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Subject: Re: v2.6.26-rc7/cgroups: circular locking dependency  
Posted by [Peter Zijlstra](#) on Sun, 22 Jun 2008 15:50:21 GMT  
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On Mon, 2008-06-23 at 00:34 +0900, KOSAKI Motohiro wrote:

> CC'ed Paul Jackson

>

> it seems typical ABBA deadlock.

> I think cpuset use cgrou\_lock() by mistake.

>

> IMHO, cpuset\_handle\_cpuphp() sholdn't use cgroup\_lock() and

> shouldn't call rebuild\_sched\_domains().

Looks like Max forgot to test with lockdep enabled...

Well, someone should when you change the online map.

Max, Paul, can we handle this in update\_sched\_domains() instead?

> -> #1 (cgroup\_mutex){--..}:

> [c015a435] \_\_lock\_acquire+0xf45/0x1040

> [c015a5c8] lock\_acquire+0x98/0xd0

> [c05416d1] mutex\_lock\_nested+0xb1/0x300

> [c0160e6f] cgroup\_lock+0xf/0x20 cgroup\_lock

> [c0164750] cpuset\_handle\_cpuphp+0x20/0x180

> [c014ea77] notifier\_call\_chain+0x37/0x70

> [c014eae9] \_\_raw\_notifier\_call\_chain+0x19/0x20

> [c051f8c8] \_cpu\_down+0x78/0x240 cpu\_hotplug.lock

> [c051fab] cpu\_down+0x2b/0x40 cpu\_add\_remove\_lock

> [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

> [c0000000] 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 cpu\_hotplug.lock

> [c0163e6d] rebuild\_sched\_domains+0x7d/0x3a0

> [c01653a4] cpuset\_common\_file\_write+0x204/0x440 cgroup\_lock

> [c0162bc7] cgroup\_file\_write+0x67/0x130

> [c0195486] vfs\_write+0x96/0x130

> [c0195b4d] sys\_write+0x3d/0x70

> [c010831b] sysenter\_past\_esp+0x78/0xd1

```

>    [<ffffff>] 0xffffffff
>
>
> > 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.
> --
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