

Kepler - Bug #6629

type resolution problem when using RecordAssembler

12/01/2014 04:04 PM - Daniel Crawl

Status:	Closed	Start date:	12/01/2014
Priority:	High	Due date:	
Assignee:	Marten Lohstroh	% Done:	100%
Category:	actors	Estimated time:	0.00 hour
Target version:		Spent time:	4.25 hours
Bugzilla-Id:			
Description			
Using RecordAssembler can cause type resolution to fail. Attached are two models that demonstrate the problem.			
In rec-assembler-1.xml, a type resolution error will usually, but not always, occur when you run it.			
In rec-assembler-2.xml, the second RecordAssembler actor is replaced with an Expression actor that constructs the same record, and no type resolution error occurs.			

History

#1 - 12/17/2014 09:25 AM - Christopher Brooks

This seems like a simple use of RecordAssembler that should work. I checked in a test for this at \$PTII/ptolemy/actor/lib/test/auto/RecordAssemblerTypeError.xml

#2 - 02/03/2015 02:09 AM - Marten Lohstroh

- Status changed from New to Closed
- Assignee changed from Daniel Crawl to Marten Lohstroh
- % Done changed from 0 to 100

The arbitrary order in which Mogensen's algorithm resolves type constraints seemed to trigger non-deterministic type errors due to an error in ParseTreeTypeInference.visitMethodCallNode(). Changes were made in revision 71540 and the supplied model now runs without errors.

Files

rec-assembler-1.xml	40.1 KB	12/02/2014	Daniel Crawl
rec-assembler-2.xml	42 KB	12/02/2014	Daniel Crawl