

2.6.13-rc4 – kernel panic – BUG at net/ipv4/tcp_output.c:918

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-07/7691.html>

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Date: 07/31/05

Date: Sun, 31 Jul 2005 17:02:01 +0200
To: linux-kernel@vger.kernel.org

Hi,

I've been trying to upgrade kernel from 2.6.12.3 to 2.6.13-rc4 on a rather loaded http server, but i'm currently having a kernel panic a few minutes only after booting. The bug was reproducible (the crash happened after every reboot, with the same backtrace).

Here is the error log:

```
-----[ cut here ]-----  
kernel BUG at net/ipv4/tcp_output.c:918!  
invalid operand: 0000 [#1]  
CPU: 0  
EIP: 0060:[<c027dd56>] Not tainted VLI  
EFLAGS: 00010293 (2.6.13-rc4-ndy)  
EIP is at tcp_tso_should_defer+0xd6/0xf0  
eax: 00000007 ebx: f1258080 ecx: 00000007 edx: f297f800  
esi: 00000008 edi: 00000004 ebp: c031fd80 esp: c031fd70  
ds: 007b es: 007b ss: 0068  
Process swapper (pid: 0, threadinfo=c031e000 task=c02dbb80)  
Stack: f5f547b8 f1258080 00000008 f297f800 c031fdb8 c027de4b f297f800  
f297f800  
f1258080 00000009 f297f800 d039250c 00000000 00000002 00000002  
f297f800  
f297f800 00000100 c031fddc c027e192 f297f800 00000218 00000001  
f5fd4034  
Call Trace:  
[<c0102e5f>] show_stack+0x7f/0xa0  
[<c0103002>] show_registers+0x152/0x1c0  
[<c01031f8>] die+0xc8/0x140  
[<c0103325>] do_trap+0xb5/0xc0  
[<c010366c>] do_invalid_op+0xbc/0xd0  
[<c0102aa3>] error_code+0x4f/0x54  
[<c027de4b>] tcp_write_xmit+0xdb/0x3f0  
[<c027e192>] __tcp_push_pending_frames+0x32/0xd0  
[<c027c04e>] tcp_rcv_state_process+0x2be/0x9c0
```

Linux-Kernel: 2.6.13-rc4 – kernel panic – BUG at net/ipv4/tcp_output.c:918

```
[<c0283ee9>] tcp_v4_do_rcv+0x99/0x120
[<c02844e2>] tcp_v4_rcv+0x572/0x750
[<c026a62b>] ip_local_deliver+0xcb/0x1d0
[<c026aa52>] ip_rcv+0x322/0x4a0
[<c0256a97>] netif_receive_skb+0x137/0x1a0
[<c0256b8f>] process_backlog+0x8f/0x110
[<c0256c82>] net_rx_action+0x72/0x100
[<c01172dc>] __do_softirq+0x8c/0xa0
[<c011731a>] do_softirq+0x2a/0x30
[<c01173d5>] irq_exit+0x35/0x40
[<c01044fc>] do_IRQ+0x3c/0x70
[<c0102a46>] common_interrupt+0x1a/0x20
[<c0100997>] cpu_idle+0x57/0x60
[<c010024b>] _stext+0x2b/0x30
[<c0320847>] start_kernel+0x147/0x170
[<c0100199>] 0xc0100199
Code: 89 f8 0f af c2 3b 45 f0 0f 47 45 f0 31 d2 89 45 f0 f7 f3 31 d2 39
c1 73 ce ba 01 00 00 00 eb c7 6b c2 03 31 d2 39 c1 77 be eb ee <0f> 0b
96 03 ae 54 2d c0 e9 76 ff ff ff 8b ba 78 02 00 00 eb eb
<0>Kernel panic – not syncing: Fatal exception in interrupt
```

Some infos about my system:

My network card is an e1000.

```
root # cat /proc/cpuinfo
processor : 0
vendor_id : GenuineIntel
cpu family : 15
model : 3
model name : Intel(R) Pentium(R) 4 CPU 3.00GHz
stepping : 3
cpu MHz : 2995.045
cache size : 1024 KB
fdiv_bug : no
hlt_bug : no
f00f_bug : no
coma_bug : no
fpu : yes
fpu_exception : yes
cpuid level : 5
wp : yes
flags : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge
mca cmov pat pse36 clflush dtsacpi mmx fxsr sse sse2 ss ht tm pbe pni
monitor ds_cpl cid
bogomips : 5914.62
```

```
http00 root # uname -a
Linux http00 2.6.13-rc4 #1 Thu May 19 14:19:19 CEST 2005 i686 Intel(R)
Pentium(R) 4 CPU 3.00GHz GenuineIntel GNU/Linux
```

You can find dmesg, lspci and config at the following address:

<http://82.196.5.50/20050731/config.txt>

<http://82.196.5.50/20050731/dmesg.txt>

<http://82.196.5.50/20050731/lspci.txt>

<http://82.196.5.50/20050731/sysctl.txt>

Best regards,

Guillaume Pelat

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