
Subject: Re: [PATCH 20/25] sysfs: Rename Support multiple superblocks
Posted by [ebiederm](#) on Wed, 08 Aug 2007 16:35:38 GMT
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Tejun Heo <htejun@gmail.com> writes:

> Yeah, I think using -ENOENT is better; otherwise, my little head feels
> like exploding. :-)

Ok. I think I know the feeling.

> More importantly, `sysfs_get_dentry()` seems like it
> would deference `ERR_PTR()` value. No?

I'm confused where you are referring to but I will try answer this.

`__sysfs_get_dentry` always returns a dentry or NULL if it can't find the dentry.

I have quoted my final version of `sysfs_get_dentry` below for discussion.

```
> struct dentry *sysfs_get_dentry(struct super_block *sb, struct sysfs_dirent *sd)
> {
>     struct sysfs_dirent *cur;
>     struct dentry *parent_dentry, *dentry;
>
>     /* Bail if this sd won't show up in this superblock */
>     if (sd->s_parent && sd->s_parent->s_flags & SYSFS_FLAG_TAGGED) {
>         const void *tag;
>         tag = sysfs_lookup_tag(sd->s_parent, sb);
>         if (sd->s_tag.tag != tag)
>             return NULL;
>     }
```

This is the only location where could return NULL the early check if this operation is possible.

```
> /* Find the first parent which has valid dentry.
> */
> dentry = NULL;
> cur = sd;
> while (!(dentry = __sysfs_get_dentry(sb, cur))) {
>     if (cur->s_flags & SYSFS_FLAG_REMOVED) {
>         dentry = ERR_PTR(-ENOENT);
>         break;
>     }
```

```
> cur = cur->s_parent;
> }
```

Here we depend on the fact that `sysfs_root` is pointed to by `sb->s_root` so we know it will always have a dentry.

```
> /* from the found dentry, look up depth times */
> while (dentry->d_fsdata != sd) {
> /* Find the first ancestor I have not looked up */
> cur = sd;
> while (cur->s_parent != dentry->d_fsdata)
> cur = cur->s_parent;
>
> /* look it up */
> parent_dentry = dentry;
> dentry = sysfs_add_dentry(parent_dentry, cur);
> dput(parent_dentry);
>
> if (IS_ERR(dentry))
> break;
> }
> return dentry;
> }
```

Eric

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