
Subject: Re: [PATCH 06/14] sysfs: Rewrite sysfs_get_dentry
Posted by [Tejun Heo](#) on Wed, 01 Aug 2007 17:51:19 GMT
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Eric W. Biederman wrote:

> Tejun Heo <htejun@gmail.com> writes:

>

>> Hmm... I think we can live with a bit of complexity in

>> sysfs_get_dentry(). It's very well localized and not even long. I have

>> been trying hard to untangle sysfs internals from vfs and have a bit of

>> resistance against going back. But, then again, if we can achieve

>> something better and simpler, why not?

>

> Right now my real challenge is untangling sysfs_move_dir. In the

> case of multiple mounts of the sysfs tree.

OIC. Yeah, I guess moving a sd with multiple dentries attached could be pretty difficult.

> My practical problem is that I need to hold a lock for the sysfs

> dirents and while that lock is held I need to call sysfs_get_dentry

> for the destination directory once for each superblock.

>

> It might be that some kind of reader-writer lock strategy is what

> I need to untangle this mess. Rather than making changing to i_mutex.

> All I know is at the moment it is taking a lot of code reading and

> brain storm to come of with something that is easy to maintain.

Just in case, sysfs used to have sysfs_rename_rwsem to protect move/rename against tree walking, which became unnecessary after i_mutex -> sysfs_mutex conversion. Move/rename can use stupid big fat locks if that helps.

Good luck.

--

tejun

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