
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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