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

Posted by [Dave Hansen](#) on Tue, 05 Sep 2006 17:46:32 GMT

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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
