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

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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.</pre>
```

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 <a href="mailto:croy-">croy-</a>
CC: Andrew Morton <akpm@linux-foundation.org>
fs/buffer.c |
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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