Subject: 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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