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Subject: [PATCH 0/25] Sysfs cleanups & tagged directory support

Posted by [ebiederm](#) on Tue, 07 Aug 2007 21:06:21 GMT

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The following patchset applies on top of the last round of sysfs cleanups that Tejun sent out on the 2nd.

My target with this patchset is to support sysfs directories with a tag on struct sysfs\_dirent making them visible only on selected mounts of sysfs.

After going around and around the different possibilities I believe I have finally found something that works and is reasonably maintainable. I believe I have achieved that with only introducing some extra complexity in a few very localized places.

The worst part is the code to support multiple superblocks and thus multiple dentry trees for sysfs. I had to allocate a linked list in sysfs\_move\_dir for all of the possible dentries I would need to call d\_move on. Bleh. It works, it is correct and it is an atomic rename.

Eric

sysfs: Move all of inode initialization into sysfs\_init\_inode  
sysfs: Remove sysfs\_instantiate  
sysfs: Use kill\_anon\_super  
sysfs: Make sysfs\_mount static  
sysfs: In sysfs\_lookup don't open code sysfs\_find\_dirent  
sysfs: Simplify readdir.  
sysfs: Rewrite sysfs\_drop\_dentry.  
sysfs: Implement \_\_sysfs\_get\_dentry  
sysfs: Move sysfs\_get\_dentry below \_\_sysfs\_get\_dentry  
sysfs: Rewrite sysfs\_get\_dentry in terms of \_\_sysfs\_get\_dentry  
sysfs: Remove s\_dentry  
sysfs: Introduce sysfs\_rename\_mutex  
sysfs: Simplify sysfs\_get\_dentry  
sysfs: Don't use lookup\_one\_len\_kern  
vfs: Remove lookup\_one\_len\_kern  
sysfs: Support for preventing unmounts.  
sysfs: Rewrite rename in terms of sysfs dirents  
sysfs: Rewrite sysfs\_move\_dir in terms of sysfs dirents  
sysfs: sysfs\_get\_dentry add a sb parameter  
sysfs: Rename Support multiple superblocks  
sysfs: sysfs\_chmod\_file handle multiple superblocks  
sysfs: sysfs\_update\_file handle multiple superblocks

sysfs: Implement sysfs tagged directory support.  
sysfs: Implement sysfs\_delete\_link and sysfs\_rename\_link  
driver core: Implement tagged directory support for device classes.

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