On Mon, 2008-07-07 at 15:58 -0700, Matt Helsley wrote:
> This patchset reuses the container infrastructure and the swsusp freezer to
> freeze a group of tasks.
>
> The freezer subsystem in the container filesystem defines a file named
> freezer.state. Writing "FROZEN" to the state file will freeze all tasks in the
> cgroup. Subsequently writing "RUNNING" will unfreeze the tasks in the cgroup.
> Reading will return the current state.
>
> * Examples of usage :
>
>   # mkdir /containers/freezer
>   # mount -t cgroup -ofreezer,signal freezer /containers
>   # mkdir /containers/0
>   # echo $some_pid > /containers/0/tasks
>
> to get status of the freezer subsystem :
>
>   # cat /containers/0/freezer.state
>   RUNNING
>
> to freeze all tasks in the container :
>
>   # echo FROZEN > /containers/0/freezer.state
>   # cat /containers/0/freezer.state
>   FREEZING
>   # cat /containers/0/freezer.state
>   FROZEN
>
> to unfreeze all tasks in the container :
>
>   # echo RUNNING > /containers/0/freezer.state
>   # cat /containers/0/freezer.state
>   RUNNING
>
> to kill all tasks in the container :
>
>   # echo 9 > /containers/0/signal.kill
>
> I've reworked Cedric's patches to use task_lock() to protect access to the
> task's cgroup.
>
> Paul, Pavel asked me to send these to Rafael next. They are patches to make
> the freezer useful for checkpoint/restart using cgroups so it would be nice

> to get an explicit [N]Ack from you first.
>
> Rafael, if Paul agrees, please consider applying these patches.
>
> Changes since v3:
> v4 (Almost all of these changes are confined to patch 3):
> Reworked the series to use task_lock() instead of RCU.
> Reworked the series to use write_string() and read_seq_string()
>   cgroup methods.

 FYI - This means these patches need Paul's patches introducing
write_string(). I can certainly restore the old code for .read
and .write, but I was anticipating write_string() making it into various
trees first. If that's not necessarily the case please let me know.

Cheers,
 -Matt

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