Subject: [PATCH] remove BUG() in possible but rare condition Posted by Glauber Costa on Wed, 11 Apr 2012 18:10:24 GMT View Forum Message <> Reply to Message

While stressing the kernel with with failing allocations today, I hit the following chain of events:

```
alloc_page_buffers():
```

```
bh = alloc_buffer_head(GFP_NOFS);
if (!bh)
goto no_grow; <= path taken
```

```
grow_dev_page():

bh = alloc_page_buffers(page, size, 0);

if (!bh)

goto failed; <= taken, consequence of the above
```

and then the failed path BUG()s the kernel.

The failure is inserted a litte bit artificially, but even then, I see no reason why it should be deemed impossible in a real box.

```
Even though this is not a condition that we expect to see
around every time, failed allocations are expected to be handled,
and BUG() sounds just too much. As a matter of fact, grow_dev_page()
can return NULL just fine in other circumstances, so I propose we just
remove it, then.
```

```
Signed-off-by: Glauber Costa <glommer@parallels.com>

CC: Linus Torvalds <torvalds@linux-foundation.org>

CC: Andrew Morton <akpm@linux-foundation.org>

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fs/buffer.c | 1 -

1 files changed, 0 insertions(+), 1 deletions(-)

diff --git a/fs/buffer.c b/fs/buffer.c

index 36d6665..351e18e 100644

---- a/fs/buffer.c

+++ b/fs/buffer.c

@ @ -985,7 +985,6 @ @ grow_dev_page(struct block_device *bdev, sector_t block,

return page;
```

```
failed:

- BUG();

unlock_page(page);

page_cache_release(page);

return NULL;
```

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