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Subject: Re: [PATCH 00/11] sysfs tagged directories V5

Posted by [serue](#) on Tue, 10 Jun 2008 22:50:24 GMT

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Quoting Benjamin Thery (benjamin.thery@bull.net):

> Greg,

>

> Here is an updated version of the sysfs tagged directories that improves  
> a bit the situation over the previous one.

>

> I've modified the patch 09 ("Enable tagging for net\_class directories in  
> sysfs") to be a bit less intrusive in sysfs core. I removed the #ifdef'd  
> parts you didn't like in fs/sysfs/mount.c, and replaced it by a generic  
> routine sysfs\_ns\_exit() that is called, if needed, by the namespace when  
> it exits. This routine goes through every sysfs super blocks and calls  
> the callback passed by the namespace to clean its tag.

>

> The patch is now splitted in two:

> \* 09/11: the generic routine,

> \* 10/11: the remaining network parts.

>

> The generic part can be merge with patch 05 ("sysfs: Implement sysfs  
> tagged directory support.") but I left it separate for now to ease  
> reviews.

Thanks. Not nearly as radical as I'd feared.

Greg, does this address your concern? It stops the need to put any non-braindead code (i.e. the \_exit notifier stuff) in fs/sysfs/mount.c for any new namespaces needing sysfs tagging, leaving only simple comparison/assignments.

> Serge's patch for user namespace is modified to use this new service too.  
> No more #ifdef CONFIG\_NET or #ifdef CONFIG\_USER\_NS in fs/sysfs/mount.c  
> now.

>

>

> But, currently, a new namespace that wants to add its tag to sysfs dirs  
> still need to modify fs/sysfs/mount.c in a few routines to manage the  
> new tag member added in struct sysfs\_tag\_info: sysfs\_fill\_super(),  
> sysfs\_test\_super(), sysfs\_kill\_sb() (see the last two patches).  
> These changes are only the initialization and a bunch of comparisons.

>

> If we really want to go further, to get rid of these, I've thought  
> about:

>

> \* Extending sysfs\_tagged\_dir\_operations with super blocks operations:  
> - fill\_sb\_tag, test\_sb\_tag, kill\_sb\_tag

>  
> \* Add routines in sysfs to allow registration/unregistration of these  
> operations structs in a list:  
> - sysfs\_register\_tagged\_dir\_ops()...  
>  
> \* Each subsystem concerned implements and registers its operations at  
> boot.  
>  
> \* In sysfs\_fill\_super(), sysfs\_test\_super() and sysfs\_kill\_sb(), add  
> loops to go through all registered operations structs and calls the  
> corresponding operations if it's present.  
>  
> But... I thought it was a bit overkill for the few namespaces that will  
> actually need sysfs tagged directories.

Agreed. We expect device namespaces... anything else?

thanks,  
-serge

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