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Subject: [RFC 4/4] memcg: do not walk all the way to the root for memcg

Posted by [Glauber Costa](#) on Tue, 25 Sep 2012 08:52:53 GMT

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Since the root is special anyway, and we always get its figures from global counters anyway, there is no make all cgroups its descendants, wrt res\_counters. The sad effect of doing that is that we need to lock the root for all allocations, since it is a common ancestor of everybody.

Not having the root as a common ancestor should lead to better scalability for not-uncommon case of tasks in the cgroup being node-bound to different nodes in NUMA systems.

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mm/memcontrol.c | 2 +-

1 file changed, 1 insertion(+), 1 deletion(-)

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

index f8115f0..829ea9e 100644

--- a/mm/memcontrol.c

+++ b/mm/memcontrol.c

@@ -5720,7 +5720,7 @@ mem\_cgroup\_create(struct cgroup \*cont)

  static\_key\_slow\_inc(&memcg\_in\_use\_key);

}

- if (parent && parent->use\_hierarchy) {

+ if (parent && !mem\_cgroup\_is\_root(parent) && parent->use\_hierarchy) {

  struct mem\_cgroup \_\_maybe\_unused \*p;

  res\_counter\_init(&memcg->res, &parent->res);

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1.7.11.4

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