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

Posted by [KAMEZAWA Hiroyuki](#) on Tue, 15 May 2012 02:46:48 GMT

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(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>  
> CC: Pekka Enberg <penberg@cs.helsinki.fi>  
> CC: Michal Hocko <mhocko@suse.cz>  
> 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'.

Thanks,  
-Kame

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