
Subject: Re: [PATCH v2 03/13] memcg: Uncharge all kmem when deleting a cgroup.

Posted by [Suleiman Souhlal](#) on Tue, 13 Mar 2012 23:16:18 GMT

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On Sun, Mar 11, 2012 at 12:19 AM, Glauber Costa <glommer@parallels.com> wrote:

> On 03/10/2012 12:39 AM, Suleiman Souhlal wrote:

>>

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

>> ---

>> mm/memcontrol.c | 31 ++++++

>> 1 files changed, 30 insertions(+), 1 deletions(-)

>>

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

>> index e6fd558..6fbb438 100644

>> --- a/mm/memcontrol.c

>> +++ b/mm/memcontrol.c

>> @@ -382,6 +382,7 @@ static void mem_cgroup_get(struct mem_cgroup *memcg);

>> static void mem_cgroup_put(struct mem_cgroup *memcg);

>> static void memcg_kmem_init(struct mem_cgroup *memcg,

>> struct mem_cgroup *parent);

>> +static void memcg_kmem_move(struct mem_cgroup *memcg);

>>

>> static inline bool

>> mem_cgroup_test_flag(const struct mem_cgroup *memcg, enum memcg_flags
>> flag)

>> @@ -3700,6 +3701,7 @@ static int mem_cgroup_force_empty(struct mem_cgroup
>> *memcg, bool free_all)

>> int ret;

>> int node, zid, shrink;

>> int nr_retries = MEM_CGROUP_RECLAIM_RETRIES;

>> + unsigned long usage;

>> struct cgroup *cgrp = memcg->css.cgroup;

>>

>> css_get(&memcg->css);

>> @@ -3719,6 +3721,8 @@ move_account:

>> /* This is for making all *used* pages to be on LRU. */

>> lru_add_drain_all();

>> drain_all_stock_sync(memcg);

>> + if (!free_all)

>> + memcg_kmem_move(memcg);

>

> Any reason we're not moving kmem charges when free_all is set as well?

Because the slab moving code expects to be synchronized with allocations (and itself). We can't call it when there are still tasks in the cgroup.

-- Suleiman
