
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
```
