

[PATCH 2/3] vprintk for ext2 errors

Source: <http://linux.derkeiler.com/Mailing-Lists/Kernel/2004-07/6332.html>

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To: linux-kernel <linux-kernel@vger.kernel.org>, Andrew Morton <akpm@osdl.org>

Kill error_buf madness in ext2

Signed-off-by: Matt Mackall <mpm@selenic.com>

```
tiny-mpm/fs/ext2/super.c | 45 ++++++-----
1 files changed, 23 insertions(+), 22 deletions(-)
```

```
diff -puN fs/ext2/super.c~kill-ext2-error-buff fs/ext2/super.c
--- tiny/fs/ext2/super.c~kill-ext2-error-buff 2004-03-20 12:14:47.000000000 -0600
+++ tiny-mpm/fs/ext2/super.c 2004-03-20 12:14:47.000000000 -0600
@@ -37,8 +37,6 @@ static void ext2_sync_super(struct super
 static int ext2_remount (struct super_block * sb, int * flags, char * data);
 static int ext2_statfs (struct super_block * sb, struct kstatfs * buf);

-static char error_buf[1024];
-
void ext2_error (struct super_block * sb, const char * function,
                const char * fmt, ...)
{
@@ -52,16 +50,17 @@ void ext2_error (struct super_block * sb
                cpu_to_le16(le16_to_cpu(es->s_state) | EXT2_ERROR_FS);
                ext2_sync_super(sb, es);
}
- va_start (args, fmt);
- vsprintf (error_buf, fmt, args);
- va_end (args);
- if (test_opt (sb, ERRORS_PANIC))
- panic ("EXT2-fs panic (device %s): %s: %s\n",
- sb->s_id, function, error_buf);
- printk (KERN_CRIT "EXT2-fs error (device %s): %s: %s\n",
- sb->s_id, function, error_buf);
- if (test_opt (sb, ERRORS_RO)) {
- printk ("Remounting filesystem read-only\n");
+
+ va_start(args, fmt);
+ printk(KERN_CRIT "EXT2-fs error (device %s): %s: ",sb->s_id, function);
+ vprintk(fmt, args);
```

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+ printk("\n");
+ va_end(args);
+
+ if (test_opt(sb, ERRORS_PANIC))
+ panic("EXT2-fs panic from previous error\n");
+ if (test_opt(sb, ERRORS_RO)) {
+ printk("Remounting filesystem read-only\n");
+     sb->s_flags |= MS_RDONLY;
+ }
+ }
@@ -79,12 +78,13 @@ NORET_TYPE void ext2_panic (struct super
+     mark_buffer_dirty(sbi->s_sbh);
+     sb->s_dirt = 1;
+ }
- va_start (args, fmt);
- vsprintf (error_buf, fmt, args);
- va_end (args);
+ va_start(args, fmt);
+ printk(KERN_CRIT "EXT2-fs error (device %s): %s: ",sb->s_id, function);
+ vprintk(fmt, args);
+ printk("\n");
+ va_end(args);
+     sb->s_flags |= MS_RDONLY;
- panic ("EXT2-fs panic (device %s): %s: %s\n",
- sb->s_id, function, error_buf);
+ panic("EXT2-fs panic forced\n");
+ }

void ext2_warning (struct super_block * sb, const char * function,
@@ -92,11 +92,12 @@ void ext2_warning (struct super_block *
{
+     va_list args;

- va_start (args, fmt);
- vsprintf (error_buf, fmt, args);
- va_end (args);
- printk (KERN_WARNING "EXT2-fs warning (device %s): %s: %s\n",
- sb->s_id, function, error_buf);
+ va_start(args, fmt);
+ printk(KERN_WARNING "EXT2-fs warning (device %s): %s: ",
+ sb->s_id, function);
+ vprintk(fmt, args);
+ printk("\n");
+ va_end(args);
+ }

void ext2_update_dynamic_rev(struct super_block *sb)
-
--

```

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Mathematics is the supreme nostalgia of our time.

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