

---

Subject: cgroup tasks file error  
Posted by [ccmail111](#) on Mon, 13 Dec 2010 22:25:14 GMT  
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```
I see error:[host:/dev/cgroup]$ echo 693 > hello-test/tasks
-bash: echo: write error: No space left on device
[host:/dev/cgroup]$ pwd/dev/cgroup
```

But the user process is up and running..

```
[host:/dev/cgroup]$ ps aux | grep procroot
```

```
693 0.0 0.4 34720 1112 ttyS0  Sl  19:11  0:00 /opt/bin/myproc -ext
```

Also the cgroup exists and valid..

```
[host:/dev/cgroup]$ ls | grep hello-test
hello-test
```

What above error mean and any suggestions ?  
Please email.

Thanks,  
CM

---

Containers mailing list  
[Containers@lists.linux-foundation.org](mailto:Containers@lists.linux-foundation.org)  
<https://lists.linux-foundation.org/mailman/listinfo/containers>

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Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 01:23:58 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Serge,

Thanks for quick response.

I had mounted as:

```
mount -t cgroup cpuset /dev/cgroup
```

After setting below, it works.  
Thank you for helpful tip !

--- On Mon, 12/13/10, Serge E. Hallyn <serge.hallyn@canonical.com> wrote:

```
> From: Serge E. Hallyn <serge.hallyn@canonical.com>
> Subject: Re: cgroup tasks file error
> To: "ccmail111" <ccmail111@yahoo.com>
> Cc: containers@lists.linux-foundation.org
> Date: Monday, December 13, 2010, 6:16 PM
> Quoting ccmail111 (ccmail111@yahoo.com):
>>
>> I see error:[host:/dev/cgroup]$ echo 693 >
> hello-test/tasks
>> -bash: echo: write error: No space left on device
>> [host:/dev/cgroup]$ pwd/dev/cgroup
>>
>> But the user process is up and running..
>>
>> [host:/dev/cgroup]$ ps aux | grep procroot
>>
>> 693 0.0 0.4 34720 1112 ttyS0  SI 19:11
> 0:00 /opt/bin/myproc -ext
>>
>> Also the cgroup exists and valid..
>>
>> [host:/dev/cgroup]$ ls | grep hello-test
>> hello-test
>>
>> What above error mean and any suggestions ?
>> Please email.
>
> Which cgroups do you have composed on that mount? I'm
> guess you
> have cpuset, and you need to set the cpuset.mems and
> cpuset.cpus.
> Until you do that, no tasks can be assigned to it.
>
> -serge
>
```

---

Containers mailing list  
Containers@lists.linux-foundation.org

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 01:27:44 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Serge,

Now I cannot move the pid out of the assigned group !

```
[host:/dev/cgroup]$ cat cpuset.cpus
```

```
0
```

```
[host:/dev/cgroup]$ cat cpuset.mems
```

```
0
```

```
[host:/dev/cgroup]$ cat hello/tasks
```

```
580
```

```
[host:/dev/cgroup]$ echo 580 > tasks
```

```
-bash: echo: write error: Operation not permitted
```

```
[host:/dev/cgroup]$
```

```
[host:/dev/cgroup]$ cd hello
```

```
[host:/dev/cgroup/hello]$ cat cpuset.cpus
```

```
0
```

```
[host:/dev/cgroup/hello]$ cat cpuset.mems
```

```
0
```

```
[host:/dev/cgroup/hello]
```

--- On Mon, 12/13/10, [ccmail111](#) <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)> wrote:

> From: [ccmail111](#) <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)>

> Subject: Re: cgroup tasks file error

> To: "Serge E. Hallyn" <[serge.hallyn@canonical.com](mailto:serge.hallyn@canonical.com)>

> Cc: [containers@lists.linux-foundation.org](mailto:containers@lists.linux-foundation.org)

> Date: Monday, December 13, 2010, 8:23 PM

> Hi Serge,

>

> Thanks for quick response.

>

> I had mounted as:

>

> mount -t cgroup cpuset /dev/cgroup

>

> After setting below, it works.

> Thank you for helpful tip !

>  
>  
> --- On Mon, 12/13/10, Serge E. Hallyn <serge.hallyn@canonical.com>  
> wrote:  
>  
>> From: Serge E. Hallyn <serge.hallyn@canonical.com>  
>> Subject: Re: cgroup tasks file error  
>> To: "ccmail111" <ccmail111@yahoo.com>  
>> Cc: containers@lists.linux-foundation.org  
>> Date: Monday, December 13, 2010, 6:16 PM  
>> Quoting ccmail111 (ccmail111@yahoo.com):  
>>>  
>>> I see error:[host:/dev/cgroup]\$ echo 693 >  
>>> hello-test/tasks  
>>> -bash: echo: write error: No space left on  
> device  
>>> [host:/dev/cgroup]\$ pwd/dev/cgroup  
>>>  
>>> But the user process is up and running..  
>>>  
>>> [host:/dev/cgroup]\$ ps aux | grep procroot  
>  
>>>  
>>> 693 0.0 0.4 34720 1112 ttyS0 Sl  
> 19:11  
>> 0:00 /opt/bin/myproc -ext  
>>>  
>>> Also the cgroup exists and valid..  
>>>  
>>> [host:/dev/cgroup]\$ ls | grep hello-test  
>>> hello-test  
>>>  
>>> What above error mean and any suggestions ?  
>>> Please email.  
>>  
>> Which cgroups do you have composed on that mount?  
> I'm  
>> guess you  
>> have cpuset, and you need to set the cpuset.mems and  
>> cpuset.cpus.  
>> Until you do that, no tasks can be assigned to it.  
>>  
>> -serge  
>>  
>  
>  
>  
>

---

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

---

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 02:50:45 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Li,

uid is already root:

```
[host:/dev/cgroup]$ id
uid=0(root) gid=0(root) groups=0(root)
```

```
[host:/dev/cgroup]$ echo 580 > tasks
-bash: echo: write error: Operation not permitted
```

```
[host:/dev/cgroup]$ cat hello/tasks
580
610
2104
[host:/dev/cgroup]$
```

--- On Mon, 12/13/10, Li Zefan <lizf@cn.fujitsu.com> wrote:

```
> From: Li Zefan <lizf@cn.fujitsu.com>
> Subject: Re: cgroup tasks file error
> To: "ccmail111" <ccmail111@yahoo.com>
> Cc: "Serge E. Hallyn" <serge.hallyn@canonical.com>, containers@lists.linux-foundation.org
> Date: Monday, December 13, 2010, 8:34 PM
> ccmail111 wrote:
> > Hi Serge,
> >
> > Now I cannot move the pid out of the assigned group !
> >
> >
> Try:
>
```

```
> $ sudo echo 580 > tasks
>
>> [host:/dev/cgroup]$ cat cpuset.cpus
>> 0
>> [host:/dev/cgroup]$ cat cpuset.mems
>> 0
>> [host:/dev/cgroup]$ cat hello/tasks
>> 580
>>
>> [host:/dev/cgroup]$ echo 580 > tasks
>> -bash: echo: write error: Operation not permitted
>>
>> [host:/dev/cgroup]$
>> [host:/dev/cgroup]$ cd hello
>> [host:/dev/cgroup/hello]$ cat cpuset.cpus
>> 0
>> [host:/dev/cgroup/hello]$ cat cpuset.mems
>> 0
>> [host:/dev/cgroup/hello]
>>
>>
>>
>> --- On Mon, 12/13/10, ccm111 <ccmail111@yahoo.com>
> wrote:
>>
>>> From: ccm111 <ccmail111@yahoo.com>
>>> Subject: Re: cgroup tasks file error
>>> To: "Serge E. Hallyn" <serge.hallyn@canonical.com>
>>> Cc: containers@lists.linux-foundation.org
>>> Date: Monday, December 13, 2010, 8:23 PM
>>> Hi Serge,
>>>
>>> Thanks for quick response.
>>>
>>> I had mounted as:
>>>
>>> mount -t cgroup cpuset /dev/cgroup
>>>
>>> After setting below, it works.
>>> Thank you for helpful tip !
>>>
>>>
>>> --- On Mon, 12/13/10, Serge E. Hallyn <serge.hallyn@canonical.com>
>>> wrote:
>>>
>>>> From: Serge E. Hallyn <serge.hallyn@canonical.com>
>>>> Subject: Re: cgroup tasks file error
>>>> To: "ccmail111" <ccmail111@yahoo.com>
```

> >>> Cc: containers@lists.linux-foundation.org  
> >>> Date: Monday, December 13, 2010, 6:16 PM  
> >>> Quoting ccm111 (ccmail111@yahoo.com):  
> >>>> I see error:[host:/dev/cgroup]\$ echo 693  
> >  
> >>> hello-test/tasks  
> >>>> -bash: echo: write error: No space left  
> on  
> >> device  
> >>>> [host:/dev/cgroup]\$ pwd/dev/cgroup  
> >>>>  
> >>>> But the user process is up and running..  
> >>>>  
> >>>> [host:/dev/cgroup]\$ ps aux | grep  
> procroot  
> >>  
> >>>> 693 0.0 0.4 34720  
> 1112 ttyS0 SI  
> >> 19:11  
> >>> 0:00 /opt/bin/myproc -ext  
> >>>> Also the cgroup exists and valid..  
> >>>>  
> >>>> [host:/dev/cgroup]\$ ls | grep hello-test  
> >>>> hello-test  
> >>>>  
> >>>> What above error mean and any suggestions  
> ?  
> >>>> Please email.  
> >>> Which cgroups do you have composed on that  
> mount?  
> >> I'm  
> >>> guess you  
> >>> have cpuset, and you need to set the  
> cpuset.mems and  
> >>> cpuset.cpus.  
> >>> Until you do that, no tasks can be assigned to  
> it.  
> >>>  
> >>>> -serge  
> >>>>  
> >>  
> >>  
> >>  
> >>  
> >  
>

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 07:28:19 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Thanks Matt.

After doing what Serge suggests, I was able to create a dummy cgroup and move task (#580) below to the group. But now..

I see another issue: cannot move the task back to its parent (root), from the group (hello) as in:

I am trying to move back task #580..

```
[host:/dev/cgroup]$ id
uid=0(root) gid=0(root) groups=0(root)
```

```
[host:/dev/cgroup]$ echo 580 > tasks
-bash: echo: write error: Operation not permitted
```

```
[host:/dev/cgroup]$ cat hello/tasks
580
610
2104
[host:/dev/cgroup]$
```

--- On Mon, 12/13/10, Matt Helsley <matthlhc@us.ibm.com> wrote:

```
> From: Matt Helsley <matthlhc@us.ibm.com>
> Subject: Re: cgroup tasks file error
> To: "Serge E. Hallyn" <serge.hallyn@canonical.com>
> Cc: "ccmail111" <ccmail111@yahoo.com>, containers@lists.linux-foundation.org
> Date: Monday, December 13, 2010, 8:02 PM
> On Mon, Dec 13, 2010 at 05:16:28PM
> -0600, Serge E. Hallyn wrote:
> > Quoting ccmail111 (ccmail111@yahoo.com):
> > >
> > > I see error:[host:/dev/cgroup]$ echo 693 >
> > > hello-test/tasks
> > > -bash: echo: write error: No space left on
> > > device
> >
> This does seem quite odd so I spent a little time looking
```

```

> at this and I agree with Serge.
>
> > > [host:/dev/cgroup]$ pwd/dev/cgroup
> > >
> > > But the user process is up and running..
> > >
> > > [host:/dev/cgroup]$ ps aux | grep procroot
>
> > >
> > > 693  0.0  0.4  34720  1112 ttyS0  SI
> 19:11  0:00 /opt/bin/myproc -ext
> > >
> > > Also the cgroup exists and valid..
> > >
> > > [host:/dev/cgroup]$ ls | grep hello-test
> > > hello-test
> > >
> > > What above error mean and any suggestions ?
> > > Please email.
> >
> > Which cgroups do you have composed on that
> mount? I'm guess you
> > have cpuset, and you need to set the cpuset.mems and
> cpuset.cpus.
> > Until you do that, no tasks can be assigned to it.
>
> I looked a a few places in kernel/cgroup.c which return
> ENOSPC
> or could potentially forward such an error. The only place
> that
> fits is in the attach path and is consistent with the
> notion that
> it's a cpuset issue:
>
> echo <pid> > tasks =>
> cgroup_tasks_write() =>
> attach_task_by_pid() =>
> cgroup_attach_task() => (via ss->can_attach() where
> ss is the cpuset subsystem)
> cpuset_can_attach():
>     if
> (cpumask_empty(cs->cpus_allowed) ||
> nodes_empty(cs->mems_allowed))
>
> return -ENOSPC;
>
> No other cgroup subsystem that I looked at (freezer,
> memcontrol, ns,

```

> blkio, devcgroup) returns ENOSPC when  
> attaching a task.  
>  
> So not only do you need to set those masks but each mask  
> must have at  
> least one cpu and "mem" respectively.  
>  
> Cheers,  
> -Matt Helsley  
>

---

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

---

---

Subject: Re: cgroup tasks file error  
Posted by [Jue Hong](#) on Tue, 14 Dec 2010 09:39:39 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Have you mounted the ns subsys?  
The ns subsys will place some restrictions on the task movement.

On Tue, Dec 14, 2010 at 3:28 PM, ccm1111 <ccmail1111@yahoo.com> wrote:

>  
> Thanks Matt.  
> After doing what Serge suggests, I was able to create a dummy cgroup and  
> move task (#580) below to the group. But now..  
> I see another issue: cannot move the task back to its parent (root), from the group (hello) as in:  
>  
> I am trying to move back task #580..  
>  
> [host:/dev/cgroup]\$ id  
> uid=0(root) gid=0(root) groups=0(root)  
>  
>  
> [host:/dev/cgroup]\$ echo 580 > tasks  
> -bash: echo: write error: Operation not permitted  
>  
> [host:/dev/cgroup]\$ cat hello/tasks  
> 580  
> 610  
> 2104  
> [host:/dev/cgroup]\$  
>

>  
> --- On Mon, 12/13/10, Matt Helsley <matthlrc@us.ibm.com> wrote:  
>  
>> From: Matt Helsley <matthlrc@us.ibm.com>  
>> Subject: Re: cgroup tasks file error  
>> To: "Serge E. Hallyn" <serge.hallyn@canonical.com>  
>> Cc: "ccmail111" <ccmail111@yahoo.com>, containers@lists.linux-foundation.org  
>> Date: Monday, December 13, 2010, 8:02 PM  
>> On Mon, Dec 13, 2010 at 05:16:28PM  
>> -0600, Serge E. Hallyn wrote:  
>> > Quoting ccmail111 (ccmail111@yahoo.com):  
>> > >  
>> > > I see error:[host:/dev/cgroup]\$ echo 693 >  
>> hello-test/tasks  
>> > > -bash: echo: write error: No space left on  
>> device  
>>  
>> This does seem quite odd so I spent a little time looking  
>> at this and I agree with Serge.  
>>  
>> > > [host:/dev/cgroup]\$ pwd/dev/cgroup  
>> > >  
>> > > But the user process is up and running..  
>> > >  
>> > > [host:/dev/cgroup]\$ ps aux | grep procroot  
>>  
>> > >  
>> > > 693 0.0 0.4 34720 1112 ttyS0 SI  
>> 19:11 0:00 /opt/bin/myproc -ext  
>> > >  
>> > > Also the cgroup exists and valid..  
>> > >  
>> > > [host:/dev/cgroup]\$ ls | grep hello-test  
>> > > hello-test  
>> > >  
>> > > What above error mean and any suggestions ?  
>> > > Please email.  
>> >  
>> > Which cgroups do you have composed on that  
>> mount? I'm guess you  
>> > have cpuset, and you need to set the cpuset.mems and  
>> cpuset.cpus.  
>> > Until you do that, no tasks can be assigned to it.  
>>  
>> I looked a a few places in kernel/cgroup.c which return  
>> ENOSPC  
>> or could potentially forward such an error. The only place  
>> that

```
>> fits is in the attach path and is consistent with the
>> notion that
>> it's a cpuset issue:
>>
>> echo <pid> > tasks =>
>> cgroup_tasks_write() =>
>> attach_task_by_pid() =>
>> cgroup_attach_task() => (via ss->can_attach() where
>> ss is the cpuset subsystem)
>> cpuset_can_attach():
>>     if
>> (cpumask_empty(cs->cpus_allowed) ||
>> nodes_empty(cs->mems_allowed))
>>
>> return -ENOSPC;
>>
>> No other cgroup subsystem that I looked at (freezer,
>> memcontrol, ns,
>> blkio, devcgroup) returns ENOSPC when
>> attaching a task.
>>
>> So not only do you need to set those masks but each mask
>> must have at
>> least one cpu and "mem" respectively.
>>
>> Cheers,
>> -Matt Helsley
>>
>
>
>
> _____
> Containers mailing list
> Containers@lists.linux-foundation.org
> https://lists.linux-foundation.org/mailman/listinfo/containers
>
```

--

Department of Network Infrastructure  
Tencent Company, Shenzhen, China

---

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

---

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 17:17:25 GMT  
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---

The uid is already root as below,

```
$ id
uid=0(root) gid=0(root) groups=0(root)
```

--- On Tue, 12/14/10, Greg Kurz <[gkurz@fr.ibm.com](mailto:gkurz@fr.ibm.com)> wrote:

```
> From: Greg Kurz <gkurz@fr.ibm.com>
> Subject: Re: cgroup tasks file error
> To: "Li Zefan" <lizf@cn.fujitsu.com>
> Cc: "ccmail111" <ccmail111@yahoo.com>, containers@lists.linux-foundation.org
> Date: Tuesday, December 14, 2010, 4:31 AM
> On 12/14/2010 02:34 AM, Li Zefan
> wrote:
> > Try:
> >
> > $ sudo echo 580> tasks
>
> Hmm... you probably mean:
>
> sudo sh -c 'echo 580> tasks'
>
> Cheers.
>
> -- Gregory Kurz
>
> gkurz@fr.ibm.com
> Software Engineer @ IBM/Meiosys
> http://www.ibm.com
> Tel +33 (0)534 638 479
>
> Fax +33 (0)561 400 420
>
> "Anarchy is about taking complete responsibility for
> yourself."
> Alan Moore.
>
```

---

Containers mailing list  
[Containers@lists.linux-foundation.org](mailto:Containers@lists.linux-foundation.org)  
<http://lists.linux-foundation.org/mailman/listinfo/containers>

---

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 17:33:18 GMT  
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---

Isn't ns mounted by default ?  
I rebooted machine,  
based on 2.6.32 kernel.

Then,

```
[host:~]$ mkdir /dev/cgroup
[host:~]$ mount -t cgroup cpuset -ocpuset,ns /dev/cgroup
[host:~]$ ps aux | grep libvirt
root    575  0.6  0.9 88816 2216 ?      Sl  17:28   0:00 myproc --daemon
root    654  0.0  0.2  4044   664 ttyS0   S+  17:29   0:00 grep libvirt
[host:~]$ mkdir /dev/cgroup/hello
[host:~]$ cat /dev/cgroup/hello/tasks
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.cpus
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.mems
[host:~]$ echo 575 > /dev/cgroup/hello/tasks
[host:~]$ cat /dev/cgroup/hello/tasks
575
[host:~]$ id
uid=0(root) gid=0(root) groups=0(root)
[host:~]$
```

Now, I try to move the task out - the parent/root:

```
[host:~]$ echo 575 > /dev/cgroup/tasks
-bash: echo: write error: Operation not permitted
```

Any thoughts !?

--- On Tue, 12/14/10, Jue Hong <[honshj@gmail.com](mailto:honshj@gmail.com)> wrote:

```
> From: Jue Hong <honshj@gmail.com>
> Subject: Re: cgroup tasks file error
> To: "ccmail111" <ccmail111@yahoo.com>
> Cc: "Serge E. Hallyn" <serge.hallyn@canonical.com>, "Matt Helsley" <matthlhc@us.ibm.com>,
containers@lists.linux-foundation.org
> Date: Tuesday, December 14, 2010, 4:39 AM
> Have you mounted the ns subsys?
> The ns subsys will place some restrictions on the task
> movement.
>
```

> On Tue, Dec 14, 2010 at 3:28 PM, ccm111 <ccmail111@yahoo.com>  
> wrote:  
>>  
>> Thanks Matt.  
>> After doing what Serge suggests, I was able to create  
> a dummy cgroup and  
>> move task (#580) below to the group. But now..  
>> I see another issue: cannot move the task back to its  
> parent (root), from the group (hello) as in:  
>>  
>> I am trying to move back task #580..  
>>  
>> [host:/dev/cgroup]\$ id  
>> uid=0(root) gid=0(root) groups=0(root)  
>>  
>>  
>> [host:/dev/cgroup]\$ echo 580 > tasks  
>> -bash: echo: write error: Operation not permitted  
>>  
>> [host:/dev/cgroup]\$ cat hello/tasks  
>> 580  
>> 610  
>> 2104  
>> [host:/dev/cgroup]\$  
>>  
>>  
>> --- On Mon, 12/13/10, Matt Helsley <matthlhc@us.ibm.com>  
> wrote:  
>>  
>>> From: Matt Helsley <matthlhc@us.ibm.com>  
>>> Subject: Re: cgroup tasks file error  
>>> To: "Serge E. Hallyn" <serge.hallyn@canonical.com>  
>>> Cc: "ccmail111" <ccmail111@yahoo.com>,  
> containers@lists.linux-foundation.org  
>>> Date: Monday, December 13, 2010, 8:02 PM  
>>> On Mon, Dec 13, 2010 at 05:16:28PM  
>>> -0600, Serge E. Hallyn wrote:  
>>>> Quoting ccm111 (ccmail111@yahoo.com):  
>>>>>  
>>>>> I see error:[host:/dev/cgroup]\$ echo 693  
>>>>  
>>> hello-test/tasks  
>>>> -bash: echo: write error: No space left  
> on  
>>> device  
>>>  
>>> This does seem quite odd so I spent a little time  
> looking

> >> at this and I agree with Serge.  
> >>  
> >> > [host:/dev/cgroup]\$ pwd/dev/cgroup  
> >> > >  
> >> > > But the user process is up and  
> > > > running..  
> >> > >  
> >> > > [host:/dev/cgroup]\$ ps aux | grep  
> > > > procroot  
> >> > >  
> >> > > >  
> >> > > > 693 0.0 0.4 34720 1112 ttyS0  
> > > > > Sl  
> >> > > > 19:11 0:00 /opt/bin/myproc -ext  
> >> > > >  
> >> > > > Also the cgroup exists and valid..  
> >> > > >  
> >> > > > [host:/dev/cgroup]\$ ls | grep  
> > > > > hello-test  
> >> > > > hello-test  
> >> > > >  
> >> > > > What above error mean and any  
> > > > > suggestions ?  
> >> > > > Please email.  
> >> > >  
> >> > > Which cgroups do you have composed on that  
> >> > > > mount? I'm guess you  
> >> > > > have cpuset, and you need to set the  
> >> > > > cpuset.mems and  
> >> > > > cpuset.cpus.  
> >> > > > Until you do that, no tasks can be assigned  
> >> > > > to it.  
> >> > >  
> >> > > I looked a a few places in kernel/cgroup.c which  
> >> > > > return  
> >> > > > ENOSPC  
> >> > > > or could potentially forward such an error. The  
> >> > > > only place  
> >> > > > that  
> >> > > > fits is in the attach path and is consistent with  
> >> > > > the  
> >> > > > notion that  
> >> > > > it's a cpuset issue:  
> >> > >  
> >> > > > echo <pid> > tasks =>  
> >> > > > cgroup\_tasks\_write() =>  
> >> > > > attach\_task\_by\_pid() =>  
> >> > > > cgroup\_attach\_task() => (via



Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 18:22:32 GMT  
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---

--- On Tue, 12/14/10, Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)> wrote:

```
> From: Balbir Singh <balbir@linux.vnet.ibm.com>
> Subject: Re: cgroup tasks file error
> To: "ccmail111" <ccmail111@yahoo.com>
> Cc: "Jue Hong" <honshj@gmail.com>, containers@lists.linux-foundation.org
> Date: Tuesday, December 14, 2010, 12:41 PM
> On Tue, Dec 14, 2010 at 11:03 PM,
> ccmail111 <ccmail111@yahoo.com>
> wrote:
> >
> > Isn't ns mounted by default ?
> > I rebooted machine,
> > based on 2.6.32 kernel.
> >
> > Then,
> >
> > [host:~]$ mkdir /dev/cgroup
> > [host:~]$ mount -t cgroup cpuset -ocpuset,ns
> /dev/cgroup
> > [host:~]$ ps aux | grep libvirt
> > root    575  0.6  0.9 88816 2216 ?
>   Sl  17:28   0:00 myproc --daemon
> > root    654  0.0  0.2  4044   664 ttyS0
>   S+  17:29   0:00 grep libvirt
> > [host:~]$ mkdir /dev/cgroup/hello
> > [host:~]$ cat /dev/cgroup/hello/tasks
> > [host:~]$ echo 0 > /dev/cgroup/hello/cpuset.cpus
> > [host:~]$ echo 0 > /dev/cgroup/hello/cpuset.mems
>
> Can you paste the output of
>
> cat /dev/cgroup/hello/cpuset.cpus and mems.
>
> Also please paste the o/p of /dev/cgroup/cpuset.cpus and
> mems
>
> > [host:~]$ echo 575 > /dev/cgroup/hello/tasks
> > [host:~]$ cat /dev/cgroup/hello/tasks
> > 575
> > [host:~]$ id
> > uid=0(root) gid=0(root) groups=0(root)
> > [host:~]$
> >
> > Now, I try to move the task out - the parent/root:
```

```
> >
> > [host:~]$ echo 575 > /dev/cgroup/tasks
> > -bash: echo: write error: Operation not permitted
>
> can you send us the o/p of
>
> ls -al /dev/cgroup
>
> and ls -al /dev/cgroup/hello
>
> Balbir
>
----
```

Please find output requested below:

```
[host:~]$ mkdir /dev/cgroup/hello
[host:~]$ cat /dev/cgroup/hello/tasks
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.cpus
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.mems
[host:~]$ echo 575 > /dev/cgroup/hello/tasks
[host:~]$ cat /dev/cgroup/hello/tasks
575
[host:~]$ id
uid=0(root) gid=0(root) groups=0(root)
[host:~]$ echo 575 > /dev/cgroup/tasks
-bash: echo: write error: Operation not permitted
[host:~]$ cat /dev/cgroup/hello/cpuset.cpus
0
[host:~]$ cat /dev/cgroup/hello/cpuset.mems
0
[host:~]$ cat /dev/cgroup/cpuset.mems
0
[host:~]$ cat /dev/cgroup/cpuset.cpus
0
[host:~]$ ls -al /dev/cgroup/
total 0
drwxr-xr-x 3 root root  0 Dec 14 17:29 .
drwxr-xr-x 11 root root 2980 Dec 14 17:29 ..
-r--r--r-- 1 root root  0 Dec 14 17:29 cgroup.procs
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.cpu_exclusive
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.cpus
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.mem_exclusive
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.mem_hardwall
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.memory_migrate
-r--r--r-- 1 root root  0 Dec 14 17:29 cpuset.memory_pressure
-rw-r--r-- 1 root root  0 Dec 14 17:29 cpuset.memory_pressure_enabled
```

```
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_spread_page
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_spread_slab
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.mems
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.sched_load_balance
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.sched_relax_domain_level
drwxr-xr-x 2 root root 0 Dec 14 17:29 hello
-rw-r--r-- 1 root root 0 Dec 14 17:29 notify_on_release
-rw-r--r-- 1 root root 0 Dec 14 17:29 release_agent
-rw-r--r-- 1 root root 0 Dec 14 17:31 tasks
[host:~]$ ls -al /dev/cgroup/hello/
total 0
drwxr-xr-x 2 root root 0 Dec 14 17:29 .
drwxr-xr-x 3 root root 0 Dec 14 17:29 ..
-r--r--r-- 1 root root 0 Dec 14 17:29 cgroup.procs
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.cpu_exclusive
-rw-r--r-- 1 root root 0 Dec 14 17:30 cpuset.cpus
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.mem_exclusive
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.mem_hardwall
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_migrate
-r--r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_pressure
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_spread_page
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.memory_spread_slab
-rw-r--r-- 1 root root 0 Dec 14 17:30 cpuset.mems
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.sched_load_balance
-rw-r--r-- 1 root root 0 Dec 14 17:29 cpuset.sched_relax_domain_level
-rw-r--r-- 1 root root 0 Dec 14 17:29 notify_on_release
-rw-r--r-- 1 root root 0 Dec 14 17:30 tasks
[host:~]$ id
uid=0(root) gid=0(root) groups=0(root)
[host:~]$
```

---

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

---

---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Tue, 14 Dec 2010 19:23:20 GMT  
[View Forum Message](#) <> [Reply to Message](#)

---

Hi Serge,

Thanks for the tip.  
It seems to work (no ns).

```
[host:~]$ mount -t cgroup cpuset -ocpuset /dev/cgroup
[host:~]$ ls /dev/cgroup
cgroup.procs          cpuset.memory_spread_page
cpuset.cpu_exclusive  cpuset.memory_spread_slab
cpuset.cpus           cpuset.mems
cpuset.mem_exclusive  cpuset.sched_load_balance
cpuset.mem_hardwall   cpuset.sched_relax_domain_level
cpuset.memory_migrate notify_on_release
cpuset.memory_pressure release_agent
cpuset.memory_pressure_enabled tasks
```

```
$ps aux | grep daemon
root    572  0.0  0.9 88816 2216 ?        Sl  18:25   0:00 myproc --daemon
```

```
[host:~]$ mkdir /dev/cgroup/hello
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.mems
[host:~]$ echo 0 > /dev/cgroup/hello/cpuset.cpus
[host:~]$ echo 572 > /dev/cgroup/hello/tasks
[host:~]$ cat /dev/cgroup/hello/tasks
572
```

Now move it back..

```
[host:~]$ echo 572 > /dev/cgroup/tasks
```

check:

```
[host:~]$ cat /dev/cgroup/hello/tasks
[host:~]$
[host:~]$ cat /dev/cgroup/tasks | grep 572
572
[host:~]$ id
uid=0(root) gid=0(root) groups=0(root)
[host:~]$
```

Thanks everyone !

--- On Tue, 12/14/10, Serge Hallyn <serge.hallyn@canonical.com> wrote:

```
> From: Serge Hallyn <serge.hallyn@canonical.com>
> Subject: Re: cgroup tasks file error
> To: "ccmail111" <ccmail111@yahoo.com>
> Cc: "Jue Hong" <honshj@gmail.com>, "Matt Helsley" <matthlrc@us.ibm.com>,
containers@lists.linux-foundation.org
> Date: Tuesday, December 14, 2010, 12:40 PM
```

> Quoting ccm111 (ccm111@yahoo.com):  
> >  
> > Isn't ns mounted by default ?  
>  
> I thought that in an earlier email you said you had done  
>  
> mount -t cgroup cpuset -ocpuset  
> /dev/cgroup  
>  
> in which case ns would not be mounted. But note, we  
> DO NOT  
> want you to have ns mounted :)  
>  
> > I rebooted machine,  
> > based on 2.6.32 kernel.  
> >  
> > Then,  
> >  
> > [host:~]\$ mkdir /dev/cgroup  
> > [host:~]\$ mount -t cgroup cpuset -ocpuset,ns  
> /dev/cgroup  
> > [host:~]\$ ps aux | grep libvirt  
> > root 575  
> 0.6 0.9 88816 2216 ?  
> Sl 17:28 0:00  
> myproc --daemon  
> > root 654  
> 0.0 0.2 4044 664  
> ttyS0  
> S+ 17:29 0:00 grep  
> libvirt  
> > [host:~]\$ mkdir /dev/cgroup/hello  
> > [host:~]\$ cat /dev/cgroup/hello/tasks  
> > [host:~]\$ echo 0 > /dev/cgroup/hello/cpuset.cpus  
> > [host:~]\$ echo 0 > /dev/cgroup/hello/cpuset.mems  
> > [host:~]\$ echo 575 > /dev/cgroup/hello/tasks  
> > [host:~]\$ cat /dev/cgroup/hello/tasks  
> > 575  
> > [host:~]\$ id  
> > uid=0(root) gid=0(root) groups=0(root)  
> > [host:~]\$  
> >  
> > Now, I try to move the task out - the parent/root:  
> >  
> > [host:~]\$ echo 575 > /dev/cgroup/tasks  
> > -bash: echo: write error: Operation not permitted  
> >  
> >

> > Any thoughts !?  
>  
> Yes, ns cgroup is forbidding you from moving back :)  
> Mount without it.  
>  
> -serge  
>

---

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

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---

Subject: Re: cgroup tasks file error  
Posted by [ccmail111](#) on Wed, 15 Dec 2010 22:08:21 GMT  
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---

--- On Wed, 12/15/10, Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)> wrote:

> From: Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)>  
> Subject: Re: cgroup tasks file error  
> To: "ccmail111" <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)>  
> Cc: [containers@lists.linux-foundation.org](mailto:containers@lists.linux-foundation.org)  
> Date: Wednesday, December 15, 2010, 12:51 PM  
> \* ccmail111 <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)>  
> [2010-12-14 10:22:32]:  
>  
>>  
>>  
>> --- On Tue, 12/14/10, Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)>  
> wrote:  
>>  
>>> From: Balbir Singh <[balbir@linux.vnet.ibm.com](mailto:balbir@linux.vnet.ibm.com)>  
>>> Subject: Re: cgroup tasks file error  
>>> To: "ccmail111" <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)>  
>>> Cc: "Jue Hong" <[honshj@gmail.com](mailto:honshj@gmail.com)>, [containers@lists.linux-foundation.org](mailto:containers@lists.linux-foundation.org)  
>>> Date: Tuesday, December 14, 2010, 12:41 PM  
>>> On Tue, Dec 14, 2010 at 11:03 PM,  
>>> ccmail111 <[ccmail111@yahoo.com](mailto:ccmail111@yahoo.com)>  
>>> wrote:  
>>>>  
>>>> Isn't ns mounted by default ?  
>>>> I rebooted machine,  
>>>> based on 2.6.32 kernel.

```

>>>>
>>>> Then,
>>>>
>>>> [host:~]$ mkdir /dev/cgroup
>>>> [host:~]$ mount -t cgroup cpuset
> -ocpuset,ns
>>> /dev/cgroup
>>>> [host:~]$ ps aux | grep libvirt
>>>> root    575 0.6 0.9 88816 2216
> ?
>>> Sl 17:28 0:00 myproc --daemon
>>>> root    654 0.0 0.2 4044 664
> ttyS0
>>> S+ 17:29 0:00 grep libvirt
>>>> [host:~]$ mkdir /dev/cgroup/hello
>>>> [host:~]$ cat /dev/cgroup/hello/tasks
>>>> [host:~]$ echo 0 >
> /dev/cgroup/hello/cpuset.cpus
>>>> [host:~]$ echo 0 >
> /dev/cgroup/hello/cpuset.mems
>>>>
>>>> Can you paste the output of
>>>>
>>>> cat /dev/cgroup/hello/cpuset.cpus and mems.
>>>>
>>>> Also please paste the o/p of
> /dev/cgroup/cpuset.cpus and
>>>> mems
>>>>
>>>> [host:~]$ echo 575 >
> /dev/cgroup/hello/tasks
>>>> [host:~]$ cat /dev/cgroup/hello/tasks
>>>> 575
>>>> [host:~]$ id
>>>> uid=0(root) gid=0(root) groups=0(root)
>>>> [host:~]$
>>>>>
>>>>> Now, I try to move the task out - the
> parent/root:
>>>>>
>>>>> [host:~]$ echo 575 > /dev/cgroup/tasks
>>>>> -bash: echo: write error: Operation not
> permitted
>>>>>
>>>>> can you send us the o/p of
>>>>>
>>>>> ls -al /dev/cgroup
>>>>>

```

```

> > > and ls -al /dev/cgroup/hello
> > >
> > > Balbir
> > >
> > ----
> >
> > Please find output requested below:
> >
> >
> > [host:~]$ mkdir /dev/cgroup/hello
> > [host:~]$ cat /dev/cgroup/hello/tasks
> > [host:~]$ echo 0 > /dev/cgroup/hello/cpuset.cpus
> > [host:~]$ echo 0 > /dev/cgroup/hello/cpuset.mems
> > [host:~]$ echo 575 > /dev/cgroup/hello/tasks
> > [host:~]$ cat /dev/cgroup/hello/tasks
> > 575
> > [host:~]$ id
> > uid=0(root) gid=0(root) groups=0(root)
> > [host:~]$ echo 575 > /dev/cgroup/tasks
> > -bash: echo: write error: Operation not permitted
> > [host:~]$ cat /dev/cgroup/hello/cpuset.cpus
> > 0
> > [host:~]$ cat /dev/cgroup/hello/cpuset.mems
> > 0
> > [host:~]$ cat /dev/cgroup/cpuset.mems
> > 0
> > [host:~]$ cat /dev/cgroup/cpuset.cpus
> > 0
> > [host:~]$ ls -al /dev/cgroup/
> > total 0
> > drwxr-xr-x  3 root root   0 Dec 14
> 17:29 .
> > drwxr-xr-x 11 root root 2980 Dec 14 17:29 ..
> > -r--r--r--  1 root root   0 Dec 14
> 17:29 cgroup.procs
> > -rw-r--r--  1 root root   0 Dec 14
> 17:29 cpuset.cpu_exclusive
> > -rw-r--r--  1 root root   0 Dec 14
> 17:29 cpuset.cpus
> > -rw-r--r--  1 root root   0 Dec 14
> 17:29 cpuset.mem_exclusive
> > -rw-r--r--  1 root root   0 Dec 14
> 17:29 cpuset.mem_hardwall
> > -rw-r--r--  1 root root   0 Dec 14
> 17:29 cpuset.memory_migrate
> > -r--r--r--  1 root root   0 Dec 14
> 17:29 cpuset.memory_pressure
> > -rw-r--r--  1 root root   0 Dec 14

```

```

> 17:29 cpuset.memory_pressure_enabled
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 cpuset.memory_spread_page
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 cpuset.memory_spread_slab
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 cpuset.mems
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 cpuset.sched_load_balance
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 cpuset.sched_relax_domain_level
> > drwxr-xr-x 2 root root 0 Dec 14
> 17:29 hello
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 notify_on_release
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:29 release_agent
> > -rw-r--r-- 1 root root 0 Dec 14
> 17:31 tasks
> > [host:~]$ ls -al /dev/cgroup/hello/
> > total 0
> > drwxr-xr-x 2 root root 0 Dec 14 17:29 .
> > drwxr-xr-x 3 root root 0 Dec 14 17:29 ..
> > -r--r--r-- 1 root root 0 Dec 14 17:29 cgroup.procs
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.cpu_exclusive
> > -rw-r--r-- 1 root root 0 Dec 14 17:30 cpuset.cpus
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.mem_exclusive
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.mem_hardwall
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.memory_migrate
> > -r--r--r-- 1 root root 0 Dec 14 17:29
> cpuset.memory_pressure
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.memory_spread_page
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.memory_spread_slab
> > -rw-r--r-- 1 root root 0 Dec 14 17:30 cpuset.mems
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.sched_load_balance
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> cpuset.sched_relax_domain_level
> > -rw-r--r-- 1 root root 0 Dec 14 17:29
> notify_on_release
> > -rw-r--r-- 1 root root 0 Dec 14 17:30 tasks
> > [host:~]$ id

```

```
> > uid=0(root) gid=0(root) groups=0(root)
> > [host:~]$
> >
>
> Looks like Serge's ns suggestion solved your problem,
> right?
>
> --
>   Three Cheers,
>   Balbir
>
```

Yes, Balbir, thats right.

IMHO, it would nice if it can be documented on wiki or such.  
Thanks everyone for suggestions..

---

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

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