# Kepler - Bug #5627

## List all possible port types in actor Types drop down list

06/15/2012 03:57 PM - Derik Barseghian

Status: New Start date: 06/15/2012 **Priority:** Normal Due date: Assignee: Derik Barseghian % Done: 0% Category: **Estimated time:** 0.00 hour actors Target version: 2.X.Y Spent time: 0.00 hour Bugzilla-ld: 5627

### **Description**

It would be nice if on an actor's port Type drop down list, all possible types were listed. If this list were automatically generated, then we'd be covered. Kepler has a date token, so the list would have to account for Ptolemy and Kepler types.

#### History

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#1 - 06/15/2012 08:00 PM - Christopher Brooks
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ptolemy/actor/gui/PortConfigurerDialog.java
so that it gets the types from the TypeLattice. The code is:
/** Generate a combo box based on the type names. */
    private JComboBox _createPortTypeComboBox() {
        JComboBox jComboBox = _createComboBox();
//
     // Add the types from data.expr.Constants
     TreeMap typeMap = Constants.types();
//
//
     Iterator types = typeMap.keySet().iterator();
//
     while (types.hasNext()) {
       String type = (String) (types.next());
//
//
       jComboBox.addItem(type);
//
// Get the types from the TypeLattice.
         // http://bugzilla.ecoinformatics.org/show_bug.cgi?id=5627
         Object [] types = ((DirectedAcyclicGraph)TypeLattice.basicLattice()).topologicalSort();
        List<String&gt; typeList = new LinkedList&lt;String&gt;();
         for (int i = 0; i < types.length; i++) {
             typeList.add(types[i].toString());
         // Add some common types
         typeList.add("arrayType(int)");
         typeList.add("arrayType(int,5)");
        typeList.add("{x=double, y=double}");
Collections.sort(typeList);
for (String typeName : typeList) {
             jComboBox.addItem(typeName);
        return jComboBox;
```

The types that are now listed are:

Actor
[boolean]
[complex]
[double]
[fixedpoint]
[int]
[long]
arrayBottom
arrayType(int)
arrayType(int,5)
arrayType(unknown)
boolean

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complex double event fixedpoint fixedpoint(0,0) float general int long matrix niltype object(null) petite scalar short string unknown unsignedByte

xmltoken {x=double, y=double} {||} {}

I'm not sure if this is useful or better or what, but I thought we would try it. Note that  $\{||\}$  is a Union type and  $\{\}$  is an empty Record.

Is the Kepler Date type in the type lattice somehow?

If the Date type is not in the type lattice, then I don't think there is a way to list all the standalone types like ptolemy.actor.lib.security.KeyToken\$KeyType We could add a registry somewhere so that these standalone types get recorded.

To really close this bug, we would need to set up a way to register types that are not in the type lattice and then find all the types and register them.

### #2 - 03/27/2013 02:31 PM - Redmine Admin

Original Bugzilla ID was 5627

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