
Subject: [PATCH 13/25] sysfs: Simply sysfs_get_dentry
Posted by [ebiederm](#) on Tue, 07 Aug 2007 21:22:13 GMT
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Now that we know the sysfs tree structure cannot change under us
simplify sysfs_get_dentry.

Signed-off-by: Eric W. Biederman <ebiederm@xmission.com>

fs/sysfs/dir.c | 48 ++++++-----
1 files changed, 6 insertions(+), 42 deletions(-)

diff --git a/fs/sysfs/dir.c b/fs/sysfs/dir.c

index e0f49b7..a9bdb12 100644

--- a/fs/sysfs/dir.c

+++ b/fs/sysfs/dir.c

@@ -784,71 +784,35 @@ struct dentry *sysfs_get_dentry(struct sysfs_dirent *sd)

```
{  
    struct sysfs_dirent *cur;  
    struct dentry *parent_dentry, *dentry;  
- int i, depth;
```

```
    /* Find the first parent which has valid dentry.  
    */
```

```
- mutex_lock(&sysfs_mutex);  
- restart:
```

```
-
```

```
    dentry = NULL;  
- depth = 0;  
    cur = sd;  
    while (!(dentry = __sysfs_get_dentry(sysfs_sb, cur))) {  
        if (cur->s_flags & SYSFS_FLAG_REMOVED) {  
            dentry = ERR_PTR(-ENOENT);  
-        depth = 0;  
            break;  
        }  
        cur = cur->s_parent;  
-        depth++;  
    }
```

```
    /* from the found dentry, look up depth times */  
- while (depth--) {  
-     /* find and get depth'th ancestor */  
-     for (cur = sd, i = 0; cur && i < depth; i++)  
+ while (dentry->d_fsdata != sd) {  
+     /* Find the first ancestor I have not looked up */  
+     cur = sd;  
+     while (cur->s_parent != dentry->d_fsdata)
```

```

    cur = cur->s_parent;

- /* This can happen if tree structure was modified due
-  * to move/rename. Restart.
-  */
- if (i != depth) {
-     dput(dentry);
-     goto restart;
- }
-
- sysfs_get(cur);
-
- mutex_unlock(&sysfs_mutex);
-
/* look it up */
parent_dentry = dentry;
dentry = lookup_one_len_kern(cur->s_name, parent_dentry,
    strlen(cur->s_name));
dput(parent_dentry);

- if (IS_ERR(dentry)) {
-     sysfs_put(cur);
-     return dentry;
- }
-
- mutex_lock(&sysfs_mutex);
-
- /* This, again, can happen if tree structure has
-  * changed and we looked up the wrong thing. Restart.
-  */
- if (dentry->d_fsdata != cur) {
-     dput(dentry);
-     sysfs_put(cur);
-     goto restart;
- }
-
-
- sysfs_put(cur);
+ if (IS_ERR(dentry))
+     break;
+ }
-
- mutex_unlock(&sysfs_mutex);
return dentry;
}

--
1.5.1.1.181.g2de0

```

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