
Subject: Re: [ckrm-tech] [PATCH 4/7] UBC: syscalls (user interface)
Posted by [Paul Jackson](#) on Fri, 18 Aug 2006 18:56:24 GMT
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Chandra wrote:

> In order to minimize this effect, resource controllers should be
> providing both minimum and maximum amount of resources available for a
> resource group.

No - not "should be." Rather "could also be."

The fair sharing model (such as in CKRM) that strives for maximum utilization of resources respecting priorities and min/max limits is (I suppose) quite useful for certain workloads and customers.

The hardwall NUMA placement model (such as in cpusets) that strives for maximum processor and memory isolation between jobs, preferring to leave allocated resources unused rather than trying to share them, is also quite useful for some. Customers with 256 thread, one or two day long run time, -very- tightly coupled huge OpenMP Fortran jobs that need to complete within a few percent of the same time, every runtime, demand it.

Don't presume that fair sharing -should- always be preferred to hardwall NUMA placement.

Just not so.

Besides -- what benefit would CKRM gain from Andrew's latest brainstorm? Doesn't CKRM already have whatever means it needs to define and share pools of memory?

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I won't rest till it's the best ...
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