

## DragonFlyBSD - Bug #1504

### hammer crash on cleanups

09/14/2009 08:39 AM - corecode

<b>Status:</b>	Closed	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	tuxillo	<b>% Done:</b>	0%
<b>Category:</b>	VFS subsystem	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	3.8.0		
<b>Description</b>			
Redirecting to bugs@			
Eugene wrote:			
> Hello All.			
> I've got a time-to-time reproducible panic while running cleanups on a			
> mirror built with hammer mirror-stream.			
> I'm running a system built on -DEVELOPMENT sources from August, 9th			
> (uses SILI device) and a following system layout:			
>			
> /dev/da0s1a / ufs rw 1 1			
> /dev/da0s2b none swap sw 0 0			
> /dev/da0s2h /HAMMER0 hammer rw 2 2			
> /HAMMER0/pfs/var /var null rw 2 2			
> /dev/da1s1a /mirror ufs rw 1 1 # not used			
> /dev/da1s2b none swap sw 0 0			
> /dev/da1s2h /HAMMER1 hammer rw 2 2			
> /HAMMER1/pfs/var /mirrorvar null rw 2 2			
> proc /proc procfs rw 0 0			
>			
> A kernel panic occurs on running daily cleanups on a slave part of			
> mirror and I managed to reproduce it manually while executing %hammer			
> reblock and %hammer rebalance commands on a slave pfs after a day or two			
> of uptime.			
> When running %hammer cleanup immediately after system boot-up, it always			
> runs fine and resumes with no error.			
> I've attached a screenshot of a latest panic I've got while running			
> cleanup.			
>			
> If there can be any solution for this problem?			
Which kernel version are you running? Please post a uname -a output.			
Also, please configure a dumpdev and capture a crash dump.			
cheers			
simon			

### History

#### #1 - 09/14/2009 02:51 PM - dfuser

Thank You for reply.

Here it is:

DragonFly diana.medcom.com.ua 2.3.2-DEVELOPMENT DragonFly  
2.3.2-DEVELOPMENT #0: Sun Aug 9 16:51:26 GMT 2009  
[root@diana.medcom.com.ua](mailto:root@diana.medcom.com.ua):/usr/obj/usr/src/sys/CUSTOM i386

The system was upgraded from DragonFly 1.8-Release.

> Also, please configure a dumpdev and capture a crash dump.

O.K. Now I have to wait a number of days to get panic again.

;

## #2 - 09/14/2009 03:43 PM - corecode

Eugene (via DragonFly issue tracker) wrote:  
> Eugene <[dfuser@medcom.com.ua](mailto:dfuser@medcom.com.ua)> added the comment:  
>  
> Thank You for reply.  
>  
> Here it is:  
> DragonFly diana.medcom.com.ua 2.3.2-DEVELOPMENT DragonFly  
> 2.3.2-DEVELOPMENT #0: Sun Aug 9 16:51:26 GMT 2009  
> [root@diana.medcom.com.ua](mailto:root@diana.medcom.com.ua):/usr/obj/usr/src/sys/CUSTOM i386  
>  
> The system was upgraded from DragonFly 1.8-Release.  
>> Also, please configure a dumpdev and capture a crash dump.  
>  
> O.K. Now I have to wait a number of days to get panic again.  
> ;(

Best update to latest master, there were many fixes since August.

cheers  
simon

## #3 - 09/15/2009 10:58 AM - dfuser

Hello again.

Before updating I've decided to run %hammer reblock on a slave pfs with %hammer reblock /mirrorvar without remounting it before executing a command and got next (reported with kgdb):

Unread portion of the kernel message buffer:  
panic: assertion: cursor->trans->sync\_lock\_refs > 0 in hammer\_recover\_cursor  
Trace beginning at frame 0xd743e714  
panic(d743e738,d743e7b8,d743e89c,d743e814,d743e744) at panic+0x8c  
panic(c059aed8,c060299c,c05826fc,d743e7b8,d743e9ac) at panic+0x8c  
hammer\_recover\_cursor(d743e7b8,0,0,5,d743e778) at hammer\_recover\_cursor+0x2c  
hammer\_ioc\_mirror\_write(d743ea84,d2c52550,c2a72998,c2b13fa8,1) at  
hammer\_ioc\_mirror\_write+0x928  
hammer\_ioctl(d2c52550,c0c46808,c2a72998,1,c29a7768) at hammer\_ioctl+0x8f2  
hammer\_vop\_ioctl(d743eae0,c0664560,c2ae8b50,d60e9b00,46) at  
hammer\_vop\_ioctl+0x2f  
vop\_ioctl(c2ae8b50,c2b13fa8,c0c46808,c2a72998,1) at vop\_ioctl+0x38  
vn\_ioctl(d0291148,c0c46808,c2a72998,c29a7768,d0291148) at vn\_ioctl+0xdd  
mapped\_ioctl(3,c0c46808,bfbff794,0,d743ed34) at mapped\_ioctl+0x3e1  
sys\_ioctl(d743ecf0,6,24de3699,0,d2aecfd8) at sys\_ioctl+0x16  
syscall2(d743ed40) at syscall2+0x1ef  
Xint0x80\_syscall() at Xint0x80\_syscall+0x36  
(kgdb) backtrace  
#0 dumpsys () at ./machine/thread.h:83  
#1 0xc0332666 in boot (howto=260) at /usr/src/sys/kern/kern\_shutdown.c:375  
#2 0xc0332787 in panic (fmt=0xc059e8fc "from debugger")  
at /usr/src/sys/kern/kern\_shutdown.c:801  
#3 0xc0182745 in db\_panic (addr=-1068281776, have\_addr=0, count=-1,  
modif=0xd743e5c4 "") at /usr/src/sys/ddb/db\_command.c:447

```

#4 0xc0182db0 in db_command_loop () at /usr/src/sys/ddb/db_command.c:343
#5 0xc0185380 in db_trap (type=3, code=0) at /usr/src/sys/ddb/db_trap.c:71
#6 0xc05351bc in kdb_trap (type=3, code=0, regs=0xd743e6c0)
at /usr/src/sys/platform/pc32/i386/db_interface.c:152
#7 0xc0543693 in trap (frame=0xd743e6c0)
at /usr/src/sys/platform/pc32/i386/trap.c:797
#8 0xc0535ef7 in calltrap ()
at /usr/src/sys/platform/pc32/i386/exception.s:785
#9 0xc0535050 in Debugger (msg=0xc05b6499 "panic") at ./cpu/cpufunc.h:73
#10 0xc033277e in panic (fmt=0xc059aed8 "assertion: %s in %s")
at /usr/src/sys/kern/kern_shutdown.c:799
#11 0xc04a1dc4 in hammer_recover_cursor (cursor=0xd743e7b8)
at /usr/src/sys/vfs/hammer/hammer_cursor.c:582
#12 0xc04ab39d in hammer_ioc_mirror_write (trans=0xd743ea84, ip=0xd2c52550,
mirror=0xc2a72998) at /usr/src/sys/vfs/hammer/hammer_mirror.c:457
#13 0xc04aa686 in hammer_ioctl (ip=0xd2c52550, com=3234097160,
data=0xc2a72998 "", fflag=1, cred=0xc29a7768)
at /usr/src/sys/vfs/hammer/hammer_ioctl.c:134
#14 0xc04ba16d in hammer_vop_ioctl (ap=0xd743eae0)
at /usr/src/sys/vfs/hammer/hammer_vnops.c:2191
#15 0xc0387c4e in vop_ioctl (ops=0xc2ae8b50, vp=0xc2b13fa8,
command=3234097160, data=0xc2a72998 "", fflag=1, cred=0xc29a7768)
at /usr/src/sys/kern/vfs_vopops.c:372
#16 0xc0387018 in vn_ioctl (fp=0xd0291148, com=3234097160,
data=0xc2a72998 "",
ucred=0xc29a7768) at /usr/src/sys/kern/vfs_vnops.c:1120
#17 0xc035295b in mapped_ioctl (fd=3, com=3234097160,
uspc_data=0xbfbff794 <Address 0xbfbff794 out of bounds>, map=0x0)
at /usr/src/sys/sys/file2.h:87
#18 0xc03529e3 in sys_ioctl (uap=0xd743ecf0)
at /usr/src/sys/kern/sys_generic.c:525
#19 0xc0543033 in syscall2 (frame=0xd743ed40)
at /usr/src/sys/platform/pc32/i386/trap.c:1339
#20 0xc0535fa6 in Xint0x80_syscall ()
at /usr/src/sys/platform/pc32/i386/exception.s:876
#21 0x080552d7 in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
(kgdb) list *0xc04a1dc4
0xc04a1dc4 is in hammer_recover_cursor
(/usr/src/sys/vfs/hammer/hammer_cursor.c:587).
582     KKASSERT(cursor->trans->sync_lock_refs > 0);
583
584     /*
585     * Wait for the deadlock to clear
586     */
587     if (cursor->deadlk_node) {
588         hammer_lock_ex_ident(&cursor->deadlk_node->lock,
"hmrdlk");
589         hammer_unlock(&cursor->deadlk_node->lock);
590         hammer_rel_node(cursor->deadlk_node);
591         cursor->deadlk_node = NULL;
(kgdb) list *0xc04ab39d
0xc04ab39d is in hammer_ioc_mirror_write
(/usr/src/sys/vfs/hammer/hammer_mirror.c:458).
453     * for the next loop.
454     */
455     if (error == EDEADLK) {
456         while (error == EDEADLK) {
457             hammer_recover_cursor(&cursor);
458             error =
hammer_cursor_upgrade(&cursor);
459         }
460     } else {
461         if (error == EALREADY)
462             error = 0;
(kgdb) list *0xc04aa686
0xc04aa686 is in hammer_ioctl (/usr/src/sys/vfs/hammer/hammer_ioctl.c:134).
129     (struct hammer_ioc_mirror_rw
*)data);
130     }
131     break;
132     case HAMMERIOC_MIRROR_WRITE:
133     if (error == 0) {
134         error = hammer_ioc_mirror_write(&trans, ip,
135     (struct hammer_ioc_mirror_rw

```

```

*)data);
136     }
137     break;
138     case HAMMERIOC_GET_VERSION:
(kgdb) list *0xc04ba16d
0xc04ba16d is in hammer_vop_ioctl
(/usr/src/sys/vfs/hammer/hammer_vnops.c:2193).
2188     struct hammer_inode *ip = ap->a_vp->v_data;
2189
2190     ++hammer_stats_file_iosr;
2191     return(hammer_ioctl(ip, ap->a_command, ap->a_data,
2192         ap->a_fflag, ap->a_cred));
2193 }
2194
2195 static
2196 int
2197 hammer_vop_mountctl(struct vop_mountctl_args *ap)
(kgdb) list *0xc0387c4e
0xc0387c4e is in vop_ioctl (/usr/src/sys/kern/vfs_vopops.c:374).
369     ap.a_fflag = fflag;
370     ap.a_cred = cred;
371
372     DO_OPS(ops, error, &ap, vop_ioctl);
373     return(error);
374 }
375
376 int
377 vop_poll(struct vop_ops *ops, struct vnode *vp, int events,
struct ucred *cred)
378 {
(kgdb) list *0xc0387018
0xc0387018 is in vn_ioctl (/usr/src/sys/kern/vfs_vnops.c:1120).
1115     }
1116     *(int *)data = dev_dflags(vp->v_rdev) &
D_TPEMASK;
1117     error = 0;
1118     break;
1119 }
1120     error = VOP_IOCTL(vp, com, data, fp->f_flag, ucred);
1121     if (error == 0 && com == TIOCSCTTY) {
1122         struct proc *p = curthread->td_proc;
1123         struct session *sess;
1124
(kgdb)

```

> Best update to latest master, there were many fixes since August.  
Now I'm planning to start updating the system and watch if crashes will  
go on. Please tell, what can I dig from crash dumps more, or how to send  
those dumps to You?

#### #4 - 09/16/2009 08:50 AM - dfuser

Hello again.

Now I've an updated kernel with sources from 13-sep-2009:  
DragonFly diana.medcom.com.ua 2.3.2-DEVELOPMENT DragonFly  
2.3.2-DEVELOPMENT #1: Tue Sep 15 17:23:22 EEST 2009  
[root@diana.medcom.com.ua](mailto:root@diana.medcom.com.ua):/usr/obj/usr/src/sys/CUSTOM i386

but the "panic" message greeted me this morning:

```
panic: assertion: cursor->trans->sync_lock_refs > 0 in hammer_recover_cursor
Trace beginning at frame 0xd75ca708
panic(d75ca72c,d75ca7a8,d75ca88c,d75ca804,d75ca738) at panic+0x8c
panic(c05ac924,c0617e20,c059441c,d75ca7a8,d75ca99c) at panic+0x8c
hammer_recover_cursor(d75ca7a8,b,8,d75ca768,c04acd05) at
hammer_recover_cursor+0x2c
hammer_ioc_mirror_write(d75caa74,d2d28550,c2a727f8,d75ca9d8,c0394328) at
hammer_ioc_mirror_write+0x947
hammer_ioctl(d2d28550,c0c46808,c2a727f8,1,c29a7768) at hammer_ioctl+0x8f8
hammer_vop_ioctl(d75caad0,c067a1e0,d4ae7050,d75caaec,c0345eaa) at
hammer_vop_ioctl+0x2f
vop_ioctl(d4ae7050,c2b145e8,c0c46808,c2a727f8,1) at vop_ioctl+0x3e
vn_ioctl(d0291928,c0c46808,c2a727f8,c29a7768,d75cacf0) at vn_ioctl+0xe0
mapped_ioctl(3,c0c46808,bfbffa14,0,d75cacf0) at mapped_ioctl+0x3e7
sys_ioctl(d75cacf0,6,1b88a2c3,0,d2aed218) at sys_ioctl+0x17
syscall2(d75cad40) at syscall2+0x1ef
Xint0x80_syscall() at Xint0x80_syscall+0x36
Debugger("panic")
```

a partly backtrace is:

```
#11 0xc04b0f8c in hammer_recover_cursor (cursor=0xd75ca7a8)
at /usr/src/sys/vfs/hammer/hammer_cursor.c:591
591      KKASSERT(cursor->trans->sync_lock_refs > 0);
(kgdb) list
586  hammer_recover_cursor(hammer_cursor_t cursor)
587  {
588      int error;
589
590      hammer_unlock_cursor(cursor);
591      KKASSERT(cursor->trans->sync_lock_refs > 0);
592
593      /*
594       * Wait for the deadlock to clear
595       */
```

```
(kgdb) print cursor
$1 = (hammer_cursor_t) 0xd75ca7a8
(kgdb) print cursor->trans
$2 = (hammer_transaction_t) 0xd75caa74
(kgdb) print cursor->trans->sync_lock_refs
$3 = 0
```

```
#12 0xc04ba517 in hammer_ioc_mirror_write (trans=0xd75caa74, ip=0xd2d28550,
mirror=0xc2a727f8) at /usr/src/sys/vfs/hammer/hammer_mirror.c:469
469      hammer_recover_cursor(&cursor);
(kgdb) list
464      * Retry the current record on deadlock,
otherwise setup
465      * for the next loop.
466      */
467      if (error == EDEADLK) {
468          while (error == EDEADLK) {
469              hammer_recover_cursor(&cursor);
470              error =
hammer_cursor_upgrade(&cursor);
471          }
472      } else {
473          if (error == EALREADY)
```

```
#13 0xc04b97dc in hammer_ioctl (ip=0xd2d28550, com=3234097160,
data=0xc2a727f8 "", fflag=1, cred=0xc29a7768)
at /usr/src/sys/vfs/hammer/hammer_ioctl.c:134
134      error = hammer_ioc_mirror_write(&trans, ip,
```

```

(kgdb) list
129             (struct hammer_ioc_mirror_rw
*)data);
130         }
131         break;
132     case HAMMERIOC_MIRROR_WRITE:
133         if (error == 0) {
134             error = hammer_ioc_mirror_write(&trans, ip,
135             (struct hammer_ioc_mirror_rw
*)data);
136         }
137         break;
138     case HAMMERIOC_GET_VERSION:

```

```

#14 0xc04c94de in hammer_vop_ioctl (ap=0xd75caad0)
at /usr/src/sys/vfs/hammer/hammer_vnops.c:2305
2305     return(hammer_ioctl(ip, ap->a_command, ap->a_data,

```

```

(kgdb) list
2300     hammer_vop_ioctl(struct vop_ioctl_args *ap)
2301     {
2302         struct hammer_inode *ip = ap->a_vp->v_data;
2303
2304         ++hammer_stats_file_iopsr;
2305         return(hammer_ioctl(ip, ap->a_command, ap->a_data,
2306         ap->a_fflag, ap->a_cred));
2307     }
2308

```

```

#15 0xc03940ae in vop_ioctl (ops=0xd4ae7050, vp=0xc2b145e8,
command=3234097160, data=0xc2a727f8 "", fflag=1, cred=0xc29a7768,
msg=0xd75cacf0) at /usr/src/sys/kern/vfs_vopops.c:376
376     DO_OPS(ops, error, &ap, vop_ioctl);

```

```

(kgdb) list
371     ap.a_data = data;
372     ap.a_fflag = fflag;
373     ap.a_cred = cred;
374     ap.a_sysmsg = msg;
375
376     DO_OPS(ops, error, &ap, vop_ioctl);
377     return(error);
378 }
379

```

```

#16 0xc0393bed in vn_ioctl (fp=0xd0291928, com=3234097160,
data=0xc2a727f8 "",
ucred=0xc29a7768, msg=0xd75cacf0) at /usr/src/sys/kern/vfs_vnops.c:938
938     error = VOP_IOCTL(vp, com, data, fp->f_flag,

```

```

ucred, msg);
(kgdb) list
933         }
934         *(int *)data = dev_dflags(vp->v_rdev) &
D_TPEMASK;
935         error = 0;
936         break;
937     }
938     error = VOP_IOCTL(vp, com, data, fp->f_flag,
ucred, msg);
939     if (error == 0 && com == TIOCSCTTY) {
940         struct proc *p = curthread->td_proc;
941         struct session *sess;

```

#5 - 09/16/2009 09:41 AM - dennis.melentyev

Hi!

I had something very similar on 95% full hammer FS with version of FS = 1.  
After upgrading it to v2 panics went away.

```
dennis@dfly (xterm) > uname -srip
DragonFly 2.3.1-DEVELOPMENT i386 GENERIC
As of 05/Jul/2009
```

Like:

```
# hammer version-upgrade /mnt/big_plate 2
```

Also here are some interesting lines in /var/log/messages, possibly indicating corrupted media:

```
Sep 16 01:22:42 dfly kernel: ad4: WARNING - WRITE_DMA UDMA ICRC error
(retrying request) LBA=92046464
Sep 16 01:26:18 dfly syslogd: kernel boot file is /boot/kernel
Sep 16 01:26:18 dfly kernel: ad4: FAILURE - device detached
Sep 16 01:26:18 dfly kernel: subdisk4: detached
Sep 16 01:26:18 dfly kernel: HAMMER(Share_Big): Critical error
inode=-1 while flushing meta-data
Sep 16 01:26:18 dfly kernel: HAMMER(Share_Big): Forcing read-only mode
Sep 16 01:26:18 dfly kernel: HAMMER(Share_Big): Critical error
inode=-1 while flushing meta-data
Sep 16 01:26:18 dfly last message repeated 6 times
Sep 16 01:26:18 dfly kernel: ad4: detached
.....
Sep 16 01:26:18 dfly kernel: Fatal trap 12: page fault while in kernel mode
Sep 16 01:26:18 dfly kernel: fault virtual address = 0xa4
Sep 16 01:26:18 dfly kernel: fault code = supervisor write,
page not present
.....
Sep 16 01:26:18 dfly kernel: processor eflags = interrupt enabled,
resume, IOPL = 0
Sep 16 01:26:18 dfly kernel: current process = Idle
Sep 16 01:26:18 dfly kernel: current thread = pri 46 (CRIT)
.....
Sep 16 01:26:18 dfly kernel:
Sep 16 01:26:18 dfly kernel: syncing disks... 439 HAMMER(Share_Big):
Critical error inode=-1 while flushing meta-data

2009/9/16 Eugene <dfuser@medcom.com.ua>:
> Hello again.
>
> Simon 'corecode' Schubert wrote:
>>
>> Best update to latest master, there were many fixes since August.
>
> Now I've an updated kernel with sources from 13-sep-2009:
> DragonFly diana.medcom.com.ua 2.3.2-DEVELOPMENT DragonFly 2.3.2-DEVELOPMENT
> #1: Tue Sep 15 17:23:22 EEST 2009
> root@diana.medcom.com.ua:/usr/obj/usr/src/sys/CUSTOM i386
>
> but the "panic" message greeted me this morning:
>
> panic: assertion: cursor->trans->sync_lock_refs > 0 in hammer_recover_cursor
> Trace beginning at frame 0xd75ca708
> panic(d75ca72c,d75ca7a8,d75ca88c,d75ca804,d75ca738) at panic+0x8c
> panic(c05ac924,c0617e20,c059441c,d75ca7a8,d75ca99c) at panic+0x8c
> hammer_recover_cursor(d75ca7a8,b,8,d75ca768,c04acd05) at
> hammer_recover_cursor+0x2c
> hammer_ioc_mirror_write(d75caa74,d2d28550,c2a727f8,d75ca9d8,c0394328) at
> hammer_ioc_mirror_write+0x947
> hammer_ioctl(d2d28550,c0c46808,c2a727f8,1,c29a7768) at hammer_ioctl+0x8f8
> hammer_vop_ioctl(d75caad0,c067a1e0,d4ae7050,d75caaec,c0345eaa) at
> hammer_vop_ioctl+0x2f
> vop_ioctl(d4ae7050,c2b145e8,c0c46808,c2a727f8,1) at vop_ioctl+0x3e
> vn_ioctl(d0291928,c0c46808,c2a727f8,c29a7768,d75cacf0) at vn_ioctl+0xe0
> mapped_ioctl(3,c0c46808,bfbfa14,0,d75cacf0) at mapped_ioctl+0x3e7
> sys_ioctl(d75cacf0,6,1b88a2c3,0,d2aed218) at sys_ioctl+0x17
> syscall2(d75cad40) at syscall2+0x1ef
> Xint0x80_syscall() at Xint0x80_syscall+0x36
```

```

> Debugger("panic")
>
> a partly backtrace is:
>
> #11 0xc04b0f8c in hammer_recover_cursor (cursor=0xd75ca7a8)
> at /usr/src/sys/vfs/hammer/hammer_cursor.c:591
> 591      KKASSERT(cursor->trans->sync_lock_refs > 0);
> (kgdb) list
> 586  hammer_recover_cursor(hammer_cursor_t cursor)
> 587  {
> 588      int error;
> 589
> 590      hammer_unlock_cursor(cursor);
> 591      KKASSERT(cursor->trans->sync_lock_refs > 0);
> 592
> 593      /*
> 594      * Wait for the deadlock to clear
> 595      */
>
> (kgdb) print cursor
> $1 = (hammer_cursor_t) 0xd75ca7a8
> (kgdb) print cursor->trans
> $2 = (hammer_transaction_t) 0xd75caa74
> (kgdb) print cursor->trans->sync_lock_refs
> $3 = 0
>
> #12 0xc04ba517 in hammer_ioc_mirror_write (trans=0xd75caa74, ip=0xd2d28550,
> mirror=0xc2a727f8) at /usr/src/sys/vfs/hammer/hammer_mirror.c:469
> 469      hammer_recover_cursor(&cursor);
> (kgdb) list
> 464      * Retry the current record on deadlock, otherwise
> setup
> 465      * for the next loop.
> 466      */
> 467      if (error == EDEADLK) {
> 468          while (error == EDEADLK) {
> 469              hammer_recover_cursor(&cursor);
> 470              error =
> hammer_cursor_upgrade(&cursor);
> 471          }
> 472      } else {
> 473          if (error == EALREADY)
>
> #13 0xc04b97dc in hammer_ioctl (ip=0xd2d28550, com=3234097160,
> data=0xc2a727f8 "", fflag=1, cred=0xc29a7768)
> at /usr/src/sys/vfs/hammer/hammer_ioctl.c:134
> 134      error = hammer_ioc_mirror_write(&trans, ip,
> (kgdb) list
> 129      (struct hammer_ioc_mirror_rw
> *)data);
> 130      }
> 131      break;
> 132      case HAMMERIOC_MIRROR_WRITE:
> 133          if (error == 0) {
> 134              error = hammer_ioc_mirror_write(&trans, ip,
> 135              (struct hammer_ioc_mirror_rw
> *)data);
> 136          }
> 137          break;
> 138      case HAMMERIOC_GET_VERSION:
>
> #14 0xc04c94de in hammer_vop_ioctl (ap=0xd75caad0)
> at /usr/src/sys/vfs/hammer/hammer_vnops.c:2305
> 2305      return(hammer_ioctl(ip, ap->a_command, ap->a_data,
> (kgdb) list
> 2300      hammer_vop_ioctl(struct vop_ioctl_args *ap)
> 2301      {
> 2302          struct hammer_inode *ip = ap->a_vp->v_data;
> 2303
> 2304          ++hammer_stats_file_iopsr;
> 2305          return(hammer_ioctl(ip, ap->a_command, ap->a_data,
> 2306          ap->a_fflag, ap->a_cred));
> 2307      }
> 2308
>

```



```

> #15 0xc03940ae in vop_ioctl (ops=0xd4ae7050, vp=0xc2b145e8,
> command=3234097160, data=0xc2a727f8 "", fflag=1, cred=0xc29a7768,
> msg=0xd75cacf0) at /usr/src/sys/kern/vfs_vopops.c:376
> 376         DO_OPS(ops, error, &ap, vop_ioctl);
> (kgdb) list
> 371         ap.a_data = data;
> 372         ap.a_fflag = fflag;
> 373         ap.a_cred = cred;
> 374         ap.a_sysmsg = msg;
> 375
> 376         DO_OPS(ops, error, &ap, vop_ioctl);
> 377         return(error);
> 378     }
> 379
>
> #16 0xc0393bed in vn_ioctl (fp=0xd0291928, com=3234097160, data=0xc2a727f8
> "",
> ucred=0xc29a7768, msg=0xd75cacf0) at /usr/src/sys/kern/vfs_vnops.c:938
> 938         error = VOP_IOCTL(vp, com, data, fp->f_flag, ucred,
> msg);
> (kgdb) list
> 933     }
> 934     *(int *)data = dev_dflags(vp->v_rdev) &
> D_TYPEMASK;
> 935         error = 0;
> 936         break;
> 937     }
> 938     error = VOP_IOCTL(vp, com, data, fp->f_flag, ucred,
> msg);
> 939     if (error == 0 && com == TIOCSCTTY) {
> 940         struct proc *p = curthread->td_proc;
> 941         struct session *sess;
>
> --
> Sorry for my poor English.
>

```

#6 - 09/16/2009 09:44 AM - corecode

Eugene wrote:

> Hello again.  
>  
> Simon 'corecode' Schubert wrote:  
>> Best update to latest master, there were many fixes since August.  
> Now I've an updated kernel with sources from 13-sep-2009:  
> DragonFly diana.medcom.com.ua 2.3.2-DEVELOPMENT DragonFly  
> 2.3.2-DEVELOPMENT #1: Tue Sep 15 17:23:22 EEST 2009  
> [root@diana.medcom.com.ua](mailto:root@diana.medcom.com.ua):/usr/obj/usr/src/sys/CUSTOM i386

are you sure this is new code? because there is no version tag. uname should look like this these days:

```
DragonFly sweatshorts 2.3.2-DEVELOPMENT DragonFly  
v2.3.2.930.g702a9-DEVELOPMENT #39: Tue Sep 15 00:53:17 CEST 2009  
corecode@sweatshorts:/usr/obj/usr/src/sys/SWEATSHORTS i386
```

cheers  
simon

#### #7 - 09/16/2009 01:02 PM - dfuser

Hello.  
Dennis Melentyev wrote:  
> Hi!  
>  
> I had something very similar on 95% full hammer FS with version of FS = 1.  
> After upgrading it to v2 panics vent away.  
>  
> dennis@dfly (xterm) > uname -srip  
> DragonFly 2.3.1-DEVELOPMENT i386 GENERIC  
> As of 05/Jul/2009  
>  
> Like:  
> # hammer version-upgrade /mnt/big\_plate 2  
>  
> Also here are some interesting lines in /var/log/messages, possibly  
> indicating corrupted media:  
>  
>  
As I can understand, I have a 2nd version of filesystem:

```
diana# hammer version /mirrorvar  
min=1 wip=3 max=2 current=2 description="2.3 - New directory entry layout"  
available versions:  
1  NORM  2.0 - First HAMMER release  
2  NORM  2.3 - New directory entry layout
```

and the logfile has nothing indicating any disk problems. And the system has considerably small percent of space usage (3% after daily cleanup, about 15% before)

**#8 - 09/16/2009 01:05 PM - dfuser**

Sorry, I've updated not to a [src-master.tar.bz2 (15-Sep-2009 17:07)],  
but to [src-Devel.tar.bz2 (13-Sep-2009 15:05)].  
Now I'll try to re-update.

**#9 - 09/16/2009 01:23 PM - corecode**

Eugene (via DragonFly issue tracker) wrote:  
> Eugene <[dfuser@medcom.com.ua](mailto:dfuser@medcom.com.ua)> added the comment:  
>  
> Sorry, I've updated not to a [src-master.tar.bz2 (15-Sep-2009 17:07)],  
> but to [src-Devel.tar.bz2 (13-Sep-2009 15:05)].  
> Now I'll try to re-update.

Oh nevermind. The version output only works if you are using git (which you should)

cheers  
simon

**#10 - 09/16/2009 08:28 PM - dennis.melentyev**

Hi!

Ok, this means we have/had different problems. I've upgraded to latest  
master today (almost equal 2.4-Release). That's all I could help you.

Side note: Much better overall experience. No stalls on r10 interface  
(was not sure about the source of the problem) and smoother  
everything. Thanks, folks!

**#11 - 09/17/2009 01:07 AM - dillon**

:Hi!  
:  
:I had something very similar on 95% full hammer FS with version of FS =3D 1=  
:.  
:After upgrading it to v2 panics vent away.  
:  
:....  
:Also here are some interesting lines in /var/log/messages, possibly  
:indicating corrupted media:  
:  
:Sep 16 01:22:42 dfly kernel: ad4: WARNING - WRITE\_DMA UDMA ICRC error  
:(retrying request) LBA=3D92046464  
:Sep 16 01:26:18 dfly syslogd: kernel boot file is /boot/kernel  
:Sep 16 01:26:18 dfly kernel: ad4: FAILURE - device detached  
:Sep 16 01:26:18 dfly kernel: subdisk4: detached  
:Sep 16 01:26:18 dfly kernel: HAMMER(Share\_Big): Critical error  
:....  
:--=20  
:Dennis Melentyev

Gotta be two different things. Basically ad4 had a DMA error and  
detached and the HAMMER filesystem, being unable to write, threw a fit.

That would be an issue with NATA. HAMMER was just saving itself.

That sort of UDMA failure is usually indicative of an IDE wiring issue.

We did fix a bug in HAMMER related to very rare incorrect B-Tree deletions which would lead to lost inodes and potentially panics. Anything like that should no longer occur.

-Matt  
Matthew Dillon  
<[dillon@backplane.com](mailto:dillon@backplane.com)>

**#12 - 09/23/2009 10:37 PM - dennis.melentyev**

2009/9/17 Matthew Dillon <[dillon@apollo.backplane.com](mailto:dillon@apollo.backplane.com)>:

> :Hi!  
> :  
> :I had something very similar on 95% full hammer FS with version of FS =3D 1=  
> :.  
> :After upgrading it to v2 panics vent away.  
> :  
> :...  
> :Also here are some interesting lines in /var/log/messages, possibly  
> :indicating corrupted media:  
> :  
> :Sep 16 01:22:42 dfly kernel: ad4: WARNING - WRITE\_DMA UDMA ICRC error  
> :(retrying request) LBA=3D92046464  
> :Sep 16 01:26:18 dfly syslogd: kernel boot file is /boot/kernel  
> :Sep 16 01:26:18 dfly kernel: ad4: FAILURE - device detached  
> :Sep 16 01:26:18 dfly kernel: subdisk4: detached  
> :Sep 16 01:26:18 dfly kernel: HAMMER(Share\_Big): Critical error  
> :...  
> :--=20  
> :Dennis Melentyev  
> :  
> : Gotta be two different things. Basically ad4 had a DMA error and  
> : detached and the HAMMER filesystem, being unable to write, threw a fit.  
> : That would be an issue with NATA. HAMMER was just saving itself.  
> :  
> : That sort of UDMA failure is usually indicative of an IDE wiring  
> : issue.  
> :  
> : We did fix a bug in HAMMER related to very rare incorrect B-Tree  
> : deletions which would lead to lost inodes and potentially panics.  
> : Anything like that should no longer occur.  
> :  
> :  
> : -Matt  
> : Matthew Dillon  
> : <[dillon@backplane.com](mailto:dillon@backplane.com)>  
> :

Wiring was the one possibility, and underpowered drive could be just another (P4/2.4 with 3 HDD's on noname 300W PSU). Just realized that few days ago: mbmon's 12P had showed 10.5+ Volts until PSU was replaced with 400W one.

PS. That also saves my ears in the night, thanks to 120mm cooler :)

**#13 - 05/05/2011 10:17 AM - tuxillo**

Hi Dennis,

From your last email I would assume you fixed it by replacing either the wire or the PSU (or both). Is that correct?

Cheers,  
Antonio Huete

**#14 - 02/20/2014 07:29 AM - tuxillo**

- *Description updated*
- *Category set to VFS subsystem*
- *Assignee changed from 0 to tuxillo*
- *Target version set to 3.8.0*

Grab.

**#15 - 02/24/2014 07:27 AM - tuxillo**

- *Status changed from New to Closed*
- There was a fix by Matt for related issues.
- DMA errors that could indicate cable issues, if not problems in the drive itself.

Closing this one.