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

Posted by [Balbir Singh](#) on Fri, 08 Sep 2006 18:26:56 GMT

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Dave Hansen wrote:

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

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

>

> It appears so.

>

>> Don't we?

>> 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

>

> A "death sentence" guarantee? I like it. :)

>

>> 4. anything else

>>

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

I think of guarantees w.r.t resources as the lower limit on the resource.

Guarantees and limits can be thought of as the range (guarantee, limit] for the usage of the resource.

>

> I think of it as: "I will be allowed to use this many total pages, and

> they are guaranteed not to fail." (1), I think. The sum of all of the

> system's guarantees must be less than or equal to the amount of free

> memory on the machine.

>

Yes, totally agree.

> If we knew to which NUMA node the memory was going to go, we might as

> well take the pages out of the allocator.

>

> -- Dave

>

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