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> 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>

>
> * 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 benefitial 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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