

Re: [PATCH] ipwireless: driver for 3G PC Card

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-02/msg00632.html>

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 - *Date:* Sat, 2 Feb 2008 00:43:15 +0100
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Hi!

```
+static irqreturn_t ipwireless_handle_v1_interrupt(int irq,
+ struct ipw_hardware *hw)
+{
+ unsigned short irqn;
+ unsigned short ack;
+
+ irqn = inw(hw->base_port + IOIR);
+
+ /* Check if card is present */
+ if (irqn == (unsigned short) 0xFFFF) {
+ if (++hw->bad_interrupt_count >= 100) {
+ /*
+ * It is necessary to disable the interrupt at this
+ * point, or the kernel hangs, interrupting repeatedly
+ * forever.
+ */
+ hw->irq = irq;
+ hw->removed = 1;
+ disable_irq_nosync(irq);
+ printk(KERN_DEBUG IPWIRELESS_PCCARD_NAME
+ ": Mr. Fluffy is not happy!\n");
+ }
+ return IRQ_HANDLED;
+ }
```

Not sure how this is supposed to work. If you assume unshared interrupts, it should be possible to return something and make core care.

If you are assuming shared interrupts, either you should disable on first 0xFFFF (are you sure cast is needed, btw?), or not at all, because it could be the other device sending you 100 of those...

...so which one is it?

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Shared. It'll check if device has interrupt pending, else exit.

can you remove bad_interrupt_count? It seems very random in presence of shared interrupt.

```
+static int config_ipwireless(struct ipw_dev *ipw)
+{
+ struct pcmcia_device *link = ipw->link;
+ int ret;
+ config_info_t conf;
+ tuple_t tuple;
+ unsigned short buf[64];
+ cisparse_t parse;
+ unsigned short cor_value;
+ win_req_t reqAM;
+ win_req_t reqCM;
```

Hiding structs BehindTypedefsIsEvil.

Unfortunately PCMCIA subsystem is full of these and all drivers use them. I'll stay consistent for now.

Sorry if they were not yours.

Updated patch v4 will follow.

Thanks!
Pavel

(english) <http://www.livejournal.com/~pavelmachek>
(cesky, pictures) <http://atrey.karlin.mff.cuni.cz/~pavel/picture/horses/blog.html>

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