Subject: Re: [PATCH v3 05/28] memcg: Reclaim when more than one page needed.
Posted by Christoph Lameter on Tue, 29 May 2012 14:19:02 GMT
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On Fri, 25 May 2012, Glauber Costa wrote:

> From: Suleiman Souhlal <ssouhlal@FreeBSD.org>
>
> mem_cgroup_do_charge() was written before slab accounting, and expects
> three cases: being called for 1 page, being called for a stock of 32 pages,
> or being called for a hugepage. If we call for 2 pages (and several slabs
> used in process creation are such, at least with the debug options I had),
> it assumed it's being called for stock and just retried without reclaiming.

Slab pages are allocated up to order 3 (PAGE_ALLOC_COSTLY_ORDER). That is
8 pages.

>   * unlikely to succeed so close to the limit, and we fall back
>   * to regular pages anyway in case of failure.
>   */
> - if (nr_pages == 1 && ret)
> + if (nr_pages <= (PAGE_SIZE << PAGE_ALLOC_COSTLY_ORDER) && ret) {
> + cond_resched();
>   return CHARGE_RETRY;
> + }
>
>   /*
>   * At task move, charge accounts can be doubly counted. So, it's

Ok. That looks correct.