
Subject: Re: [PATCH v4 06/25] memcg: Make it possible to use the stock for more than one page.

Posted by [Michal Hocko](#) on Wed, 20 Jun 2012 13:28:04 GMT

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On Mon 18-06-12 14:27:59, Glauber Costa wrote:

> From: Suleiman Souhlal <ssouhlal@FreeBSD.org>

>

> Signed-off-by: Suleiman Souhlal <suleiman@google.com>

> Signed-off-by: Glauber Costa <glommer@parallels.com>

> Acked-by: Kamezawa Hiroyuki <kamezawa.hiroyu@jp.fujitsu.com>

I am not sure the patch is good to merge on its own without the rest.

One comment bellow.

> ---

> mm/memcontrol.c | 18 ++++++++-----

> 1 file changed, 9 insertions(+), 9 deletions(-)

>

> diff --git a/mm/memcontrol.c b/mm/memcontrol.c

> index ce15be4..00b9f1e 100644

> --- a/mm/memcontrol.c

> +++ b/mm/memcontrol.c

> @@ -1998,19 +1998,19 @@ static DEFINE_PER_CPU(struct memcg_stock_pcp,
memcg_stock);

> static DEFINE_MUTEX(percpu_charge_mutex);

>

> /*

> - * Try to consume stocked charge on this cpu. If success, one page is consumed

> - * from local stock and true is returned. If the stock is 0 or charges from a

> - * cgroup which is not current target, returns false. This stock will be

> - * refilled.

> + * Try to consume stocked charge on this cpu. If success, nr_pages pages are

> + * consumed from local stock and true is returned. If the stock is 0 or

> + * charges from a cgroup which is not current target, returns false.

> + * This stock will be refilled.

> */

> -static bool consume_stock(struct mem_cgroup *memcg)

> +static bool consume_stock(struct mem_cgroup *memcg, int nr_pages)

> {

> struct memcg_stock_pcp *stock;

> bool ret = true;

I guess you want:

```
if (nr_pages > CHARGE_BATCH)
```

```
return false;
```

because you don't want to try to use stock for THP pages.

```

>
> stock = &get_cpu_var(memcg_stock);
> - if (memcg == stock->cached && stock->nr_pages)
> - stock->nr_pages--;
> + if (memcg == stock->cached && stock->nr_pages >= nr_pages)
> + stock->nr_pages -= nr_pages;
> else /* need to call res_counter_charge */
> ret = false;
> put_cpu_var(memcg_stock);
> @@ -2309,7 +2309,7 @@ again:
> VM_BUG_ON(css_is_removed(&memcg->css));
> if (mem_cgroup_is_root(memcg))
> goto done;
> - if (nr_pages == 1 && consume_stock(memcg))
> + if (consume_stock(memcg, nr_pages))
> goto done;
> css_get(&memcg->css);
> } else {
> @@ -2334,7 +2334,7 @@ again:
> rcu_read_unlock();
> goto done;
> }
> - if (nr_pages == 1 && consume_stock(memcg)) {
> + if (consume_stock(memcg, nr_pages)) {
> /*
> * It seems dagerous to access memcg without css_get().
> * But considering how consume_stok works, it's not
> --
> 1.7.10.2
>
> --
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