

Re: Linux 2.6.21-rc6

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-04/msg05303.html>

- *From:* "Rafael J. Wysocki" <rjw@xxxxxxx>
 - *Date:* Sun, 15 Apr 2007 17:52:59 +0200
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On Sunday, 15 April 2007 16:19, Dmitry Torokhov wrote:

On Sunday 15 April 2007 07:16, Rafael J. Wysocki wrote:

On Sunday, 15 April 2007 10:02, Tobias Diedrich wrote:

With CONFIG_PM_DEBUG=y and
CONFIG_DISABLE_CONSOLE_SUSPEND=y
I see
that the second suspend hangs at "i8042
i8042: EARLY resume".
This is kinda interesting because I'm
normally using a USB keyboard
and sure enough, if I hook up a normal
keyboard and disable USB
legacy support in the BIOS, then suspend to
disk works multiple
times. I'd still rather like to use my USB
keyboard though. ;)

Well, I think that when you're using the USB keyboard and the USB legacy support, the i8042 driver thinks it has a keyboard to handle and tries to handle it during the suspend, which fails. I don't know why it fails during the second suspend, though.

Dmitry, could you please have a look?

This is wierd as i8042 does not use suspend_late/resume_early hooks and so it is impossible for it to hang there. None of input drivers use these hooks. Could it be that some other driver _after_ i8042 hangs?

Yes.

Tobias, can you please post the dmesg output from after a successful

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suspend/resume cycle with CONFIG_PM_DEBUG=y in the 'platform' mode?

And I can now confirm that unpatched 2.6.21-rc6 works fine as long as USB legacy support is disabled (however without legacy support I can't use the USB keyboard to control grub).

I think using the 'shutdown' mode of suspend would be better. There's a little point in using 'platform' on desktop systems anyway.

Frankly, I don't know what to do about it. If we move platform_finish() after device_resume(), some systems may be broken and I think there are more such systems than there are systems that set USB legacy support in the BIOS and have no PS/2 keyboards attached.

I would say t