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Subject: Re: [ckrm-tech] [PATCH 1/7] containers (V7): Generic container system abstracted from cpusets code

Posted by [Srivatsa Vaddagiri](#) on Sun, 25 Mar 2007 04:16:02 GMT

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On Sun, Mar 25, 2007 at 07:58:16AM +0530, Srivatsa Vaddagiri wrote:

> Not just this, continuing further we have more trouble:

>

> -----

> CPU0 (attach\_task T1 to CS2) CPU1 (T1 is exiting)

> -----

>

> synchronize\_rcu()

>     atomic\_dec(&CS1->count);

>     [CS1->count = 0]

>

> if atomic\_dec\_and\_test(&oldcs->count))

> [CS1->count = -1]

>

>

>

> We now have CS1->count negative. Is that good? I am uncomfortable ..

>

> We need a task\_lock() in cpuset\_exit to avoid this race.

2nd race is tricky. We probably need to do this to avoid it:

```
task_lock(tsk);
```

```
/* Check if tsk->cpuset is still same. We may have raced with
```

```
 * cpuset_exit changing tsk->cpuset again under our feet.
```

```
*/
```

```
if (tsk->cpuset == cs && atomic_dec_and_test(&oldcs->count)) {
```

```
    task_unlock(tsk);
```

```
        check_for_release(oldcs, ppathbuf);
```

```
    goto done;
```

```
}
```

```
task_unlock(tsk);
```

```
done:
```

```
    return 0;
```

```
--
```

```
Regards,
```

```
vatsa
```

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