

IRQ problems with 915gm chipset

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-06/0522.html>

From: Tilo Lutz (*TiloLutz_at_gmx.de*)

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To: linux-kernel@vger.kernel.org

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Hi

I have some problems getting linux work on my Acer Travelmat 3002 notebook. I run Suse Linux 9.3 with linux 2.6.11.4

Floppy is not present therefore irq6 is free.
com1 and lpt1 are disabled -> irq4 and 7 are free for pci

I get best results with

1. pci=noacpi
2. acpi_irq_balance acpi_irq_pci=5,4,7,10

Disabling acpi completely makes it worse both times.

With apic bootup locks and the screen is blank as soon as the kernel is loaded.

I also tried the current kernel 2.6.12rc5 with no result.

Not working devices with result1:

0000:00:1b.0 Class 0403: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) High Definition Audio Controller (rev 04)

This device should be connected with [LNKE].

Bios did not assign an irq for this link. The driver fails to load because

no irq is provided.

pci=biosirq don't help.

Not working devices with result2:

0000:06:07.0 CardBus bridge: Texas Instruments: Unknown device 8031

0000:06:07.2 FireWire (IEEE 1394): Texas Instruments: Unknown device 8032

0000:00:1d.1 USB Controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB UHCI #2 (rev 04)

All not working devices are connected with irq11.

PCI Interrupt Link [LNKF] and [LNKG] were not used during bootup.

Is that OK?

How can I get everything work?

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I think result1 is the better way to start because more devices are working.

Does anyone have an idea how I can get everything work.

Sound would be nice but I also need ieee1394 for my cdrom.

Regards, Tilo Lutz

```
Notebook:/home/tilo # cat /proc/interrupts #result1
CPU0
0: 152849 XT-PIC timer
1: 171 XT-PIC i8042
2: 0 XT-PIC cascade
8: 2 XT-PIC rtc
9: 605 XT-PIC acpi
10: 1182 XT-PIC uhci_hcd, ipw2200, eth0
11: 3 XT-PIC ohci1394, uhci_hcd, uhci_hcd, uhci_hcd,
ehci_hcd, yenta
12: 11793 XT-PIC i8042
14: 12606 XT-PIC ide0
NMI: 0
LOC: 0
ERR: 0
MIS: 0
```

```
Notebook:/home/tilo # cat /proc/interrupts #result2:
CPU0
0: 2415737 XT-PIC timer
1: 6083 XT-PIC i8042
2: 0 XT-PIC cascade
5: 0 XT-PIC uhci_hcd, ehci_hcd
7: 100000 XT-PIC uhci_hcd
8: 2 XT-PI
```