Subject: Re: [PATCH 02/11] memcg: Reclaim when more than one page needed. Posted by Glauber Costa on Tue, 26 Jun 2012 09:08:48 GMT

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On 06/26/2012 12:54 PM, David Rientjes wrote: > On Tue, 26 Jun 2012, Glauber Costa wrote: > >>> + \* retries >>> + \*/ >>>> +#define NR PAGES TO RETRY 2 >>>> + >>> >>> Should be 1 << PAGE\_ALLOC\_COSTLY\_ORDER? Where does this number come from?</p> >>> The changelog doesn't specify. >> >> Hocko complained about that, and I changed. Where the number comes from, is >> stated in the comments: it is a number small enough to have high changes of >> had been freed by the previous reclaim, and yet around the number of pages of >> a kernel allocation. >> > > PAGE ALLOC COSTLY ORDER is the threshold used to determine where reclaim > and compaction is deemed to be too costly to continuously retry, I'm not > sure why this is any different? > > And this is certainly not "around the number of pages of a kernel > allocation", that depends very heavily on the slab allocator being used; > slub very often uses order-2 and order-3 page allocations as the default > settings (it is capped at, you guessed it, PAGE ALLOC COSTLY ORDER > internally by default) and can be significantly increased on the command > line. I am obviously okay with either. Maybe Michal can comment on this? >> Of course there are allocations for nr\_pages > 2. But 2 will already service >> the stack most of the time, and most of the slab caches. >> > > Nope, have you checked the output of /sys/kernel/slab/.../order when > running slub? On my workstation 127 out of 316 caches have order-2 or > higher by default. >

Well, this is still on the side of my argument, since this is still a majority of them being low ordered. The code here does not necessarily have to retry - if I understand it correctly - we just retry for very

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