
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

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--- 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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