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Subject: Re: [PATCHSET 3/4] sysfs: divorce sysfs from kobject and driver model  
Posted by [Greg KH](#) on Tue, 09 Oct 2007 22:51:39 GMT  
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On Fri, Oct 05, 2007 at 06:12:41AM -0600, Eric W. Biederman wrote:

> Greg KH <greg@kroah.com> writes:

> >

> >> Also fun is that the dev file implementation needs to be able to

> >> report different major:minor numbers based on which mount of

> >> sysfs we are dealing with.

> >

> > Um, no, that's not going to happen. /dev/sda will always have the  
> > same major:minor number, as defined by the LSB spec. You can not break  
> > that at all. So while you might not want to show all mounts  
> > /sys/devices/block/sda/ the ones that you do, will all have the LSB  
> > defined major:minor number assigned to it.

>

> Hmm. If that is in the LSB it must come from

> Documentation/devices.txt

Yes, that is the requirement.

> I'm not after changing the user visible major/minor assignments.

Oh, I misunderstood what you wrote above then.

> Let me see if a concrete example will help. Suppose I have  
> have a SAN with two disks: disk-1 and disk-2. I have  
> two machines A and B. On machine A I get the mapping:  
> sda -> disk-1, sdb -> disk-2. On machine B I wind up with  
> a different probe order so I get the mapping: sda -> disk-2  
> sdb -> disk-1.

Ok.

> To be very clear by sda I mean the block device with major 8 and  
> minor 0, and by sdb I mean the block device with major 8 and minor  
> 16.

Ok.

> So I decide I want an environment on machine B that looks just  
> like the environment on machine A, so I can bring transfer over  
> a running program or whatever. So I run around looking at UUID  
> labels and what not and I discover that the machine B knows disk-1 as  
> sdb and that machine A knows disk-1 as sda. So I want to say:  
> /sys/devices/block/sdb show up in this other device namespace as  
> /sys/devices/block/sda.

Ah, but if you do that then the "other" device namespace would have /sys/devices/block/sda/dev be 8:16, right? And that is not valid as sda for that namespace must always map to the device with a 8:0 major:minor as per the LSB spec.

So, no, that's not going to be allowed, sorry.

thanks,

greg k-h

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