

## Robotics Systems Commons - Bug #187

### PeriodicTask does not guarantee fixed scheduling with long processing time

02/14/2011 03:52 PM - J. Wienke

<b>Status:</b>	Resolved	<b>Start date:</b>	02/14/2011
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Threading	<b>Estimated time:</b>	1.51 hour
<b>Target version:</b>	0.7		
<b>Description</b>			
The processing time is not used for sleeping. Provide two versions: 1. as it is to have a fixed sleep time 2. one where processing time is used to calculate the sleep time.			

#### Associated revisions

##### Revision 9817a02d - 10/31/2011 08:01 PM - Arne Nordmann

Jitter significantly decreased and reduced number of timestamp requests to one per cycle

Jitter does no longer adds up over time

Added example for peridodic task

refs #187

#### History

##### #1 - 02/15/2011 07:00 PM - J. Wienke

- Estimated time changed from 1.50 to 1.51

##### #2 - 05/27/2011 03:25 PM - J. Wienke

- Target version changed from 0.2 to 0.3

##### #3 - 06/14/2011 11:41 AM - J. Wienke

- Target version changed from 0.3 to 0.4

##### #4 - 07/18/2011 07:24 PM - Anonymous

- % Done changed from 0 to 30

Increased precision with Revision r299, but still an offset of ~60us remaining.

##### #5 - 09/08/2011 11:08 AM - J. Wienke

- Target version changed from 0.4 to 0.5

##### #6 - 10/22/2011 01:28 AM - J. Moringen

- Target version changed from 0.5 to 0.6

##### #7 - 03/02/2012 02:43 PM - J. Wienke

- Subject changed from *PeriodicTask does not guarantee fixed schedulign with long processing time* to *PeriodicTask does not guarantee fixed scheduling with long processing time*

We would like to release 0.6 this weekend. Is there a chance to get this done before?

**#8 - 03/05/2012 11:04 AM - S. Wrede**

- *Status changed from New to Feedback*
- *Target version changed from 0.6 to 0.7*

Postponed due to inactivity. Should not block 0.6 release.

@Arne: Could you please elaborate a bit on the state of this issue?

**#9 - 03/06/2012 03:28 PM - Anonymous**

Already done as far as I recall.

Needs to be tested and approved for release though. Could do that until the end of this week.

**#10 - 07/11/2012 09:15 AM - J. Wienke**

Can you please do the checking before leaving? Otherwise this will not get in the 0.7 release.

**#11 - 07/11/2012 08:48 PM - Anonymous**

- *Status changed from Feedback to Resolved*
- *% Done changed from 30 to 100*

Checked to be working. Periodic task accounting processing time of the task by default (can be disabled when creating the task, though, to provide previous behavior).

See source:examples/PeriodicTask.cpp