
Subject: [PATCH 8/9] task_cpu(p) needs to be correct always
Posted by [Srivatsa Vaddagiri](#) on Thu, 12 Apr 2007 17:59:37 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>

1 file changed, 8 insertions(+), 2 deletions(-)

```
diff -puN kernel/sched.c~task_cpu kernel/sched.c
--- linux-2.6.20/kernel/sched.c~task_cpu 2007-04-12 09:10:39.000000000 +0530
+++ linux-2.6.20-vatsa/kernel/sched.c 2007-04-12 11:07:14.000000000 +0530
@@ -5400,6 +5400,7 @@ static int __migrate_task(struct task_st
{
    struct rq *rq_dest, *rq_src;
    int ret = 0;
+   struct prio_array *array;

    if (unlikely(cpu_is_offline(dest_cpu)))
        return ret;
@@ -5415,8 +5416,8 @@ static int __migrate_task(struct task_st
    if (!cpu_isset(dest_cpu, p->cpus_allowed))
        goto out;

-   set_task_cpu(p, dest_cpu);
-   if (p->array) {
+   array = p->array;
+   if (array) {
        /*
         * Sync timestamp with rq_dest's before activating.
         * The same thing could be achieved by doing this step
@@ -5426,6 +5427,11 @@ static int __migrate_task(struct task_st

```

```
p->timestamp = p->timestamp - rq_src->most_recent_timestamp  
    + rq_dest->most_recent_timestamp;  
deactivate_task(p, rq_src);  
+ }  
+  
+ set_task_cpu(p, dest_cpu);  
+  
+ if (array) {  
    __activate_task(p, rq_dest);  
    if (TASK_PREEMPTS_CURR(p, rq_dest))  
        resched_task(rq_dest->curr);
```

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Regards,
vatsa

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