Subject: Re: v2.6.26-rc7/cgroups: circular locking dependency
Posted by KOSAKI Motohiro on Sun, 22 Jun 2008 15:34:04 GMT
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CC'ed Paul Jackson

it seems typical ABBA deadlock.
I think cpuset use cgrou_lock() by mistake.

IMHO, cpuset_handle_cpuhp() sholdn't use cgroup_lock() and
shouldn't call rebuild_sched_domains().

```
 -> #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_cpuhp+0x20/0x180
       [<c014ea77>] notifier_call_chain+0x37/0x70
       [<c014eae9>] __raw_notifier_call_chain+0x19/0x20
       [<c051f8c8>] _cpu_down+0x78/0x240   cpu_hotplug.lock
       [<c051fabb>] 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
       [<ffffffff>] 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
       [<ffffffff>] 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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