
Subject: [PATCH] cgroup: prefer [kv]zalloc over [kv]malloc+memset in memory controller code.

Posted by [Jesper Juhl](#) on Mon, 01 Nov 2010 19:40:56 GMT

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Hi (please CC me on replies),

Apologies to those who receive this multiple times. I screwed up the To: field in my original mail :-(

In `mem_cgroup_alloc()` we currently do either `kmalloc()` or `vmalloc()` then followed by `memset()` to zero the memory. This can be more efficiently achieved by using `kzalloc()` and `vzalloc()`.

Signed-off-by: Jesper Juhl <jj@chaosbits.net>

memcontrol.c | 5 ++---

1 file changed, 2 insertions(+), 3 deletions(-)

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

index 9a99cfa..90da698 100644

--- a/mm/memcontrol.c

+++ b/mm/memcontrol.c

@@ -4199,14 +4199,13 @@ static struct mem_cgroup *mem_cgroup_alloc(void)

/* Can be very big if MAX_NUMNODES is very big */

if (size < PAGE_SIZE)

- mem = kmalloc(size, GFP_KERNEL);

+ mem = kzalloc(size, GFP_KERNEL);

else

- mem = vmalloc(size);

+ mem = vzalloc(size);

if (!mem)

return NULL;

- memset(mem, 0, size);

mem->stat = alloc_percpu(struct mem_cgroup_stat_cpu);

if (!mem->stat) {

if (size < PAGE_SIZE)

--

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