

---

Subject: Re: [PATCH v7 02/10] foundations of per-cgroup memory pressure controlling.

Posted by [Glauber Costa](#) on Mon, 05 Dec 2011 09:06:20 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

On 12/04/2011 11:59 PM, KAMEZAWA Hiroyuki wrote:

> On Fri, 2 Dec 2011 15:46:46 -0200

> Glauber Costa<glommer@parallels.com> wrote:

>

>>

>>>> static void proto\_seq\_printf(struct seq\_file \*seq, struct proto \*proto)

>>>> {

>>>> + struct mem\_cgroup \*memcg = mem\_cgroup\_from\_task(current);

>>>> +

>>>> seq\_printf(seq, "%-9s %4u %6d %6ld %-3s %6u %-3s %-10s "

>>>> "%2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c %2c\n",

>>>> proto->name,

>>>> proto->obj\_size,

>>>> sock\_prot\_inuse\_get(seq\_file\_net(seq), proto),

>>>> - proto->memory\_allocated != NULL ? atomic\_long\_read(proto->memory\_allocated) : -1L,

>>>> - proto->memory\_pressure != NULL ? \*proto->memory\_pressure ? "yes" : "no" : "NI",

>>>> + sock\_prot\_memory\_allocated(proto, memcg),

>>>> + sock\_prot\_memory\_pressure(proto, memcg),

>>>

>>> I wonder I should say NO, here. (Networking guys are ok ??)

>>>

>>> IIUC, this means there is no way to see aggregated sockstat of all system.

>>> And the result depends on the cgroup which the caller is under control.

>>>

>>> I think you should show aggregated sockstat(global + per-memcg) here and

>>> show per-memcg ones via /cgroup interface or add private\_sockstat to show

>>> per cgroup summary.

>>>

>>

>> Hi Kame,

>>

>> Yes, the statistics displayed depends on which cgroup you live.

>> Also, note that the parent cgroup here is always updated (even when

>> use\_hierarchy is set to 0). So it is always possible to grab global

>> statistics, by being in the root cgroup.

>>

>> For the others, I believe it to be a question of naturalization. Any

>> tool that is fetching these values is likely interested in the amount of

>> resources available/used. When you are on a cgroup, the amount of

>> resources available/used changes, so that's what you should see.

>>

>> Also brings the point of resource isolation: if you shouldn't interfere

>> with other set of process' resources, there is no reason for you to see  
>> them in the first place.  
>>  
>> So given all that, I believe that whenever we talk about resources in a  
>> cgroup, we should talk about cgroup-local ones.  
>  
> But you changes /proc/ information without any arguments with other guys.  
> If you go this way, you should move this patch as independent add-on patch  
> and discuss what this should be. For example, /proc/meminfo doesn't reflect  
> memcg's information (for now). And scheduler statiscits in /proc/stat doesn't  
> reflect cgroup's information.

No, I do not.

I may not have discussed it with everybody, but I did send some mails  
about it a while ago:

<https://lkml.org/lkml/2011/10/3/60> (I sent it to containers as well  
once, but I now realize it was during the time the ML was down).

At the time, \*I\* was probably the only one, arguing not to do it. I've  
changed my mind since then.

> So, please discuss the problem in open way. This issue is not only related to  
> this patch but also to other cgroups. Sneaking this kind of \_big\_ change in  
> a middle of complicated patch series isn't good.

Absolutely. I can even remove this entirely and queue it for a following  
patchset if you prefer.

> In short, could you divide this patch into a independent patch and discuss  
> again ? If we agree the general diection should go this way, other guys will  
> post patches for cpu, memory, blkio, etc.

Yes I can.

I am expanding the CC list here so other people that cares for other  
controllers can chime in. You are welcome to give your opinion as the  
memcg maintainer as well.

---