
Subject: [RFC] [PATCH 1/3] task_cpu(p) needs to be correct always
Posted by [Srivatsa Vaddagiri](#) on Wed, 23 May 2007 16:51:26 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 task_grp_rq 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@in.ibm.com>

kernel/sched.c | 8 +++++++
1 file changed, 5 insertions(+), 3 deletions(-)

Index: linux-2.6.21-rc7/kernel/sched.c

=====

```
--- linux-2.6.21-rc7.orig/kernel/sched.c 2007-05-23 20:46:41.000000000 +0530
+++ linux-2.6.21-rc7/kernel/sched.c 2007-05-23 20:48:26.000000000 +0530
@@ -4571,7 +4571,7 @@
 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;
@@ -4587,9 +4587,11 @@
     if (!cpu_isset(dest_cpu, p->cpus_allowed))
         goto out;

-    set_task_cpu(p, dest_cpu);
-    if (p->on_rq) {
+    on_rq = p->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);
     }
}
```

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Regards,
vatsa

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