Subject: Re: Re: [RFC] libcg: design and plans
Posted by den on Wed, 05 Mar 2008 07:17:47 GMT
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On Tue, 2008-03-04 at 22:15 -0800, Paul Menage wrote:
> Hi Dhaval,
>
> On Tue, Mar 4, 2008 at 7:23 AM, Dhaval Giani <dhaval@linux.vnet.ibm.com> wrote:
> > Hi,
> >
> > We have been working on a library for control groups which would provide
> > simple APIs for programmers to utilize from userspace and make use of
> > control groups.
> >
> > We are still designing the library and the APIs. I've attached the
> > design (as of now) to get some feedback from the community whether we
> > are heading in the correct direction and what else should be addressed.
>
> There are a few things that it would be nice to include in such a
> library, if you're going to develop one:
>
> - the ability to create abstract groups of processes, and resource
> groups, and have the ability to tie these together arbitrarily. E.g
> you might create abstract groups A, B and C, and be able to say that A
> and B share memory with each other but not with C, and all three
> groups are isolated from each other for CPU. Then libcg would mount
> different resource types in different cgroup hierarchies (you would
> probably tell it ahead of time which combinations of sharing you would
> want, in order that it could minimize the number of mounted
> hierarchies). When you tell libcg to move a process into abstract
> group A, it would move it into the appropriate resource group in each
> hierarchy.

There is one more important thing. In addition to the processes you must
unite or provide a way to unite other objects like sockets. This is
needed to create a group-based socket buffer management.

The mapping between socket and a process does not exists right now and,
we can have (virtually), sockets from from different namespaces in one
process.

Regards,
    Den

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Containers@lists.linux-foundation.org
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