

Problems with 2.6.7-mm1 on HP Omnibook 6100

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-06/4959.html>

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To: linux-kernel@vger.kernel.org

Hi,

after going from 2.6.6-mm5 to 2.6.7-mm1, I see the following problems.

a) System hangs at boot. Local APIC related. This is a known problem on the OB, but could be avoided by specifying "nolapic" in 2.6.6-mm5. With 2.6.7-mm1 I have to specify "acpi=off", or apply the following patch from Len:

```
--- 1.53/arch/i386/kernel/apic.c Tue Mar 2 22:06:19 2004
+++ edited/arch/i386/kernel/apic.c Sat Apr 24 01:14:59 2004
@@ -654,6 +654,7 @@
     }

     if (!cpu_has_apic) {
+printk("LENB: !cpu_has_apic\n");
        /*
         * Some BIOSes disable the local APIC in the
         * APIC_BASE MSR. This can only be done in
@@ -661,6 +662,8 @@
        */
        rdmsr(MSR_IA32_APICBASE, l, h);
        if (!(l & MSR_IA32_APICBASE_ENABLE)) {
+printk("LENB: NOT reenabling LAPIC\n");
+goto no_apic;
            printk("Local APIC disabled by BIOS ---
reenabling.\n");
            l &= ~MSR_IA32_APICBASE_BASE;
            l |= MSR_IA32_APICBASE_ENABLE |
APIC_DEFAULT_PHYS_BASE;
```

Interestingly, "nolapic" still makes a difference when Lens patch is not installed. Without it, the boot process hangs at the same place as in 2.6.6/2.6.6-mm5 – just after these lines in dmesg:

>>>

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ACPI: Subsystem revision 20040326

ACPI: IRQ9 SCI: Edge set to Level Trigger.

ACPI-0179: *** Warning: The ACPI AML in your computer contains errors, please nag the manufacturer to correct it.

ACPI-0182: *** Warning: Allowing relaxed access to fields; turn on CONFIG_ACPI_DEBUG for details.

<<<

With "nolapic" it now hangs after the following output:

>>>

Checking if this processor honours the WP bit even in supervisor mode... Ok.

Calibrating delay loop...

<<<

It never displays the Bogomips.

b) The system does not shut down (or reboot) any more. The last output is:

ISDN-subsystem unloaded

Sometimes CTRL-ALT-DEL helps to bring the system down, sometimes I just have to reset it.

So, it seems that 2.6.7-mm1 is not the most lucky of all releases. I have not tested 2.6.7 vanilla. I would "prefer" not to, as the Omnibook is dog slow compiling kernels :-(

"dmesg" (with lens patch) and ".config" attached.

Cheers

Martin

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Linux–Kernel: Problems with 2.6.7–mm1 on HP Omnibook 6100

- application/octet–stream attachment: [dmesg–2.6.7–mm1](#)
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- application/octet–stream attachment: [.config](#)