
Subject: [RFC][PATCH 2/6] task's cpu information needs to be always correct
Posted by [Srivatsa Vaddagiri](#) on Mon, 11 Jun 2007 15:52:12 GMT
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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>

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);
    }
--
```

Regards,
vatsa

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