Subject: Re: [ckrm-tech] [PATCH 4/7] UBC: syscalls (user interface) Posted by Andrew Morton on Fri, 18 Aug 2006 16:42:48 GMT View Forum Message <> Reply to Message

On Fri, 18 Aug 2006 07:45:48 -0700 Dave Hansen <haveblue@us.ibm.com> wrote:

> On Fri, 2006-08-18 at 12:08 +0400, Andrey Savochkin wrote:

>>

> > A) Have separate memory management for each container,

>> with separate buddy allocator, Iru lists, page replacement mechanism.

>> That implies a considerable overhead, and the main challenge there

>> is sharing of pages between these separate memory managers.

>

> Hold on here for just a sec...

>

> It is quite possible to do memory management aimed at one container
> while that container's memory still participates in the main VM.
> There is overhead here, as the LRU scanning mechanisms get less
> efficient, but I'd rather pay a penalty at LRU scanning time than divide
> up the VM, or coarsely start failing allocations.

> up the VIM, or coarsely sta

>

I have this mad idea that you can divide a 128GB machine up into 256 fake NUMA nodes, then you use each "node" as a 512MB unit of memory allocation. So that 4.5GB job would be placed within an exclusive cpuset which has nine "mems" (what are these called?) and voila: the job has a hard 4.5GB limit, no kernel changes needed.

Unfortunately this is not testable because numa=fake=256 doesn't come even vaguely close to working. Am trying to get that fixed.

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