
Subject: Re: [PATCH 12/25] sysfs: Introduce sysfs_rename_mutex

Posted by [Tejun Heo](#) on Wed, 08 Aug 2007 08:23:11 GMT

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Tejun Heo wrote:

> Hello, Eric.

>

> Eric W. Biederman wrote:

>> Looking carefully at the rename code we have a subtle dependency

>> that the structure of sysfs not change while we are performing

>> a rename. If the parent directory of the object we are renaming

>> changes while the rename is being performed nasty things could

>> happen when we go to release our locks.

>>

>> So introduce a sysfs_rename_mutex to prevent this highly

>> unlikely theoretical issue.

>

> Yeah, it's a theoretical issue. Rename/move implementation has always

> depended on the parent structure not changing beneath it, but it's nice

> to tighten up loose ends.

>

>> +DEFINE_MUTEX(sysfs_rename_mutex);

>

> Probably doesn't really matter but wouldn't a rwsem fit better?

>

>> @@ -774,7 +775,7 @@ static struct dentry *__sysfs_get_dentry(struct super_block *sb, struct
sysfs_di

>> * down from there looking up dentry for each step.

>> *

>> * LOCKING:

>> - * Kernel thread context (may sleep)

>> + * mutex_lock(sysfs_rename_mutex)

>

> LOCKING describes what locks should be held when entering the function,

> so proper description would be something like...

>

> Kernel thread context, grabs sysfs_rename_mutex

Oops, forget about the above. Thought the comment was added to
sysfs_rename_dir().

--

tejun

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