Subject: Re: [RFC] [PATCH 0/3] Add group fairness to CFS Posted by Srivatsa Vaddagiri on Fri, 25 May 2007 07:59:36 GMT View Forum Message <> Reply to Message

On Wed, May 23, 2007 at 08:32:52PM +0200, Ingo Molnar wrote: > > Here's an attempt to extend CFS (v13) to be fair at a group level, > > rather than just at task level. The patch is in a very premature state > > (passes simple tests, smp load balance not supported yet) at this > > point. I am sending it out early to know if this is a good direction > > to proceed.

> cool patch! :-)

Thanks!

> 1. This patch reuses CFS core to achieve fairness at group level also.
>

- >> To make this possible, CFS core has been abstracted to deal with
- >> generic schedulable "entities" (tasks, users etc).

>

> yeah, i like this alot.

>

> The "struct sched\_entity" abstraction looks very clean, and that's the

> main thing that matters: it allows for a design that will only cost us

> performance if group scheduling is desired.

>

> If you could do a -v14 port and at least add minimal SMP support: i.e.

> it shouldnt crash on SMP, but otherwise no extra load-balancing logic is

> needed for the first cut - then i could try to pick all these core

> changes up for -v15. (I'll let you know about any other thoughts/details

> when i do the integration.)

Sure .. I will work on a -v14 port. I would like to target for something which:

1. doesn't break performance/functionality of existing CFS scheduler -if- CONFIG\_FAIR\_USER\_SCHEDULER is disabled. This also means load balance should work as it works today when the config option is disabled.

Do you recommend a set of tests that I need to run to ensure there is no regression? I know that there is a bunch of scheduler tests floating around on Ikml ..Just need to dig to them (or if someone has all these tests handy on a website, I will download from that site!)

2. Provides fairness at group (user) level at the cost of missing load balance functionality (missing until I get around to work on it that is).

> kernel builds dont really push scheduling micro-costs, rather try

> something like 'hackbench.c' to measure that. (kernel builds are of

> course one of our primary benchmarks.)

sure i will try that on my next version.

--Regards, vatsa

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