

## Robotics Service Bus - Bug #2487

### [rsb-cpp] No error message when desired plugins are not installed

02/12/2016 04:06 PM - C. Emmerich

<b>Status:</b>	Resolved	<b>Start date:</b>	02/12/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Wienke	<b>% Done:</b>	100%
<b>Category:</b>	C++	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	rsb-0.13		
<b>Description</b>			
I just figured out that, if the rsb-config wants to load plugins which are not installed, there is no warning or error message from the rsb system. Is this desired? Could you please change that?			
<b>Related issues:</b>			
Blocked by Robotics Systems Commons - Tasks # 2488: Plugin configurator shoul...		<b>Resolved</b>	<b>02/15/2016</b>

#### Associated revisions

##### Revision c19edcb4 - 02/15/2016 09:54 AM - J. Wienke

Use new plugin configurator API from RSC

Call the required execute method in Factory for the plugin configurator.

This will now raise an exception in case a requested plugin cannot be found.

fixes #2487

##### Revision edb27829 - 02/15/2016 10:00 AM - J. Wienke

News: entry for plugin loading exceptions

refs #2487

##### Revision a2b0dfa4 - 04/12/2016 08:40 PM - J. Moringen

Reset factoryWhileLoadingPlugins in src/rsb/Factory.cpp

fixes #2528, refs #2487

The Factory constructor could be unwound by an exception thrown by the plugin system, leaving factoryWhileLoadingPlugins pointing to a half-initialized Factory object. To prevent this, reset factoryWhileLoadingPlugins to NULL in case an exception is thrown by the plugin system, then re-throw.

Unfortunately, I cannot come up with a reasonable test for this. The error would be easy to trigger by doing

```
setenv("RSB_PLUGINS_CPP_LOAD", "foo", 1);
```

```
try { Factory f; } catch (...) {};  
Factory f => segmentation fault
```

but that would require making the Factory constructor public or some  
equally ugly friend hackery. **sigh**

- src/rsb/Factory.cpp (header): updated copyright  
(Factory::Factory): reset factoryWhileLoadingPlugins in case an  
exception is thrown

## History

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### #1 - 02/12/2016 04:24 PM - J. Wienke

- *Category set to C++*
- *Target version set to rsb-0.13*

### #2 - 02/12/2016 04:30 PM - J. Wienke

Seems to be right. This requires changes in the RSC plugin manager, which doesn't seem to expose this kind of error so far.

### #3 - 02/12/2016 05:04 PM - J. Wienke

- *Status changed from New to In Progress*
- *Assignee set to J. Wienke*

The configurator, not the manager swallows this exception.

### #4 - 02/12/2016 05:37 PM - J. Wienke

- *% Done changed from 0 to 50*

I have a working solution for that but it requires an API change in RSC. Will have to review that on Monday with Jan.

### #5 - 02/15/2016 09:45 AM - J. Wienke

- *Blocked by Tasks #2488: Plugin configurator should be able to report missing plugins added*

### #6 - 02/15/2016 10:00 AM - J. Wienke

- *Status changed from In Progress to Resolved*
- *% Done changed from 50 to 100*

Applied in changeset commit:rsb-cpp|c19edcb46e4d1809c1500ba6c2a53f6b2ff53b2c.