
Subject: Re: [PATCH v3 13/28] slub: create duplicate cache

Posted by [Tejun Heo](#) on Wed, 30 May 2012 01:29:55 GMT

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Hello, Christoph, Glauber.

On Wed, May 30, 2012 at 12:25:36AM +0400, Glauber Costa wrote:

> >We have never worked container like logic like that in the kernel due to
> >the complicated logic you would have to put in. The requirement that all
> >objects in a page come from the same container is not necessary. If you
> >drop this notion then things become very easy and the patches will become
> >simple.

>

> I promise to look at that in more detail and get back to it. In the
> meantime, I think it would be enlightening to hear from other
> parties as well, specially the ones also directly interested in
> using the technology.

I don't think I'm too interested in using the technology ;) and haven't read the code (just glanced through the descriptions and discussions), but, in general, I think the approach of duplicating memory allocator per-memcg is a sane approach. It isn't the most efficient one with the possibility of wasting considerable amount of caching area per memcg but it is something which can mostly stay out of the way if done right and that's how I want cgroup implementations to be.

The two goals for cgroup controllers that I think are important are proper (no, not crazy perfect but good enough) isolation and an implementation which doesn't impact !cg path in an intrusive manner - if someone who doesn't care about cgroup but knows and wants to work on the subsystem should be able to mostly ignore cgroup support. If that means overhead for cgroup users, so be it.

Without looking at the actual code, my rainbow-farting unicorn here would be having a common slXb interface layer which handles interfacing with memory allocator users and cgroup and let slXb implement the same backend interface which doesn't care / know about cgroup at all (other than using the correct allocation context, that is). Glauber, would something like that be possible?

Thanks.

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tejun
