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Subject: Re: [PATCHSET] Sysfs cleanups from Eric W. Biederman  
Posted by [ebiederm](#) on Wed, 22 Aug 2007 14:04:07 GMT

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Tejun Heo <[htejun@gmail.com](mailto:htejun@gmail.com)> writes:

> Hello, all.

>

> This is subset of Eric W. Biederman's "Sysfs cleanups & tagged  
> directory support" patchset[1] with the following modifications.

As a base:

Acked-by: "Eric W. Biederman" <[ebiederm@xmission.com](mailto:ebiederm@xmission.com)>

>

> \* fix-i\_mutex-locking-in-sysfs\_get\_dentry patch is added at the top  
> and #14-Don\_t-use-lookup\_one\_len\_kern and  
> #15-vfs-Remove-lookup\_one\_len\_kern are dropped. This is because #14  
> contained had a bug where it might created dentry/inode for an  
> already deleted sysfs\_dirent. I think it's beneficial to keep  
> single lookup path.

I think I disagree with the bug spotting.

At least in net we the sysfs\_rename\_mutex which keeps parent directories from disappearing. Further we have a reference to the leaf sysfs\_dirent and are actively manipulating it, so the sysfs\_dirent should not disappear on us.

> \* Rewrote simplify-sysfs\_get\_dentry patch and  
> #08-Implement-\_\_sysfs\_get\_dentry,  
> #09-Move-sysfs\_get\_dentry-below-\_\_sysfs\_get\_dentry and  
> #10-Rewrite-sysfs\_get\_dentry-in-terms-of-\_\_sysfs\_get\_dentry are  
> omitted as \_\_sysfs\_get\_dentry() isn't used by anyone.

Right. \_\_sysfs\_get\_dentry is an optimization that has makes the best case for sysfs\_get\_dentry O(1) instead of O(depth). However this doesn't matter because sysfs\_get\_dentry is not on any fast path and the maximum depth of sysfs directories is fairly shallow and programmer controlled.

The only user other user of \_\_sysfs\_get\_dentry is in the tagged directory support, and even that user doesn't strictly need it. Although it is a bit silly to populate the dcache just so you can invalidate it a moment later...

Just doing the dget(sysfs\_sb->s\_root) is a bit clearer in sysfs\_get\_dentry then knowing implicitly that is what

\_\_sysfs\_get\_dentry does in the worst cased.

- > \* #16, 19-25 are omitted as it isn't clear yet how the tagged entry support will end up.
- >
- > \* readdir simplification fixed.
- >
- > \* sysfs\_mutex double locking fixed.
- >
- > The patchset is on top of the current -gregkh.

Eric

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