
Subject: Re: Re: [RFD][PATCH] memcg: Move Usage at Task Move
Posted by [KAMEZAWA Hiroyuki](#) on Wed, 11 Jun 2008 12:51:03 GMT
[View Forum Message](#) <> [Reply to Message](#)

----- Original Message -----

>On Wed, 11 Jun 2008 13:57:34 +0530

>Balbir Singh <balbir@linux.vnet.ibm.com> wrote:

>

>(snip)

>

>> >> 2. Don't move any usage at task move. (current implementation.)

>> >> Pros.

>> >> - no complication in the code.

>> >> Cons.

>> >> - A task's usage is charged to wrong cgroup.

>> >> - Not sure, but I believe the users don't want this.

>> >

>> > I'd say stick with this unless there are strong arguments in favour of

>> > changing, based on concrete needs.

>> >

>> >> One reason is that I think a typical usage of memory controller is

>> >> fork()->move->exec(). (by libcg ?) and exec() will flush the all usage.

>> >

>> > Exactly - this is a good reason *not* to implement move - because then

>> > you drag all the usage of the middleware daemon into the new cgroup.

>> >

>>

>> Yes. The other thing is that charges will eventually fade away. Please see
the

>> cgroup implementation of page_referenced() and mark_page_accessed(). The

>> original group on memory pressure will drop pages that were left behind by
a

>> task that migrates. The new group will pick it up if referenced.

>>

>Hum..

>So, it seems that some kind of "Lazy Mode" (#3 of Kamezawa-san's)

>has been implemented already.

>

>But, one of the reason that I think usage should be moved

>is to make the usage as accurate as possible, that is

>the size of memory used by processes in the group at the moment.

>

>I agree that statistics is not the purpose of memcg(and swap),

>but, IMHO, it's useful feature of memcg.

>Administrators can know how busy or idle each groups are by it.

>

One more point. This kind of lazy "drop" approach cannot work well when
there are locked processes. lazy "move" approach is better if we do in lazy

way. And how quickly they drops depends on vm.swappiness.

Anyway, I don't like complicated logic in the kernel.

So, let's see how simple "move" can be implemented. Then, it will be just a trade-off problem, IMHO.

If policy is fixed, implementation itself will not be complicated, I think.

Thanks,

-Kame

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>
