Subject: Re: [PATCH 12/25] sysfs: Introduce sysfs_rename_mutex Posted by Tejun Heo on Wed, 08 Aug 2007 08:19:32 GMT

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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

Thanks.

tejun

Containers mailing list Containers@lists.linux-foundation.org

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