
Subject: Re: [RFC PATCH 3/4] Container Freezer: Implement freezer cgroup subsystem

Posted by [Pavel Machek](#) on Fri, 11 Apr 2008 11:49:47 GMT

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Hi!

> This patch implements a new freezer subsystem for Paul Menage's
> control groups framework. It provides a way to stop and resume
> execution of all tasks in a cgroup by writing in the cgroup
> filesystem.

>
> This is the basic mechanism which should do the right thing for
> user space tasks in a simple scenario. This will require more work
> to get the freezing right (cf. try_to_freeze_tasks()) for ptraced
> tasks.

```
> --- /dev/null
> +++ linux-2.6.25-rc8-mm1/include/linux/cgroup_freezer.h
> @@ -0,0 +1,57 @@
> +#ifndef _LINUX_CGROUP_FREEZER_H
> +#define _LINUX_CGROUP_FREEZER_H
> +/*
> + * cgroup_freezer.h - control group freezer subsystem interface
> + *
> + * Copyright IBM Corp. 2007
> + *
> + * Author : Cedric Le Goater <clg@fr.ibm.com>
> + */
```

If you have copyright, add GPL.

```
> --- /dev/null
> +++ linux-2.6.25-rc8-mm1/kernel/cgroup_freezer.c
> @@ -0,0 +1,280 @@
> +/*
> + * cgroup_freezer.c - control group freezer subsystem
> + *
> + * Copyright IBM Corp. 2007
> + *
> + * Author : Cedric Le Goater <clg@fr.ibm.com>
> + */
```

Same here.

```
>+static struct cgroup_subsys_state *freezer_create(
>+    struct cgroup_subsys *ss, struct cgroup *cgroup)
>+{
```

Function headers are somehow non-traditional.

```
+ struct freezer *freezer;
+
+ if (!capable(CAP_SYS_ADMIN))
+     return ERR_PTR(-EPERM);
+
+ freezer = kzalloc(sizeof(struct freezer), GFP_KERNEL);
+ if (!freezer)
+     return ERR_PTR(-ENOMEM);
+
+ spin_lock_init(&freezer->lock);
+ freezer->state = STATE_RUNNING;
+ return &freezer->css;
+}
```

One space too many after "return" :-).

Hmm, returning pointer inside struct freezer is rather ugly, right?

Could you just pass struct freezer around?

Pavel

--

(english) <http://www.livejournal.com/~pavelmachek>

(cesky, pictures) <http://atrey.karlin.mff.cuni.cz/~pavel/picture/horses/blog.html>

Containers mailing list

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