

[OOPS] 2.6.7 random oops in free_block()

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-07/2059.html>

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Date: Sat, 10 Jul 2004 17:38:35 -0400 (EDT)
To: linux-kernel@vger.kernel.org

I've gotten this OOPS several times on my SMP box using kernels 2.6.7-rc2, rc3, and 2.6.7 final. It seems to happen on average about 3-4 days after the system is booted, and only when data is about to be written to disk. Here is the oops, and I've attached my dmesg and .config below. It seems to happen with or without CONFIG_PREEMPT=y, but I haven't tried it in uniprocessor mode yet.

I have other SMP boxes with 2.6.7 and they all seem to be fine. I wonder if it could possibly be a memory error?

Thanks!

-Byron

```
Unable to handle kernel paging request at virtual address 01000004
c01382d8
*pde = 00000000
Oops: 0002 [#1]
CPU: 1
EIP: 0060:[<c01382d8>] Not tainted
Using defaults from ksymoops -t elf32-i386 -a i386
EFLAGS: 00010012 (2.6.7)
eax: 01000000 ebx: c78ff000 ecx: c78ff040 edx: cda51040
esi: cff0b7e0 edi: 0000001a ebp: cff0b7f0 esp: c139fe88
ds: 007b es: 007b ss: 0068
Stack: cff0b800 0000001b c13b10e8 c13b10e8 00000292 cd2a8280 c13c1800 c01383a5
       0000001b c13b10d8 cff0b7e0 c13b10d8 00000292 cd2a8280 00000018 c0138819
       cd2a82d0 c139fef8 00000003 c0161c99 cd2a82d0 c0161ecf cba6ee58 cba6ee50
[<c01383a5>] cache_flusharray+0x55/0x100
[<c0138819>] kmem_cache_free+0x49/0x50
[<c0161c99>] destroy_inode+0x29/0x30
[<c0161ecf>] dispose_list+0x1f/0x80
[<c01621f3>] prune_icache+0xb3/0x210
[<c0162367>] shrink_icache_memory+0x17/0x20
[<c013a6be>] shrink_slab+0x13e/0x1a0
[<c013bb00>] balance_pgdat+0x1d0/0x270
[<c013bc65>] kswapd+0xc5/0xd0
[<c0117110>] autoremove_wake_function+0x0/0x50
[<c0117110>] autoremove_wake_function+0x0/0x50
```

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```
[<c013bba0>] kswapd+0x0/0xd0  
[<c0102045>] kernel_thread_helper+0x5/0x10  
Code: 89 50 04 89 02 8b 43 0c c7 03 00 01 10 00 31 d2 c7 43 04 00
```

```
>>EIP; c01382d8 <free_block+78/f0> <=====  
Code; c01382d8 <free_block+78/f0>  
00000000 <_EIP>:  
Code; c01382d8 <free_block+78/f0> <=====  
0: 89 50 04 mov %edx,0x4(%eax) <=====  
Code; c01382db <free_block+7b/f0>  
3: 89 02 mov %eax,(%edx)  
Code; c01382dd <free_block+7d/f0>  
5: 8b 43 0c
```

```
#  
# IPMI  
#  
# CONFIG_IPMI_HANDLER is not set  
  
#  
# Watchdog Cards  
#  
# CONFIG_WATCHDOG is not set  
# CONFIG_HW_RANDOM is not set  
# CONFIG_NVRAM is not set  
CONFIG_RTC=y  
# CONFIG_DTLK is not set  
# CONFIG_R3964 is not set  
# CONFIG_APPLICOM is not set  
# CONFIG_SONYPI is not set  
  
#  
# Ftape, the floppy tape device driver  
#  
# CONFIG_FTAPPE is not set  
# CONFIG_AGP is not set  
# CONFIG_DRM is not set  
# CONFIG_MWAVE is not set  
# CONFIG_RAW_DRIVER is not set  
# CONFIG_HANGCHECK_TIMER is not set  
  
#  
# I2C support  
#  
# CONFIG_I2C is not set  
  
#  
# Misc devices  
#  
# CONFIG_IBM_ASM is not set
```

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```
#  
# Multimedia devices  
#  
# CONFIG_VIDEO_DEV is not set  
  
#  
# Digital Video Broadcasting Devices  
#  
# CONFIG_DVB is not set  
  
#  
# Graphics support  
#  
# CONFIG_FB is not set  
# CONFIG_VIDEO_SELECT is not set  
  
#  
# Console display driver support  
#  
CONFIG_VGA_CONSOLE=y  
# CONFIG_MDA_CONSOLE is not set  
CONFIG_DUMMY_CONSOLE=y  
  
#  
# Sound  
#  
# CONFIG_SOUND is not set  
  
#  
# USB support  
#  
CONFIG_USB=y  
# CONFIG_USB_DEBUG is not set  
  
#  
# Miscellaneous USB options  
#  
CONFIG_USB_DEVICEFS=y  
# CONFIG_USB_BANDWIDTH is not set  
# CONFIG_USB_DYNAMIC_MINORS is not set  
  
#  
# USB Host Controller Drivers  
#  
# CONFIG_USB_EHCI_HCD is not set  
# CONFIG_USB_OHCI_HCD is not set  
CONFIG_USB_UHCI_HCD=y  
  
#  
# USB Device Class drivers  
#
```

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```
# CONFIG_USB_BLUETOOTH_TTY is not set
# CONFIG_USB_ACM is not set
CONFIG_USB_PRINTER=y
# CONFIG_USB_STORAGE is not set

#
# USB Human Interface Devices (HID)
#
CONFIG_USB_HID=y
CONFIG_USB_HIDINPUT=y
# CONFIG_HID_FF is not set
# CONFIG_USB_HIDDEV is not set
# CONFIG_USB_AIPTEK is not set
# CONFIG_USB_WACOM is not set
# CONFIG_USB_KBTAB is not set
# CONFIG_USB_POWERMATE is not set
# CONFIG_USB_MTOUCH is not set
# CONFIG_USB_EGALAX is not set
# CONFIG_USB_XPAD is not set
# CONFIG_USB_ATI_REMOTE is not set

#
# USB Imaging devices
#
# CONFIG_USB_MDC800 is not set
# CONFIG_USB_MICROTEK is not set
# CONFIG_USB_HPUSBSCSI is not set

#
# USB Multimedia devices
#
# CONFIG_USB_DABUSB is not set

#
# Video4Linux support is needed for USB Multimedia device support
#

#
# USB Network adaptors
#
# CONFIG_USB_CATC is not set
# CONFIG_USB_KAWETH is not set
# CONFIG_USB_PEGASUS is not set
# CONFIG_USB_RTL8150 is not set
# CONFIG_USB_USBNET is not set

#
# USB port drivers
#
# CONFIG_USB_USS720 is not set
```

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```
#
# USB Serial Converter support
#
# CONFIG_USB_SERIAL is not set

#
# USB Miscellaneous drivers
#
# CONFIG_USB_EMI62 is not set
# CONFIG_USB_EMI26 is not set
# CONFIG_USB_TIGL is not set
# CONFIG_USB_AUERSWALD is not set
# CONFIG_USB_RIO500 is not set
# CONFIG_USB_LEGOTOWER is not set
# CONFIG_USB_LCD is not set
# CONFIG_USB_LED is not set
# CONFIG_USB_CYTHERM is not set
# CONFIG_USB_PHIDGETSERVO is not set
# CONFIG_USB_TEST is not set

#
# USB Gadget Support
#
# CONFIG_USB_GADGET is not set

#
# File systems
#
CONFIG_EXT2_FS=y
# CONFIG_EXT2_FS_XATTR is not set
# CONFIG_EXT3_FS is not set
# CONFIG_JBD is not set
CONFIG_REISERFS_FS=y
# CONFIG_REISERFS_CHECK is not set
# CONFIG_REISERFS_PROC_INFO is not set
# CONFIG_REISERFS_FS_XATTR is not set
# CONFIG_JFS_FS is not set
# CONFIG_XFS_FS is not set
# CONFIG_MINIX_FS is not set
# CONFIG_ROMFS_FS is not set
# CONFIG_QUOTA is not set
# CONFIG_AUTOFS_FS is not set
# CONFIG_AUTOFS4_FS is not set

#
# CD-ROM/DVD
```