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Subject: Re: [ckrm-tech] [PATCH 3/9] Containers (V9): Add tasks file interface  
Posted by [Srivatsa Vaddagiri](#) on Wed, 02 May 2007 03:17:56 GMT

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On Tue, May 01, 2007 at 01:37:24PM -0700, Paul Menage wrote:

> > Any chance we could get a per-container task list? It will  
> > help subsystem writers as well.  
>  
> It would be possible, yes - but we probably wouldn't want the overhead  
> (additional ref counts and list manipulations on every fork/exit) of  
> it on by default. We could make it a config option that particular  
> subsystems could select.  
>  
> I guess the question is how useful is this really, compared to just  
> doing a `do_each_thread()` and seeing which tasks are in the container?  
> Certainly that's a non-trivial operation, but in what circumstances is  
> it really necessary to do it?

For the CPU controller I was working on, (a fast access to) such a list would have been valuable. Basically each task has a weight associated with it (`p->load_weight`) which is made to depend upon its class limit. Whenever the class limit changes, we need to go and change all its member task's `->load_weight` value.

If you don't maintain the per-container task list, I guess I could still work around it, by either:

- Walk the task table and find relevant members, OR better perhaps
- Move `p->load_weight` to a class structure

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Regards,  
vatsa

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