

Re: [linux-pm] sleepy linux self-test

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-02/msg01313.html>

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 - *Date:* Sun, 03 Feb 2008 15:08:26 -0800
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The changes look good to me.

They feel unfinished to me though. :)

Like using "jiffies" instead of a clocksource, which makes trouble since the timing covers periods with IRQs disabled. And the test mode parameter needs work.

Well, I'd say that timing has bigger problem, right?

It is

```
set alarm
suspend system
| poweroff
alarm expires
system resumes
```

... so you are measuring resume time + sleep time, no?

There's no "poweroff" step when entering STR or STANDBY!

But more specifically, I avoided that issue by comparing times between

- (a) start and end of the "suspend devices" steps;
- (b) start and end of the "resume devices" steps.

Example output, with the relevant lines highlighted by "*":

```
PM: test RTC wakeup from 'mem' suspend
PM: Syncing filesystems ... done.
PM: Preparing system for mem sleep
Freezing user space processes ... (elapsed 0.00 seconds) done.
Freezing remaining freezable tasks ... (elapsed 0.00 seconds) done.
PM: Entering mem sleep
Suspending console(s)
* PM: suspend devices took 0.000 seconds
```

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GPIO-A may wake for 00080000
GPIO-C may wake for 00000008
GPIO-D may wake for 00000020
AT91: PM - wake mask 00000036, pm state 3
AT91: PM - no slow clock mode yet ...
AT91: PM - wakeup 00000002
* PM: resume devices took 0.132 seconds
PM: Finishing wakeup.
Restarting tasks ... done.

The underlying clocksource has resolution of 32 KiHz, while HZ=128;
the "suspend" more typically reports 7 msec. And there should be a
few more wakeup GPIOs, except I seem to not have enabled gpio_keys.
That "wakeup 00000002" means the heavily-overloaded "system" IRQ
woke the system ... the RTC is on that IRQ line.

- Dave

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