

# Re: Hibernation considerations

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- *From:* "Rafael J. Wysocki" <[rjw@xxxxxxx](mailto:rjw@xxxxxxx)>
  - *Date:* Tue, 17 Jul 2007 23:54:17 +0200
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On Tuesday, 17 July 2007 23:27, [david@xxxxxxx](mailto:david@xxxxxxx) wrote:

On Tue, 17 Jul 2007, Jeremy Maitin-Shepard wrote:

[david@xxxxxxx](mailto:david@xxxxxxx) writes:

[snip]

How do you guarantee that no tasks are scheduled when you get back to the hibernated kernel?

just don't schedule any userspace tasks. all you need to do is to execute the ACPI sleep functions. you normally do that after stopping userspace anyway.

What does "stopping userspace" mean? You already said it does not mean disabling interrupts. But using the freezer is also not an option, since the avoidance of that is the main reason for the kexec approach in the first place.

just don't schedule any non-kernel threads.

remember that the normal shutdown/suspend procedure is (from another related thread)

```
sys_reboot(LINUX_REBOOT_CMD_KEXEC)
kernel_kexec
kernel_restart_prepare
device_shutdown
```

Re: Hibernation considerations

machine\_shutdown  
machine\_kexec

I'm just saying that instead of going back to the normal operation of the kernel you just go directly to the new shutdown routine instead.

[snip]

Well, not exactly. If your battery runs out of power while you're suspended, but you have the image saved, it's still better to restore from the image,

even

if something may not work correctly after the restore, than to risk a loss of data