

Wt - Bug #5517

Wt4 DboTest.C compile error with clang3.8 libc++ boost1.62

01/24/2017 07:38 AM - Bruce Toll

Status:	Closed	Start date:	01/24/2017
Priority:	Normal	Due date:	
Assignee:	André Jacobs	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Description			
With preview version of Wt4, github 3.3.6-22-gb3a1dd7b, clang 3.8.1 x86_64, using libc and boost1.62 under Debian stretch/testing produces this error on DboTest.C:			
<pre>In file included from test/dbo/DboTest.C:15: In file included from src/Wt/Dbo/QueryModel.h:7: In file included from src/Wt/Dbo/QueryModel:10: In file included from src/Wt/WAbstractTableModel.h:7: In file included from src/Wt/WAbstractTableModel:10: In file included from src/Wt/WAbstractItemModel.h:7: In file included from src/Wt/WAbstractItemModel:12: In file included from src/Wt/WSignal.h:7: In file included from src/Wt/WSignal:13: src/Wt/Signals/signals.hpp:418:25: error: no viable conversion from 'const std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>, std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > >>' to 'const CbFunction' (aka 'const function<void (Wt::WModelIndex, Wt::WModelIndex)>') return signal.connect(function, target); ^~~~~~ src/Wt/WSignal:639:25: note: in instantiation of function template specialization 'Wt::Signals::Impl::connectFunction<std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>, std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > >>, Wt::WModelIndex, Wt::WModelIndex>' requested here return Signals::Impl::connectFunction<F, A...>(impl_, function, nullptr); ^ test/dbo/DboTest.C:2430:26: note: in instantiation of function template specialization 'Wt::Signal<Wt::WModelIndex, Wt::WModelIndex>::connect<std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>, std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > >>>' requested here model->dataChanged().connect ^ /usr/include/c++/v1/functional:1448:5: note: candidate constructor not viable: no known conversion from 'const std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>, std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > >>' to 'nullptr_t' for 1st argument function(nullptr_t) _NOEXCEPT : __f_(0) {} ^ /usr/include/c++/v1/functional:1449:5: note: candidate constructor not viable: no known conversion from 'const std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>, std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > >>' to 'const std::__1::function<void (Wt::WModelIndex, Wt::WModelIndex)> &' for 1st argument function(const function&); ^ /usr/include/c++/v1/functional:1450:5: note: candidate constructor not viable: no known conversion from 'const std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>,</pre>			

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std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > > >' to 'std::__1::function<void (Wt::WModelIndex, Wt::WModelIndex)> &&' for
1st argument
    function(function&&) _NOEXCEPT;
    ^
/usr/include/c++/v1/functional:1454:41: note: candidate template ignored: disabled by 'enable_if'
[with _Fp = std::__1::__bind_r<bool, std::__1::reference_wrapper<(anonymous namespace)::CheckExpected>,
    std::__1::reference_wrapper<std::__1::basic_string<char, std::__1::char_traits<char>, std::__1::allocator<char> > > >]
                                     __callable<_Fp>::value &&
                                     ^
src/Wt/Signals/signals.hpp:199:40: note: passing argument to parameter 'cb' here
    Connection connect(const CbFunction &cb,
```

Attached is a patch that eliminates the compiler error. It was lightly tested with "test.postgres -t dbo_test26" but could benefit from additional review.

History

#1 - 02/17/2017 04:41 PM - André Jacobs

- Assignee set to André Jacobs

#2 - 02/17/2017 04:58 PM - André Jacobs

- Status changed from New to Implemented @Emweb

#3 - 02/24/2017 12:27 PM - Roel Standaert

- Status changed from Implemented @Emweb to Resolved

#4 - 09/20/2017 04:53 PM - Roel Standaert

- Status changed from Resolved to Closed

Files

0001-Address-DboTest.C-clang-3.8-compiler-error.patch	830 Bytes	01/24/2017	Bruce Toll
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