

Re: Error: kernel cannot suspend to ram.

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Source: <http://linux.derkeiler.com/Mailing-Lists/Fedora/2007-10/msg00099.html>

- *From:* "Doncho N. Gunchev" <gunchev@xxxxxxxxxx>
 - *Date:* Mon, 1 Oct 2007 20:58:41 +0300
-

On Sunday 2007-09-30 22:20:48 Paul Smith wrote:

On 9/30/07, Doncho N. Gunchev <gunchev@xxxxxxxxxx> wrote:

When running on the console the command
'pm-suspend', I get the following:

```
$ pm-suspend
Error: kernel cannot suspend to ram.
$
```

I just looked at pm-suspend's source. This error message means that in /sys/power/state there's no mem present (try 'cat /sys/power/state' to see what is supported).

..

The kernel thinks this machine can not suspend to ram.

...

```
$ uname -r
2.6.22.9-91.fc7
```

...

The lspci output:

```
00:00.0 Host bridge: Intel Corporation 82945G/GZ/P/PL Memory Controller Hub (rev 02)
00:01.0 PCI bridge: Intel Corporation 82945G/GZ/P/PL PCI Express Root Port (rev 02)
00:1b.0 Audio device: Intel Corporation 82801G (ICH7 Family) High Definition Audio
Controller (rev 01)
00:1c.0 PCI bridge: Intel Corporation 82801G (ICH7 Family) PCI Express Port 1 (rev 01)
```

...

```
01:00.0 VGA compatible controller: nVidia Corporation GeForce 6500 (rev a1)
```

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This one can cause problems at resume, but not at suspend time :-)

...

The output of 'cat /proc/cpuinfo' is:

```
processor : 0
vendor_id : GenuineIntel
cpu family : 15
model : 4
model name : Intel(R) Pentium(R) D CPU 2.80GHz
stepping : 7
cpu MHz : 2813.806
```

...

```
processor : 1
```

...

Paul

Is this a desktop (Pentium M was for mobile AFAIK), isn't it?

Has this machine ever been able to suspend to RAM?

If so, have you changed something in your BIOS?

Please check what these two say:

```
grep -i 'power states' /var/log/messages
```

```
grep -i 'suspend' /var/log/messages
```

I've seen something like / long ago :-) /:

'Software Suspend has malfunctioning SMP support. Disabled :('

but have no idea what the current status is...

Regards,

Doncho N. Gunchev, GPG key ID: 0EF40B9E, Key server: pgp.mit.edu

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