
Subject: Re: [ckrm-tech] [PATCH] BC: resource beancounters (v4) (added user memory)

Posted by [Chandra Seetharaman](#) on Fri, 08 Sep 2006 19:23:44 GMT

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On Fri, 2006-09-08 at 11:33 +0400, Pavel Emelianov wrote:

> Chandra Seetharaman wrote:

> > On Thu, 2006-09-07 at 00:47 +0530, Balbir Singh wrote:

> >

> > <snip>

> >> Some not quite so urgent ones - like support for guarantees. I think

> >> this can

> >

> > IMO, guarantee support should be considered to be part of the

> > infrastructure. Controller functionalities/implementation will be

> > different with/without guarantee support. In other words, adding

> > guarantee feature later will cause re-implementations.

> I'm afraid we have different understandings of what a "guarantee" is.

> Don't we?

may be (I am not sure :), lets get it clarified.

> Guarantee may be one of

>

> 1. container will be able to touch that number of pages

> 2. container will be able to sys_mmap() that number of pages

> 3. container will not be killed unless it touches that number of pages

> 4. anything else

I would say (1) with slight modification

"container will be able to touch _at least_ that number of pages"

Note that it is not only in the context of memory alone, it is generic across resources.

For CPU it will be, "container will get _at least_ X ticks in Y seconds"

For number of tasks it will be, "container will get _at least_ X active tasks at any point of time" and so on.

And as Dave pointed, sum of guarantees of all containers _can not_ exceed the total amount of that resource available at the system level.

>

> Let's decide what kind of a guarantee we want.

> >> be worked out as we make progress.

> >>

> >>> I agree with these requirements and lets move into this direction.

> >>> But moving so far can't be done without accepting:
> >>> 1. core functionality
> >>> 2. accounting
> >>>
> >> Some of the core functionality might be a limiting factor for the requirements.
> >> Lets agree on the requirements, I think its a great step forward and then
> >> build the core functionality with these requirements in mind.
> >>
> >>> Thanks,
> >>> Kirill
> >>>
>
>
> -----
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> <https://lists.sourceforge.net/lists/listinfo/ckrm-tech>
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Chandra Seetharaman | Be careful what you choose....
- sekharan@us.ibm.com |you may get it.
