## Subject: Re: [PATCH v6 1/8] Basic kernel memory functionality for the Memory Controller

Posted by Glauber Costa on Thu, 13 Oct 2011 08:19:37 GMT

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On 10/13/2011 11:18 AM, Greg Thelen wrote:
> 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,
                            u64 val)
>> +
>> +{
        cgroup_lock();
>> +
        mem_cgroup_from_cont(cont)->kmem_independent_accounting = !!val;
>> +
        cgroup_unlock();
>> +
> 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?
```

Yeah, I think I was being overcautious.

With the following comments addressed, can I add your Reviewed-by to this one ?