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Subject: Re: [PATCH v5 07/14] mm: Allocate kernel pages to the right memcg  
Posted by [Glauber Costa](#) on Thu, 18 Oct 2012 11:53:37 GMT

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On 10/18/2012 02:12 AM, Andrew Morton wrote:

> On Tue, 16 Oct 2012 14:16:44 +0400

> Glauber Costa <glommer@parallels.com> wrote:

>

>> When a process tries to allocate a page with the `__GFP_KMEMCG` flag, the  
>> page allocator will call the corresponding memcg functions to validate  
>> the allocation. Tasks in the root memcg can always proceed.

>>

>> To avoid adding markers to the page - and a kmem flag that would  
>> necessarily follow, as much as doing `page_cgroup` lookups for no reason,  
>> whoever is marking its allocations with `__GFP_KMEMCG` flag is responsible  
>> for telling the page allocator that this is such an allocation at  
>> `free_pages()` time.

>

> Well, why? Was that the correct decision?

>

>> This is done by the invocation of

>> `__free_accounted_pages()` and `free_accounted_pages()`.

>

> These are very general-sounding names. I'd expect the identifiers to  
> contain "memcg" and/or "kmem", to identify what's going on.

>

I've just changed to `free_memcg_kmem_pages`.

Let me know if the name is better.

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