

Kepler - Bug #2304

RExpression accepts only limited input size.

11/30/2005 03:13 PM - Lareo Lareo

Status:	Resolved	Start date:	11/30/2005
Priority:	Immediate	Due date:	
Assignee:	Dan Higgins	% Done:	0%
Category:	actors	Estimated time:	0.00 hour
Target version:	1.0.0rc1	Spent time:	0.00 hour
Bugzilla-Id:	2304		

Description

The R expression actor accepts only a very limited size of input. For example, a vector `x <- 1:20000` with 20000 elements cannot be in the input. It was mentioned that it is planned to implement a TCP/IP binding to the R platform. Maybe this binding does not have such limitation.

The bug is severe for the bioinformatics/microarray community. Here, dataframes and tables of very large dimensions are handled.

History

#1 - 11/30/2005 08:02 PM - Dan Higgins

I think I may have limited the size of the string used to pass data from Kepler to R. (I will check the code.)

It may be very difficult to pass very large vectors from Kepler to R using the current method of string conversions.

Dan Higgins - Nov 2005

#2 - 12/05/2005 10:41 AM - Dan Higgins

Some further examination indicates that the problem indicate that the problem is in 'R' rather than the RExpression code! (More precisely, an error occurs in RTerminal when one tried to input too large of a vector.)

The problem is that vectors are passed a strings. The strings are broken into many lines when the vector is long. Apparently there is a limit in RTerminal in the length of lines that can be put together to form an R expression (text limit appears to be 128K?)

#3 - 01/10/2006 03:09 PM - Dan Higgins

This bug was fixed by adding code to use temporary files for passing large Kepler arrays to R. The R script automatically reads the file using 'scan' and then deletes the temporary file.

Dan Higgins - Jan 2006

#4 - 03/27/2013 02:19 PM - Redmine Admin

Original Bugzilla ID was 2304