

Re: 2.6.25-rc2 System no longer powers off after suspend-to-disk. Screen becomes green.

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-02/msg10811.html>

- *From:* "Rafael J. Wysocki" <rjw@xxxxxxx>
 - *Date:* Thu, 21 Feb 2008 01:59:10 +0100
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On Thursday, 21 of February 2008, Linus Torvalds wrote:

On Thu, 21 Feb 2008, Rafael J. Wysocki wrote:

Secondly, the one that people should use ("pci_choose_state()") doesn't actually do what you claim it does. It does all kinds of wrong things, and doesn't even take the target state into account at all. So look again.

Well, if platform_pci_choose_state() is defined, pci_choose_state() returns its result and on ACPI systems that points to acpi_pci_choose_state(), so in fact it does what I said (apart from the error path).

Did you check closer?

Yes, I did.

I repeat: acpi_pci_choose_state() (when called from pci_choose_state()) doesn't even look at the target 'state'. It just blindly assumes that you want the deepest sleep-state you can have.

acpi_pm_device_sleep_state() (that is called by acpi_pci_choose_state()) takes the target state directly from the ACPI layer.

We just want to get rid of the argument passed to ->suspend() eventually, but there may be many _suspend_ states available (eg. "mem" and "standby") and for each of them there may be different constraints on the device's state. We have to tell the driver which device states are possible in the target system

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sleep state. Right now we arbitrarily choose the one with the lowest power usage – for given target system sleep state.

Which happens to be correct for normal suspend, but means that if you want to test other states (through '/sys/devices/.../power'), that sounds broken.

This interface is not available any more (ie. there's only "wakeup" in /sys/devices/.../power).

I didn't check any closer, but go check it yourself. The short and sweet: