## Subject: Re: [PATCH v5 06/14] memcg: kmem controller infrastructure Posted by David Rientjes on Fri, 19 Oct 2012 20:34:04 GMT

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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.
```