Subject: Re: [ckrm-tech] [RFC] [PATCH 0/3] Add group fairness to CFS Posted by Srivatsa Vaddagiri on Thu, 31 May 2007 09:36:22 GMT

View Forum Message <> Reply to Message

On Thu, May 31, 2007 at 02:15:34AM -0700, William Lee Irwin III wrote:

- > Yes, the larger number of schedulable entities and hence slower
- > convergence to groupwise weightings is a disadvantage of the flattening.
- > A hybrid scheme seems reasonable enough.

Cool! This puts me back on track to implement hierarchical scheduling in CFS:)

Once this is done and once I can get containers running on a box, I will experiment with the flattening trick for user and process levels inside containers.

Thanks for your feedback so far!

- > Ideally one would chop the
- > hierarchy in pieces so that n levels of hierarchy become k levels of n/k
- > weight-flattened hierarchies for this sort of attack to be most effective
- > (at least assuming similar branching factors at all levels of hierarchy
- > and sufficient depth to the hierarchy to make it meaningful) but this is
- > awkward to do. Peeling off the outermost container or whichever level is
- > deemed most important in terms of accuracy of aggregate enforcement as
- > a hierarchical scheduler is a practical compromise.

>

- > Hybrid schemes will still incur the difficulties of hierarchical
- > scheduling, but they're by no means insurmountable. Sadly, only
- > complete flattening yields the simplifications that make task group
- > weighting enforcement orthogonal to load balancing and the like. The
- > scheme I described for global nice number behavior is also not readily
- > adaptable to hybrid schemes.

--

Regards, vatsa

Containers mailing list Containers@lists.linux-foundation.org

https://lists.linux-foundation.org/mailman/listinfo/containers