Subject: Re: [PATCH v6 1/8] Basic kernel memory functionality for the Memory Controller Posted by Greg Thelen on Thu, 13 Oct 2011 07:18:49 GMT View Forum Message <> Reply to Message On Mon, Oct 10, 2011 at 3:24 AM, Glauber Costa <glommer@parallels.com> wrote: > diff --git a/Documentation/cgroups/memory.txt b/Documentation/cgroups/memory.txt > index 06eb6d9..bf00cd2 100644 > --- a/Documentation/cgroups/memory.txt > +++ b/Documentation/cgroups/memory.txt > @ @ -255,6 +262,31 @ @ When oom event notifier is registered, event will be delivered. > per-zone-per-cgroup LRU (cgroup's private LRU) is just guarded by zone->lru_lock, it has no lock of its own. > +2.7 Kernel Memory Extension (CONFIG_CGROUP_MEM_RES_CTLR_KMEM) > + With the Kernel memory extension, the Memory Controller is able to limit Extra leading space before 'With'. > +the amount of kernel memory used by the system. Kernel memory is fundamentally > +different than user memory, since it can't be swapped out, which makes it > +possible to DoS the system by consuming too much of this precious resource. > +Kernel memory limits are not imposed for the root cgroup. > + > +Memory limits as specified by the standard Memory Controller may or may not > +take kernel memory into consideration. This is achieved through the file > +memory.independent_kmem_limit. A Value different than 0 will allow for kernel s/Value/value/ > diff --git a/mm/memcontrol.c b/mm/memcontrol.c > index 3508777..d25c5cb 100644 > --- a/mm/memcontrol.c > +++ b/mm/memcontrol.c > +static int kmem limit independent write(struct cgroup *cont, struct cftype *cft,

I do not think cgroup_lock,unlock are needed here. The cont and associated cgroup should be guaranteed by the caller to be valid. Does this lock provide some other synchronization?

mem_cgroup_from_cont(cont)->kmem_independent_accounting = !!val;

u64 val)

cgroup lock();

cgroup_unlock();

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