Sometimes Gnome suspend immediately resumes, ubuntu 18.04 on pure intel laptop

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I have Ubuntu 18.04 on a pure-intel Thinkpad T480. It is usually connected to a couple of external monitors. If I choose suspend from the power icon (holding down alt), the laptop initiates the suspend process,and the two external monitors go into suspend mode. The LED on the laptop starts the blinking cycle to indicate suspend. But a second later, the laptop LED goes back to ON. The display don't start again, but as soon as move the wireless mouse, the external displays turn on. So it does not enter suspend.

Update:

- it only does this sometimes, hopefully there is some logging somewhere
- I have since learnt that gnome uses the systemd suspend/resume features, documented here: https://www.freedesktop.org/software/systemd/man/systemd-suspend.service.html

Most of the time it works. I think I will have to watch this and try to find some logging when it doesn't work

Update: journalctl | grep suspend:

```
 pci_pm_suspend(): hcd_pci_suspend+0x0/0x30 returns -16
Jun 17 16:57:46 moncrief kernel: dpm_run_callback(): pci_pm_suspend+0x0/0x150 returns -16
Jun 17 16:57:46 moncrief kernel: PM: Device 0000:00:14.0 failed to suspend async: error -16
Jun 17 16:57:46 moncrief kernel: PM: Some devices failed to suspend, or early wake event detected
```

courtesy of lspci, the device is

```
00:14.0 USB controller: Intel Corporation Sunrise Point-LP USB 3.0 xHCI Controller (rev 21)
```

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Based on this similar problem with a Dell Inspiron

https://gist.github.com/ioggstream/8f380d398aef989ac455b93b92d42048

I installed in

/lib/systemd/system-sleep

the script here:
https://gist.github.com/timrs2998/77b3c2c2567cbd38f38cde64f1155956#file-system-sleep-xhci-sh

authored by: Roberto Polli (ioggstream)

After creating the file, don't forget

sudo chmod u+x

...

```
#!/bin/sh
#
# This script should prevent the following suspend errors
#  which block suspend on Dell Inspiron laptop & Thinkpad T480.
#
# Put it in /usr/lib/systemd/system-sleep/xhci.sh
#
# The PCI 00:14.0 device is the usb xhci controller.
#
#   kernel: [67445.560610] pci_pm_suspend(): hcd_pci_suspend+0x0/0x30 returns -16
#   kernel: [67445.560619] dpm_run_callback(): pci_pm_suspend+0x0/0x150 returns -16
#   kernel: [67445.560624] PM: Device 0000:00:14.0 failed to suspend async: error -16
#   kernel: [67445.886961] PM: Some devices failed to suspend, or early wake event detected

if [ "${1}" == "pre" ]; then
  # Do the thing you want before suspend here, e.g.:
  echo "Disable broken xhci module before suspending at $(date)..." > /tmp/systemd_suspend_test
  grep XHC.*enable /proc/acpi/wakeup && echo XHC > /proc/acpi/wakeup
elif [ "${1}" == "post" ]; then
  # Do the thing you want after resume here, e.g.:
  echo "Enable broken xhci module at wakeup from $(date)" >> /tmp/systemd_suspend_test
  grep XHC.*disable /proc/acpi/wakeup && echo XHC > /proc/acpi/wakeup
fi
```

answered Jun 19 '18 at 0:57

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