
Subject: Re: [ckrm-tech] [PATCH 4/6] containers: Simple CPU accounting container subsystem

Posted by [Balbir Singh](#) on Fri, 12 Jan 2007 06:24:41 GMT

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Paul Menage wrote:

> On 1/10/07, Balbir Singh <balbir@in.ibm.com> wrote:

>> I have run into a problem running this patch on a powerpc box. Basically,
>> the machine panics as soon as I mount the container filesystem with

>

> This is a multi-processor system?

Yes, it has 4 cpus

>

> My guess is that it's a race in the subsystem API that I've been
> meaning to deal with for some time - basically I've been using
> (<foo>_subsys.subsys_id != -1) to indicate that <foo> is ready for
> use, but there's a brief window during subsystem registration where
> that's not actually true.

>

> I'll add an "active" field in the container_subsys structure, which
> isn't set until registration is completed, and subsystems should use
> that instead. container_register_subsys() will set it just prior to
> releasing callback_mutex, and cpu_acct.c (and other subsystems) will
> check <foo>_subsys.active rather than (<foo>_subsys.subsys_id != -1)

>

I tried something similar, I added an activated field, which is set to true when the ->create() callback is invoked. That did not help either, the machine still panic'ed.

>> I am trying to figure out the reason for the panic and trying to find
>> a fix. Since the introduction of whole hierarchy system, the debugging
>> has gotten a bit harder and taking longer, hence I was wondering if you
>> had any clues about the problem

>>

>

> Yes, the multi-hierarchy support does make the whole code a little
> more complex - but people presented reasonable scenarios where a
> single container tree for all resource controllers just wasn't
> flexible enough.

>

I see the need for it, but I wonder if we should start with that right away. I understand that people might want to group cpusets differently from their grouping of let's say the cpu resource manager. I would still prefer to start with one hierarchy and then

move to multiple hierarchies. I am concerned that adding complexity upfront might turn off people from using the infrastructure.

> Paul

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