Subject: Re: [ckrm-tech] [RFC] [PATCH 0/3] Add group fairness to CFS
Posted by William Lee Irwin III on Thu, 31 May 2007 04:09:26 GMT
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On Wed, May 30, 2007 at 01:13:59PM -0700, William Lee Irwin III wrote:
>> The step beyond was to show how nice numbers can be done with all that
>> hierarchical task grouping so they have global effects instead of
>> effects limited to the scope of the narrowest grouping hierarchy
>> containing the task. I had actually assumed the weighting and
>> flattening bits were already in your plans from some other post you
>> made and was building upon that.

On Thu, May 31, 2007 at 08:56:57AM +0530, Srivatsa Vaddagiri wrote:
> I would definitely be willing to try out any experiments you think of,
> esp those that allow the hierarchy to be flattened. atm fair_key
> calculation (in the context of cfs) seem to be the biggest challenge to
> surmount for this to work.

It's not all that tricky. The ->fair_key computations are already
parametrized on load weights. The "task weights" here are just what
Linux calls "load weight," so we're largely done once task weights
are calculated.

The tricky part (if any) is essentially what you've already got nailed
down, that is, creating and manipulating the accounting objects for the
task groups or whatever you're calling them.

-- wli

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Containers mailing list
Containers@lists.linux-foundation.org
https://lists.linux-foundation.org/mailman/listinfo/containers

Subject: Re: [ckrm-tech] [RFC] [PATCH 0/3] Add group fairness to CFS
Posted by Srivatsa Vaddagiri on Thu, 31 May 2007 05:48:28 GMT
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On Wed, May 30, 2007 at 09:09:26PM -0700, William Lee Irwin III wrote:
> It's not all that tricky.

Hmm ..the fact that each task runs for a minimum of 1 tick seems to
complicate the matters to me (when doing group fairness given a single
level hierarchy). A user with 1000 (or more) tasks can be unduly
advantaged compared to another user with just 1 (or fewer) task because of this?

> The ->fair_key computations are already

> parametrized on load weights. The "task weights" here are just what
> Linux calls "load weight," so we're largely done once task weights
> are calculated.
>
> The tricky part (if any) is essentially what you've already got nailed
> down, that is, creating and manipulating the accounting objects for the
> task groups or whatever you're calling them.

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Regards,
vatsa

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