
Subject: [PATCH v2 1/5] measure exec_clock for rt sched entities
Posted by [Glauber Costa](#) on Mon, 09 Apr 2012 22:25:11 GMT
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For symmetry with the cfq tasks, measure exec_clock for the rt sched entities (rt_se).

This can be used in a number of fashions. For instance, to compute total cpu usage in a cgroup that is generated by rt tasks.

Signed-off-by: Glauber Costa <glommer@parallels.com>

```
kernel/sched/rt.c | 5 +++++
kernel/sched/sched.h | 1 +
2 files changed, 6 insertions(+), 0 deletions(-)
```

```
diff --git a/kernel/sched/rt.c b/kernel/sched/rt.c
index 44af55e..02869a9 100644
--- a/kernel/sched/rt.c
+++ b/kernel/sched/rt.c
@@ -919,6 +919,11 @@ static void update_curr_rt(struct rq *rq)
```

```
    sched_rt_avg_update(rq, delta_exec);

+ for_each_sched_rt_entity(rt_se) {
+     rt_rq = rt_rq_of_se(rt_se);
+     schedstat_add(rt_rq, exec_clock, delta_exec);
+ }
+
 if (!rt_bandwidth_enabled())
 return;
```

```
diff --git a/kernel/sched/sched.h b/kernel/sched/sched.h
index fb3acba..b8bcd147 100644
--- a/kernel/sched/sched.h
+++ b/kernel/sched/sched.h
@@ -295,6 +295,7 @@ struct rt_rq {
     struct plist_head pushable_tasks;
 #endif
     int rt_throttled;
+    u64 exec_clock;
     u64 rt_time;
     u64 rt_runtime;
     /* Nests inside the rq lock: */
```

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1.7.7.6
