

Suspend/sleep/hibernate on Dell i8200 with FC2

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To: For users of Fedora Core releases <fedora-list@redhat.com>

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Hardware: Dell Inspiron 8200, NVidia GeForce 440GO (with 64MB VRAM), 1GB RAM, BIOS A10 (an update to A11 is available but I haven't installed it yet).

Any pointers on getting suspend and resume (both to/from RAM and disk) working with the above hardware and FC2?

I've had this laptop for nearly two years now, and it's proved an excellent Linux machine -- everything except the winmodem worked out of the box. But when I first installed Linux on it two years ago I looked into power management, read about ACPI not being supported yet, and read about all the hoops you had to jump through to get APM suspend to work (patching NVidia drivers, creating a special s2d partition) and thought to myself "forget it, I'll just wait until the 2.6 kernel comes out".

Well, as of this weekend I am now finally running a 2.6 kernel courtesy of FC2. The trouble is that because I'd decided to not bother with suspend until I was running 2.6 it turns out that I've not been paying attention and now haven't got a clue where to start.

First, I have to admit that I don't really understand the difference between APM and ACPI. It seems that both are started as services, although whilst apmd returns OK at boot it seems somewhat silent on its status:

```
# service acpid status
acpid (pid 2248) is running...
# service apmd status
#
```

Do I actually want both running at the same time?

I had read that 2.6 supports suspending to disk, and that it uses swap space for that and so I ensured that my swap partition is greater than the size of my RAM + VRAM.

What I guess I'd like ideally would be for both suspend to ram and

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suspend to disk to work, for closing and opening the lid of the laptop to trigger suspending to ram and resuming from ram, and for suspend to disk to happen automatically when battery level become critically low. Are these things possible yet, or is ACPI still too flaky? I also seem to remember people saying that some services don't resume properly afterwards, such as networking. Is that still the case?

Also, does FC2 automatically go into "laptop" mode when I pull out the power cord, or do I have to do something manually? (I can't find now where I read about this, but I believe "laptop" mode is something new in the 2.6 kernel which preserves battery life by slowing the CPU speed and reducing disk activity.)

Any pointers welcome ...

TIA.

Best, Darren

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    Trying is the first step towards failure (Homer Simpson)
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