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Subject: Re: Loadable cgroup subsystems

Posted by [Paul Menage](#) on Tue, 08 Apr 2008 09:41:16 GMT

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On Tue, Apr 8, 2008 at 2:40 AM, Nikanth Karthikesan <[knikanth@suse.de](mailto:knikanth@suse.de)> wrote:

> >

> > I'd rather not add support for this without a strong case of a  
> > subsystem that really needs to be dynamically loaded.

>

> There were some band-width control patches based on cfq + cgroups, which  
> I guess will mandate cfq to be built-in?

>

Yes, or else have built-in stubs for the cgroup subsystem that load  
cfq and the code that uses cfq the first time someone tries to mount  
that subsystem.

Actually, it probably wouldn't be too hard to have cgroups do that  
automatically - support the concept of a stub cgroup that was known  
about at compile time but wasn't active until its first bind, and have  
cgroups dynamically load the relevant modules when the user tried to  
mount it.

Dynamically loading subsystems that aren't even known about at compile  
time would be probably a bit uglier.

Paul

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[Containers@lists.linux-foundation.org](mailto:Containers@lists.linux-foundation.org)

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Subject: RE: Loadable cgroup subsystems

Posted by [Satoshi UCHIDA](#) on Wed, 09 Apr 2008 08:31:58 GMT

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> > There were some band-width control patches based on cfq + cgroups, which

> > I guess will mandate cfq to be built-in?

> >

>

> Yes, or else have built-in stubs for the cgroup subsystem that load  
> cfq and the code that uses cfq the first time someone tries to mount  
> that subsystem.

>

I think that it is too early to decide which band-width control for  
cgroups will \$B!! (Bmandate to be built-in.

Before that, we need more discussion about a band-width control and its \$B!! (Bimplementation).  
I seems that both implementation are still prototype and immature.  
Both implementation would have good points and bad points respectively.

If you want to manage these patchset by one source tree, we should choice adopting means by a build option.  
So, I think that a build option is the better at present, but I guess that it should be better to dynamically load subsystem in future.

I have idea that handles multiple implementation as provisional solution.  
Now, all bandwidth control expands CFQ original code and is valid by build options.  
It is good to be re-implemented as new I/O scheduler which reuses original code.  
Therefore, it became a selectable such as other I/O scheduler (anticipatory, cfq, noop, etc.)  
User can select a suitable scheduler through "scheduler" entry in sysfs.  
In addition, it's possible to use a new controller simultaneously with existing I/O scheduler.  
Unfortunately, this idea would require much modification to each patchset.

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Satoshi UCHIDA

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