Subject: [patch 09/22] elevate writer count for chown and friends
Posted by Cedric Le Goater on Thu, 07 Jun 2007 15:25:36 GMT
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From: Dave Hansen <hansendc@us.ibm.com>

chown/chmod,etc... don't call permission in the same way
that the normal "open for write" calls do. They still
write to the filesystem, so bump the write count during
these operations.

Signed-off-by: Dave Hansen <hansendc@us.ibm.com>
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 fs/open.c | 41 ++++++++++++++++++++++++++++++++----------
 1 file changed, 31 insertions(+), 10 deletions(-)

Index: 2.6.22-rc4-mm2-robindmount/fs/open.c
==========
--- 2.6.22-rc4-mm2-robindmount.orig/fs/open.c
+++ 2.6.22-rc4-mm2-robindmount/fs/open.c
@@ -596,12 +596,12 @@ asmlinkage long sys_fchmod(unsigned int

  audit_inode(NULL, inode);

- err = -EROFS;
- if (IS_RDONLY(inode))
+ err = mnt_want_write(file->f_vfsmnt);
+ if (err)
   goto out_putf;
  err = -EPERM;
  if (IS_IMMUTABLE(inode) || IS_APPEND(inode))
-  goto out_putf;
+  goto out_drop_write;
  mutex_lock(&inode->i_mutex);
  if (mode == (mode_t) -1)
   mode = inode->i_mode;
@@ -610,6 +610,8 @@ asmlinkage long sys_fchmod(unsigned int
  err = notify_change(dentry, &newattrs);
  mutex_unlock(&inode->i_mutex);

+out_drop_write:
+ mnt_drop_write(file->f_vfsmnt);
 out_putf:
  fput(file);
 out:
@@ -629,13 +631,13 @@ asmlinkage long sys_fchmodat(int dfd, co

```
   goto out;
  inode = nd.dentry->d_inode;

- error = -EROFS;
- if (IS_RDONLY(inode))
+ error = mnt_want_write(nd.mnt);
+ if (error)
   goto dput_and_out;

  error = -EPERM;
  if (IS_IMMUTABLE(inode) || IS_APPEND(inode))
-  goto dput_and_out;
+  goto out_drop_write;

  mutex_lock(&inode->i_mutex);
  if (mode == (mode_t) -1)
@@ -645,6 +647,8 @@ asmlinkage long sys_fchmodat(int dfd, co
  error = notify_change(nd.dentry, &newattrs);
  mutex_unlock(&inode->i_mutex);

+out_drop_write:
+ mnt_drop_write(nd.mnt);
 dput_and_out:
  path_release(&nd);
 out:
@@ -667,10 +671,7 @@ static int chown_common(struct dentry *
   printk(KERN_ERR "chown_common: NULL inode\n");
   goto out;
  }
- error = -EROFS;
- if (IS_RDONLY(inode))
-  goto out;
- error = -EPERM;
+  error = -EPERM;
  if (IS_IMMUTABLE(inode) || IS_APPEND(inode))
   goto out;
  newattrs.ia_valid =  ATTR_CTIME;
@@ -699,7 +700,12 @@ asmlinkage long sys_chown(const char __u
  error = user_path_walk(filename, &nd);
  if (error)
   goto out;
+ error = mnt_want_write(nd.mnt);
+ if (error)
+  goto out_release;
  error = chown_common(nd.dentry, user, group);
+ mnt_drop_write(nd.mnt);
+out_release:
  path_release(&nd);
```

```
 out:
  return error;
@@ -719,7 +725,12 @@ asmlinkage long sys_fchownat(int dfd, co
  error = __user_walk_fd(dfd, filename, follow, &nd);
  if (error)
   goto out;
+ error = mnt_want_write(nd.mnt);
+ if (error)
+  goto out_release;
  error = chown_common(nd.dentry, user, group);
+ mnt_drop_write(nd.mnt);
+out_release:
  path_release(&nd);
 out:
  return error;
@@ -733,7 +744,12 @@ asmlinkage long sys_lchown(const char __
  error = user_path_walk_link(filename, &nd);
  if (error)
   goto out;
+ error = mnt_want_write(nd.mnt);
+ if (error)
+  goto out_release;
  error = chown_common(nd.dentry, user, group);
+ mnt_drop_write(nd.mnt);
+out_release:
  path_release(&nd);
 out:
  return error;
@@ -750,9 +766,14 @@ asmlinkage long sys_fchown(unsigned int
  if (!file)
   goto out;

+ error = mnt_want_write(file->f_vfsmnt);
+ if (error)
+  goto out_fput;
  dentry = file->f_path.dentry;
  audit_inode(NULL, dentry->d_inode);
  error = chown_common(dentry, user, group);
+ mnt_drop_write(file->f_vfsmnt);
+out_fput:
  fput(file);
 out:
  return error;

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Containers mailing list
Containers@lists.linux-foundation.org
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https://lists.linux-foundation.org/mailman/listinfo/containers