Subject: Re: How to draw values for /proc/stat Posted by KAMEZAWA Hiroyuki on Mon, 12 Dec 2011 00:31:16 GMT

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On Sun, 11 Dec 2011 15:50:56 +0100 Glauber Costa <glommer@parallels.com> wrote: > On 12/09/2011 03:55 PM, Glauber Costa wrote: > > On 12/09/2011 12:03 PM, Peter Zijlstra wrote: > >> On Mon, 2011-12-05 at 07:32 -0200, Glauber Costa wrote: > >>> Hi. > >>> >>> Specially Peter and Paul, but all the others: > >>> >>> As you can see in https://lkml.org/lkml/2011/12/4/178, and in my answer >>>> to that, there is a question - one I've asked before but without that >>> much of an audience - of whether /proc files read from process living on >>>> cgroups should display global or per-cgroup resources. > >>> >>>> In the past, I was arguing for a knob to control that, but I recently >>> started to believe that a knob here will only overcomplicate matters: >>>> if you live in a cgroup, you should display only the resources you can >>>> possibly use. Global is for whoever is in the main cgroup. > >>> >>>> Now, it comes two questions: >>>> 1) Do you agree with that, for files like /proc/stat? I think the most >>>> important part is to be consistent inside the system, regardless of what > >>> is done > >> >>> Personally I don't give a rats arse about (/proc vs) cgroups :-) >>> Currently /proc is unaffected by whatever cgroup you happen to be in and >>> that seems to make some sort of sense. > >> >>> Namespaces seem to be about limiting visibility, cgroups about >>> controlling resources. >>> The two things are hopelessly disjoint atm, but I believe someone was > >> looking at this mess. > > I did take a look at this (if anyone else was, I'd like to know so we >> can share some ideas), but I am not convinced we should do anything to > > join them anymore. We virtualization people are to the best of my > > knowledge the only ones doing namespaces. Cgroups, OTOH, got a lot bigger. > > >> What I am mostly concerned about now, is how consistent they will be. > > /proc always being always global indeed does make sense, but my question >> still stands: if you live in a resource-controlled world, why should you

>> even see resources you will never own?

- > > > > >>> IOW a /proc namespace coupled to cgroup scope would do what you want. >>> Now my head hurts... > > >> Mine too. The idea is good, but too broad. Boils down to: How do you > > couple them? And none of the methods I thought about seemed to make any > > sense. > > > > Kamezawa's idea of a mount option is the winner so far.
- >> If we really want to have the values in /proc being opted-in, I think
- > > >
- > Ok:
- > How about the following patch to achieve this?

Hmm, What I thought was mount option for procfs. Containers will mount its own /proc file systems. Do you have any pros. / cons. ? IIUC, cgroup can be mounted per subsystems. Then, options can be passed per subsystems. It's a mess but we don't need to bring this to procfs.

How about

# mount -t procfs proc /container\_root/proc -o cgroup\_aware

to show cgroup aware procfs? I think this will be easy to be used with namespace/chroot, etc.

Thanks,

-Kame