Subject: Re: [PATCH 3/7] containers (V7): Add generic multi-subsystem API to containers

Posted by Srivatsa Vaddagiri on Thu, 08 Mar 2007 17:46:04 GMT

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On Mon, Feb 12, 2007 at 12:15:24AM -0800, menage@google.com wrote:

> +static struct container_group *find_container_group(

> + struct container_group *oldcg, struct container *cont)

> +{

> + struct container_group *res;

> + struct container_subsys *ss;

> + int h = cont->hierarchy;

> + int i;

> +

> + BUG_ON(oldcg->container[h] == cont);

> + /* First see if we already have a container group that matches

> + * the desired set */

> + spin_lock(&container_group_lock);
```

I think this should be spin\_lock\_irq().

I have been bitten by lockdep warning in the rcfs patchs. But I think they should apply here as well.

Essentially, container\_task\_count() is called from cpuset.c after doing write\_lock\_irq(tasklist\_lock). This creates the dependency:

tasklist\_lock (irqs disabled) -> container\_group\_lock

However in above function, find\_container\_group (and several other functions) we take container\_group\_lock w/o blocking interrupts. An interrupt handler now trying to take tasklist\_lock will cause a deadlock.

--Regards, vatsa