
Subject: [PATCH 0/6] fuse: allocate req->pages[] dynamically
Posted by [Maxim Patlasov](#) on Fri, 07 Sep 2012 17:40:37 GMT
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Hi,

Currently, any fuse request always includes inline pages[] array of FUSE_MAX_PAGES_PER_REQ elements. This is the waste of memory because in many cases smaller size would suffice.

The patch-set tries to allocate only as many elements of pages[] array as actually needed. This will be even more useful in the future because of:

1. Mitsuo's patches making maximum read/write request size tunable.
2. My patches optimizing scatter-gather direct IO. To make them simpler I'll need to substitute array of 'struct page *' with array of 'struct bio_vec'. It would make memory overhead worse if implemented w/o this patch-set.

Thanks,
Maxim

Maxim Patlasov (6):

- fuse: general infrastructure for pages[] of variable size
- fuse: categorize fuse_get_req()
- fuse: rework fuse_retrieve()
- fuse: rework fuse_readpages()
- fuse: rework fuse_perform_write()
- fuse: rework fuse_do_ioctl()

```
fs/fuse/cuse.c | 2 +-  
fs/fuse/dev.c | 70 ++++++++++++++++++++++++++++++++++++++-----  
fs/fuse/dir.c | 38 ++++++-----  
fs/fuse/file.c | 53 ++++++-----  
fs/fuse/fuse_i.h | 45 ++++++-----  
fs/fuse/inode.c | 6 +---  
6 files changed, 143 insertions(+), 71 deletions(-)
```

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Signature
