
Subject: Re: [PATCH v5 06/14] memcg: kmem controller infrastructure
Posted by [Glauber Costa](#) on Mon, 22 Oct 2012 12:34:15 GMT
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On 10/20/2012 12:34 AM, David Rientjes wrote:

> On Fri, 19 Oct 2012, Glauber Costa wrote:

>

>>>>> What about gfp & __GFP_FS?

>>>>>

>>>>

>>>> Do you intend to prevent or allow OOM under that flag? I personally
>>>> think that anything that accepts to be OOM-killed should have GFP_WAIT
>>>> set, so that ought to be enough.

>>>>

>>>

>>> The oom killer in the page allocator cannot trigger without __GFP_FS
>>> because direct reclaim has little chance of being very successful and
>>> thus we end up needlessly killing processes, and that tends to happen
>>> quite a bit if we dont check for it. Seems like this would also happen
>>> with memcg if mem_cgroup_reclaim() has a large probability of failing?

>>>

>>

>> I can indeed see tests for GFP_FS in some key locations in mm/ before
>> calling the OOM Killer.

>>

>> Should I test for GFP_IO as well?

>

> It's not really necessary, if __GFP_IO isn't set then it wouldn't make
> sense for __GFP_FS to be set.

>

>> If the idea is preventing OOM to
>> trigger for allocations that can write their pages back, how would you
>> feel about the following test:

>>

>> may_oom = (gfp & GFP_KERNEL) && !(gfp & __GFP_NORETRY) ?

>>

>

> I would simply copy the logic from the page allocator and only trigger oom
> for __GFP_FS and !__GFP_NORETRY.

>

That seems reasonable to me. Michal ?
