

Re: panic while doing lots of IO on lpfc

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2008-10/msg03360.html>

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 - *Date:* Fri, 10 Oct 2008 12:33:18 +1100
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On Friday 10 October 2008 01:24, Meelis Roos wrote:

I'm using 2.6.27-rc9 on an amd64 machine and tested a FC storage device here. ext3 on FC SCSI disk, served by Sun T3, Emulex LP8000 HBA.

The specific test was
cat somelargefile somelargefile | dd bs=1M of=/file/on/FC/volume

(the dd there was a relict from a simpler test).

The cat + dd results in bad page state + hang, with either Aiee or without. This is repeatable here. If there is any way of helping to debug it, I can do it – the system is not in production.

Bad page state in process 'dd'
page:ffffe200005130c0 flags:0x4000000000000009 mapping:0000000000000000
mapcount:0 count:0
Trying to fix it up, but a reboot is needed

Tried to lock a free page. Is the address of the page always the same, and the first bit in flags always set after each reboot? Does the machine pass a memtest?

It could be that someone actually tried to lock the page, though... You could try putting a BUG_ON(!page_count(page)) at the start of the trylock_page function.

Some more messages might provide more clues.

Thanks,
Nick

Backtrace:
Pid: 6395, comm: dd Not tainted 2.6.27-rc9 #1
Call Trace:
[<ffffffff8027c6c6>] bad_page+0x66/0xa0
[<ffffffff8027df8d>] get_page_from_freelist+0x57d/0x5b0

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[<ffffffff8027e397>] __alloc_pages_internal+0xe7/0x4b0
[<ffffffff8027771d>] find_get_page+0x9d/0xc0
[<ffffffff80277dbf>] __grab_cache_page+0x6f/0xc0
[<ffffffff8030ad8e>] ext3_write_begin+0xae/0x1e0
[<ffffffff80278c7b>] generic_file_buffered_write+0x1cb/0x780
[<ffffffff8031580d>] __ext3_journal_stop+0x2d/0x60
[<ffffffff802796f8>] __generic_file_aio_write_nolock+0x278/0x470
[<ffffffff802c1a9e>] mnt_want_write+0x6e/0xe0
[<ffffffff802c1b99>] mnt_drop_write+0x89/0x1a0
[<ffffffff8027a1c4>] generic_file_aio_write+0x64/0xe0
[<ffffffff80307783>] ext3_file_write+0x23/0xd0
[<ffffffff802a4e9b>] do_sync_write+0xdb/0x120
[<ffffffff802268d4>] do_page_fault+0x344/0x9e0
[<ffffffff80250ba0>] autoremove_wake_function+0x0/0x30
[<ffffffff802a597b>] vfs_write+0xcb/0x190
[<ffffffff802a5b43>] sys_write+0x53/0xa0
[<ffffffff8020c4ab>] system_call_fastpath+0x16/0x1b
```

Second hang was similar but dmesg was not saved, it hung before.

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