Subject: [PATCH 18/25] sysfs: Rewrite sysfs_move_dir in terms of sysfs dirents
Posted by ebiederm on Tue, 07 Aug 2007 21:28:10 GMT
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This patch rewrites sysfs_move_dir to perform it's checks
as much as possible on the underlying sysfs_dirents instead
of the contents of the dcache, making sysfs_move_dir
more like the rest of the sysfs directory modification
code.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>
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 fs/sysfs/dir.c | 34 ++++++++++++++++++++++++++++++----------
 1 files changed, 18 insertions(+), 16 deletions(-)

```
diff --git a/fs/sysfs/dir.c b/fs/sysfs/dir.c
index 3228f5a..94d705a 100644
--- a/fs/sysfs/dir.c
+++ b/fs/sysfs/dir.c
@@ -932,56 +932,58 @@ int sysfs_move_dir(struct kobject *kobj, struct kobject
*new_parent_kobj)
  BUG_ON(!sd->s_parent);
  new_parent_sd = new_parent_kobj->sd ? new_parent_kobj->sd : &sysfs_root;

+ error = 0;
+ if (sd->s_parent == new_parent_sd)
+  goto out; /* nothing to move */
+
  /* get dentries */
  old_dentry = sysfs_get_dentry(sd);
  if (IS_ERR(old_dentry)) {
   error = PTR_ERR(old_dentry);
-  goto out_dput;
+  goto out;
  }
  old_parent = old_dentry->d_parent;

  new_parent = sysfs_get_dentry(new_parent_sd);
  if (IS_ERR(new_parent)) {
   error = PTR_ERR(new_parent);
-  goto out_dput;
+  goto out;
  }

- if (old_parent->d_inode == new_parent->d_inode) {
-  error = 0;
-  goto out_dput; /* nothing to move */
- }
```

```
 again:
  mutex_lock(&old_parent->d_inode->i_mutex);
  if (!mutex_trylock(&new_parent->d_inode->i_mutex)) {
   mutex_unlock(&old_parent->d_inode->i_mutex);
   goto again;
  }
+ mutex_lock(&sysfs_mutex);

- new_dentry = lookup_one_len(kobj->name, new_parent, strlen(kobj->name));
- if (IS_ERR(new_dentry)) {
-  error = PTR_ERR(new_dentry);
+ error = -EEXIST;
+ if (sysfs_find_dirent(new_parent_sd, sd->s_name))
   goto out_unlock;
- } else
-  error = 0;
+
+ error = -ENOMEM;
+ new_dentry = d_alloc_name(new_parent, sd->s_name);
+ if (!new_dentry)
+  goto out_unlock;
+
+ error = 0;
  d_add(new_dentry, NULL);
  d_move(old_dentry, new_dentry);
  dput(new_dentry);

  /* Remove from old parent's list and insert into new parent's list. */
- mutex_lock(&sysfs_mutex);
-
  sysfs_unlink_sibling(sd);
  sysfs_get(new_parent_sd);
  sysfs_put(sd->s_parent);
  sd->s_parent = new_parent_sd;
  sysfs_link_sibling(sd);

- mutex_unlock(&sysfs_mutex);
-
  out_unlock:
+ mutex_unlock(&sysfs_mutex);
  mutex_unlock(&new_parent->d_inode->i_mutex);
  mutex_unlock(&old_parent->d_inode->i_mutex);
- out_dput:
+ out:
  dput(new_parent);
  dput(old_dentry);
  dput(new_dentry);
--
```

1.5.1.1.181.g2de0

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