Subject: [PATCH] [RESEND] ext[34] orphan list check on destroy_inode
Posted by vaverin on Tue, 05 Jun 2007 10:19:53 GMT
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Customers claims to ext3-related errors, investigation showed that ext3 orphan
list has been corrupted and have the reference to non-ext3 inode. The following
debug helps to understand the reasons of this issue.

Signed-off-by: Vasily Averin <vvs@sw.ru>

```
diff --git a/fs/ext3/super.c b/fs/ext3/super.c
index 6e30629..e986376 100644
--- a/fs/ext3/super.c
+++ b/fs/ext3/super.c
@@ -459,6 +459,13 @@ static struct inode *ext3_alloc_inode(struct super_block *sb)

 static void ext3_destroy_inode(struct inode *inode)
 {
+ if (!list_empty(&(EXT3_I(inode)->i_orphan))) {
+  printk("EXT3 Inode %p: orphan list check failed!\n",
+   EXT3_I(inode));
+  print_hex_dump(KERN_INFO, DUMP_PREFIX_ADDRESS,
+    EXT3_I(inode), sizeof(struct ext3_inode_info));
+  dump_stack();
+ }
  kmem_cache_free(ext3_inode_cachep, EXT3_I(inode));
 }

diff --git a/fs/ext4/super.c b/fs/ext4/super.c
index cb9afdd..935420d 100644
--- a/fs/ext4/super.c
+++ b/fs/ext4/super.c
@@ -510,6 +510,13 @@ static struct inode *ext4_alloc_inode(struct super_block *sb)

 static void ext4_destroy_inode(struct inode *inode)
 {
+ if (!list_empty(&(EXT4_I(inode)->i_orphan))) {
+  printk("EXT4 Inode %p: orphan list check failed!\n",
+   EXT4_I(inode));
+  print_hex_dump(KERN_INFO, DUMP_PREFIX_ADDRESS,
+    EXT4_I(inode), sizeof(struct ext4_inode_info));
+  dump_stack();
+ }
  kmem_cache_free(ext4_inode_cachep, EXT4_I(inode));
 }
```

Subject: Re: [PATCH] [RESEND] ext[34] orphan list check on destroy_inode
Posted by Carsten Otte on Tue, 05 Jun 2007 10:34:31 GMT
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Vasily Averin wrote:
> Customers claims to ext3-related errors, investigation showed that ext3 orphan
> list has been corrupted and have the reference to non-ext3 inode. The following
> debug helps to understand the reasons of this issue.
This looks like it might be related to the -as far as I recall-
unfixed issue we've noticed some time ago:
http://osdir.com/ml/file-systems/2004-02/msg00033.html

I have'nt heard any reports of a reproduction on modern kernels on
390 lately, our issue seems to have disappeared.

so long,
Carsten