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Subject: Re: Revert for cgroups CPU accounting subsystem patch

Posted by [Balbir Singh](#) on Tue, 13 Nov 2007 07:29:59 GMT

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Paul Menage wrote:

> On Nov 12, 2007 11:00 PM, Balbir Singh <balbir@linux.vnet.ibm.com> wrote:

>> Right now, one of the limitations of the CPU controller is that  
>> the moment you create another control group, the bandwidth gets  
>> divided by the default number of shares. We can't create groups  
>> just for monitoring.

>

> Could we get around this with, say, a flag that always treats a CFS  
> schedulable entity as having a weight equal to the number of runnable  
> tasks in it? So CPU bandwidth would be shared between groups in  
> proportion to the number of runnable tasks, which would distribute the  
> cycles approximately equivalently to them all being separate  
> schedulable entities.

>

I think it's a good hack, but not sure about the complexity to implement the code. I worry that if the number of tasks increase (say run into thousands for one or more groups and a few groups have just a few tasks), we'll lose out on accuracy.

>> cpu\_acct fills this gap.

>

> Agreed, but not in the right way IMO.

>

I think we already have the code, we need to make it more useful and reusable.

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Warm Regards,  
Balbir Singh  
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