

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			
<p>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.</p> <p>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.</p>			
Related issues:			
Blocks Robotics Service Bus - Bug # 785: Parsing of rsb.conf depends on OS-sp...		Resolved	01/04/2012

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\srcstest.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?\$allocat

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?\$loc

ator@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@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?\$b

\$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

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_Node

ADPAU_Node@?\$_Tree_nod@V?\$_Tmap_traits@V?\$basic_string@DU?\$c

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@$$CBV?$basic_string@DU?
string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std
@@Vany@boost@@@std@@@2@$0A@@std@@@std@@SAAAPAU_Node@?$_Tree_nod@V?$_Tmap_traits@V?$basic_string@DU?$char_traits@
$char_traits@D@std@@V?$allocator@D@2@@@std@@Vany@boost@@U?$les
s@V?$basic_string@DU?$char_traits@D@std@@V?$allocator@D@2@@@std@@@2@V?$allocator@U?$pair@$$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
locator<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\srcstest.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@V?
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.