

Robotics Service Bus - Bug #2002

Add ForcesQueue to rsb-matlab 0.9

09/16/2014 01:21 PM - Anonymous

Status:	Resolved	Start date:	09/16/2014
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Matlab	Estimated time:	0.00 hour
Target version:	rsb-0.9		

Description

Add ForcesQueue to rsb-matlab 0.9 in order to be able to receive rst.dynamics.Forces in Matlab.
Probably use PoseQueue etc. as template.

Then port to master.

History

#1 - 09/16/2014 01:33 PM - Anonymous

- Assignee set to Anonymous

#2 - 09/17/2014 01:21 PM - Anonymous

- File ForcesQueue.java added

- File ForcesQueue.java added

#3 - 09/17/2014 02:24 PM - K. Narioka

I have put rsb-m-0.11.0.jar in /vol/amarsi/x86-64-precise/trunk/share/java/ and referred it by adding the path in the function getRSBed. An error occurs with a function rsbWrite, which works well with the previous version of rsb-m (rsb-m-0.10.0.jar). Error message is as following.

```
>> getRSBed();
>> rInformer = rsbOpenInformer('/cca/comp/OncillaWorld/statechange/');
>> rsbWrite(rInformer, 32, 'rst.generic.ValueType', 'Value', 'INT');
```

Error using rsb.Informer/send

Java exception occurred:

rsb.converter.ConversionException: rsb.converter.NoSuchConverterException: No converter with key rst.generic.ValueType\$Value registered in ConverterMap

at

rsb.protocol.ProtocolConversion.serializeEventData(ProtocolConversion.java:129)

at

rsb.transport.socket.SocketOutConnector.push(SocketOutConnector.java:74)

at

rsb.eventprocessing.DefaultOutRouteConfigurator.publishSync(DefaultOutRouteConfigurator.java:62)

at rsb.Informer\$InformerStateActive.send(Informer.java:156)

at rsb.Informer\$InformerStateActive.send(Informer.java:165)

at rsb.Informer.send(Informer.java:302)

Caused by: rsb.converter.NoSuchConverterException: No converter with key

rst.generic.ValueType\$Value registered in ConverterMap

at

rsb.converter.UnambiguousConverterMap.getConverter(UnambiguousConverterMap.java:49)

at

rsb.protocol.ProtocolConversion.serializeEventData(ProtocolConversion.java:123)

... 5 more

Error in rsbWrite (line 21)
informer.send(b.build);

#4 - 09/17/2014 02:56 PM - K. Narioka

- File Example3.cpp added

It is still not working properly with rsb-m-0.11.0.jar to receive force information.

```
>> getRSBed();  
>> fListener = rsbOpenListener('/oncilla/supervisor/force', 'ForcesQueue');  
  
--  
Sep 17, 2014 2:26:47 PM rsb.transport.socket.SocketInPushConnector handle  
WARNING: Error while dispatching notification to registered handlers. Ignoring this.  
rsb.converter.NoSuchConverterException: No converter with key .rst.dynamics.Forces registered in ConverterMap  
  at rsb.converter.UnambiguousConverterMap.getConverter(UnambiguousConverterMap.java:49)  
  at rsb.protocol.ProtocolConversion.fromNotification(ProtocolConversion.java:202)  
  at rsb.transport.socket.SocketInPushConnector.handle(SocketInPushConnector.java:112)  
  at rsb.transport.socket.BusBase.handleLocally(BusBase.java:336)  
  at rsb.transport.socket.BusServer.handleIncoming(BusServer.java:218)  
  at rsb.transport.socket.BusBase$ReceiveThread.doOneNotification(BusBase.java:111)  
  at rsb.transport.socket.BusBase$ReceiveThread.run(BusBase.java:162)  
  
--
```

this warning message is repeatedly displayed until stopping webots simulator.

#5 - 09/19/2014 01:14 PM - J. Wienke

So for the Matlab problem, you are missing the converter registration. This can be done as visible in the examples, i.e.:

```
rsb.matlab.ConverterRegistration.register('rst.generic.ValueType', 'Value')
```

This needs to be done before you create any informer or listener.

#6 - 09/19/2014 01:15 PM - J. Wienke

You need to use the following to receive forces:

```
rsb.matlab.ConverterRegistration.register('rst.dynamics.ForcesType', 'Forces')
```

#7 - 09/22/2014 03:46 PM - K. Narioka

It's working after the converter registration. Thanks a lot for your help!

#8 - 09/22/2014 04:07 PM - Anonymous

- Status changed from New to Resolved

Files

ForcesQueue.java	867 Bytes	09/17/2014	Anonymous
ForcesQueue.java	867 Bytes	09/17/2014	Anonymous
Example3.cpp	5.5 KB	09/17/2014	K. Narioka