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Subject: [PATCH v3 04/28] memcg: Make it possible to use the stock for more than one page.

Posted by [Glauber Costa](#) on Fri, 25 May 2012 13:03:24 GMT

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mm/memcontrol.c | 18 ++++++-----  
1 files changed, 9 insertions(+), 9 deletions(-)

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

index 0b4b4c8..248d80b 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;

  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
--
1.7.7.6

```

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