

Robotics Systems Commons - Bug #784

Parsing of config files depends on OS-specific line ends

01/04/2012 03:41 PM - Anonymous

Status:	Resolved	Start date:	01/04/2012
Priority:	Normal	Due date:	
Assignee:	J. Wienke	% Done:	80%
Category:	Configuration	Estimated time:	0.00 hour
Target version:	0.6		
Description I set up rsb on Linux as well as Windoze (in that order) and once the rsb_informer/rsb_listener example worked, went on and just copied the Lunix-style rsb.conf file over to Windoze. However, it seems the configuration file is not parsed at all with "unexpected" line ends and indeed no error message is provided. IMHO this should be changed to be OS-independent or - lacking the former - at least point out an invalid configuration file to the user.			
Related issues: Blocks Robotics Service Bus - Bug # 785: Parsing of rsb.conf depends on OS-sp... <div>Resolved01/04/2012</div>			

Associated revisions

Revision d0d64f7b - 01/04/2012 06:32 PM - J. Wienke

- let the ConfigFileSource test compile again on windows
 - use multiple line end formats for the test
- refs #784

History

#1 - 01/04/2012 04:07 PM - J. Wienke

- Project changed from Robotics Service Bus to Robotics Systems Commons
- Category deleted (Configuration)
- Assignee set to J. Wienke

This parsing is part of RSC. Move to that project.

#2 - 01/04/2012 04:07 PM - J. Wienke

- Category set to Configuration
- Target version set to 0.6

#3 - 01/04/2012 04:08 PM - J. Wienke

- Subject changed from Parsing of rsb.conf depends on OS-specific line ends to Parsing of config files depends on OS-specific line ends
- Description updated

#4 - 01/04/2012 04:12 PM - J. Wienke

- Status changed from New to In Progress

#5 - 01/04/2012 04:13 PM - J. Wienke

Jan, I've noticed that we are not executing the ConfigFileSource test on Windows at all. Can you remember what the reason was?

Ok, there was a compilation problem. I have narrowed it down to the fact that compilation fails as soon as the test file contains a definition of

```
map<string, any>
```

Errors are:

LINK : ..\build\src\test.exe wurde nicht gefunden oder beim letzten inkrementellen Linkvorgang nicht erstellt; vollständiger Link wird durchgeführt.

rsc.lib(rsc.dll) : error LNK2005: "public: static struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const

,class boost::any> & __cdecl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,cla

ss boost::any,struct std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<c

lass std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Myval(struct std::_Tree_nod<class std::

_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<c

har,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char

>,class std::allocator<char> > const ,class boost::any> >,0> >::_Node *)"

(? _Myval@?\$ _Tree_val@V?\$ _Tmap_traits@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator

or@D@2@@@std@@@Vany@boost@@@U?\$less@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@2@V?\$allocator@U?\$pair@\$\$CBV?\$basic_string@DU?\$char_traits@D@std

@@V?\$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@\$0A@@@std@@@std@@SAAAU?\$pair@\$\$CBV?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@2@PAU_N

ode@?\$ _Tree_nod@V?\$ _Tmap_traits@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@U?\$less@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allo

cator@D@2@@@std@@@2@V?\$allocator@U?\$pair@\$\$CBV?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@Vany@boost@@@std@@@2@\$0A@@@std@@@2@@@Z) ist bereits in C

onfigFileSourceTest.cpp.obj definiert.

rsc.lib(rsc.dll) : error LNK2005: "public: static char & __cdecl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<cha

r>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,clas

s std::allocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Isni

l(struct std::_Tree_nod<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct

std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_strin

g<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Node *)"

(? _Isnil@?\$ _Tree_val@V?\$ _Tmap_traits@V?\$basic_strin

g@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@U?\$less@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@2@V?\$allocator@U?\$pair@\$\$CBV?

\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@\$0A@@@std@@@std@@SAAADPAU_NodeADPAU_Node@?\$ _Tree_nod@V?\$ _Tmap_traits@V?\$basic_string@DU?\$c

har_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@U?\$less@V?\$basic_string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@2@V?\$allocator@U?\$pair@\$\$CBV?\$basic_

string@DU?\$char_traits@D@std@@V?\$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@\$0A@@@std@@@2@@@Z) ist bereits in

ConfigFileSourceTest.cpp.obj definiert.

```
rsc.lib(rsc.dll) : error LNK2005: "public: static struct std::_Tree_nod<class std::_Tmap_traits<class std::basic_string<char,struct
std::char_traits<char>,class
std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >
>,class std::a
llocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0>
>::_Node * & __c
decl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class
boost::any,struct std:
less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class
std::basic_string<ch
ar,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Parent(struct std::_Tree_nod<class
std::_Tmap_traits<class std:
basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct
std::char_tra
its<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class
std::allocator<c
har> > const ,class boost::any> >,0> >::_Node *)"
(?_Parent@?$_Tree_val@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@boost
@@U?$les@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?
string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std
@@Vany@boost@@@std@@@2@$0A@@@std@@@std@@SAAPAU_Node@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@
$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@boost@@U?$les
s@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$char_traits
?$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@b
oost@@@std@@@2@$0A@@@std@@@2@PAU342@@@Z) ist bereits in ConfigFileSourceTest.cpp.obj definiert.
rsc.lib(rsc.dll) : error LNK2005: "public: static struct std::_Tree_nod<class std::_Tmap_traits<class std::basic_string<char,struct
std::char_traits<char>,class
std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >
>,class std::a
llocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0>
>::_Node * __cde
cl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class
boost::any,struct std:l
ess<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class
std::basic_string<char
,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Min(struct std::_Tree_nod<class
std::_Tmap_traits<class std::basic
_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct
std::char_traits<c
har>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class
std::allocator<char>
> const ,class boost::any> >,0> >::_Node *)"
(?_Min@?$_Tree_val@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@boost@@U?$les
U?$les
s@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$char_traits
?$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@b
oost@@@std@@@2@$0A@@@std@@@std@@SAPAU_Node@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$
std@@V?$allocator@D@2@@@std@@Vany@boost@@U?$les@V?$basic
_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$char_traits@D@std@@
@D@std@@V?$allocator@D@2@@@std@@Vany@boost@@@std
@@@2@$0A@@@std@@@2@PAU342@@@Z) ist bereits in ConfigFileSourceTest.cpp.obj definiert.
rsc.lib(rsc.dll) : error LNK2005: "public: static struct std::_Tree_nod<class std::_Tmap_traits<class std::basic_string<char,struct
```

```

std::char_traits<char>,class
std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >
>,class std::a
llocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0>
>::_Node * & __c
decl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class
boost::any,struct std:
:less<class std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class
std::basic_string<ch
ar,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Right(struct std::_Tree_nod<class
std::_Tmap_traits<class std::b
asic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct
std::char_trai
ts<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct std::char_traits<char>,class
std::allocator<ch
ar> > const ,class boost::any> >,0> >::_Node *)"
(?_Right@?$_Tree_val@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@
U?$less@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$CBV?$basic_string@DU?$cha
g@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@
Vany@boost@@@std@@@2@$0A@@@std@@@std@@@SAAAPAU_Node@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@
r_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@U?$less@
V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$CBV?$basic_string@DU?$char_traits@D
har_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boo
st@@@std@@@2@$0A@@@std@@@2@PAU342@@@Z) ist bereits in ConfigFileSourceTest.cpp.obj definiert.
..\build\rscstest.exe : fatal error LNK1169: Mindestens ein mehrfach definiertes Symbol gefunden.
LINK failed. with 2
NMAKE : fatal error U1077: ""C:\Program Files\CMake 2.8\bin\cmake.exe"": Rückgabe-Code "0xffffffff"
Stop.
NMAKE : fatal error U1077: ""C:\Program Files\Microsoft Visual Studio 10.0\VC\BIN\nmake.exe"": Rückgabe-Code "0x2"
Stop.
NMAKE : fatal error U1077: ""C:\Program Files\Microsoft Visual Studio 10.0\VC\BIN\nmake.exe"": Rückgabe-Code "0x2"
Stop.

```

As soon as one minor thing with the map is changed every problem is gone. E.g. if string is exchanged with int or event making it a map<any, string> everything works again.

#7 - 01/04/2012 05:08 PM - J. Wienke

The only other definition of map<string, any> is Properties. But I could not find any of the conflicting functions in there.

#8 - 01/04/2012 05:57 PM - J. Wienke

Further observation by using /VERBOSE linker flag:

```

"__declspec(dllimport) public: static char & __cdecl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Isnil(struct std::_Tree_nod<class std::_Tmap_traits<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class

```

```
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Node *)"
(__imp_?_Isnil@?$_Tree_val@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@U?$less@
ost@@@U?$less@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@D
sic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@$0A@@@std@@@std@@SAAADPAU_Node@
AU_Node@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@U?$less@
@U?$less@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$c
ring@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@$0A@@@std@@@2@@@Z) gefunden.
```

In "PropertiesTest.cpp.obj" referenziert

"rsc.lib(rsc.dll)" geladen

```
rsc.lib(rsc.dll) : error LNK2005: "public: static char & __cdecl std::_Tree_val<class std::_Tmap_traits<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class std::basic_string<char,struct
std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Isnil(struct std::_Tree_nod<class std::_Tmap_traits<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> >,class boost::any,struct std::less<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > >,class std::allocator<struct std::pair<class
std::basic_string<char,struct std::char_traits<char>,class std::allocator<char> > const ,class boost::any> >,0> >::_Node *)"
(?_Isnil@?$_Tree_val@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@U?$less@V?
U?$less@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$cha
g@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@$0A@@@std@@@std@@SAAADPAU_Node@?$_Tree
de@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@U?$less@V?$ba
less@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$CBV?$basic_string@DU?$char_tr
DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@Vany@boost@@@std@@@2@$0A@@@std@@@2@@@Z) ist bereits in
ConfigFileSourceTest.cpp.obj definiert.
```

As visible, all Failures originate from PropertiesTest, not the config parser test.

#9 - 01/04/2012 06:57 PM - J. Wienke

- Status changed from In Progress to Resolved
- % Done changed from 0 to 80

I have implemented a workaround by using Properties instead of the map. Also I have added a smoke test with unix and windows line endings. No error could be found with these. So the problems must be caused by something different.

Robert, can you please watch bug #785 for further discussion.