
Subject: Re: [PATCH] Show slab memory usage on OOM and SysRq-M (v3)
Posted by [Andrew Morton](#) on Fri, 20 Apr 2007 05:08:01 GMT
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On Wed, 18 Apr 2007 11:13:01 +0400 Pavel Emelianov <xemul@sw.ru> wrote:

> The out_of_memory() function and SysRq-M handler call
> show_mem() to show the current memory usage state.
>
> This is also helpful to see which slabs are the largest
> in the system.
>
> Thanks Pekka for good idea of how to make it better.
>
> The nr_pages is stored on kmem_list3 because:
>
> 1. as Eric pointed out, we do not want to defeat
> NUMA optimizations;
> 2. we do not need for additional LOCK-ed operation on
> altering this field - l3->list_lock is already taken
> where needed.
>
> Made naming more descriptive according to Dave.
>
> Signed-off-by: Pavel Emelianov <xemul@openvz.org>
> Signed-off-by: Kirill Korotaev <dev@openvz.org>
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>

This is rather a lot of new code and even new locking.

Any time we actually need this what-the-heck-is-happening-in-slab info, the reporter is able to work out the problem via /proc/slabinfo. Either by taking a look in there before the system dies completely, or by looking in there after the oom-killing.
