Subject: Re: [RFC][PATCH][0/4] Memory controller (RSS Control) Posted by Balbir Singh on Mon, 19 Feb 2007 10:45:01 GMT

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Magnus Damm wrote:
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- > On 2/19/07, Andrew Morton <akpm@linux-foundation.org> wrote:
- >> On Mon, 19 Feb 2007 12:20:19 +0530 Balbir Singh <balbir@in.ibm.com>
- >> wrote:
- >>
- >> > This patch applies on top of Paul Menage's container patches (V7)
- >> posted at
- >> >
- >> http://lkml.org/lkml/2007/2/12/88
- >> >
- >> > It implements a controller within the containers framework for limiting
- >> > memory usage (RSS usage).
- >
- >> The key part of this patchset is the reclaim algorithm:
- >>
- >> Alas, I fear this might have quite bad worst-case behaviour. One small
- >> container which is under constant memory pressure will churn the
- >> system-wide LRUs like mad, and will consume rather a lot of system time.
- >> So it's a point at which container A can deleteriously affect things
- >> which
- >> are running in other containers, which is exactly what we're supposed to
- >> not do.
- >
- > Nice with a simple memory controller. The downside seems to be that it
- > doesn't scale very well when it comes to reclaim, but maybe that just
- > comes with being simple. Step by step, and maybe this is a good first
- > step?
- >

Thanks, I totally agree.

- > Ideally I'd like to see unmapped pages handled on a per-container LRU
- > with a fallback to the system-wide LRUs. Shared/mapped pages could be
- > handled using PTE ageing/unmapping instead of page ageing, but that
- > may consume too much resources to be practical.
- > / magnus

Keeping unmapped pages per container sounds interesting. I am not quite sure what PTE ageing, will it look it up.

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Warm Regards,

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