

## Fake ext3 corruption on raid5 in 2.6 .9 smp

**Source:** <http://linux.derkeiler.com/Mailing-Lists/Kernel/2005-05/5540.html>

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To: [linux-kernel@vger.kernel.org](mailto:linux-kernel@vger.kernel.org)

Hello,

I've encountered the following strangeness with a newly installed box. This box was not previously running Linux, but has been carefully tested with memtest86, cpuburn, and some smalls scripts of mine. So hardware failure may be excluded at first.

The box is an asus a7m266D with dual athlon-MP (true MP), 2Go RAM, and the raid 5 set is build on 4 maxtor 160Go connected to 2 additional sil0680 ata133 IDE controllers.

I use dm aes encryption over software raid5, and under heavy load, I get theses error messages, and the partition is remounted ro:

```
8<--
```

```
EXT3-fs error (device dm-6): ext3_readdir: bad entry in directory
#20515395: rec_len % 4 != 0 - offset=0, inode=1605429031, rec_len=14026,
name_len=177
```

```
Aborting journal on device dm-6.
```

```
ext3_abort called.
```

```
EXT3-fs error (device dm-6): ext3_journal_start_sb: Detected aborted journal
```

```
Remounting filesystem read-only
```

```
EXT3-fs error (device dm-6) in start_transaction: Journal has aborted
(repeated 3 times)
```

```
EXT3-fs error (device dm-6) in ext3_ordered_writepage: IO failure
```

```
EXT3-fs error (device dm-6) in start_transaction: Journal has aborted
(repeated 53 times)
```

```
__journal_remove_journal_head: freeing b_committed_data (repeated 5 times)
```

```
-->8
```

It is easily reproducible.

fsck show no error, no hardware related message found in dmesg, the raid set is not marked as bad, no reconstruction needed. I just remount the partition rw, and now try to keep the box out of pressure.

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Googling around I found these threads, but it does not contain a conclusion:

<http://marc.theaimsgroup.com/?l=linux-kernel&m=107913912311421&w=2>

and

<http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=+295657>

The kernel is patched with grsec, I have disabled it all but same behaviour occur, maybe a vanilla will change something, but previous links show same error on non-grsec kernel.

attached is my .config and boot-time dmesg.

```
#
# Automatically generated make config: don't edit
# Linux kernel version: 2.6.11.9-data1-20050520
# Fri May 20 17:28:14 2005
#
CONFIG_X86=y
CONFIG_MMU=y
CONFIG_UID16=y
CONFIG_GENERIC_ISA_DMA=y
CONFIG_GENERIC_IOMAP=y

#
# Code maturity level options
#
CONFIG_EXPERIMENTAL=y
# CONFIG_CLEAN_COMPILE is not set
CONFIG_BROKEN=y
CONFIG_BROKEN_ON_SMP=y
CONFIG_LOCK_KERNEL=y

#
# General setup
CONFIG_SCTP_HMAC_MD5=y
CONFIG_ATM=y
CONFIG_ATM_CLIP=y
# CONFIG_ATM_CLIP_NO_ICMP is not set
CONFIG_ATM_LANE=m
CONFIG_ATM_MPOA=m
CONFIG_ATM_BR2684=m
# CONFIG_ATM_BR2684_IPFILTER is not set
CONFIG_BRIDGE=m
CONFIG_VLAN_8021Q=m
CONFIG_DECNET=m
# CONFIG_DECNET_ROUTER is not set
CONFIG_LLC=y
CONFIG_LLC2=m
```

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```
CONFIG_IPX=m
# CONFIG_IPX_INTERN is not set
CONFIG_ATALK=m
CONFIG_DEV_APPLETALK=y
CONFIG_LTPC=m
CONFIG_COPS=m
CONFIG_COPS_DAYNA=y
CONFIG_COPS_TANGENT=y
CONFIG_IPDDP=m
CONFIG_IPDDP_ENCAP=y
CONFIG_IPDDP_DECAP=y
CONFIG_X25=m
CONFIG_LAPB=m
# CONFIG_NET_DIVERT is not set
CONFIG_ECONET=m
CONFIG_ECONET_AUNUDP=y
CONFIG_ECONET_NATIVE=y
CONFIG_WAN_ROUTER=m

#
# QoS and/or fair queueing
#
CONFIG_NET_SCHED=y
CONFIG_NET_SCH_CLK_JIFFIES=y
# CONFIG_NET_SCH_CLK_GETTIMEOFDAY is not set
# CONFIG_NET_SCH_CLK_CPU is not set
CONFIG_NET_SCH_CBQ=m
CONFIG_NET_SCH_HTB=m
CONFIG_NET_SCH_HFSC=m
CONFIG_NET_SCH_ATM=m
CONFIG_NET_SCH_PRIO=m
CONFIG_NET_SCH_RED=m
CONFIG_NET_SCH_SFQ=m
CONFIG_NET_SCH_TEQL=m
CONFIG_NET_SCH_TBF=m
CONFIG_NET_SCH_GRED=m
CONFIG_NET_SCH_DSMARK=m
CONFIG_NET_SCH_NETEM=m
CONFIG_NET_SCH_INGRESS=m
CONFIG_NET_QOS=y
CONFIG_NET_ESTIMATOR=y
CONFIG_NET_CLS=y
CONFIG_NET_CLS_TCINDEX=m
CONFIG_NET_CLS_ROUTE4=m
CONFIG_NET_CLS_ROUTE=y
CONFIG_NET_CLS_FW=m
CONFIG_NET_CLS_U32=m
# CONFIG_CLS_U32_PERF is not set
# CONFIG_NET_CLS_IND is not set
# CONFIG_CLS_U32_MARK is not set
CONFIG_NET_CLS_RSVP=m
```

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```
CONFIG_NET_CLS_RSVP6=m
# CONFIG_NET_CLS_ACT is not set
CONFIG_NET_CLS_POLICE=y

#
# Network testing
#
CONFIG_NET_PKTGEN=m
CONFIG_NETPOLL=y
# CONFIG_NETPOLL_RX is not set
# CONFIG_NETPOLL_TRAP is not set
CONFIG_NET_POLL_CONTROLLER=y
CONFIG_HAMRADIO=y

#
# Packet Radio protocols
#
CONFIG_AX25=m
# CONFIG_AX25_DAMA_SLAVE is not set
CONFIG_NETROM=m
CONFIG_ROSE=m

#
# AX.25 network device drivers
#
# CONFIG_MKISS is not set
# CONFIG_6PACK is not set
CONFIG_BPQETHER=m
# CONFIG_DMASCC is not set
CONFIG_SCC=m
# CONFIG_SCC_DELAY is not set
# CONFIG_SCC_TRXECHO is not set
CONFIG_BAYCOM_SER_FDX=m
CONFIG_BAYCOM_SER_HDX=m
CONFIG_BAYCOM_PAR=m
CONFIG_BAYCOM_EPP=m
CONFIG_YAM=m
CONFIG_IRDA=m

#
# IrDA protocols
#
CONFIG_IRLAN=m
CONFIG_IRNET=m
CONFIG_IRCOMM=m
# CONFIG_IRDA_ULTRA is not set

#
# IrDA options
#
CONFIG_IRDA_CACHE_LAST_LSAP=y
```

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```
CONFIG_IRDA_FAST_RR=y
CONFIG_IRDA_DEBUG=y

#
# Infrared-port device drivers
#

#
# SIR device drivers
#
CONFIG_IRTTY_SIR=m

#
# Dongle support
#
CONFIG_DONGLE=y
CONFIG_ESI_DONGLE=m
CONFIG_ACTISYS_DONGLE=m
CONFIG_TEKRAM_DONGLE=m
CONFIG_LITELINK_DONGLE=m
CONFIG_MA600_DONGLE=m
CONFIG_GIRBIL_DONGLE=m
CONFIG_MCP2120_DONGLE=m
CONFIG_OLD_BELKIN_DONGLE=m
CONFIG_ACT200L_DONGLE=m

#
# Old SIR device drivers
#
# CONFIG_IRPORT_SIR is not set

#
# Old Serial dongle support
#

#
# FIR device drivers
#
CONFIG_USB_IRDA=m
CONFIG_SIGMATEL_FIR=m
CONFIG_NSC_FIR=m
CONFIG_WINBOND_FIR=m
CONFIG_TOSHIBA_FIR=m
CONFIG_SMC_IRCC_FIR=m
CONFIG_ALI_FIR=m
CONFIG_VLSI_FIR=m
CONFIG_VIA_FIR=m
CONFIG_BT=m
CONFIG_BT_L2CAP=m
CONFIG_BT_SCO=m
CONFIG_BT_RFCOMM=m
```

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```
CONFIG_BT_RFCOMM_TTY=y  
CONFIG_BT_BNEP=m  
CONFIG_BT_BNEP_MC_FILTER=y  
CONFIG_BT_BNEP_PROTO_FILTER=y  
CONFIG_BT_CMTP=m  
CONFIG_BT_HIDP=m
```

```
#
```

```
# Bluetooth device drivers
```

```
#
```

```
CONFIG_BT_HCIUSB=m  
CONFIG_BT_HCIUSB_SCO=y  
CONFIG_BT_HCIUART=m  
CONFIG_BT_HCIUART_H4=y  
CONFIG_BT_HCIUART_BCSP=y
```