

[Patch 5/10]: ext3 online resize: lock newly-created buffers

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-09/9044.html>

From: Stephen Tweedie (sct_at_redhat.com)

Date: 09/30/04

Date: Thu, 30 Sep 2004 14:23:39 +0100

To: linux-kernel@vger.kernel.org, Andrew Morton <akpm@osdl.org>, Andreas Dilger <[Lock buffers before initialising their contents to avoid any risk of being overwritten by the results of a parallel read.](mailto:adilger@clusterf</p></div><div data-bbox=)

Signed-off-by: Stephen Tweedie <sct@redhat.com>

```
--- linux-2.6.9-rc2-mm4/fs/ext3/resize.c.=K0004=.orig
+++ linux-2.6.9-rc2-mm4/fs/ext3/resize.c
@@ -118,13 +118,16 @@ static struct buffer_head *bclean(handle
     int err;

     bh = sb_getblk(sb, blk);
- set_buffer_uptodate(bh);
     if ((err = ext3_journal_get_write_access(handle, bh)) {
         brelse(bh);
         bh = ERR_PTR(err);
- } else
+ } else {
+ lock_buffer(bh);
         memset(bh->b_data, 0, sb->s_blocksize);
-
+ set_buffer_uptodate(bh);
+ unlock_buffer(bh);
+ }
+
     return bh;
 }

@@ -201,12 +204,14 @@ static int setup_new_group_blocks(struct
     ext3_debug("update backup group %#04lx (+%d)\n", block, bit);

     gdb = sb_getblk(sb, block);
- set_buffer_uptodate(gdb);
     if ((err = ext3_journal_get_write_access(handle, gdb)) {
         brelse(gdb);
         goto exit_bh;
     }

```

Linux-Kernel: [Patch 5/10]: ext3 online resize: lock newly-created buffers

```
    }
+ lock_buffer(bh);
    memcpy(gdb->b_data, sbi->s_group_desc[i], bh->b_size);
+ set_buffer_uptodate(gdb);
+ unlock_buffer(bh);
    ext3_journal_dirty_metadata(handle, gdb);
    ext3_set_bit(bit, bh->b_data);
    brelse(gdb);
@@ -642,14 +647,16 @@ static void update_backups(struct super_
    break;

    bh = sb_getblk(sb, group * bpg + blk_off);
- set_buffer_uptodate(bh);
    ext3_debug(sb, __FUNCTION__, "update metadata backup %#04lx\n",
        bh->b_blocknr);
    if ((err = ext3_journal_get_write_access(handle, bh)))
        break;
+ lock_buffer(bh);
    memcpy(bh->b_data, data, size);
    if (rest)
        memset(bh->b_data + size, 0, rest);
+ set_buffer_uptodate(bh);
+ unlock_buffer(bh);
    ext3_journal_dirty_metadata(handle, bh);
    brelse(bh);
    }
-

```

To unsubscribe from this list: send the line "unsubscribe linux-kernel" in the body of a message to majordomo@vger.kernel.org

More majordomo info at <http://vger.kernel.org/majordomo-info.html>

Please read the FAQ at <http://www.tux.org/lkml/>