mask 0x0478, PCI irq 11
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Socket status: 30000047
+ACPI: PCI interrupt 0000:02:03.0[A] -> GSI 7 (level, low) -> IRQ 7
Yenta: CardBus bridge found at 0000:02:03.0 [12a3:ab01]
Yenta: Enabling burst memory read transactions
Yenta: Using CSCINT to route CSC interrupts to PCI
Yenta: Routing CardBus interrupts to PCI
-Yenta: ISA IRQ mask 0x0000, PCI irq 11
+Yenta TI: socket 0000:02:03.0, mfunc 0x01000002, devctl 0x60
+Yenta: request_irq() in yenta_probe_cb_irq() failed!
+Yenta TI: socket 0000:02:03.0 no PCI interrupts. Fish. Please report.
+Yenta: ISA IRQ mask 0x0000, PCI irq 0
Socket status: 30000010
Databook TCIC-2 PCMCIA probe: not found.
-mice: PS/2 mouse device common for all mice
serio: i8042 AUX port at 0x60,0x64 irq 12
serio: i8042 KBD port at 0x60,0x64 irq 1
+mice: PS/2 mouse device common for all mice
input: AT Translated Set 2 keyboard on isa0060/serio0
EISA: Probing bus 0 at eisa0
-Advanced Linux Sound Architecture Driver Version 1.0.2c (Thu Feb 05 15:41:49 2004 UTC).
+Advanced Linux Sound Architecture Driver Version 1.0.5 (Sun May 30 10:49:40 2004 UTC).
ALSA device list:
No soundcards found.
NET: Registered protocol family 2
IP: routing cache hash table of 8192 buckets, 64Kbytes
TCP: Hash tables configured (established 262144 bind 65536)
NET: Registered protocol family 1
NET: Registered protocol family 17

```
=====
/proc/interrupts
  CPU0
  0: 23343 XT-PIC timer
  1: 1048 XT-PIC i8042
  2: 0 XT-PIC cascade
  3: 889 XT-PIC serial
  7: 0 XT-PIC parport0
  8: 4 XT-PIC rtc
  9: 1 XT-PIC acpi
 11: 3092 XT-PIC yenta, yenta, uhci_hcd, uhci_hcd, uhci_hcd, ehci_hcd, ohci1394, eth0
 12: 46 XT-PIC i8042
 14: 6341 XT-PIC ide0
NMI: 0
LOC: 0
ERR: 0
MIS: 0
```

```
=====
lspci
0000:00:00.0 Host bridge: Intel Corp. 82855PM Processor to I/O Controller (rev 03)
0000:00:01.0 PCI bridge: Intel Corp. 82855PM Processor to AGP Controller (rev 03)
```

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0000:00:1d.0 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4–L/ICH4–M) USB UHCI Controller #1 (rev 01)
0000:00:1d.1 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4–L/ICH4–M) USB UHCI Controller #2 (rev 01)
0000:00:1d.2 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4–L/ICH4–M) USB UHCI Controller #3 (rev 01)
0000:00:1d.7 USB Controller: Intel Corp. 82801DB/DBM (ICH4/ICH4–M) USB 2.0 EHCI Controller (rev 01)
0000:00:1e.0 PCI bridge: Intel Corp. 82801 PCI Bridge (rev 81)
0000:00:1f.0 ISA bridge: Intel Corp. 82801DBM LPC Interface Controller (rev 01)
0000:00:1f.1 IDE interface: Intel Corp. 82801DBM (ICH4) Ultra ATA Storage Controller (rev 01)
0000:00:1f.5 Multimedia audio controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4–L/ICH4–M) AC'97 Audio Controller (rev 01)
0000:00:1f.6 Modem: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4–L/ICH4–M) AC'97 Modem Controller (rev 01)
0000:01:00.0 VGA compatible controller: nVidia Corporation NV28 [GeForce4 Ti 4200 Go AGP 8x] (rev a1)
0000:02:00.0 Ethernet controller: Broadcom Corporation NetXtreme BCM5705M Gigabit Ethernet (rev 01)
0000:02:01.0 CardBus bridge: Texas Instruments: Unknown device ac47 (rev 01)
0000:02:01.1 CardBus bridge: Texas Instruments: Unknown device ac4a (rev 01)
0000:02:01.2 FireWire (IEEE 1394): Texas Instruments: Unknown device 802b
0000:02:01.3 System peripheral: Texas Instruments: Unknown device 8204
0000:02:03.0 CardBus bridge: Texas Instruments PCI1410 PC card Cardbus Controller (rev 01)

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