Subject: Re: [PATCH] task containersv11 add tasks file interface fix for cpusets Posted by Paul Menage on Wed, 03 Oct 2007 18:10:58 GMT

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On 10/3/07, Paul Jackson <pj@sgi.com> wrote:

>

- > Yes, something in user space has to do it. It's part of the
- > kernel-user cpuset API. If you change a cpuset's 'cpus', then
- > you have to rewrite each pid in its 'tasks' file back to that
- > 'tasks' file in order to get that 'cpus' change to be applied
- > to the task struct cpus_allowed of each task, and thereby visible
- > to the scheduler.

What's the rationale for this?

Given that later in cpusets.txt you say:

>If hotplug functionality is used

- >to remove all the CPUs that are currently assigned to a cpuset,
- >then the kernel will automatically update the cpus_allowed of all
- >tasks attached to CPUs in that cpuset to allow all CPUs

why can't the same thing be done when changing the 'cpus' file manually.

What's wrong with, in update_cpumask(), doing a loop across all members of the cgroup and updating their cpus_allowed fields?

The existing cpusets API is broken, since a new child can always be forked between reading the tasks file and doing the writes.

Paul

Containers mailing list Containers@lists.linux-foundation.org https://lists.linux-foundation.org/mailman/listinfo/containers