

Robotics Service Bus - Bug #419

RSB clashes with Qt

07/14/2011 01:07 PM - M. Rolf

Status:	Resolved	Start date:	07/14/2011
Priority:	Normal	Due date:	
Assignee:	J. Wienke	% Done:	100%
Category:	C++	Estimated time:	0.00 hour
Target version:	0.4		
Description			
The following program does not compile:			
<pre>#include <qapplication.h> #include <rsb/Informer.h> int main(){ return 0; }</pre>			
In file included from /vol/xcf/include/rsb/transport/Factory.h:31, from /vol/xcf/include/rsb/Informer.h:33, from application/test.cpp:3: /vol/xcf/include/rsb/transport/InPullConnector.h:48: error: declaration of 'virtual int rsb::transport::InPullConnector::EventPtr(bool)' /vol/xcf/include/rsb/Event.h:138: error: changes meaning of 'EventPtr' from 'typedef class boost::shared_ptr<rsb::Event> rsb::EventPtr'			
Related issues:			
Blocked by Robotics Systems Commons - Enhancement # 557: name clashes with Qt		Resolved	09/08/2011

Associated revisions

Revision b6f9534f - 09/08/2011 11:54 AM - J. Wienke

Avoid name clashes with Qt emit. This changes the API!

refs #557

refs #419

Revision 9ba51b46 - 09/08/2011 12:04 PM - J. Wienke

merge back r2550 to branch to avoid Qt name clashes.

fixes #419

History

#1 - 07/14/2011 06:49 PM - J. Moringen

- Status changed from New to Resolved

This seems to be broken in QT: from what I understand, QT defines some macros (emit in this case) which get leaked into other header files causing arbitrary expansions.

There seem to be two workarounds:

- Reversing the order of #include statements such that QT-related headers are last
- Defining QT_NO_KEYWORDS

#2 - 07/14/2011 06:58 PM - J. Moringen

- *Status changed from Resolved to Feedback*

#3 - 07/15/2011 02:11 PM - M. Rolf

Reversing include-order works.

However, Qt is quite widely used, so it would be nice to avoid names like signal/slot/emit in RSB.

#4 - 09/08/2011 11:32 AM - J. Wienke

- *Status changed from Feedback to In Progress*

- *Assignee set to J. Wienke*

- *Target version set to 0.4*

#5 - 09/08/2011 12:05 PM - J. Wienke

- *Status changed from In Progress to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset r2551.