

Re: 2.6.21 -- Lid button won't initiate suspend. Also, suspend didn't enter low-power state until I touched my mousepad

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Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-05/msg03780.html>

- *From:* "Rafael J. Wysocki" <rjw@xxxxxxx>
 - *Date:* Tue, 8 May 2007 21:19:02 +0200
-

On Tuesday, 8 May 2007 18:31, Miles Lane wrote:

On 5/8/07, Rafael J. Wysocki <rjw@xxxxxxx> wrote:

Hi,

On Tuesday, 8 May 2007 08:34, Miles Lane wrote:

Firstly, all my attempts to get suspend to start by pressing my laptop's lid button are failing.

Here's the log info from about eight attempts::

linux-acpi added to the CC list.

```
[ 66.080135] ACPI: AC Adapter [ACAD] (on-line)
[ 66.201949] ACPI: Battery Slot [BAT0] (battery present)
[ 66.237885] input: Power Button (FF) as /class/input/input2
[ 66.252274] ACPI: Power Button (FF) [PWRB]
[ 66.267691] input: Lid Switch as /class/input/input3
[ 66.280884] ACPI: Lid Switch [LID0]
[ 66.296423] input: Sleep Button (CM) as /class/input/input4
[ 66.309328] ACPI: Sleep Button (CM) [SLPB]
[ 66.324930] No dock devices found.
[ 66.369537] ACPI: CPU0 (power states: C1[C1] C2[C2]
C3[C3])
[ 66.386972] ACPI: Video Device [GFX0] (multi-head: yes
rom: yes post: no)
[ 50.683328] Time: acpi_pm clocksource has been installed.
[ 53.729994] [ACPI Debug] String: [0x1C] "Temperature
increasing: _Q80"
[ 54.203327] eth0: link down
[ 55.933327] PM: Adding info for No Bus:vc57
[ 55.933327] PM: Adding info for No Bus:vc57
```

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[ 56.396661] ppdev: user-space parallel port driver
[ 56.449994] PM: Removing info for No Bus:vcs7
[ 56.449994] PM: Removing info for No Bus:vcsa7
[ 56.649994] PM: Adding info for No Bus:vcs7
[ 56.649994] PM: Adding info for No Bus:vcsa7
[ 57.483327] [drm] Initialized drm 1.1.0 20060810
[ 57.533327] ACPI: PCI Interrupt 0000:00:02.0[A] -> GSI
16 (level,
low) -> IRQ 18
[ 57.539994] [drm] Initialized i915 1.6.0 20060119 on minor
0
[ 57.543327] [drm] Initialized i915 1.6.0 20060119 on minor
1
[ 60.216660] apm: BIOS version 1.2 Flags 0x03 (Driver
version 1.16ac)
[ 60.219993] PM: Adding info for No Bus:apm_bios
[ 61.366660] Installing knfsd (copyright (C) 1996
okir@xxxxxxxxxxxxx).
[ 61.629993] NFSD: Using /var/lib/nfs/v4recovery as the
NFSv4 state
recovery directory
[ 61.689993] NFSD: starting 90-second grace period
[ 62.766660] usb usb4: usb auto-resume
[ 62.766660] usb usb4: finish resume
[ 62.766660] hub 4-0:1.0: hub_resume
[ 62.769993] usb usb4: wakeup_rh
[ 62.806660] hub 4-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 62.806660] usb usb3: usb auto-resume
[ 62.806660] usb usb3: finish resume
[ 62.806660] hub 3-0:1.0: hub_resume
[ 62.806660] usb usb3: wakeup_rh
[ 62.843327] hub 3-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 62.843327] usb usb1: usb auto-resume
[ 62.843327] usb usb1: finish resume
[ 62.843327] hub 1-0:1.0: hub_resume
[ 62.843327] usb usb1: wakeup_rh
[ 62.879993] hub 1-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 62.879993] usb usb2: usb auto-resume
[ 62.879993] usb usb2: finish resume
[ 62.879993] hub 2-0:1.0: hub_resume
[ 62.879993] ehci_hcd 0000:00:1d.7: resume root hub
[ 62.913327] hub 2-0:1.0: state 7 ports 6 chg 0000 evt 0000
[ 63.269993] Clocksource tsc unstable (delta = -166083281
ns)
[ 63.796660] usb usb4: suspend_rh (auto-stop)
[ 63.833326] usb usb3: suspend_rh (auto-stop)
[ 63.869993] usb usb1: suspend_rh (auto-stop)
[ 64.806660] hub 4-0:1.0: hub_suspend
[ 64.806660] usb usb4: suspend_rh
[ 64.806660] usb usb4: usb auto-suspend
[ 64.843326] hub 3-0:1.0: hub_suspend
```

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```
[ 64.843326] usb usb3: suspend_rh
[ 64.843326] usb usb3: usb auto-suspend
[ 64.879993] hub 1-0:1.0: hub_suspend
[ 64.879993] usb usb1: suspend_rh
[ 64.879993] usb usb1: usb auto-suspend
[ 64.913326] hub 2-0:1.0: hub_suspend
[ 64.913326] ehci_hcd 0000:00:1d.7: suspend root hub
[ 64.913326] usb usb2: usb auto-suspend
[ 68.549993] usb usb4: usb auto-resume
[ 68.549993] usb usb4: finish resume
[ 68.553326] hub 4-0:1.0: hub_resume
[ 68.553326] usb usb4: wakeup_rh
[ 68.593326] hub 4-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 68.593326] usb usb3: usb auto-resume
[ 68.596659] usb usb3: finish resume
[ 68.599993] hub 3-0:1.0: hub_resume
[ 68.599993] usb usb3: wakeup_rh
[ 68.626659] Bluetooth: Core ver 2.11
[ 68.626659] PM: Adding info for platform:bluetooth
[ 68.629993] NET: Registered protocol family 31
[ 68.629993] Bluetooth: HCI device and connection manager
initialized
[ 68.629993] Bluetooth: HCI socket layer initialized
[ 68.683326] hub 3-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 68.686659] usb usb1: usb auto-resume
[ 68.686659] usb usb1: finish resume
[ 68.686659] hub 1-0:1.0: hub_resume
[ 68.686659] usb usb1: wakeup_rh
[ 68.723326] hub 1-0:1.0: state 7 ports 2 chg 0000 evt 0000
[ 68.723326] usb usb2: usb auto-resume
[ 68.723326] usb usb2: finish resume
[ 68.723326] hub 2-0:1.0: hub_resume
[ 68.723326] ehci_hcd 0000:00:1d.7: resume root hub
[ 68.746659] Bluetooth: L2CAP ver 2.8
[ 68.746659] Bluetooth: L2CAP socket layer initialized
[ 68.763326] hub 2-0:1.0: state 7 ports 6 chg 0000 evt 0000
[ 68.826659] Bluetooth: RFCOMM socket layer initialized
[ 68.826659] Bluetooth: RFCOMM TTY layer initialized
[ 68.826659] Bluetooth: RFCOMM ver 1.8
[ 69.583326] usb usb4: suspend_rh (auto-stop)
[ 69.673326] usb usb3: suspend_rh (auto-stop)
[ 69.713326] usb usb1: suspend_rh (auto-stop)
[ 70.593326] hub 4-0:1.0: hub_suspend
[ 70.593326] usb usb4: suspend_rh
[ 70.593326] usb usb4: usb auto-suspend
[ 70.686659] hub 3-0:1.0: hub_suspend
[ 70.686659] usb usb3: suspend_rh
[ 70.686659] usb usb3: usb auto-suspend
[ 70.689992] [ACPI Debug] String: [0x1C] "Temperature
increasing: _Q80"
[ 73.759992] hub 1-0:1.0: hub_suspend
```

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```
[ 73.759992] usb usb1: suspend_rh
[ 73.759992] usb usb1: usb auto-suspend
[ 73.759992] hub 2-0:1.0: hub_suspend
[ 73.759992] ehci_hcd 0000:00:1d.7: suspend root hub
[ 73.759992] usb usb2: usb auto-suspend
[ 89.083324] [ACPI Debug] String: [0x1C] "Temperature
increasing: _Q80"
[ 91.086657] [ACPI Debug] String: [0x1C] "Temperature
increasing: _Q80"
[ 93.116657] NET: Registered protocol family 10
```

Then I tried initiating a suspend from the Gnome System menu. The suspend proceeded until the screen went black, but the disk stayed spun up and the LEDs on the keyboards stayed lit up. When I touched the synaptics mousepad, the system entered the low power state.

Did it wake up? Your log ends at the "early resume" stage.

Yes. I just cut out the part I thought might be helpful. If you want another test with a full dmesg, I will be happy to send that along.

On subsequent attempts to enter the suspend state, I didn't need to touch the mouse to get it to work.

Here is the log information from the flawed suspend process. I don't see anything indicating the mousepad activity:

It probably only generated an interrupt that allowed the system to complete the suspend.

Do you have CONFIG_NO_HZ set?

Yes. I could rebuild with that unset and see what happens.

Please do that.

Greetings,
Rafael

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PS

Please keep the CC list when you reply, thanks.

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