Subject: Re: [PATCH 3/3] ext4: extent macros cleanup
Posted by Alex Tomas on Mon, 25 Jun 2007 11:06:33 GMT
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Acked-off-by: Alex Tomas <alex@clusterfs.com>

Dmitry Monakhov wrote:
> - Replace math equation to it's macro equivalent
> - make ext4_ext_grow_indepth() indexes/leaf correct
>
> Signed-off-by: Dmitry Monakhov <dmonakhov@openvz.org>
> ---
> 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);
```