
Subject: Re: [PATCH, v6 3/3] cgroups: introduce timer slack controller

Posted by [Kirill A. Shutemov](#) on Tue, 15 Feb 2011 00:10:04 GMT

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On Mon, Feb 14, 2011 at 04:00:55PM -0800, Matt Helsley wrote:

> On Tue, Feb 15, 2011 at 12:59:40AM +0200, Kirill A. Shutemov wrote:

> > On Mon, Feb 14, 2011 at 05:59:26AM -0800, Matt Helsley wrote:

> > > On Mon, Feb 14, 2011 at 03:06:27PM +0200, Kirill A. Shutemov wrote:

> > > > From: Kirill A. Shutemov <kirill@shutemov.name>

>

> <snip>

>

> > > > + list_for_each_entry(cur, &cgroup->children, sibling) {

> > > > + child = cgroup_to_tslack_cgroup(cur);

> > > > + if (type == TIMER_SLACK_MIN && val > child->min_slack_ns)

> > > > + return -EBUSY;

> > > > + if (type == TIMER_SLACK_MAX && val < child->max_slack_ns)

> > > > + return -EBUSY;

> > > > + }

> > >

> > > This doesn't look right. Child cgroups should not constrain their

> > > parents. Instead you should allow the change and propagate the

> > > constraint to the children.

> >

> > See discussion with Thomas.

>

> <OK, shifting this topic to that thread>

> <snip>

>

> > > > +static struct cftype files[] = {

> > > > + {

> > > > + .name = "set_slack_ns",

> > > > + .write_u64 = tslack_write_set_slack_ns,

> > > > + },

> > > > + {

> > > > + .name = "min_slack_ns",

> > > > + .private = TIMER_SLACK_MIN,

> > > > + .read_u64 = tslack_read_range,

> > > > + .write_u64 = tslack_write_range,

> > > > + },

> > > > + {

> > > > + .name = "max_slack_ns",

> > > > + .private = TIMER_SLACK_MAX,

> > > > + .read_u64 = tslack_read_range,

> > > > + .write_u64 = tslack_write_range,

> > > > + },

> > >

> > > I didn't get a reply on how a max_slack_ns is useful. It seems

> > > prudent to add as little interface as possible and only when
> > > we clearly see the utility of it.
> >
> > For example, you can create two groups (excluding root cgroup):
> >
> > default - timer slack range 50000-50000
> > relaxed - timer slack range 500000-unlimited.
> >
> > Now you can drag tasks between these group without need to reset value on
> > relaxed -> default transition.
>
> Perhaps you misunderstood my point.
>
> Yes, I can see that a maximum allows you to do counter-productive/pointless
> little tricks like "setting" the timer slack when you move the task. I
> just don't get the point of it. Why is setting a maximum timer slack useful?
> If anything it seems like it would be quite counterproductive or pointless
> *at best* because limiting the amount of timer slack would not improve
> the wakeup situation -- it could easily make it worse. Are there
> *any* negative consequences to allowing timer slacks as large as
> userspace requests -- perhaps even up to ULLONG_MAX? If there are none then
> why should we bother providing userspace a knob to set and enforce such a
> limit?

Could you describe the interface how you see it?

--

Kirill A. Shutemov

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