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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](mailto: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

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

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