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Subject: Bug in Tpc (rev. 1070)

Posted by [Ralf Kliemt](#) on Wed, 04 Jul 2007 06:23:25 GMT

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Bug in rev. 1070:

```
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcSpaceChargeTask.o
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSpaceChargeTask.cxx: In member function 'virtual
void TpcSpaceChargeTask::Exec(const Option_t*)':
/home/ralfk/Pandaroot/pandaroot/tpc/TpcSpaceChargeTask.cxx:127: warning: converting to
'int' from 'double'
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcAbsField.o
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcFieldCylGrid.o
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 'virtual void
TpcFieldCylGrid<type>::print(std::ostream&) const':
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:87: error: there are no arguments to
'nominal' that depend on a template parameter, so a declaration of 'nominal'
must be available
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:87: error: (if you use
'-fpermissive', G++ will accept your code, but allowing the use of an undeclared name is
deprecated)
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:88: error: there are no arguments to
'scale' that depend on a template parameter, so a declaration of 'scale' must be
available
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 'virtual bool
TpcFieldCylGrid<type>::pointOk(const TVector3&) const':
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:119: error: '_relPosition' was
not declared in this scope
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 'type
TpcFieldCylGrid<type>::evalValue(const TVector3&) const':
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:177: error: there are no arguments
to 'nominal' that depend on a template parameter, so a declaration of 'nominal'
must be available
/home/ralfk/Pandaroot/pandaroot/tpc/TpcFieldCylGrid.cxx:180: error: '_relPosition' was
not declared in this scope
make[2]: *** [tpc/CMakeFiles/tpc.dir/TpcFieldCylGrid.o] Error 1
make[1]: *** [tpc/CMakeFiles/tpc.dir/all] Error 2
make: *** [all] Error 2
```

I'm aware that the Tpc package is under a heavy development. It's just to give you guys a report.

Greetings from Dubna,

Ralf.

Edit:

Now I see it's an issue of different compilers & flags.

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Johan Messchendorp](#) on Wed, 04 Jul 2007 06:54:59 GMT

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same problem at KVI machines....

Johan.

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Stefano Spataro](#) on Wed, 04 Jul 2007 07:14:38 GMT

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No problem at GSI,  
so I suppose it depends on gcc 3.4 and up...

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Sebastian Neubert](#) on Wed, 04 Jul 2007 14:29:10 GMT

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Hi!

Felix will look into this.

Sebastian.

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Felix Boehmer](#) on Wed, 04 Jul 2007 15:20:43 GMT

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Hi,

sorry for the inconvenience. I have made some minor changes to the field classes, but I have to say that one of the errors is a bit of a mystery to me. I have no possibility to test if it is "fixed" now, since there have never been any errors or warnings with my gcc version. Please give me feedback.

Thanks

Felix

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Stefano Spataro](#) on Wed, 04 Jul 2007 15:38:00 GMT

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Hi,  
here you are some feedback

Compilation in Gießen:

```
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcSpaceChargeTask.o
/home/spataro/pandaroot/tpc/TpcSpaceChargeTask.cxx: In member function 'virtual void
TpcSpaceChargeTask::Exec(const Option_t*)':
/home/spataro/pandaroot/tpc/TpcSpaceChargeTask.cxx:127: warning: converting to 'int' from
'double'
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcAbsField.o
[ 52%] Building CXX object tpc/CMakeFiles/tpc.dir/TpcFieldCylGrid.o
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx: In constructor
'TpcFieldCylGrid<t>::TpcFieldCylGrid(const t&, double, double, double, double, const
TVector3&, std::vector<std::vector<t*, std::allocator<t*> >*, std::allocator<std::vector<t*,
std::allocator<t*> >*> >*)':
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:40: error: '_relPosition' was not declared in
this scope
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 'virtual void
TpcFieldCylGrid<t>::print(std::ostream&) const':
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:88: error: there are no arguments to
'nominal' that depend on a template parameter, so a declaration of 'nominal' must be available
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:88: error: (if you use '-fpermissive', G++ will
accept your code, but allowing the use of an undeclared name is deprecated)
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:89: error: there are no arguments to 'scale'
that depend on a template parameter, so a declaration of 'scale' must be available
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 'virtual bool
TpcFieldCylGrid<t>::pointOk(const TVector3&) const':
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:120: error: '_relPosition' was not declared in
this scope
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx: In member function 't
TpcFieldCylGrid<t>::evalValue(const TVector3&) const':
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:178: error: there are no arguments to
'nominal' that depend on a template parameter, so a declaration of 'nominal' must be available
/home/spataro/pandaroot/tpc/TpcFieldCylGrid.cxx:181: error: '_relPosition' was not declared in
this scope
make[2]: *** [tpc/CMakeFiles/tpc.dir/TpcFieldCylGrid.o] Error 1
make[1]: *** [tpc/CMakeFiles/tpc.dir/all] Error 2
```

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Subject: Re: Bug in Tpc (rev. 1070)  
Posted by [Felix Boehmer](#) on Wed, 04 Jul 2007 19:30:44 GMT  
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Hi again,

I have looked into it and modified the classes again. The now compile flawlessly on the university machines with older gcc and on my home computer with gcc 4.1.2.

Please try the updated versions I have just submitted and inform me if there are any problems

remaining.

Sorry for the trouble!

Felix

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Stefano Spataro](#) on Thu, 05 Jul 2007 05:24:54 GMT

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Hi.

I downloaded the new code and it compiles both at GSI and in Gießen, so I suppose now it is OK (or at least for the machines I use).

Thanks

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Subject: Re: Bug in Tpc (rev. 1070)

Posted by [Ralf Kliemt](#) on Fri, 06 Jul 2007 06:53:29 GMT

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Hi Felix,

Now the tpc compiles without errors on suse 10.2.

Ciao, Ralf.

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