
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>

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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<https://lists.linux-foundation.org/mailman/listinfo/containers>
