Subject: [PATCH 21/25] sysfs: sysfs_chmod_file handle multiple superblocks
Posted by ebiederm on Tue, 07 Aug 2007 21:32:46 GMT
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Teach sysfs_chmod_file how to handle multiple sysfs
superblocks. We need to iterate over each superblock
so that we give all of the appropriate filesystem modification
notifications.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
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fs/sysfs/file.c | 41 ++++++++++++++++++++++++++++++++----------
1 files changed, 25 insertions(+), 16 deletions(-)

```
diff --git a/fs/sysfs/file.c b/fs/sysfs/file.c
index f954b9f..cff054f 100644
--- a/fs/sysfs/file.c
+++ b/fs/sysfs/file.c
@@ -501,7 +501,8 @@ int sysfs_update_file(struct kobject * kobj, const struct attribute * attr)
 int sysfs_chmod_file(struct kobject *kobj, struct attribute *attr, mode_t mode)
 {
  struct sysfs_dirent *victim_sd = NULL;
- struct dentry *victim = NULL;
+ struct super_block *sb;
+ struct dentry *victim;
  struct inode * inode;
  struct iattr newattrs;
  int rc;
@@ -512,22 +513,30 @@ int sysfs_chmod_file(struct kobject *kobj, struct attribute *attr, mode_t
mode)
   goto out;

  mutex_lock(&sysfs_rename_mutex);
- victim = sysfs_get_dentry(sysfs_sb, victim_sd);
- mutex_unlock(&sysfs_rename_mutex);
- if (IS_ERR(victim)) {
-  rc = PTR_ERR(victim);
-  victim = NULL;
-  goto out;
+ sysfs_grab_supers();
+ list_for_each_entry(sb, &sysfs_fs_type.fs_supers, s_instances) {
+  victim = sysfs_get_dentry(sb, victim_sd);
+  if (!victim)
+   continue;
+  if (IS_ERR(victim)) {
+   rc = PTR_ERR(victim);
+   victim = NULL;
+   goto out_unlock;
```

```
+ }
+
+ inode = victim->d_inode;
+ mutex_lock(&inode->i_mutex);
+ newattrs.ia_mode = (mode & S_IALLUGO) | (inode->i_mode & ~S_IALLUGO);
+ newattrs.ia_valid = ATTR_MODE | ATTR_CTIME;
+ rc = notify_change(victim, &newattrs);
+ mutex_unlock(&inode->i_mutex);
+
+ dput(victim);
  }
-
- inode = victim->d_inode;
- mutex_lock(&inode->i_mutex);
- newattrs.ia_mode = (mode & S_IALLUGO) | (inode->i_mode & ~S_IALLUGO);
- newattrs.ia_valid = ATTR_MODE | ATTR_CTIME;
- rc = notify_change(victim, &newattrs);
- mutex_unlock(&inode->i_mutex);
- out:
- dput(victim);
+out_unlock:
+ sysfs_release_supers();
+ mutex_unlock(&sysfs_rename_mutex);
+out:
  sysfs_put(victim_sd);
  return rc;
 }
--
1.5.1.1.181.g2de0
```

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