
Subject: Re: [ckrm-tech] [patch00/05]: Containers(V2)- Introduction
Posted by [Paul Menage](#) on Wed, 20 Sep 2006 23:53:30 GMT
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On 9/20/06, Paul Jackson <pj@sgi.com> wrote:

>
> The way you "associate" a file with a cpuset is to have some task in
> that cpuset open that file and touch its pages -- where that task does
> so before any other would be user of the file.

An alternative would be a way of binding files (or directory hierarchies) to a particular set of memory nodes. Then you wouldn't need to pre-fault the data. Extended attributes might be one way of doing it.

>
> Such pre-touching of files is common occurrence on the HPC (High Perf
> Comp.) apps that run on the big honkin NUMA iron where cpusets were
> born. I'm guessing that someone hosting 5000 web servers would rather
> not deal with that particular hassle.

I'm looking at it from the perspective of job control systems that need to have a good idea what big datasets the jobs running under them are touching/sharing.

Paul
