
Subject: Re: [PATCH 17/25] sysfs: Rewrite rename in terms of sysfs dirents

Posted by [Tejun Heo](#) on Wed, 08 Aug 2007 08:51:33 GMT

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```
> int sysfs_rename_dir(struct kobject * kobj, const char *new_name)
> {
> - struct sysfs_dirent *sd;
> + struct sysfs_dirent *sd = kobj->sd;
>   struct dentry *parent = NULL;
>   struct dentry *old_dentry = NULL, *new_dentry = NULL;
>   const char *dup_name = NULL;
> @@ -863,42 +863,41 @@ int sysfs_rename_dir(struct kobject * kobj, const char *new_name)
>
>   mutex_lock(&sysfs_rename_mutex);
>
> + error = 0;
> + if (strcmp(sd->s_name, new_name) == 0)
> +   goto out; /* nothing to rename */
> +
>   /* get the original dentry */
>   old_dentry = sysfs_get_dentry(sd);
>   if (IS_ERR(old_dentry)) {
>     error = PTR_ERR(old_dentry);
> +   goto out;
>   }
>
>   parent = old_dentry->d_parent;
>
>   /* lock parent and get dentry for new name */
>   mutex_lock(&parent->d_inode->i_mutex);
> + mutex_lock(&sysfs_mutex);
>
> + error = -EEXIST;
> + if (sysfs_find_dirent(sd->s_parent, new_name))
>   goto out_unlock;
>
> + error = -ENOMEM;
> + new_dentry = d_alloc_name(parent, new_name);
> + if (!new_dentry)
>   goto out_unlock;
>
>   /* rename kobject and sysfs_dirent */
>   error = -ENOMEM;
>   new_name = dup_name = kstrdup(new_name, GFP_KERNEL);
>   if (!new_name)
> +   goto out_unlock;
>
>   error = kobject_set_name(kobj, "%s", new_name);
```

```
> if (error)
> + goto out_unlock;
>
> mutex_lock(&sysfs_mutex);
```

sysfs_mutex is being grabbed twice and unlocked twice later.

--

tejun

Containers mailing list
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