
Subject: Re: [ckrm-tech] [RFC][PATCH 2/6] task's cpu information needs to be always correct

Posted by [Balbir Singh](#) on Tue, 12 Jun 2007 02:17:08 GMT

[View Forum Message](#) <> [Reply to Message](#)

Srivatsa Vaddagiri wrote:

> We rely very much on task_cpu(p) to be correct at all times, so that we
> can correctly find the runqueue from which the task has to be removed or
> added to.

>

> There is however one place in the scheduler where this assumption of
> task_cpu(p) being correct is broken. This patch fixes that piece of
> code.

>

> (Thanks to Balbir Singh for pointing this out to me)

>

> Signed-off-by : Srivatsa Vaddagiri <vatsa@linux.vnet.ibm.com>

>

Acked-by: Balbir Singh <balbir@linux.vnet.ibm.com>

> ---

> kernel/sched.c | 8 +++++---

> 1 files changed, 5 insertions(+), 3 deletions(-)

>

> Index: current/kernel/sched.c

> =====

> --- current.orig/kernel/sched.c 2007-06-09 15:07:17.000000000 +0530

> +++ current/kernel/sched.c 2007-06-09 15:07:32.000000000 +0530

> @@ -4624,7 +4624,7 @@

> static int __migrate_task(struct task_struct *p, int src_cpu, int dest_cpu)

> {

> struct rq *rq_dest, *rq_src;

> - int ret = 0;

> + int ret = 0, on_rq;

>

> if (unlikely(cpu_is_offline(dest_cpu)))

> return ret;

> @@ -4640,9 +4640,11 @@

> if (!cpu_isset(dest_cpu, p->cpus_allowed))

> goto out;

>

> - set_task_cpu(p, dest_cpu);

> - if (p->se.on_rq) {

> + on_rq = p->se.on_rq;

> + if (on_rq)

> deactivate_task(rq_src, p, 0);

> + set_task_cpu(p, dest_cpu);

```
> + if (on_rq) {  
>   activate_task(rq_dest, p, 0);  
>   check_preempt_curr(rq_dest, p);  
> }
```

--

Warm Regards,
Balbir Singh
Linux Technology Center
IBM, ISTL

Containers mailing list
Containers@lists.linux-foundation.org
<https://lists.linux-foundation.org/mailman/listinfo/containers>
