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

Posted by [Pavel Emelianov](#) on Fri, 08 Sep 2006 07:22:47 GMT

[View Forum Message](#) <> [Reply to Message](#)

Chandra Seetharaman wrote:

[snip]

>>>> The question is - whether web server is multithreaded or not...

>>>> If it is not - then no problem here, you can change current

>>>> context and new resources will be charged accordingly.

>>>>

>>>> And current BC code is _able_ to handle it with _minor_ changes.

>>>> (One just need to save bc not on mm struct, but rather on vma struct

>>>> and change mm->bc on set_bc_id()).

>>>>

>>>> However, no one (can some one from CKRM team please?) explained so far

>>>> what to do with threads. Consider the following example.

>>>>

>>>> 1. Threaded web server spawns a child to serve a client.

>>>> 2. child thread touches some pages and they are charged to child BC

>>>> (which differs from parent's one)

>>>> 3. child exits, but since its mm is shared with parent, these pages

>>>> stay mapped and charged to child BC.

>>>>

>>>> So the question is: what to do with these pages?

>>>> - should we recharge them to another BC?

>>>> - leave them charged?

>>>>

>>>>

>>> Leave them charged. It will be charged to the appropriate UBC when they

>>> touch it again.

>>>

>>>

>> Do you mean that page must be re-charged each time someone touches it?

>>

>

> What I meant is that to leave them charged, and if when they are

> unmapped and mapped later, charge it to the appropriate BC.

>

In this case multithreaded apache that tries to serve each domain in separate BC will fill the memory with BC-s, held by pages allocated and mapped in threads.
