

## Kepler - Bug #6629

### type resolution problem when using RecordAssembler

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

<b>Status:</b>	Closed	<b>Start date:</b>	12/01/2014
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Marten Lohstroh	<b>% Done:</b>	100%
<b>Category:</b>	actors	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Spent time:</b>	4.25 hours
<b>Bugzilla-Id:</b>			
<b>Description</b>			
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 \$PTI/ptolemy/actor/lib/test/auto/RecordAssemblerTypeError.xml

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

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

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