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Subject: Re: [PATCH v2 19/29] skip memcg kmem allocations in specified code regions

Posted by [Glauber Costa](#) on Wed, 16 May 2012 06:19:15 GMT

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On 05/15/2012 06:46 AM, KAMEZAWA Hiroyuki wrote:

> (2012/05/12 2:44), Glauber Costa wrote:

>

>> This patch creates a mechanism that skip memcg allocations during  
>> certain pieces of our core code. It basically works in the same way  
>> as preempt\_disable()/preempt\_enable(): By marking a region under  
>> which all allocations will be accounted to the root memcg.

>>

>> We need this to prevent races in early cache creation, when we  
>> allocate data using caches that are not necessarily created already.

>>

>> Signed-off-by: Glauber Costa<glommer@parallels.com>

>> CC: Christoph Lameter<cl@linux.com>

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>> CC: Kamezawa Hiroyuki<kamezawa.hiroyu@jp.fujitsu.com>

>> CC: Johannes Weiner<hannes@cmpxchg.org>

>> CC: Suleiman Souhlal<suleiman@google.com>

>

>

> The concept seems okay to me but...

>

>> ---

>> include/linux/sched.h | 1 +

>> mm/memcontrol.c | 25 ++++++

>> 2 files changed, 26 insertions(+), 0 deletions(-)

>>

>> diff --git a/include/linux/sched.h b/include/linux/sched.h

>> index 81a173c..0501114 100644

>> --- a/include/linux/sched.h

>> +++ b/include/linux/sched.h

>> @@ -1613,6 +1613,7 @@ struct task\_struct {

>> unsigned long nr\_pages; /\* uncharged usage \*/

>> unsigned long memsw\_nr\_pages; /\* uncharged mem+swap usage \*/

>> } memcg\_batch;

>> + atomic\_t memcg\_kmem\_skip\_account;

>

>

> If only 'current' thread touch this, you don't need to make this atomic counter.

> you can use 'long'.

>

You're absolutely right, Kame, thanks.

I first used atomic\_t because I had it tested against current->mm->owner.

Do you, btw, agree to use current instead of owner here?  
You can find the rationale in earlier mails between me and Suleiman.

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