Subject: Re: [PATCH v3 1/6] measure exec_clock for rt sched entities
Posted by Glauber Costa on Wed, 30 May 2012 10:32:07 GMT
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On 05/30/2012 02:29 PM, Peter Zijlstra wrote:
> On Wed, 2012-05-30 at 13:48 +0400, Glauber Costa wrote:
>> For simetry with the cfq tasks, measure exec_clock for the rt
>> sched entities (rt_se).
>
> Symmetry methinks..

=p bad me
> anyway, where is the symmetry?, fair.c:update_curr()
> doesn't do the for_each_sched_entity() thing.

It does implicitly, because fair.c:update_curr() is called from
within enqueue_task(), that is called for_each_sched_entity in
enqueue_task_fair().

>
>> 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>
>> CC: Peter Zijlstra<a.p.zijlstra@chello.nl>
>> CC: Paul Turner<pjt@google.com>
>> ---
>> kernel/sched/rt.c | 5 +++++
>> kernel/sched/sched.h | 1 +
>> 2 files changed, 6 insertions(+)
>>
>> diff --git a/kernel/sched/rt.c b/kernel/sched/rt.c
>> index c5565c3..30ee4e2 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;
>

> See, this just makes me sad.. you now have a double
> for_each_sched_rt_entity() loop.

The way I read the rt.c code, it it is called from enqueue_task_rt only once.