Subject: Re: [PATCH] Cpu statistics accounting based on Paul Menage patches
Posted by Balbir Singh on Thu, 12 Apr 2007 21:00:31 GMT
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Andrew Morton wrote:
> On Wed, 11 Apr 2007 19:02:27 +0400
> Pavel Emelianov <xemul@sw.ru> wrote:
>
>> Provides a per-container statistics concerning the numbers of tasks
>> in various states, system and user times, etc. Patch is inspired
>> by Paul's example of the used CPU time accounting. Although this
>> patch is independent from Paul's example to make it possible playing
>> with them separately.
>
> Why is this actually needed? If userspace has a list of the tasks which
> are in a particular container, it can run around and add up the stats for
> those tasks without kernel changes?
>
> It's a bit irksome that we have so much accounting of this form in core
> kernel, yet we have to go and add a completely new implementation to create
> something which is similar to what we already have. But I don't
> immediately see a fix for that. Apart from paragraph #1 ;)
>
> Should there be linkage between per-container stats and
> delivery-via-taskstats? I can't think of one, really.
>
> You have cpu stats. Later, presumably, we'll need IO stats, MM stats,
> context-switch stats, number-of-syscall stats, etc, etc. Are we going to
> reimplement all of those things as well? See paragraph #1!
>
> Bottom line: I think we seriously need to find some way of consolidating
> per-container stats with our present per-task stats. Perhaps we should
> instead be looking at ways in which we can speed up paragraph #1.

This should be easy to build. per container stats can live in parallel
with per-task stats, but they can use the same general mechanism for
data communication to user space.

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Warm Regards,
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