Subject: Re: [ckrm-tech] [PATCH 4/7] UBC: syscalls (user interface) Posted by Chandra Seetharaman on Tue, 22 Aug 2006 18:34:18 GMT View Forum Message <> Reply to Message

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On Tue, 2006-08-22 at 12:58 +0900, Magnus Damm wrote:
> On Mon, 2006-08-21 at 18:16 -0700, Rohit Seth wrote:
> On Mon, 2006-08-21 at 11:47 +0900, Magnus Damm wrote:
> > On Fri, 2006-08-18 at 07:45 -0700, Dave Hansen 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.
>>> This could of course be solved with one LRU per container, which is how
>>> the CKRM memory controller implemented things about a year ago.
>> Effectively Andrew's idea of faking up nodes is also giving per
> > container LRUs.
> Yes, but the NUMA emulation approach is using fixed size containers
> where the size is selectable at the kernel command line, while the CKRM
> (and pzone) approach provides a more dynamic (and complex) solution.
NUMA emulation does not allow guarantee, only limits. It also doesn't
allow over commit (ove commit issue is present in pzone based approach
also).
> / magnus
>
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> ckrm-tech mailing list > https://lists.sourceforge.net/lists/listinfo/ckrm-tech		
	ioumo, oum toon	
Chandra Seetharaman	Be careful what you choose	
sekharan@us.ibm.com	you may get it.	