
Subject: Re: [PATCH 1/1, v6] cgroup/freezer: add per freezer duty ratio control
Posted by [Li Zefan](#) on Thu, 10 Feb 2011 01:26:08 GMT

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jacob pan wrote:

> On Wed, 09 Feb 2011 11:07:59 +0800

> Li Zefan <lizf@cn.fujitsu.com> wrote:

>

>> jacob.jun.pan@linux.intel.com wrote:

>>> From: Jacob Pan <jacob.jun.pan@linux.intel.com>

>>>

>>> Freezer subsystem is used to manage batch jobs which can start
>>> stop at the same time. However, sometime it is desirable to let
>>> the kernel manage the freezer state automatically with a given
>>> duty ratio.

>>> For example, if we want to reduce the time that backgroup apps
>>> are allowed to run we can put them into a freezer subsystem and
>>> set the kernel to turn them THAWED/FROZEN at given duty ratio.

>>>

>>> This patch introduces two file nodes under cgroup

>>> freezer.duty_ratio_pct and freezer.period_sec

>>>

>>> Usage example: set period to be 5 seconds and frozen duty ratio 90%

>>> [root@localhost aoa]# echo 90 > freezer.duty_ratio_pct

>>> [root@localhost aoa]# echo 5000 > freezer.period_ms

>>>

>>

>> So after:

>>

>> # echo FROZEN > freezer.state

>> # echo 90 > freezer.duty_ratio_pct

>> # echo 5000 > freezer.period_ms

>> ...

>> # echo 0 > freezer.duty_ratio_pct

>>

>> All the tasks in this cgroup are in THAWED state, but the cgroup is
>> in FROZEN state. This should be fixed.

> I don't know how could this ever happen. Is it based on your testing?

> Whenever tasks in a cgroup are thawed/frozen, its freezer state would
> change accordingly.

> After your example, freezer.state should have THAWED. It matches
> user's intention, i.e. if a user do

> echo 0 > freezer.duty_ratio_pct

> It must want 0% to be frozen, which is THAWED.

>

> Am I missing anything?

>

You're right. I made a mistake when looking into the patch.

btw, I made a few other comments in your code, that you may have overlooked.

Containers mailing list

Containers@lists.linux-foundation.org

<https://lists.linux-foundation.org/mailman/listinfo/containers>

Subject: Re: [PATCH 1/1, v6] cgroup/freezer: add per freezer duty ratio control

Posted by [jacob.jun.pan](#) on Thu, 10 Feb 2011 04:43:07 GMT

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On Thu, 10 Feb 2011 09:26:08 +0800

Li Zefan <lizf@cn.fujitsu.com> wrote:

> jacob pan wrote:

> > On Wed, 09 Feb 2011 11:07:59 +0800

> > Li Zefan <lizf@cn.fujitsu.com> wrote:

> >

> >> jacob.jun.pan@linux.intel.com wrote:

> >>> From: Jacob Pan <jacob.jun.pan@linux.intel.com>

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> >>> Freezer subsystem is used to manage batch jobs which can start
> >>> stop at the same time. However, sometime it is desirable to let
> >>> the kernel manage the freezer state automatically with a given
> >>> duty ratio.

> >>> For example, if we want to reduce the time that backgroup apps
> >>> are allowed to run we can put them into a freezer subsystem and
> >>> set the kernel to turn them THAWED/FROZEN at given duty ratio.

> >>>

> >>> This patch introduces two file nodes under cgroup

> >>> freezer.duty_ratio_pct and freezer.period_sec

> >>>

> >>> Usage example: set period to be 5 seconds and frozen duty ratio

> >>> 90% [root@localhost aoa]# echo 90 > freezer.duty_ratio_pct

> >>> [root@localhost aoa]# echo 5000 > freezer.period_ms

> >>>

> >>

> >> So after:

> >>

> >> # echo FROZEN > freezer.state

> >> # echo 90 > freezer.duty_ratio_pct

> >> # echo 5000 > freezer.period_ms

> >> ...

> >> # echo 0 > freezer.duty_ratio_pct

> >>

> >> All the tasks in this cgroup are in THAWED state, but the cgroup is
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> > I don't know how could this ever happen. Is it based on your
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> > user's intention, i.e. if a user do
> > echo 0 > freezer.duty_ratio_pct
> > It must want 0% to be frozen, which is THAWED.
> >
> > Am I missing anything?
> >
>
> You're right. I made a mistake when looking into the patch.
>
> btw, I made a few other comments in your code, that you may have
> overlooked.
sorry, I missed them.

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