

## Re: 2.6.11-rc1-mm2

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-01/6427.html>

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**From:** Con Kolivas ([kernel\\_at\\_kolivas.org](mailto:kernel_at_kolivas.org))

**Date:** 01/21/05

Date: Fri, 21 Jan 2005 19:06:31 +1100

To: Andrew Morton <[akpm@osdl.org](mailto:akpm@osdl.org)>

Andrew Morton wrote:

> <ftp://ftp.kernel.org/pub/linux/kernel/people/akpm/patches/2.6/2.6.11-rc1/2.6.11-rc1-mm2/>

>

> – *There are a bunch of ioctl() and compat\_ioctl() changes in here which seem to be of dubious maturity. Could people involved in this area please*

> *review, test and let me know?*

>

> – *A revamp of the kexec and crashdump patches. Anyone who is interested in this work, please help to get this ball rolling a little faster?*

>

> – *This kernel isn't particularly well-tested, sorry. I've been a bit tied up with other stuff.*

Wont boot.

Stops after BIOS check successful.

Tried reverting a couple of patches mentioning boot or reboot and had no luck. Any ideas?

P4HT3.06 on a P4PE motherboard.

dmesg of working boot:

Linux version 2.6.10-ck5 (con@localhost) (gcc version 3.4.3) #1 SMP Tue

Jan 18 19:45:16 EST 2005

BIOS-provided physical RAM map:

BIOS-e820: 0000000000000000 – 00000000000009fc00 (usable)

BIOS-e820: 00000000000009fc00 – 000000000000a0000 (reserved)

BIOS-e820: 000000000000f0000 – 00000000000100000 (reserved)

BIOS-e820: 00000000000100000 – 0000000003ffec000 (usable)

BIOS-e820: 0000000003ffec000 – 0000000003ffef000 (ACPI data)

BIOS-e820: 0000000003ffef000 – 0000000003ffff000 (reserved)

BIOS-e820: 0000000003ffff000 – 0000000040000000 (ACPI NVS)

BIOS-e820: 00000000fec00000 – 00000000fec01000 (reserved)

BIOS-e820: 00000000fee00000 – 00000000fee01000 (reserved)

BIOS-e820: 00000000ffff0000 – 0000000100000000 (reserved)

1023MB LOWMEM available.

DMI 2.3 present.  
ACPI: LAPIC (acpi\_id[0x00] lapic\_id[0x00] enabled)  
Processor #0 15:2 APIC version 20  
ACPI: LAPIC (acpi\_id[0x01] lapic\_id[0x01] enabled)  
Processor #1 15:2 APIC version 20  
ACPI: LAPIC\_NMI (acpi\_id[0x00] high edge lint[0x1])  
ACPI: LAPIC\_NMI (acpi\_id[0x01] high edge lint[0x1])  
ACPI: IOAPIC (id[0x02] address[0xfec00000] gsi\_base[0])  
IOAPIC[0]: apic\_id 2, version 32, address 0xfec00000, GSI 0-23  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 0 global\_irq 2 dfl edge)  
ACPI: INT\_SRC\_OVR (bus 0 bus\_irq 9 global\_irq 22 low level)  
Enabling APIC mode: Flat. Using 1 I/O APICs  
Using ACPI (MADT) for SMP configuration information  
Built 1 zonelists  
Kernel command line: BOOT\_IMAGE=ck5 ro root=305  
netconsole=6665@192.168.1.251/eth0,6666@192.168.1.1/  
netconsole: local port 6665  
netconsole: local IP 192.168.1.251  
netconsole: interface eth0  
netconsole: remote port 6666  
netconsole: remote IP 192.168.1.1  
netconsole: remote ethernet address ff:ff:ff:ff:ff:ff  
Initializing CPU#0  
CPU 0 irqstacks, hard=b03b7000 soft=b03b5000  
PID hash table entries: 4096 (order: 12, 65536 bytes)  
Detected 3105.371 MHz processor.  
Using tsc for high-res timesource  
Console: colour dummy device 80x25  
Dentry cache hash table entries: 262144 (order: 8, 1048576 bytes)  
Inode-cache hash table entries: 131072 (order: 7, 524288 bytes)  
Memory: 1035036k/1048496k available (1565k kernel code, 12932k reserved,  
1012k data, 168k init, 0k h  
ighmem)  
Checking if this processor honours the WP bit even in supervisor mode... Ok.  
Mount-cache hash table entries: 512 (order: 0, 4096 bytes)  
CPU: Trace cache: 12K uops, L1 D cache: 8K  
CPU: L2 cache: 512K  
CPU: Physical Processor ID: 0  
Intel machine check architecture supported.  
Intel machine check reporting enabled on CPU#0.  
CPU0: Intel P4/Xeon Extended MCE MSR (12) available  
CPU0: Thermal monitoring enabled  
Enabling fast FPU save and restore... done.  
Enabling unmasked SIMD FPU exception support... done.  
Checking 'hlt' instruction... OK.  
CPU0: Intel(R) Pentium(R) 4 CPU 3.06GHz stepping 07  
per-CPU timeslice cutoff: 1462.74 usecs.  
task migration cache decay timeout: 2 msecs.  
Booting processor 1/1 eip 3000  
CPU 1 irqstacks, hard=b03b8000 soft=b03b6000  
Initializing CPU#1

CPU: Trace cache: 12K uops, L1 D cache: 8K  
CPU: L2 cache: 512K  
CPU: Physical Processor ID: 0  
Intel machine check architecture supported.  
Intel machine check reporting enabled on CPU#1.  
CPU1: Intel P4/Xeon Extended MCE MSR (12) available  
CPU1: Thermal monitoring enabled  
CPU1: Intel(R) Pentium(R) 4 CPU 3.06GHz stepping 07  
Total of 2 processors activated (12320.76 BogoMIPS).  
ENABLING IO-APIC IRQs  
..TIMER: vector=0x31 pin1=2 pin2=-1  
checking TSC synchronization across 2 CPUs: passed.  
Brought up 2 CPUs  
NET: Registered protocol family 16  
PCI: PCI BIOS revision 2.10 entry at 0xf1e50, last bus=2  
PCI: Using configuration type 1  
mtrr: v2.0 (20020519)  
ACPI: Subsystem revision 20041105  
ACPI: Interpreter enabled  
ACPI: Using IOAPIC for interrupt routing  
ACPI: PCI Interrupt Link [LNKA] (IRQs 3 4 5 6 7 9 10 11 \*12 14 15)  
ACPI: PCI Interrupt Link [LNKB] (IRQs 3 4 \*5 6 7 9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKC] (IRQs 3 4 5 6 7 \*9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKD] (IRQs 3 4 5 6 7 \*9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKE] (IRQs 3 4 5 6 7 9 \*10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKF] (IRQs 3 4 5 6 7 \*9 10 11 12 14 15)  
ACPI: PCI Interrupt Link [LNKG] (IRQs 3 4 5 6 7 9 10 11 12 14 15) \*0,  
disabled.  
ACPI: PCI Interrupt Link [LNKH] (IRQs 3 4 5 6 7 9 10 \*11 12 14 15)  
ACPI: PCI Root Bridge [PCI0] (00:00)  
PCI: Probing PCI hardware (bus 00)  
PCI: Enabled i801 SMBus device  
PCI: Ignoring BAR0-3 of IDE controller 0000:00:1f.1  
PCI: Transparent bridge - 0000:00:1e.0  
usbcore: registered new driver usbfs  
usbcore: registered new driver hub  
PCI: Using ACPI for IRQ routing  
\*\* PCI interrupts are no longer routed automatically. If this  
\*\* causes a device to stop working, it is probably because the  
\*\* driver failed to call pci\_enable\_device(). As a temporary  
\*\* workaround, the "pci=routeirq" argument restores the old  
\*\* behavior. If this argument makes the device work again,  
\*\* please email the output of "lspci" to bjorn.helgaas@hp.com  
\*\* so I can fix the driver.  
Simple Boot Flag at 0x3a set to 0x80  
Machine check exception polling timer started.  
IA-32 Microcode Update Driver: v1.14 <tigran@veritas.com>  
Initializing Cryptographic API  
vesafb: framebuffer at 0xdc000000, mapped to 0xf0880000, using 1875k,  
total 65536k  
vesafb: mode is 800x600x16, linelength=1600, pages=2

vesafb: protected mode interface info at c000:ed00  
vesafb: scrolling: redraw  
vesafb: Truecolor: size=0:5:6:5, shift=0:11:5:0  
Console: switching to colour frame buffer device 100x37  
fb0: VESA VGA frame buffer device  
ACPI: Power Button (FF) [PWRF]  
Real Time Clock Driver v1.12  
Non-volatile memory driver v1.2  
hw\_random: RNG not detected  
Hangcheck: starting hangcheck timer 0.5.0 (tick is 180 seconds, margin is 60 seconds).  
serio: i8042 AUX port at 0x60,0x64 irq 12  
serio: i8042 KBD port at 0x60,0x64 irq 1  
Serial: 8250/16550 driver \$Revision: 1.90 \$ 8 ports, IRQ sharing disabled  
ttyS0 at I/O 0x3f8 (irq = 4) is a 16550A  
ttyS1 at I/O 0x2f8 (irq = 3) is a 16550A  
io scheduler noop registered  
io scheduler deadline registered  
io scheduler cfq registered  
RAMDISK driver initialized: 16 RAM disks of 32768K size 1024 blocksize  
loop: loaded (max 8 devices)  
elevator: using cfq as default io scheduler  
nbd: registered device at major 43  
b44.c:v0.95 (Aug 3, 2004)  
ACPI: PCI interrupt 0000:02:05.0[A] -> GSI 20 (level, low) -> IRQ 20  
eth0: Broadcom 4400 10/100BaseT Ethernet 00:e0:18:ed:a2:29  
netconsole: device eth0 not up yet, forcing it  
netconsole: carrier detect appears flaky, waiting 10 seconds  
b44: eth0: Link is down.  
b44: eth0: Link is up at 100 Mbps, full duplex.  
b44: eth0: Flow control is on for TX and on for RX.  
netconsole: network logging started  
Linux video capture interface: v1.00  
Uniform Multi-Platform E-IDE driver Revision: 7.00alpha2  
ide: Assuming 33MHz system bus speed for PIO modes; override with idebus=xx  
ICH4: IDE controller at PCI slot 0000:00:1f.1  
ACPI: PCI interrupt 0000:00:1f.1[A] -> GSI 18 (level, low) -> IRQ 18  
ICH4: chipset revision 2  
ICH4: not 100% native mode: will probe irqs later  
    ide0: BM-DMA at 0xf000-0xf007, BIOS settings: hda:DMA, hdb:pio  
    ide1: BM-DMA at 0xf008-0xf00f, BIOS settings: hdc:DMA, hdd:DMA  
hda: Maxtor 6Y080P0, ATA DISK drive  
ide0 at 0x1f0-0x1f7,0x3f6 on irq 14  
hdc: LITE-ON DVDRW SOHW-1653S, ATAPI CD/DVD-ROM drive  
hdd: JLMS XJ-HD165H, ATAPI CD/DVD-ROM drive  
ide1 at 0x170-0x177,0x376 on irq 15  
hda: max request size: 128KiB  
hda: 160086528 sectors (81964 MB) w/7936KiB Cache, CHS=65535/16/63,  
UDMA(100)  
    hda: hda1 hda2 < hda5 hda6 hda7 >  
hdc: ATAPI 48X DVD-ROM DVD-R CD-R/RW drive, 2048kB Cache, UDMA(33)

Uniform CD-ROM driver Revision: 3.20  
hdd: ATAPI 48X DVD-ROM drive, 512kB Cache, UDMA(33)  
usbcore: registered new driver hiddev  
usbcore: registered new driver usbhid  
drivers/usb/input/hid-core.c: v2.0:USB HID core driver  
mice: PS/2 mouse device common for all mice  
input: AT Translated Set 2 keyboard on isa0060/serio0  
NET: Registered protocol family 2  
IP: routing cache hash table of 4096 buckets, 64Kbytes  
TCP: Hash tables configured (established 131072 bind 43690)  
NET: Registered protocol family 1  
NET: Registered protocol family 17  
NET: Registered protocol family 15  
Starting balanced\_irq  
ACPI wakeup devices:  
PCI0 PCI1 PCI2 UAR1 USB0 USB1 USB2 US20 AC97  
ACPI: (supports S0 S1 S4 S5)  
BIOS EDD facility v0.16 2004-Jun-25, 1 devices found  
kjournald starting. Commit interval 5 seconds  
EXT3-fs: mounted filesystem with ordered data mode.  
VFS: Mounted root (ext3 filesystem) readonly.  
Freeing unused kernel memory: 168k freed

lspci output:

00:00.0 Host bridge: Intel Corp. 82845G/GL[Brookdale-G]/GE/PE DRAM  
Controller/Host-Hub Interface (rev 02)  
00:01.0 PCI bridge: Intel Corp. 82845G/GL[Brookdale-G]/GE/PE Host-to-AGP  
Bridge (rev 02)  
00:1d.0 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M)  
USB UHCI Controller #1 (rev 02)  
00:1d.1 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M)  
USB UHCI Controller #2 (rev 02)  
00:1d.2 USB Controller: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M)  
USB UHCI Controller #3 (rev 02)  
00:1d.7 USB Controller: Intel Corp. 82801DB/DBM (ICH4/ICH4-M) USB 2.0  
EHCI Controller (rev 02)  
00:1e.0 PCI bridge: Intel Corp. 82801 PCI Bridge (rev 82)  
00:1f.0 ISA bridge: Intel Corp. 82801DB/DBL (ICH4/ICH4-L) LPC Bridge  
(rev 02)  
00:1f.1 IDE interface: Intel Corp. 82801DB/DBL (ICH4/ICH4-L)  
UltraATA-100 IDE Controller (rev 02)  
00:1f.3 SMBus: Intel Corp. 82801DB/DBL/DBM (ICH4/ICH4-L/ICH4-M) SMBus  
Controller (rev 02)  
00:1f.5 Multimedia audio controller: Intel Corp. 82801DB/DBL/DBM  
(ICH4/ICH4-L/ICH4-M) AC'97 Audio Controller (rev 02)  
01:00.0 VGA compatible controller: nVidia Corporation NV18 [GeForce4 MX  
440 AGP 8x] (rev a4)  
02:05.0 Ethernet controller: Broadcom Corporation BCM4401 100Base-T (rev 01)  
02:0d.0 Multimedia video controller: Brooktree Corporation Bt878 Video  
Capture (rev 11)  
02:0d.1 Multimedia controller: Brooktree Corporation Bt878 Audio Capture

(rev 11)

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