

Re: 2.6.10-rc1 bttv oops in btcx_riscmem_free

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-10/10300.html>

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Date: 10/31/04

To: kraxel@bytesex.org

Date: 31 Oct 2004 15:59:38 +0100

Peter Osterlund <petero2@telia.com> writes:

> *Eyal Lebedinsky <eyal@eyal.emu.id.au> writes:*
>
> > *Watching on Mythtv, I stopped watching on the client. at this point*
> > *the picture froze. Looking in dmesg I see this oops. The machine*
> > *quicly becomes unusable ('ps aux' hangs).*
> >
> > *I then applied the v4l patches off the list. Still the same problem.*
> >
> > *Unable to handle kernel paging request at virtual address 85525fe9*
> >
> > *I have similar problems using 2.6.10-rc1-bk8. Often when I exit*
> > *tvtime, I get "unable to handle kernel paging request" or "unable to*
> > *handle kernel NULL pointer", see below.*
> >
> > *The previous kernel I used on this machine was 2.6.9-rc3-bk9, which*
> > *does not have this problem.*

I've found that I can't trigger the oops if I revert these two patches:

http://linus.bkbits.net:8080/linux-2.5/cset@417681b1ZY5TxMjPnGdT0mbmUVn_Aw?nav=index.html|ChangeSet@-2
<http://linus.bkbits.net:8080/linux-2.5/cset@41768196E6i6bbiUnhTg9OFubLPWHA?nav=index.html|ChangeSet@-2>

> *Oct 30 14:12:55 p4 kernel: Unable to handle kernel NULL pointer dereference at virtual address 00000011*
> *Oct 30 14:12:55 p4 kernel: printing eip:*
> *Oct 30 14:12:55 p4 kernel: c010a237*
> *Oct 30 14:12:55 p4 kernel: *pde = 00000000*
> *Oct 30 14:12:55 p4 kernel: Oops: 0000 [#1]*
> *Oct 30 14:12:55 p4 kernel: PREEMPT*
> *Oct 30 14:12:55 p4 kernel: Modules linked in: snd_pcm_oss tuner tda9887 msp3400 bttv video_buf*
firmware_class v4l2_common btcx_risc videodev snd_mixer_oss snd_emu10k1 snd_rawmidi snd_ac97_codec
snd_pcm snd_timer snd_page_alloc snd_util_mem snd_hwdep snd_soundcore radeon nfsd exportfs lockd
parport_pc lp parport autofs4 sunrpc ipt_MASQUERADE iptable_nat ipt_LOG ipt_limit ipt_state
ipt_REJECT iptable_filter ip_tables sd_mod dm_mod usb_storage uhci_hcd ehci_hcd rtc
> *Oct 30 14:12:55 p4 kernel: CPU: 0*
> *Oct 30 14:12:55 p4 kernel: EIP: 0060:[<c010a237>] Not tainted VLI*

Linux-Kernel: Re: 2.6.10-rc1 bttv oops in btcx_riscmem_free

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> Oct 30 14:12:55 p4 kernel: EFLAGS: 00210206 (2.6.10-rc1-bk8)
> Oct 30 14:12:55 p4 kernel: EIP is at dma_free_coherent+0x30/0x67
> Oct 30 14:12:55 p4 kernel: eax: 00000000 ebx: e429d000 ecx: e429d000 edx: 00000000
> Oct 30 14:12:55 p4 kernel: esi: 00000011 edi: e3a14f34 ebp: eac6a800 esp: de55bee4
> Oct 30 14:12:55 p4 kernel: ds: 007b es: 007b ss: 0068
> Oct 30 14:12:55 p4 kernel: Process tvtime (pid: 5018, threadinfo=de55a000 task=e19ac580)
> Oct 30 14:12:55 p4 kernel: Stack: e7b3d680 e3a14e80 f8a3203d e7b3d6c4 00000c38 e429d000 2429d000
e3a14ea4
> Oct 30 14:12:55 p4 kernel: e7b3d880 f8d2fb35 e7b3d680 e3a14f34 00000000 00000000 e79e7720
ee3744bc
> Oct 30 14:12:55 p4 kernel: f8afbc55 e7b3d880 e3a14e80 00035000 eac6a800 de55a000 de55a000
e7861c80
> Oct 30 14:12:55 p4 kernel: Call Trace:
> Oct 30 14:12:55 p4 kernel: [] btcx_riscmem_free+0x3d/0x84 [btcx_risc]
> Oct 30 14:12:55 p4 kernel: [] bttv_dma_free+0x74/0x9f [bttv]
> Oct 30 14:12:55 p4 kernel: [] videobuf_vm_close+0x97/0xc9 [video_buf]
> Oct 30 14:12:55 p4 kernel: [] remove_vm_struct+0x8e/0x97
> Oct 30 14:12:55 p4 kernel: [] unmap_vma_list+0x1c/0x28
> Oct 30 14:12:55 p4 kernel: [] do_munmap+0x142/0x17f
> Oct 30 14:12:55 p4 kernel: [] sys_munmap+0x44/0x64
> Oct 30 14:12:55 p4 kernel: [] sysenter_past_esp+0x52/0x71
> Oct 30 14:12:55 p4 kernel: Code: 44 24 0c 8b 54 24 10 8b 5c 24 14 85 c0 74 06 8b b0 b8 00 00 00 8d 42 ff
ba ffff ffff c1 e8 0b 83 c2 01 d1 e8 75 f9 85 f6 74 13 <8b> 0e 39 cb 72 0d 8b 46 08 c1 e0 0c 8d 04 08 39 c3
72 09 89 d8
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