

# Re: [patch 2.6.21-rc6-git] workaround rtc-related acpi table bugs

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*Source:* <http://linux.derkeiler.com/Mailing-Lists/Kernel/2007-04/msg06190.html>

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- *From:* Len Brown <lenb@xxxxxxxxxx>
  - *Date:* Tue, 17 Apr 2007 23:10:33 -0400
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On Thursday 12 April 2007 17:14, David Brownell wrote:

This works around a bug seen in some RTC-related ACPI table entries, and tweaks related diagnostics to follow the ACPI convention.

The bug prevents misleading boot-time messages: platforms affected by this bug wrongly report they can support alarms up to one year in the future, when in fact the longest alarm is just 24 hours. That will surprise anyone trying to use those extended alarms.

Signed-off-by: David Brownell <dbrownell@xxxxxxxxxxxxxxxxxxxxxxxx>

---  
glue.c | 10 ++++++---

1 files changed, 8 insertions(+), 2 deletions(-)

--- g26.orig/drivers/acpi/glue.c 2007-04-12 10:56:35.000000000 -0700

+++ g26/drivers/acpi/glue.c 2007-04-12 10:56:35.000000000 -0700

@@ -316,13 +316,19 @@ static int \_\_init acpi\_rtc\_init(void)

rtc\_info.wake\_on = rtc\_wake\_on;

rtc\_info.wake\_off = rtc\_wake\_off;

probably worth a comment right here that this clause is a BIOS workaround.

Unclear what value the DBG statement adds, since only somebody editing this file will ever enable it.

-Len

```
+ if (acpi_gbl_FADT.month_alarm && !acpi_gbl_FADT.day_alarm) {
+   DBG("bogus FADT month_alarm\n");
+   acpi_gbl_FADT.month_alarm = 0;
+ }
+
+ rtc_info.rtc_day_alarm = acpi_gbl_FADT.day_alarm;
+ rtc_info.rtc_mon_alarm = acpi_gbl_FADT.month_alarm;
+ rtc_info.rtc_century = acpi_gbl_FADT.century;
```

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```
/* NOTE: S4_RTC_WAKE is NOT currently useful to Linux */
if (acpi_gbl_FADT.flags & ACPI_FADT_S4_RTC_WAKE)
- printk("ACPI: RTC can wake from S4\n");
+ printk(PREFIX "RTC can wake from S4\n");
+

dev->platform_data = &rtc_info;

@@ -331,7 +337,7 @@ static int __init acpi_rtc_init(void)

put_device(dev);
} else
- pr_debug("ACPI: RTC unavailable?\n");
+ DBG("RTC unavailable?\n");
return 0;
}
/* do this between RTC subsys_initcall() and rtc_cmos driver_initcall() */
-
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