

ide_cs cannot unload

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-02/2323.html>

From: Patrice Lazareff (patrice_at_lazareff.com)

Date: 02/10/04

To: lkml <linux-kernel@vger.kernel.org>

Date: Tue, 10 Feb 2004 13:05:25 +0100

Hello,

I first posted this message on the sourceforge bug-tracking system of the pcmcia-cs project.

I was advised to repost it in the linux-pcmcia list, which I did to be advised to repost it here. I had a look in the list archive, which is not an easy thing to do, and could not find something both related and recent.

So here come the rant:

Right after inserting the pcmcia card for the atapi cd-rom drive (PGCA-CD51), the module loses interrupt.

Ejecting the card (manually since cardctl says device busy) seems to be ok, but also prevents unmounting ide1, where the root partition is, on shutdown/reboot. (the cdrom, when available, is on ide2).

Re-inserting the card totally freezes the machine.

Laptop Sony Vaio Z600
Kernel 2.6.2
modules-utils 3.0pre9
all compiled with gcc-3.3.2

From dmesg:

```
== during bootup ==  
Linux Kernel Card Services  
options: [pci] [cardbus] [pm]  
PCI: Found IRQ 9 for device 0000:00:0c.0  
PCI: Sharing IRQ 9 with 0000:00:0a.0  
Yenta: CardBus bridge found at 0000:00:0c.0 [104d:8082]  
Yenta: ISA IRQ mask 0x04b8, PCI irq 9
```

Linux-Kernel: ide_cs cannot unload

```
Socket status: 30000006
cs: IO port probe 0x0c00-0x0cff: clean.
cs: IO port probe 0x0800-0x08ff: clean.
cs: IO port probe 0x0100-0x04ff: excluding 0x170-0x177
0x370-0x37f 0x398-0x39f 0x3c0-0x3df 0x4d0-0x4d7
cs: IO port probe 0x0a00-0x0aff: clean.

== on inserting card ==
hde: TOSHIBA CD-ROM XM-7002Bc, ATAPI CD/DVD-ROM drive
hdf: no response (status = 0xa1), resetting drive
hdf: no response (status = 0xa1)
ide2 at 0x180-0x187,0x386 on irq 3
Module ide_cs cannot be unloaded due to unsafe usage in
include/linux/module.h:489
ide-cs: hde: Vcc = 5.0, Vpp = 0.0
hde: lost interrupt
hde: lost interrupt
...

== on force eject ==
remove_proc_entry: hde/identify busy, count=1
remove_proc_entry: ide2/hde busy, count=1
Unable to handle kernel NULL pointer dereference at
virtual address 00000008
printing eip:
c018681f
*pde = 00000000
Oops: 0000 [#1]
CPU: 0
EIP: 0060:[<c018681f>] Not tainted
EFLAGS: 00010286
EIP is at sysfs_hash_and_remove+0xf/0x7d
eax: 00000000 ebx: c047c25c ecx: c0405320 edx:
00000000
esi: 00000000 edi: 00000001 ebp: d68d2000 esp:
d68d3878
ds: 007b es: 007b ss: 0068
Process pccardd (pid: 663, threadinfo=d68d2000
task=d7448740)
Stack: c0473d70 c7c70f20 c047c25c c0405478 c02315b8
00000000 c047c288 c047c25c
c047c608 c0231735 c047c25c c047c2b8 c047c25c
c047c608 c02305cd c047c25c
c047c25c d4b194e0 c0230623 c047c25c c047c16c
c02538e7 c047c25c d4b194e0
Call Trace:
[<c02315b8>] device_release_driver+0x28/0x70
[&
```