Subject: Re: [PATCH v5 06/14] memcg: kmem controller infrastructure Posted by David Rientjes on Thu, 18 Oct 2012 21:59:44 GMT

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On Thu, 18 Oct 2012, Glauber Costa wrote:

```
>>> @ @ -2630,6 +2634,171 @ @ static void __mem_cgroup_commit_charge(struct
mem_cgroup *memcg,
>>> memcg check events(memcg, page);
>>> }
> >>
>>> +#ifdef CONFIG MEMCG KMEM
>>> +static inline bool memcg_can_account_kmem(struct mem_cgroup *memcg)
> >> +{
>>> + return !mem_cgroup_disabled() && !mem_cgroup_is_root(memcg) &&
>>> + (memcg->kmem_accounted & KMEM_ACCOUNTED_MASK);
> >> +}
> >> +
>>> +static int memcg charge kmem(struct mem cgroup *memcg, gfp t gfp, u64 size)
> >> +{
>>> + struct res counter *fail res;
>>> + struct mem_cgroup *_memcg;
>>> + int ret = 0;
>>> + bool may_oom;
> >> +
>>> + ret = res_counter_charge(&memcg->kmem, size, &fail_res);
> >> + if (ret)
>>> + return ret;
> >> +
> >> + /*
>>> + * Conditions under which we can wait for the oom killer.
>>> + * We have to be able to wait, but also, if we can't retry,
>>> + * we obviously shouldn't go mess with oom.
>>> + */
> >> + may_oom = (gfp & __GFP_WAIT) && !(gfp & __GFP_NORETRY);
>> 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

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