

Re: hard lock using combination of devices

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-02/4059.html>

From: Carl Thompson (*cet_at_carlthompson.net*)

Date: 02/17/04

Date: Tue, 17 Feb 2004 06:14:00 -0800
To: vda <vda@port.imtp.ilyichevsk.odessa.ua>

Quoting vda <vda@port.imtp.ilyichevsk.odessa.ua>:

> *On Tuesday 17 February 2004 09:14, Carl Thompson wrote:*
>> *Quoting vda <vda@port.imtp.ilyichevsk.odessa.ua>:*
>>> ...
>>>
>>> *Your box share IRQs in a big way :)*
>>
>> *Your point?*
>
> *While shared interrupts can in theory work right,*
> *lots of hardware and/or drivers do not handle*
> *that.*

First, the two devices in question are not on the same interrupt. Second, it is very difficult in this day in age to build a system without interrupt sharing. While I agree that it's better to have as few devices sharing as possible, there are simply too many devices in modern systems and too few interrupts. Interrupt sharing needs to work on modern hardware and needs to work in Linux. This notebook is pretty typical in its interrupt distribution and I'm not certain that this is a problem. In fact, while many devices on this system use IRQ 11 the only one active at the time was the audio controller. And while IRQ 10 is shared between the CardBus adapters and the video card the problems still occur if I don't run X and video interrupts shouldn't be generated in console mode, right?

> *I think you should try to reconfigure your*
> *system so that devices do not share same IRQ*
> *and see whether that 'fix' the problem.*

There are no options in my notebook's BIOS to reconfigure interrupts or disable devices.

> *BTW, can you show your /proc/interrupts ?*

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Attached.

> --

> *vda*

Carl Thompson

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- text/plain attachment: [interrupts](#)