

Kepler - Bug #2134

More advanced integration with R

06/27/2005 01:35 PM - Dan Higgins

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|------------------------|----------------|------------------------|------------|
| Status: | Resolved | Start date: | 06/27/2005 |
| Priority: | Normal | Due date: | |
| Assignee: | Dan Higgins | % Done: | 0% |
| Category: | actors | Estimated time: | 0.00 hour |
| Target version: | Post-rel-1.0.0 | Spent time: | 0.00 hour |
| Bugzilla-Id: | 2134 | | |

Description

The RExpression actor provides a basic, easy-to-use interface between Kepler and R. It does not, however, handle all R datatypes. (It does allow number, string, array, and dataframe inputs and all of these but dataframe outputs.) It also depends on starting up a new instance of R each time it is called. And the conversions are all string-based, which is inefficient.

There may be the need for a more complete implementation of an R actor, perhaps using a remote R server, that would remain running, and carry out Kepler/R and R/Kepler conversions more efficiently.

Similarly, R graphics is integrated into Kepler via image files (jpegs). A more direct method for getting R graphics into Kepler would be useful.

History

#1 - 11/02/2005 05:46 PM - Matt Jones

we should handle this after the 1.0.0 release.

#2 - 04/06/2007 01:53 PM - Dan Higgins

The RExpression actor has been extended to handle additional R data types (especially dataframes and matrices) on both input and output. Additionally, issues with graphic displays on the Mac have been corrected by adding the capability for PDF outputs (displayed using platform specific applications rather than Kepler windows).

Totally arbitrary R objects are not yet handled, and more extensive integration of R and Kepler is possible, but should probably be handled in the future with new bur reports.

#3 - 03/27/2013 02:19 PM - Redmine Admin

Original Bugzilla ID was 2134