
Subject: [PATCH 3/3] ext4: extent macros cleanup
Posted by [Dmitry Monakhov](#) on Fri, 22 Jun 2007 12:18:31 GMT
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- Replace math equation to it's macro equivalent
- make ext4_ext_grow_indepth() indexes/leaf correct

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```
---
fs/ext4/extents.c | 11 ++++++----
1 files changed, 7 insertions(+), 4 deletions(-)

diff --git a/fs/ext4/extents.c b/fs/ext4/extents.c
index 12fe3d7..1fd00ac 100644
--- a/fs/ext4/extents.c
+++ b/fs/ext4/extents.c
@@ -375,7 +375,7 @@ ext4_ext_binsearch_idx(struct inode *inode, struct ext4_ext_path *path,
int bloc
    ext_debug("binsearch for %d(idx): ", block);

    l = EXT_FIRST_INDEX(eh) + 1;
- r = EXT_FIRST_INDEX(eh) + le16_to_cpu(eh->eh_entries) - 1;
+ r = EXT_LAST_INDEX(eh);
    while (l <= r) {
        m = l + (r - l) / 2;
        if (block < le32_to_cpu(m->ei_block))
@@ -440,7 +440,7 @@ ext4_ext_binsearch(struct inode *inode, struct ext4_ext_path *path, int
block)
    ext_debug("binsearch for %d: ", block);

    l = EXT_FIRST_EXTENT(eh) + 1;
- r = EXT_FIRST_EXTENT(eh) + le16_to_cpu(eh->eh_entries) - 1;
+ r = EXT_LAST_EXTENT(eh);

    while (l <= r) {
        m = l + (r - l) / 2;
@@ -922,8 +922,11 @@ static int ext4_ext_grow_indepth(handle_t *handle, struct inode *inode,
    curp->p_hdr->eh_max = cpu_to_le16(ext4_ext_space_root_idx(inode));
    curp->p_hdr->eh_entries = cpu_to_le16(1);
    curp->p_idx = EXT_FIRST_INDEX(curp->p_hdr);
- /* FIXME: it works, but actually path[0] can be index */
- curp->p_idx->ei_block = EXT_FIRST_EXTENT(path[0].p_hdr->ee_block);
+
+ if (path[0].p_hdr->eh_depth)
+   curp->p_idx->ei_block = EXT_FIRST_INDEX(path[0].p_hdr->ei_block);
+ else
+   curp->p_idx->ei_block = EXT_FIRST_EXTENT(path[0].p_hdr->ee_block);
    ext4_idx_store_pblock(curp->p_idx, newblock);
```

```
neh = ext_inode_hdr(inode);
```

```
--
```

```
1.5.2
```
