

Hi,

I decided to see what cgroups is all about, and followed the instructions in Documentation/cgroups.txt :-) It happened when I did this:

```
[root@damson /dev/cgroup/Vegard 0]
# echo 1 > cpuset.cpus
```

I can also provide the kernel config if necessary.

Vegard

```
=====
[ INFO: possible circular locking dependency detected ]
2.6.26-rc7 #25
```

```
-----
bash/10032 is trying to acquire lock:
(&cpu_hotplug.lock){--..}, at: [<c015efbc>] get_online_cpus+0x2c/0x40
```

```
but task is already holding lock:
(cgroup_mutex){--..}, at: [<c0160e6f>] cgroup_lock+0xf/0x20
```

which lock already depends on the new lock.

the existing dependency chain (in reverse order) is:

```
-> #1 (cgroup_mutex){--..}:
  [<c015a435>] __lock_acquire+0xf45/0x1040
  [<c015a5c8>] lock_acquire+0x98/0xd0
  [<c05416d1>] mutex_lock_nested+0xb1/0x300
  [<c0160e6f>] cgroup_lock+0xf/0x20
  [<c0164750>] cpuset_handle_cpuhp+0x20/0x180
  [<c014ea77>] notifier_call_chain+0x37/0x70
  [<c014eae9>] __raw_notifier_call_chain+0x19/0x20
  [<c051f8c8>] _cpu_down+0x78/0x240
  [<c051fabb>] cpu_down+0x2b/0x40
  [<c0520cd9>] store_online+0x39/0x80
  [<c02f627b>] sysdev_store+0x2b/0x40
  [<c01d3372>] sysfs_write_file+0xa2/0x100
  [<c0195486>] vfs_write+0x96/0x130
  [<c0195b4d>] sys_write+0x3d/0x70
```

```
[<c010831b>] sysenter_past_esp+0x78/0xd1  
[<ffffff>] 0xffffffff
```

-> #0 (&cpu\_hotplug.lock){--..}:

```
[<c0159fe5>] __lock_acquire+0xaf5/0x1040  
[<c015a5c8>] lock_acquire+0x98/0xd0  
[<c05416d1>] mutex_lock_nested+0xb1/0x300  
[<c015efbc>] get_online_cpus+0x2c/0x40  
[<c0163e6d>] rebuild_sched_domains+0x7d/0x3a0  
[<c01653a4>] cpuset_common_file_write+0x204/0x440  
[<c0162bc7>] cgroup_file_write+0x67/0x130  
[<c0195486>] vfs_write+0x96/0x130  
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```

other info that might help us debug this:

1 lock held by bash/10032:

#0: (cgroup\_mutex){--..}, at: [<c0160e6f>] cgroup\_lock+0xf/0x20

stack backtrace:

```
Pid: 10032, comm: bash Not tainted 2.6.26-rc7 #25  
[<c0157ae7>] print_circular_bug_tail+0x77/0x90  
[<c0159fe5>] __lock_acquire+0xaf5/0x1040  
[<c015a5c8>] lock_acquire+0x98/0xd0  
[<c015efbc>] ? get_online_cpus+0x2c/0x40  
[<c05416d1>] mutex_lock_nested+0xb1/0x300  
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[<c015efbc>] get_online_cpus+0x2c/0x40  
[<c0163e6d>] rebuild_sched_domains+0x7d/0x3a0  
[<c0158e65>] ? mark_held_locks+0x65/0x80  
[<c0190ac5>] ? kfree+0xb5/0x120  
[<c027736a>] ? heap_free+0xa/0x10  
[<c027736a>] ? heap_free+0xa/0x10  
[<c01653a4>] cpuset_common_file_write+0x204/0x440  
[<c0163c30>] ? started_after+0x0/0x70  
[<c010e585>] ? native_sched_clock+0xb5/0x110  
[<c0162e10>] ? started_after+0x0/0x70  
[<c0164c80>] ? cpuset_test_cpumask+0x0/0x20  
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[<c0162b60>] ? cgroup_file_write+0x0/0x130  
[<c0195b4d>] sys_write+0x3d/0x70
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[<c010831b>] sysenter\_past\_esp+0x78/0xd1

=====

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

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Subject: Re: v2.6.26-rc7/cgroups: circular locking dependency  
Posted by [Cyrill Gorcunov](#) on Sun, 22 Jun 2008 09:10:13 GMT  
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[Vegard Nossum - Sat, Jun 21, 2008 at 07:38:59PM +0200]

| Hi,

| I decided to see what cgroups is all about, and followed the instructions  
| in Documentation/cgroups.txt :-) It happened when I did this:

| [root@damson /dev/cgroup/Vegard 0]  
| # echo 1 > cpuset.cpus

| I can also provide the kernel config if necessary.

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| [<c010e585>] ? native_sched_clock+0xb5/0x110
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| =====
|
```

Hi Vegard,

would be interesting to see your config please

- Cyrill -

---

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

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Subject: Re: v2.6.26-rc7/cgroups: circular locking dependency  
Posted by [Vegard Nossum](#) on Sun, 22 Jun 2008 09:42:50 GMT  
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On Sun, Jun 22, 2008 at 11:10 AM, Cyrill Gorcunov <[gorcunov@gmail.com](mailto:gorcunov@gmail.com)> wrote:  
> [Vegard Nossum - Sat, Jun 21, 2008 at 07:38:59PM +0200]

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```

...

```
> Hi Vegard,
>
> would be interesting to see your config please
```

Here is my config and vmlinux:

<http://www.kernel.org/pub/linux/kernel/people/vegard/kernels/20080621-v2.6.26-rc7/>

By the way, I was doing CPU hotplug/unplug at the time.

Thanks :)

Vegard

--

"The animistic metaphor of the bug that maliciously sneaked in while the programmer was not looking is intellectually dishonest as it disguises that the error is the programmer's own creation."

-- E. W. Dijkstra, EWD1036

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Subject: Re: v2.6.26-rc7/cgroups: circular locking dependency

Posted by [Cyrill Gorcunov](#) on Sun, 22 Jun 2008 09:50:49 GMT

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[Vegard Nossum - Sun, Jun 22, 2008 at 11:42:50AM +0200]

| On Sun, Jun 22, 2008 at 11:10 AM, Cyrill Gorcunov <[gorcunov@gmail.com](mailto:gorcunov@gmail.com)> wrote:

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| the programmer was not looking is intellectually dishonest as it  
| disguises that the error is the programmer's own creation."

| -- E. W. Dijkstra, EWD1036

Thanks Vegard,

actually i'm not that spec in this area ;) but will take a look

- Cyrill -

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