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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 Nossun - 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.

| Vegard

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

```
| bash/10032 is trying to acquire lock:  
| (&cpu_hotplug.lock){--..}, at: [
```

```
| but task is already holding lock:  
| (cgroup_mutex){--..}, at: [
```

| which lock already depends on the new lock.

| the existing dependency chain (in reverse order) is:

```
| -> #1 (cgroup_mutex){--..}:  
| [| [| [| [| [| [| [| [| [| [| [| [| [
```

```
[<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
[<c0195b4d>] sys_write+0x3d/0x70
[<c010831b>] sysenter_past_esp+0x78/0xd1
[<ffffff>] 0xffffffff
```

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
[<c015efbc>] ? get_online_cpus+0x2c/0x40
[<c015efbc>] ? get_online_cpus+0x2c/0x40
[<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
[<c0164ca0>] ? cpuset_change_cpumask+0x0/0x20
[<c0162bc7>] cgroup_file_write+0x67/0x130
[<c01651a0>] ? cpuset_common_file_write+0x0/0x440
[<c010e585>] ? native_sched_clock+0xb5/0x110
[<c0195486>] vfs_write+0x96/0x130
[<c0162b60>] ? cgroup_file_write+0x0/0x130
```

```
| [<c0195b4d>] sys_write+0x3d/0x70
| [<c010831b>] sysenter_past_esp+0x78/0xd1
| =====
|
```

Hi Vegard,

would be interesting to see your config please

- Cyrill -

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