
Subject: [PATCH v2 2/2] cgroup: get rid of populate for memcg

Posted by [Glauber Costa](#) on Thu, 22 Mar 2012 18:19:23 GMT

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The last man standing justifying the need for populate() is the sock memcg initialization functions. Now that we are able to pass a struct mem_cgroup instead of a struct cgroup to the socket initialization, there is nothing that stops us from initializing everything in create().

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

CC: Tejun Heo <tj@kernel.org>

mm/memcontrol.c | 16 +++++-----

1 files changed, 5 insertions(+), 11 deletions(-)

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

index d43bfa0..efa29b8 100644

--- a/mm/memcontrol.c

+++ b/mm/memcontrol.c

@@ -4584,7 +4584,7 @@ static int mem_control_numa_stat_open(struct inode *unused, struct file *file)

#endif /* CONFIG_NUMA */

#ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM

-static int register_kmem_files(struct mem_cgroup *memcg, struct cgroup_subsys *ss)

+static int memcg_init_kmem(struct mem_cgroup *memcg, struct cgroup_subsys *ss)

{
 return mem_cgroup_sockets_init(memcg, ss);
};

@@ -4594,7 +4594,7 @@ static void kmem_cgroup_destroy(struct mem_cgroup *memcg)

mem_cgroup_sockets_destroy(memcg);

}

#else

-static int register_kmem_files(struct mem_cgroup *memcg, struct cgroup_subsys *ss)

+static int memcg_init_kmem(struct mem_cgroup *memcg, struct cgroup_subsys *ss)

{
 return 0;

}

@@ -4932,7 +4932,9 @@ mem_cgroup_create(struct cgroup *cont)

atomic_set(&memcg->refcnt, 1);

memcg->move_charge_at_immigrate = 0;

mutex_init(&memcg->thresholds_lock);

- return &memcg->css;

+

+ if (!memcg_init_kmem(memcg, &mem_cgroup_subsys))

+ return &memcg->css;

free_out:

```

__mem_cgroup_free(memcg);
return ERR_PTR(error);
@@ -4954,13 +4956,6 @@ static void mem_cgroup_destroy(struct cgroup *cont)
    mem_cgroup_put(memcg);
}

```

```

-static int mem_cgroup_populate(struct cgroup_subsys *ss,
-    struct cgroup *cont)
-{
- struct mem_cgroup *memcg = mem_cgroup_from_cont(cont);
- return register_kmem_files(memcg, ss);
-}
-

```

```

#ifdef CONFIG_MMU
/* Handlers for move charge at task migration. */
#define PRECHARGE_COUNT_AT_ONCE 256
@@ -5468,7 +5463,6 @@ struct cgroup_subsys mem_cgroup_subsys = {
    .create = mem_cgroup_create,
    .pre_destroy = mem_cgroup_pre_destroy,
    .destroy = mem_cgroup_destroy,
- .populate = mem_cgroup_populate,
    .can_attach = mem_cgroup_can_attach,
    .cancel_attach = mem_cgroup_cancel_attach,
    .attach = mem_cgroup_move_task,
--

```

1.7.7.6
