

## Kepler - Bug #4041

### synchronization in matlab actor

04/30/2009 10:28 AM - Daniel Crawl

|                        |              |                        |            |
|------------------------|--------------|------------------------|------------|
| <b>Status:</b>         | New          | <b>Start date:</b>     | 04/30/2009 |
| <b>Priority:</b>       | Normal       | <b>Due date:</b>       |            |
| <b>Assignee:</b>       | Daniel Crawl | <b>% Done:</b>         | 0%         |
| <b>Category:</b>       | actors       | <b>Estimated time:</b> | 0.00 hour  |
| <b>Target version:</b> | 3.X.Y        | <b>Spent time:</b>     | 0.00 hour  |
| <b>Bugzilla-Id:</b>    | 4041         |                        |            |

#### Description

The matlab actor starts a new matlab process in preinitialize and closes it in wrapup. Each instance of the actor in a model starts and stops a separate matlab process. However, they all synchronize on a shared object, which prevents concurrent matlab execution.

Ideally, the actors should be able to run concurrently. Why are they synchronized? (Maybe the matlab engine shared library is not thread-safe)?

If they cannot run concurrently, then only one matlab process should be used per JVM.

#### History

#1 - 03/27/2013 02:25 PM - Redmine Admin

Original Bugzilla ID was 4041