
Subject: Re: [PATCH 04/11] kmem slab accounting basic infrastructure

Posted by [Glauber Costa](#) on Tue, 26 Jun 2012 07:09:24 GMT

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On 06/26/2012 08:22 AM, David Rientjes wrote:

> On Mon, 25 Jun 2012, Glauber Costa wrote:

>

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

>> index 9352d40..6f34b77 100644

>> --- a/mm/memcontrol.c

>> +++ b/mm/memcontrol.c

>> @@ -265,6 +265,10 @@ struct mem_cgroup {

>> };

>>

>> /*

>> + * the counter to account for kernel memory usage.

>> + */

>> + struct res_counter kmem;

>> + /*

>> * Per cgroup active and inactive list, similar to the

>> * per zone LRU lists.

>> */

>> @@ -279,6 +283,7 @@ struct mem_cgroup {

>> * Should the accounting and control be hierarchical, per subtree?

>> */

>> bool use_hierarchy;

>> + bool kmem_accounted;

>>

>> bool oom_lock;

>> atomic_t under_oom;

>> @@ -391,6 +396,7 @@ enum res_type {

>> _MEM,

>> _MEMSWAP,

>> _OOM_TYPE,

>> + _KMEM,

>> };

>>

>> #define MEMFILE_PRIVATE(x, val) ((x) << 16 | (val))

>> @@ -1438,6 +1444,10 @@ done:

>> res_counter_read_u64(&memcg->memsw, RES_USAGE) >> 10,

>> res_counter_read_u64(&memcg->memsw, RES_LIMIT) >> 10,

>> res_counter_read_u64(&memcg->memsw, RES_FAILCNT));

>> + printk(KERN_INFO "kmem: usage %lluKB, limit %lluKB, failcnt %llu\n",

>> + res_counter_read_u64(&memcg->kmem, RES_USAGE) >> 10,

>> + res_counter_read_u64(&memcg->kmem, RES_LIMIT) >> 10,

>> + res_counter_read_u64(&memcg->kmem, RES_FAILCNT));

>> }

>>

```
>> /*
>> @@ -3879,6 +3889,11 @@ static ssize_t mem_cgroup_read(struct cgroup *cont, struct cftype
>> *cft,
>>     else
>>     val = res_counter_read_u64(&memcg->memsw, name);
>>     break;
>> +#ifdef CONFIG_CGROUP_MEM_RES_CTLR_KMEM
>> + case _KMEM:
>> + val = res_counter_read_u64(&memcg->kmem, name);
>> + break;
>> +#endif
>
> This shouldn't need an #ifdef, ->kmem is available on all
> CONFIG_CGROUP_MEM_RES_CTLR kernels. Same with several of the other
> instances in this patch.
>
> Can't these instances be addressed by not adding kmem_cgroup_files without
> CONFIG_CGROUP_MEM_RES_CTLR_KMEM?
```

Yes, it can.
