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

Posted by [Balbir Singh](#) on Tue, 05 Sep 2006 18:28:49 GMT

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Dave Hansen wrote:

> On Tue, 2006-09-05 at 19:02 +0400, Kirill Korotaev wrote:  
>> Core Resource Beancounters (BC) + kernel/user memory control.  
>>  
>> BC allows to account and control consumption  
>> of kernel resources used by group of processes.  
>  
> Hi Kirill,  
>  
> I've honestly lost track of these discussions along the way, so I hope  
> you don't mind summarizing a bit.  
>  
> Do these patches help with accounting for anything other than memory?  
> Will we need new user/kernel interfaces for cpu, i/o bandwidth, etc...?  
>  
> Have you given any thought to the possibility that a task might need to  
> move between accounting contexts? That has certainly been a  
> "requirement" pushed on to CKRM for a long time, and the need goes  
> something like this:  
>  
> 1. A system runs a web server, which services several virtual domains  
> 2. that web server receives a request for foo.com  
> 3. the web server switches into foo.com's accounting context  
> 4. the web server reads things from disk, allocates some memory, and  
> makes a database request.  
> 5. the database receives the request, and switches into foo.com's  
> accounting context, and charges foo.com for its resource use  
> etc...  
>  
> So, the goal is to run one copy of an application on a system, but  
> account for its resources in a much more fine-grained way than at the  
> application level.  
>  
> I think we can probably use beancounters for this, if we do not worry  
> about migrating existing charges when we change accounting context.  
> Does that make sense?  
>  
> -- Dave

This is much better stated than I did. Thanks!

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