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Subject: [FIXED] Compilation Problem PndLmdDataFacade.cxx on SLC 5.10 (Boron)

Posted by [MartinJGaluska](#) on Tue, 01 Jul 2014 18:11:44 GMT

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Dear all,

I get a compilation error for the latest trunk on our local cluster using externals apr13. Here is the relevant part, below you find more details.

```
/home/panda/pandaroot_jul14/trunk/lmd/LmdFit/LumImpl/data/PndLmdDataFacade.cxx: In member function 'void PndLmdDataFacade::addFileList(std::string)':
/home/panda/pandaroot_jul14/trunk/lmd/LmdFit/LumImpl/data/PndLmdDataFacade.cxx:58: error: no matching function for call to 'std::basic_ifstream<char, std::char_traits<char> >::basic_ifstream(std::string&)'
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/fstream:442: note: candidates are: std::basic_ifstream<_CharT, _Traits>::basic_ifstream(const char*, std::_ios_Openmode) [with _CharT = char, _Traits = std::char_traits<char>]
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/fstream:428: note: std::basic_ifstream<_CharT, _Traits>::basic_ifstream() [with _CharT = char, _Traits = std::char_traits<char>]
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/iosfwd:89: note: std::basic_ifstream<char, std::char_traits<char> >::basic_ifstream(const std::basic_ifstream<char, std::char_traits<char> >&)
```

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[ 94%] Building CXX object

lmd/CMakeFiles/LmdFit.dir/lmd/LmdFit/LumImpl/data/PndLmdDataFacade.cxx.o

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp: In constructor 'boost::property_tree::string_path<String, Translator>::string_path(typename String::value_type)':
```

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp:165: warning: declaration of 'separator' shadows a member of 'this'
```

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp: In constructor 'boost::property_tree::string_path<String, Translator>::string_path(const String&, typename String::value_type, Translator)':
```

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp:172: warning: declaration of 'separator' shadows a member of 'this'
```

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp: In constructor 'boost::property_tree::string_path<String, Translator>::string_path(const typename String::value_type*, typename String::value_type, Translator)':
```

```
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp:180: warning: declaration of 'separator' shadows a member of 'this'
```

```
/home/panda/fairsoft/apr13build/include/boost/multi_index/detail/index_m atcher.hpp: In member function 'void
```

```
boost::multi_index::detail::index_m atcher::algorithm_base<Allocator>::add_node_to_algorithm(void*) const':
```

```
/home/panda/fairsoft/apr13build/include/boost/multi_index/detail/index_m atcher.hpp:135: warning: declaration of 'n' shadows a member of 'this'
```

```
/home/panda/fairsoft/apr13build/include/boost/multi_index/detail/index_m atcher.hpp: In
```

member function 'void  
boost::multi\_index::detail::index\_matcher::algorithm\_base<Allocator>::finish\_algorithm() const':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/detail/index\_matcher.hpp:167:  
warning: declaration of 'n' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: In member function  
'typename boost::multi\_index::multi\_index\_container<Value, IndexSpecifierList,  
Allocator>::nth\_index\_iterator<N>::type boost::multi\_index::multi\_index\_container<Value,  
IndexSpecifierList, Allocator>::project(IteratorType)':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: 363: warning:  
declaration of 'index' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: In member function  
'typename boost::multi\_index::multi\_index\_container<Value, IndexSpecifierList,  
Allocator>::nth\_index\_const\_iterator<N>::type  
boost::multi\_index::multi\_index\_container<Value, IndexSpecifierList,  
Allocator>::project(IteratorType) const':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: 382: warning:  
declaration of 'index' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: In member function  
'typename boost::multi\_index::multi\_index\_container<Value, IndexSpecifierList,  
Allocator>::index\_iterator<Tag>::type boost::multi\_index::multi\_index\_container<Value,  
IndexSpecifierList, Allocator>::project(IteratorType)':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: 417: warning:  
declaration of 'index' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: In member function  
'typename boost::multi\_index::multi\_index\_container<Value, IndexSpecifierList,  
Allocator>::index\_const\_iterator<Tag>::type boost::multi\_index::multi\_index\_container<Value,  
IndexSpecifierList, Allocator>::project(IteratorType) const':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index\_container.hpp: 435: warning:  
declaration of 'index' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/sequenced\_index.hpp: In member  
function 'bool boost::multi\_index::detail::sequenced\_index<SuperMeta,  
TagList>::modify(boost::multi\_index::detail::bidir\_node\_iterator<boost::multi\_index::detail::sequenced\_index\_node  
<typename SuperMeta::type::node\_type> >, Modifier, Rollback)':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/sequenced\_index.hpp:351:  
warning: declaration of 'back' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/ordered\_index.hpp: In member  
function  
'boost::multi\_index::detail::bidir\_node\_iterator<boost::multi\_index::detail::ordered\_index\_node  
<typename SuperMeta::type::node\_type> >  
boost::multi\_index::detail::ordered\_index<KeyFromValue, Compare, SuperMeta, TagList,  
Category>::find(const CompatibleKey&, const CompatibleCompare&) const':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/ordered\_index.hpp:442: warning:  
declaration of 'comp' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/ordered\_index.hpp: In member  
function 'size\_t boost::multi\_index::detail::ordered\_index<KeyFromValue, Compare,  
SuperMeta, TagList, Category>::count(const CompatibleKey&, const CompatibleCompare&)  
const':  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/ordered\_index.hpp:454: warning:  
declaration of 'comp' shadows a member of 'this'  
/home/panda/fairsoft/apr13build/include/boost/multi\_index/ordered\_index.hpp: In member  
function  
'boost::multi\_index::detail::bidir\_node\_iterator<boost::multi\_index::detail::ordered\_index\_node

```

<typename SuperMeta::type::node_type> >
boost::multi_index::detail::ordered_index<KeyFromValue, Compare, SuperMeta, TagList,
Category>::lower_bound(const CompatibleKey&, const CompatibleCompare&) const':
/home/panda/fairsoft/apr13build/include/boost/multi_index/ordered_index. hpp:470: warning:
declaration of 'comp' shadows a member of 'this'
/home/panda/fairsoft/apr13build/include/boost/multi_index/ordered_index. hpp: In member
function
'boost::multi_index::detail::bidir_node_iterator<boost::multi_index::detail::ordered_index_node
<typename SuperMeta::type::node_type> >
boost::multi_index::detail::ordered_index<KeyFromValue, Compare, SuperMeta, TagList,
Category>::upper_bound(const CompatibleKey&, const CompatibleCompare&) const':
/home/panda/fairsoft/apr13build/include/boost/multi_index/ordered_index. hpp:485: warning:
declaration of 'comp' shadows a member of 'this'
/home/panda/fairsoft/apr13build/include/boost/multi_index/ordered_index. hpp: In member
function
'std::pair<boost::multi_index::detail::bidir_node_iterator<boost::multi_index::detail::ordered_ind
ex_node <typename SuperMeta::type::node_type> >,
boost::multi_index::detail::bidir_node_iterator<boost::multi_index::detail::ordered_index_node
<typename SuperMeta::type::node_type> > >
boost::multi_index::detail::ordered_index<KeyFromValue, Compare, SuperMeta, TagList,
Category>::equal_range(const CompatibleKey&, const CompatibleCompare&) const':
/home/panda/fairsoft/apr13build/include/boost/multi_index/ordered_index. hpp:503: warning:
declaration of 'comp' shadows a member of 'this'
/home/panda/fairsoft/apr13build/include/boost/property_tree/ini_parser.h pp: In constructor
'boost::property_tree::ini_parser::ini_parser_error::ini_parser_error(const std::string&, const
std::string&, long unsigned int)':
/home/panda/fairsoft/apr13build/include/boost/property_tree/ini_parser.h pp:51: warning:
declaration of 'line' shadows a member of 'this'
/home/panda/fairsoft/apr13build/include/boost/property_tree/ini_parser.h pp:51: warning:
declaration of 'filename' shadows a member of 'this'
/home/panda/fairsoft/apr13build/include/boost/property_tree/ini_parser.h pp:51: warning:
declaration of 'message' shadows a member of 'this'
/home/panda/pandaroot_jul14/trunk/lmd/LmdFit/LumilImpl/data/PndLmdDataFacade.cxx: In
member function 'void PndLmdDataFacade::addFileList(std::string)':
/home/panda/pandaroot_jul14/trunk/lmd/LmdFit/LumilImpl/data/PndLmdDataFacade.cxx:58:
error: no matching function for call to 'std::basic_ifstream<char, std::char_traits<char>
>::basic_ifstream(std::string&)'
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/fstream:442: note: candidates
are: std::basic_ifstream<_CharT, _Traits>::basic_ifstream(const char*, std::_ios_Openmode)
[with _CharT = char, _Traits = std::char_traits<char>]
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/fstream:428: note:
std::basic_ifstream<_CharT, _Traits>::basic_ifstream() [with _CharT = char, _Traits =
std::char_traits<char>]
/usr/lib/gcc/x86_64-redhat-linux/4.1.2/../../../../include/c++/4.1.2/ios_fwd:89: note:
std::basic_ifstream<char, std::char_traits<char> >::basic_ifstream(const
std::basic_ifstream<char, std::char_traits<char> >&)
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path. hpp: In constructor
'boost::property_tree::string_path<String, Translator>::string_path(const typename
String::value_type*, typename String::value_type, Translator) [with String =
std::basic_string<char, std::char_traits<char>, std::allocator<char> >, Translator =
boost::property_tree::id_translator<std::basic_string<char, std::char_traits<char>,
std::allocator<char> > >]':

```

```
/home/panda/pandaroot_jul14/trunk/lmd/LmdFit/LumImpl/data/PndLmdDataFacade.cxx:310:
instantiated from here
/home/panda/fairsoft/apr13build/include/boost/property_tree/string_path.hpp:180: warning:
declaration of 'separator' shadows a member of 'this'
make[2]: *** [lmd/CMakeFiles/LmdFit.dir/lmd/LmdFit/LumImpl/data/PndLmdDataFacade.cxx.o]
Error 1
make[1]: *** [lmd/CMakeFiles/LmdFit.dir/all] Error 2
make: *** [all] Error 2
```

I assume the reason is an old version of gcc. Is there any work-around? Can I safely comment out some part of PandaRoot to get the latest trunk to compile and run some simulations on our cluster?

Or do I have to update gcc (or possibly the whole system)? (This is probably not even possible as the machines are also used for other purposes...)

Here some more info about the operating system:

```
$ uname -srv
Linux 2.6.18-371.4.1.el5 #1 SMP Thu Jan 30 13:11:18 CET 2014
$ cat /etc/*-release*
Scientific Linux CERN SLC release 5.10 (Boron)
```

Kind regards,  
Martin

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Subject: Re: Compilation Problem PndLmdDataFacade.cxx on SLC 5.10 (Boron)  
Posted by [Stefano Spataro](#) on Tue, 01 Jul 2014 20:48:29 GMT  
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I would suggest to comment out lmd from the global cmakelist.

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Subject: Re: Compilation Problem PndLmdDataFacade.cxx on SLC 5.10 (Boron)  
Posted by [Stefan Pflueger](#) on Wed, 02 Jul 2014 11:59:20 GMT  
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Hi Martin,

you must have an older compiler that does not support c++11, in which the constructor does not accepted a std::string as an argument. I fixed it in the current trunk. Sry that I missed that.

Best regards,

Stefan

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Subject: Re: Compilation Problem PndLmdDataFacade.cxx on SLC 5.10 (Boron)

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Posted by [MartinJGaluska](#) on Wed, 02 Jul 2014 17:17:30 GMT

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Hello Stefan,

thank you very much for the fix!

Stefano's suggestion of uncommenting worked also, but it feels better not to leave out any part of the code.

Kind regards,  
Martin

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