

PROBLEM:

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-04/5258.html>

From: Harry (*postituk_at_yahoo.com*)

Date: 04/24/04

Date: Sat, 24 Apr 2004 11:55:25 -0700 (PDT)

To: linux-kernel@vger.kernel.org

I have not submitted a bug report before so I hope this is enough information. If any more is required please let me know.

[1] Getting Oops's during heavy filesystem access

[2] I initially thought this was a hardware problem because I was trying to use the SATA on a MSI K8T Neo motherboard. I switched to using normal IDE disks and got another Oops using the 2.6.5 kernel. I reverted back to the old binary 2.2.20 kernel and tried to reproduce the problem but was unable to.

[3] IDE SATA

[4.] kernel 2.6.5

[5.] I have had three seperate Oops all of which look completely different, at least to me. I have only included the first Oops from each occurence.

Unable to handle kernel paging request at virtual address 00ff0744

printing eip:

c01e5351

*pde = 00000000

Oops: 0000 [#1]

CPU: 0

0060:[generic_make_request+17/384] Not tainted

EFLAGS: 00010282 (2.6.5)

EIP is at generic_make_request+0x11/0x180

eax: 00000202 ebx: 007d8008 ecx: 00ff0740 edx: e8eea300

esi: fb001000 edi: e8eea300 ebp: 00000040 esp: f3ee5d70

ds: 007b es: 007b ss: 0068

Process kjournald (pid: 868, threadinfo=f3ee4000 task=f572b2a0)

Stack: f3ee5d70 f3ee5d70 f3ee5da4 00000082 f1b9f8c0 e8eea300 00000000
00000000

00000010 c01495ab f7fed8a0 00000010 00000000 e908fbd0 00000001
007d8008

00000013 00000001 00000040 c01e54fd e8eea300 e908fbd0 c0148fb0

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00000001

Call Trace:

```
[bio_alloc+203/416] bio_alloc+0xcb/0x1a0
[submit_bio+61/112] submit_bio+0x3d/0x70
[ll_rw_block+96/128] ll_rw_block+0x60/0x80
[journal_commit_transaction+3533/4048]
journal_commit_transaction+0xcd/0xfd0
[autoremove_wake_function+0/80] autoremove_wake_function+0x0/0x50
[autoremove_wake_function+0/80] autoremove_wake_function+0x0/0x50
[kjournald+180/464] kjournald+0xb4/0x1d0
[autoremove_wake_function+0/80] autoremove_wake_function+0x0/0x50
[autoremove_wake_function+0/80] autoremove_wake_function+0x0/0x50
[ret_from_fork+6/20] ret_from_fork+0x6/0x14
[commit_timeout+0/16] commit_timeout+0x0/0x10
[kjournald+0/464] kjournald+0x0/0x1d0
[kernel_thread_helper+5/20] kernel_thread_helper+0x5/0x14
```

Code: 8b 41 04 c1 ee 09 8b 50 38 8b 40 34 0f ac d0 09 85 c0 89 c3

Unable to handle kernel paging request at virtual address 00650d50

printing eip:

c0161fb4

*pde = 00000000

Oops: 0000 [#1]

CPU: 0

EIP: 0060:[mpage_writepage+116/1344] Not tainted

EFLAGS: 00010246 (2.6.5)

EIP is at mpage_writepage+0x74/0x540

eax: 2000102d ebx: 00000000 ecx: 0000000c edx: 00650d50

esi: c10a9998 edi: 00650d50 ebp: f753e180 esp: c1ba9d10

ds: 007b es: 007b ss: 0068

Process pdflush (pid: 6, threadinfo=c1ba8000 task=c1bab700)

Stack: eaf57800 c10a99c0 00001000 00000000 00000000 00000000 00000000
00000000

00000000 00000001 ec79e6c0 00000001 0000000c f753e20c ec79e6c0
4c5a0d66

0000e2c2 99f3269a 00000071 c1ba9d8c 00000082 00000001 c0112c3d
00000000

Call Trace:

```
[scheduler_tick+109/1296] scheduler_tick+0x6d/0x510
[schedule+740/1280] schedule+0x2e4/0x500
[mpage_writepages+596/704] mpage_writepages+0x254/0x2c0
[ext2_get_block+0/880] ext2_get_block+0x0/0x370
[ext2_writepages+31/48] ext2_writepages+0x1f/0x30
[ext2_get_block+0/880] ext2_get_block+0x0/0x370
[do_writepages+30/64] do_writepages+0x1e/0x40
[__sync_single_inode+169/480] __sync_single_inode+0xa9/0x1e0
[sync_sb_inodes+331/496] sync_sb_inodes+0x14b/0x1f0
[writeback_inodes+51/80] writeback_inodes+0x33/0x50
[background_writeout+123/192] background_writeout+0x7b/0xc0
[pdflush+0/48] pdflush+0x0/0x30
```

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Linux-Kernel: PROBLEM:

```
[__pdflush+159/336] __pdflush+0x9f/0x150
[pdflush+40/48] pdflush+0x28/0x30
[background_writeout+0/192] background_writeout+0x0/0xc0
[pdflush+0/48] pdflush+0x0/0x30
[kthread+165/176] kthread+0xa5/0xb0
[kthread+0/176] kthread+0x0/0xb0
[kernel_thread_helper+5/20] kernel_thread_helper+0x5/0x14
```

Code: 8b 02 a8 04 0f 85 f2 02 00 00 8b 02 a8 10 0f 85 8c 02 00 00

Unable to handle kernel paging request at virtual address 000e1b58
printing eip:

c0133e61

*pde = 00000000

Oops: 0002 [#1]

CPU: 0

EIP: 0060:[activate_page+49/128] Not tainted

EFLAGS: 00010046 (2.6.5)

EIP is at activate_page+0x31/0x80

eax: c17f7a50 ebx: c10ebe60 ecx: c10ebe78 edx: 000e1b58

esi: c0300fd8 edi: c10ebe60 ebp: d1883ae0 esp: d588fd68

ds: 007b es: 007b ss: 0068

Process postmaster (pid: 823, threadinfo=d588e000 task=df3cacc0)

Stack: c10ebe60 00001000 c0133ed8 00000000 c012df8b d93a70c0 c10ebe60
00000000

00001000 d588fdf4 00000001 00000001 00000337 c62a5c40 c014a1fd
c1b49600

00000000 00000001 00001000 00000000 d588fdf4 00000000 d1883a54
40a10d00

Call Trace:

```
[mark_page_accessed+40/48] mark_page_accessed+0x28/0x30
[generic_file_aio_write_nolock+1099/2672]
generic_file_aio_write_nolock+0x44b/0xa70
[bio_hw_segments+45/48] bio_hw_segments+0x2d/0x30
[scheduler_tick+31/1296] scheduler_tick+0x1f/0x510
[buffered_rmqueue+191/352] buffered_rmqueue+0xbf/0x160
[update_process_times+70/96] update_process_times+0x46/0x60
[update_wall_time+11/64] update_wall_time+0xb/0x40
[do_timer+223/240] do_timer+0xdf/0xf0
[generic_file_aio_write+119/160] generic_file_aio_write+0x77/0xa0
[ext3_file_write+68/192] ext3_file_write+0x44/0xc0
[do_sync_write+139/192] do_sync_write+0x8b/0xc0
[permission+70/80] permission+0x46/0x50
[permission+70/80] permission+0x46/0x50
[get_empty_filp+104/224] get_empty_filp+0x68/0xe0
[update_process_times+70/96] update_process_times+0x46/0x60
[dentry_open+282/432] dentry_open+0x11a/0x1b0
[filp_open+98/112] filp_open+0x62/0x70
[do_sync_write+0/192] do_sync_write+0x0/0xc0
[vfs_write+184/304] vfs_write+0xb8/0x130
[sys_write+66/112] sys_write+0x42/0x70
```

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Linux-Kernel: PROBLEM:

[syscall_call+7/11] syscall_call+0x7/0xb

Code: 89 02 c7 41 04 00 02 20 00 c7 43 18 00 01 10 00 ff 4e 2c 0f

[6] I found the problem while restoring a database

```
cat database.gz | gunzip | psql dbname
```

where database.gz is a 600Mb file

[7] Debian sarge (mild and sunny ;-)

[7.1]

```
debian:~# /usr/src/kernel-source-2.6.5/scripts/ver_linux
```

If some fields are empty or look unusual you may have an old version.

Compare to the current minimal requirements in Documentation/Changes.

```
Linux debian 2.6.5 #1 Sun Apr 25 19:53:20 BST 2004 i686 GNU/Linux
```

Gnu C 3.3.3

Gnu make 3.80

binutils 2.14.90.0.7

util-linux 2.12

mount 2.12

module-init-tools 3.0-pre10

e2fsprogs 1.35

pcmcia-cs 3.2.5

PPP 2.4.2

Linux C Library 2.3.2

Dynamic linker (ld) 2.3.2

Procps 3.2.0

Net-tools 1.60

Console-tools 0.2.3

Sh-utils 5.0.91

Modules Loaded tulip crc32 af_packet

[7.2.]

```
debian:~# cat /proc/cpuinfo
```

processor : 0

vendor_id : AuthenticAMD

cpu family : 15

model : 4

model name : AMD Athlon(tm) 64 Processor 3200+

stepping : 8

cpu MHz : 2001.027

cache size : 1024 KB

fdiv_bug : no

hlt_bug : no

f00f_bug : no

coma_bug : no

fpu : yes

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Linux–Kernel: PROBLEM:

```
fpu_exception : yes
cpuid level : 1
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge
mca cmov pat pse36 clflush mmx fxsr sse sse2 syscall mmxext lm 3dnowext
3dnow
bogomips : 3940.35
```

[7.3.]

```
debian:~# cat /proc/modules
tulip 36640 0 – Live 0xf88bd000
crc32 3840 1 tulip, Live 0xf88a8000
af_packet 12552 2 – Live 0xf88aa000
```

[7.4.]

```
debian:~# cat /proc/ioprots
0000–001f : dma1
0020–0021 : pic1
0040–005f : timer
0060–006f : keyboard
0080–008f : dma page reg
00a0–00a1 : pic2
00c0–00df : dma2
00f0–00ff : fpu
0170–0177 : ide1
01f0–01f7 : ide0
0376–0376 : ide1
03c0–03df : vga+
03f6–03f6 : ide0
0cf8–0cff : PCI conf1
bc00–bcff : 0000:00:11.5
c000–c0ff : 0000:00:0f.0
c400–c40f : 0000:00:0f.0
  c400–c407 : ide2
  c408–c40f : ide3
c800–c803 : 0000:00:0f.0
  c802–c802 : ide3
cc00–cc07 : 0000:00:0f.0
  cc00–cc07 : ide3
d000–d003 : 0000:00:0f.0
d400–d407 : 0000:00:0f.0
d800–d87f : 0000:00:0e.0
dc00–dcff : 0000:00:0b.0
e000–e0ff : 0000:00:07.0
  e000–e0ff : tulip
e400–e47f : 0000:00:0d.0
  e400–e47f : sata_promise
e800–e80f : 0000:00:0d.0
  e800–e80f : sata_promise
ec00–ec3f : 0000:00:0d.0
  ec00–ec3f : sata_promise
```

PROBLEM:

Linux-Kernel: PROBLEM:

```
fc00-fc0f : 0000:00:0f.1
fc00-fc07 : ide0
fc08-fc0f : ide1
```

```
debian:~# cat /proc/iomem
00000000-0009fbff : System RAM
0009fc00-0009ffff : reserved
000a0000-000bffff : Video RAM area
000cc800-000cd7ff : Extension ROM
000e0000-000effff : Extension ROM
000f0000-000fffff : System ROM
00100000-3ffeffff : System RAM
  00100000-002b24f6 : Kernel code
  002b24f7-0033d13f : Kernel data
3ff00000-3ff7ffff : ACPI Tables
3ff80000-3fffffff : ACPI Non-volatile Storage
bdc00000-cdbfffff : PCI Bus #01
  c0000000-c7ffffff : 0000:01:00.0
cdd00000-cfdfffff : PCI Bus #01
  ce000000-ceffffff : 0000:01:00.0
cff60000-cff7ffff : 0000:00:0d.0
  cff60000-cff7ffff : sata_promise
cffe0000-cffeffff : 0000:00:0d.0
  cffe0000-cffeffff : sata_promise
ffff0000-ffff7fff : 0000:00:0e.0
  cffffe00-cffffeff : 0000:00:0b.0
  cfffff00-cfffffff : 0000:00:07.0
    cfffff00-cfffffff : tulip
d0000000-d1ffffff : 0000:00:00.0
fec00000-fec00fff : reserved
fee00000-fee00fff : reserved
fff80000-fffffff : reserved
```

[7.5.]

```
0000:00:00.0 Host bridge: VIA Technologies, Inc. VT8385 [K8T800 AGP]
Host Bridge (rev 01)
  Subsystem: VIA Technologies, Inc. VT8385 [K8T800 AGP] Host Bridge
  Control: I/O- Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
  Status: Cap+ 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort+ >SERR- <PERR-
  Latency: 8
  Region 0: Memory at d0000000 (32-bit, prefetchable)
  Capabilities: [80] AGP version 3.0
    Status: RQ=32 Iso- ArqSz=0 Cal=2 SBA+ ITACoh- GART64- HTrans-
64bit- FW+ AGP3- Rate=x4
    Command: RQ=1 ArqSz=0 Cal=0 SBA- AGP- GART64- 64bit- FW-
Rate=<none>
  Capabilities: [c0] #08 [0060]
  Capabilities: [68] Power Management version 2
    Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA
```

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Linux-Kernel: PROBLEM:

PME(D0-,D1-,D2-,D3hot-,D3cold-)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

Capabilities: [58] #08 [8001]

0000:00:01.0 PCI bridge: VIA Technologies, Inc. VT8237 PCI bridge
[K8T800 South] (prog-if 00 [Normal decode])

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR+ FastB2B-

Status: Cap+ 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

Latency: 0

Bus: primary=00, secondary=01, subordinate=01, sec-latency=0

I/O behind bridge: 0000f000-00000fff

Memory behind bridge: cdd00000-cfdfffff

Prefetchable memory behind bridge: bdc00000-cdbfffff

BridgeCtl: Parity- SERR+ NoISA+ VGA+ MAbort- >Reset- FastB2B-

Capabilities: [80] Power Management version 2

Flags: PMEClk- DSI- D1+ D2- AuxCurrent=0mA

PME(D0-,D1-,D2-,D3hot-,D3cold-)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:07.0 Ethernet controller: Lite-On Communications Inc LNE100TX
(rev 20)

Subsystem: Netgear FA310TX

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-

Status: Cap- 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

Latency: 32

Interrupt: pin A routed to IRQ 5

Region 0: I/O ports at e000 [size=cff80000]

Region 1: Memory at cffff00 (32-bit, non-prefetchable) [size=256]

Expansion ROM at 00040000 [disabled]

0000:00:0b.0 Ethernet controller: Realtek Semiconductor Co., Ltd.
RTL-8169 (rev 10)

Subsystem: Micro-Star International Co., Ltd.: Unknown device 702c

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV+ VGASnoop- ParErr-
Stepping- SERR- FastB2B-

Status: Cap+ 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

Latency: 32 (8000ns min, 16000ns max), Cache Line Size: 0x08 (32
bytes)

Interrupt: pin A routed to IRQ 11

Region 0: I/O ports at dc00 [size=cffc0000]

Region 1: Memory at cffffe00 (32-bit, non-prefetchable) [size=256]

Expansion ROM at 00020000 [disabled]

Capabilities: [dc] Power Management version 2

Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=375mA

PME(D0-,D1+,D2+,D3hot+,D3cold+)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

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Linux-Kernel: PROBLEM:

0000:00:0d.0 RAID bus controller: Promise Technology, Inc.: Unknown device 3373 (rev 02)

Subsystem: Micro-Star International Co., Ltd.: Unknown device 702e

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV+ VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66MHz+ UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 96 (1000ns min, 4500ns max), Cache Line Size: 0x91 (580 bytes)

Interrupt: pin A routed to IRQ 10

Region 0: I/O ports at ec00

Region 1: I/O ports at e800 [size=16]

Region 2: I/O ports at e400 [size=128]

Region 3: Memory at cffe000 (32-bit, non-prefetchable) [size=4K]

Region 4: Memory at cff60000 (32-bit, non-prefetchable) [size=128K]

Capabilities: [60] Power Management version 2

Flags: PMEClk- DSI+ D1+ D2- AuxCurrent=0mA

PME(D0-,D1-,D2-,D3hot-,D3cold-)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:0e.0 FireWire (IEEE 1394): VIA Technologies, Inc. IEEE 1394 Host Controller (rev 80) (prog-if 10 [OHCI])

Subsystem: Micro-Star International Co., Ltd.: Unknown device 702d

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV+ VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 32 (8000ns max), Cache Line Size: 0x08 (32 bytes)

Interrupt: pin A routed to IRQ 3

Region 0: Memory at cfff000 (32-bit, non-prefetchable)

Region 1: I/O ports at d800 [size=128]

Capabilities: [50] Power Management version 2

Flags: PMEClk- DSI- D1- D2+ AuxCurrent=0mA

PME(D0-,D1-,D2+,D3hot+,D3cold+)

Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:0f.0 RAID bus controller: VIA Technologies, Inc.: Unknown device 3149 (rev 80)

Subsystem: Micro-Star International Co., Ltd.: Unknown device 7020

Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr- Stepping- SERR- FastB2B-

Status: Cap+ 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort- <TAbort- <MAbort- >SERR- <PERR-

Latency: 32

Interrupt: pin B routed to IRQ 10

Region 0: I/O ports at d400

Region 1: I/O ports at d000 [size=4]

Region 2: I/O ports at cc00 [size=8]

Region 3: I/O ports at c800 [size=4]

Region 4: I/O ports at c400 [size=16]

Region 5: I/O ports at c000 [size=256]

PROBLEM:

Linux-Kernel: PROBLEM:

Capabilities: [c0] Power Management version 2
Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:0f.1 IDE interface: VIA Technologies, Inc.
VT82C586A/B/VT82C686/A/B/VT823x/A/C/VT8235 PIPC Bus Master IDE (rev 06)

(
prog-if 8a [Master SecP PriP])
Subsystem: Micro-Star International Co., Ltd.: Unknown device 7020
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap+ 66MHz- UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-
Latency: 32
Interrupt: pin A routed to IRQ 0
Region 4: I/O ports at fc00 [size=16]
Capabilities: [c0] Power Management version 2
Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:11.0 ISA bridge: VIA Technologies, Inc. VT8237 ISA bridge
[K8T800 South]

Subsystem: VIA Technologies, Inc. VT8237 ISA bridge [K8T800 South]
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping+ SERR- FastB2B-
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-
Latency: 0
Capabilities: [c0] Power Management version 2
Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:11.5 Multimedia audio controller: VIA Technologies, Inc.
VT8233/A/8235/8237 AC97 Audio Controller (rev 60)

Subsystem: Micro-Star International Co., Ltd.: Unknown device 0080
Control: I/O+ Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-
Interrupt: pin C routed to IRQ 5
Region 0: I/O ports at bc00
Capabilities: [c0] Power Management version 2
Flags: PMEClk- DSI- D1+ D2+ AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-

0000:00:18.0 Host bridge: Advanced Micro Devices [AMD] K8 NorthBridge
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-

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Linux-Kernel: PROBLEM:

Stepping- SERR- FastB2B-
Status: Cap+ 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort-
<TAbort- <MAbort- >SERR- <PERR-
Capabilities: [80] #08 [2101]

0000:00:18.1 Host bridge: Advanced Micro Devices [AMD] K8 NorthBridge
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

0000:00:18.2 Host bridge: Advanced Micro Devices [AMD] K8 NorthBridge
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

0000:00:18.3 Host bridge: Advanced Micro Devices [AMD] K8 NorthBridge
Control: I/O- Mem- BusMaster- SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap- 66MHz- UDF- FastB2B- ParErr- DEVSEL=fast >TAbort-
<TAbort- <MAbort- >SERR- <PERR-

0000:01:00.0 VGA compatible controller: nVidia Corporation NV11DDR
[GeForce2 MX 100 DDR/200 DDR] (rev b2) (prog-if 00 [VGA])
Control: I/O+ Mem+ BusMaster+ SpecCycle- MemWINV- VGASnoop- ParErr-
Stepping- SERR- FastB2B-
Status: Cap+ 66MHz+ UDF- FastB2B+ ParErr- DEVSEL=medium >TAbort-
<TAbort- <MAbort- >SERR- <PERR-
Latency: 32 (1250ns min, 250ns max)
Interrupt: pin A routed to IRQ 11
Region 0: Memory at ce000000 (32-bit, non-prefetchable)
[size=cdf0000]
Region 1: Memory at c0000000 (32-bit, prefetchable) [size=128M]
Expansion ROM at 00010000 [disabled]
Capabilities: [60] Power Management version 2
Flags: PMEClk- DSI- D1- D2- AuxCurrent=0mA
PME(D0-,D1-,D2-,D3hot-,D3cold-)
Status: D0 PME-Enable- DSel=0 DScale=0 PME-
Capabilities: [44] AGP version 2.0
Status: RQ=32 Iso- ArqSz=0 Cal=0 SBA- ITACoh- GART64- HTrans-
64bit- FW+ AGP3- Rate=x1,x2,x4
Command: RQ=1 ArqSz=0 Cal=0 SBA- AGP- GART64- 64bit- FW-
Rate=<none>

[7.6.]
debian:~# cat /proc/scsi/scsi
Attached devices:

[X.] Since I am unable to reproduce the problem with the old binary
2.2.20 on normal IDE disks but I can on the same disks when using the

PROBLEM:

Linux-Kernel: PROBLEM:

2.6.5 compiled kernel I am making the wild assumption that it is not hardware related. I tried to find roughly where the problem was using

```
objdump -d  
/mnt/hdc2/usr/src/kernel-source-2.6.4/drivers/block/ll_rw_blk.o  
objdump -d /usr/src/linux/fs/bio.o  
objdump -d fs/mpage.o
```

and trying to use the offsets from the oops to see where the problem was but I was unable to locate the offset in each of the files. This is probably more my inexperience than anything else. If there is a decent tutorial on how to do this sort of thing I would appreciate a pointer or two. So far the only thing I can think of is that my compiler is dodgy or I am having spurious memory problems.

yours
Harry

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