

DragonFlyBSD - Bug #3253

HAMMER2 on NFS server. "(nlock & MTX_MASK) != MTX_MASK"

11/03/2020 02:46 PM - yellowrabbit2010

Status:	Closed	Start date:	11/03/2020
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
<p>Hello, the client machine writes (not very fast, like 150Kb/s) data to the DragonFlyBSD NFS server with hammer2 partition. The server dies periodically (3-4 days). These crashes do not depend on the time of continuous work (I tried to reboot several times a day), but rather just a coincidence of some circumstances. I am using the master branch, radeon graphics driver with hardware acceleration is disabled. Crashes occur both when idle at night and when working during the day.</p> <p>Here are the last three files, they refer to different commits on the master, of course, but the error is the same.</p> <p>I have all the vmcore.? and kern.? files and I can put them wherever you specify.</p> <pre>===== kgdb -n 6 ===== Loaded symbols for /boot/kernel/radeonkmsfw_BONAIRE_vce.ko _get_mycpu () at ./machine/thread.h:69 69 __asm ("movq %%gs:globaldata,%0" : "=r" (gd) : "m"(__mycpu__dummy)); (kgdb) bt #0 _get_mycpu () at ./machine/thread.h:69 #1 panic (fmt=fmt@entry=0xffffffff80c25920 "assertion \"%s\" failed in %s at %s:%u") at /usr/src/sys/kern/kern_shutdown.c:868 #2 0xffffffff8066cf23 in _mtx_unlock (mtx=mtx@entry=0xffff8039daaa040) at /usr/src/sys/kern/kern_mutex.c:725 #3 0xffffffff809464b0 in mtx_unlock (mtx=0xffff8039daaa040) at /usr/src/sys/sys/mutex2.h:358 #4 mtx_lock_temp_release (mtx=0xffff8039daaa040) at /usr/src/sys/sys/mutex2.h:491 #5 hammer2_inode_lock_temp_release (ip=0xffff8039daa9fc0) at /usr/src/sys/vfs/hammer2/hammer2_inode.c:496 #6 hammer2_igetv (ip=ip@entry=0xffff8039daa9fc0, errorp=errorp@entry=0xffff8038047926c) at /usr/src/sys/vfs/hammer2/hammer2_inode.c:685 #7 0xffffffff8094fc24 in hammer2_vfs_vget (mp=<optimized out>, dvp=dvp@entry=0x0, ino=<optimized out>, ino@entry=14263250, vpp=vpp@entry=0xffff80380479388) at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:1911 #8 0xffffffff80950596 in hammer2_vfs_fhtovp (mp=<optimized out>, rootvp=<optimized out>, fhp=<optimized out>, vpp=0xffff80380479388) at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:2871 #9 0xffffffff807fc64f in nfsrv_fhtovp (fhp=fhp@entry=0xffff803804793c8, lockflag=lockflag@entry=1, mpp=mpp@entry=0xffff80380479390, vpp=vpp@entry=0xffff80380479388, cred=cred@entry=0xffff8039b2614e0, slp=slp@entry=0xffff8038057f240, nam=0xffff80157724070, rdonlyp=0xffff80380479384, kerbflag=0, pubflag=1) at /usr/src/sys/vfs/nfs/nfs_subs.c:1247 #10 0xffffffff807ef326 in nfsrv_write (nfsd=0xffff8039b261420, slp=0xffff8038057f240, td=<optimized out>, mrq=0xffff80380479708) at /usr/src/sys/vfs/nfs/nfs_serv.c:1089 #11 0xffffffff807fe23f in nfssvc_nfsd (td=<optimized out>, argp=<optimized out>, nsd=<optimized out>) at /usr/src/sys/vfs/nfs/nfs_syscalls.c:678 #12 sys_nfssvc (sysmsg=<optimized out>, uap=<optimized out>) at /usr/src/sys/vfs/nfs/nfs_syscalls.c:300</pre>			

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#13 0xffffffff80bc347e in syscall2 (frame=0xffffffff803804799f8)
at /usr/src/sys/platform/pc64/x86_64/trap.c:1284
#14 0xffffffff80b8664d in Xfast_syscall ()
at /usr/src/sys/platform/pc64/x86_64/exception.S:448
#15 0x000000000000002b in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
(kgdb)
=====

===== kgdb -n 4 =====
Loaded symbols for /boot/kernel/radeonkmsfw_BONAIRE_vce.ko
_get_mycpu () at ./machine/thread.h:69
69  __asm ("movq %%gs:globaldata,%0" : "=r" (gd) : "m"(__mycpu__dummy));
(kgdb)
(kgdb) bt
#0 _get_mycpu () at ./machine/thread.h:69
#1 panic (
fmt=fmt@entry=0xffffffff80c5ec30 "assertion \"%s\" failed in %s at %s:%u"
at /usr/src/sys/kern/kern_shutdown.c:868
#2 0xffffffff8066b973 in _mtx_unlock (mtx=mtx@entry=0xffffffff8031a395a40)
at /usr/src/sys/kern/kern_mutex.c:725
#3 0xffffffff809447c0 in mtx_unlock (mtx=0xffffffff8031a395a40)
at /usr/src/sys/sys/mutex2.h:358
#4 mtx_lock_temp_release (mtx=0xffffffff8031a395a40)
at /usr/src/sys/sys/mutex2.h:491
#5 hammer2_inode_lock_temp_release (ip=0xffffffff8031a3959c0)
at /usr/src/sys/vfs/hammer2/hammer2_inode.c:496
#6 hammer2_igetv (ip=ip@entry=0xffffffff8031a3959c0,
errorp=errorp@entry=0xffffffff8031312e22c)
at /usr/src/sys/vfs/hammer2/hammer2_inode.c:685
#7 0xffffffff8094de84 in hammer2_vfs_vget (mp=<optimized out>,
dvp=dvp@entry=0x0, ino=<optimized out>, ino@entry=14263012,
vpp=vpp@entry=0xffffffff8031312e348)
at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:1922
#8 0xffffffff8094e7c6 in hammer2_vfs_fhtovp (mp=<optimized out>,
rootvp=<optimized out>, fhp=<optimized out>, vpp=0xffffffff8031312e348)
at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:2895
#9 0xffffffff807fa90f in nfsrv_fhtovp (fhp=fhp@entry=0xffffffff8031312e388,
lockflag=lockflag@entry=1, mpp=mpp@entry=0xffffffff8031312e350,
vpp=vpp@entry=0xffffffff8031312e348, cred=cred@entry=0xffffffff80325a10660,
slp=slp@entry=0xffffffff8031312e348, nam=0xffffffff800e80a4130,
rdonlyp=0xffffffff8031312e344, kerbflag=0, pubflag=1)
at /usr/src/sys/vfs/nfs/nfs_subs.c:1232
#10 0xffffffff807ed7d6 in nfsrv_write (nfsd=0xffffffff80325a105a0,
slp=0xffffffff8031312e348, td=<optimized out>, mrq=0xffffffff8031312e6c8)
at /usr/src/sys/vfs/nfs/nfs_serv.c:1089
#11 0xffffffff807fc51f in nfssvc_nfsd (td=<optimized out>,
argp=<optimized out>, nsd=<optimized out>)
at /usr/src/sys/vfs/nfs/nfs_syscalls.c:678
#12 sys_nfssvc (uap=<optimized out>) at /usr/src/sys/vfs/nfs/nfs_syscalls.c:300
#13 0xffffffff80babbeb in syscall2 (frame=0xffffffff8031312e9f8)
at /usr/src/sys/platform/pc64/x86_64/trap.c:1319
#14 0xffffffff80b85d5d in Xfast_syscall ()
at /usr/src/sys/platform/pc64/x86_64/exception.S:450
#15 0x000000000000002b in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
(kgdb)
=====

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History

#1 - 11/18/2020 01:11 PM - yellowrabbit2010

- File core.txt.7 added

Master at commit 98dd7c40f68023d0feff672c7444e9c6bec0deb2
Diagnostics already looks different, but this is the same problem.

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===== kgdb -n 7 =====
_get_mycpu () at ./machine/thread.h:69
69  __asm ("movq %%gs:globaldata,%0" : "=r" (gd) : "m"(__mycpu__dummy));
(kgdb) bt
#0 _get_mycpu () at ./machine/thread.h:69
#1 panic (
fmt=fmt@entry=0xffffffff80c27220 "assertion \"%s\" failed in %s at %s:%u")
at /usr/src/sys/kern/kern_shutdown.c:868
#2 0xffffffff809485ea in mtx_unlock (mtx=<optimized out>)
at /usr/src/sys/sys/mutex2.h:348
#3  mtx_unlock (mtx=<optimized out>) at /usr/src/sys/sys/mutex2.h:343
#4  mtx_lock_temp_release (mtx=<optimized out>)
at /usr/src/sys/sys/mutex2.h:491
#5  hammer2_inode_lock_temp_release (ip=<optimized out>)
at /usr/src/sys/vfs/hammer2/hammer2_inode.c:496
#6  hammer2_igetv (ip=ip@entry=0xffffffff803a01b3ec0,
errorp=errorp@entry=0xffffffff801492eb26c)
at /usr/src/sys/vfs/hammer2/hammer2_inode.c:685
#7  0xffffffff809517f4 in hammer2_vfs_vget (mp=<optimized out>,
dvp=dvp@entry=0x0, ino=<optimized out>, ino@entry=14263586,
vpp=vpp@entry=0xffffffff801492eb388)
at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:1911
#8  0xffffffff80952166 in hammer2_vfs_fhtovp (mp=<optimized out>,
rootvp=<optimized out>, fhp=<optimized out>, vpp=0xffffffff801492eb388)
at /usr/src/sys/vfs/hammer2/hammer2_vfsops.c:2871
#9  0xffffffff807fe21f in nfsrv_fhtovp (fhp=fhp@entry=0xffffffff801492eb3c8,
lockflag=lockflag@entry=1, mpp=mpp@entry=0xffffffff801492eb390,
vpp=vpp@entry=0xffffffff801492eb388, cred=cred@entry=0xffffffff803a8caa660,
slp=slp@entry=0xffffffff8015f9577c0, nam=0xffffffff801572c55b0,
rdonlyp=0xffffffff801492eb384, kerbflag=0, pubflag=1)
at /usr/src/sys/vfs/nfs/nfs_subs.c:1247
#10 0xffffffff807f0ef6 in nfsrv_write (nfsd=0xffffffff803a8caa5a0,
slp=0xffffffff8015f9577c0, td=<optimized out>, mrq=0xffffffff801492eb708)
at /usr/src/sys/vfs/nfs/nfs_serv.c:1089
#11 0xffffffff807ffe0f in nfssvc_nfsd (td=<optimized out>,
argp=<optimized out>, nsd=<optimized out>)
at /usr/src/sys/vfs/nfs/nfs_syscalls.c:678
#12 sys_nfsd (sysmsg=<optimized out>, uap=<optimized out>)
at /usr/src/sys/vfs/nfs/nfs_syscalls.c:300
#13 0xffffffff80bc4e0e in syscall2 (frame=0xffffffff801492eb9f8)
at /usr/src/sys/platform/pc64/x86_64/trap.c:1284
#14 0xffffffff80b87fdd in Xfast_syscall ()
at /usr/src/sys/platform/pc64/x86_64/exception.S:448
#15 0x000000000000002b in ?? ()
Backtrace stopped: previous frame inner to this frame (corrupt stack?)
=====

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#2 - 12/15/2020 02:08 PM - yellowrabbit2010

- Status changed from New to Closed

I have not seen the crash for 20 days.

Files

core.txt.4	454 KB	11/03/2020	yellowrabbit2010
core.txt.5	489 KB	11/03/2020	yellowrabbit2010
core.txt.6	431 KB	11/03/2020	yellowrabbit2010
ls-crash.png	112 KB	11/03/2020	yellowrabbit2010
core.txt.7	571 KB	11/18/2020	yellowrabbit2010