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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

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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

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