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Subject: TPC error during compilation

Posted by [Yuri Naryshkin](#) on Tue, 26 Aug 2008 12:38:17 GMT

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Dear Colleagues,

I try to install pandaroot in my derectory at GSI computer.

I take the stable version from:

svn co <https://subversion.gsi.de/fairroot/pandaroot>

and proceed exactly as it is described on the web:

<http://panda-wiki.gsi.de/cgi-bin/view/Computing/PandaRootInstallCmake>

Everything works good untill tpc code compilation.

Could you please tell me what could be wrong with the installation?

```
[ 20%] Built target DpmEvtGen
```

```
[ 21%] Built target DpmEvtGen_exe
```

```
[ 25%] Built target Stt
```

```
[ 36%] Built target tpc
```

```
[ 36%] Building CXX object
```

```
tpc/tpcreco/CMakeFiles/tpcreco.dir/PndTpcConfMapRecoHit.o
```

```
In file included from
```

```
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/tpc/tpcreco/PndTpcConfMa pRec  
oHit.cxx:28:
```

```
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/tpc/tpcreco/PndTpcConfMa pFit  
.h:57:
```

```
error: conflicting
```

```
return type specified for `virtual void
```

```
PndTpcConfMapFit::extrapolate(const
```

```
DetPlane&, TMatrixT<double>&)'
```

```
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/genfit/AbsTrackRep.h:72:
```

```
error:
```

```
overriding `virtual double AbsTrackRep::extrapolate(const DetPlane&,  
....
```

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Subject: Re: TPC error during compilation

Posted by [Stefano Spataro](#) on Tue, 26 Aug 2008 12:41:20 GMT

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Try to remove the directory build/tpc, and then again follow the procedure doing cmake and make install.

I suppose you are using the pandaroot/trunk version, aren't you?

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Subject: Re: TPC error during compilation

Posted by [Yuri Naryshkin](#) on Tue, 26 Aug 2008 12:48:49 GMT

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Thank you Stefano! I'll tryed stable and trunc versions with the same result. Now I deleted tpc and repeat the procedure again. The result is:

.....  
-- Looking for Perl... - found /usr/local/bin/perl  
-- Looking for Rule Checker...  
HIER  
-- Looking for Rule Checker... - Not found  
CMake Error: Error in cmake code at  
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/CMakeLists.txt:104:  
ADD\_SUBDIRECTORY given source "tpc" which is not an existing directory.  
Current CMake stack:  
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/CMakeLists.txt;/usr/share/cmake-2.4/Modules/CMakeCInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeCXXInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeFortranInformation.cmake  
CMake Error: Error in cmake code at  
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/CMakeLists.txt:105:  
ADD\_SUBDIRECTORY given source "tpc/tpcreco" which is not an existing directory.  
Current CMake stack:  
/u/naryshk/fairroot/cbmsoft/pandaroot/pandaroot/CMakeLists.txt;/usr/share/cmake-2.4/Modules/CMakeCInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeCXXInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeFortranInformation.cmake  
-- Configuring done

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Subject: Re: TPC error during compilation  
Posted by [Stefano Spataro](#) on Tue, 26 Aug 2008 12:51:24 GMT  
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You have deleted pandaroot/tpc, not the tpc directory in your build.

Do a "svn update" inside your pandaroot directory, then go in your build and again "cmake ../pandaroot", "make install", and let me know.

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Subject: Re: TPC error during compilation  
Posted by [Yuri Naryshkin](#) on Tue, 26 Aug 2008 14:05:03 GMT  
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Dear Stefano,  
I repeat the procedure of installation again with the modification you tell me. May be I do something wrong:  
In my home dir I run:  
svn co https://subversion.gsi.de/fairroot/pandaroot  
cd pandaroot

I have following dir:

development  
release  
stable

trunc

then I do following:

```
mv stable pandaroot
cd pandaroot
rm -rf tpc
svn update
cd ..
mkdir build
cd build
cmake ../pandaroot
. config.sh
make install
```

And I got following output:

```
....
[ 35%] Building CXX object tpc/CMakeFiles/tpc.dir/spacecharge/SplineTF2Interface.o
[ 35%] Building CXX object tpc/CMakeFiles/tpc.dir/QAPlotCollection.o
[ 35%] Building CXX object tpc/CMakeFiles/tpc.dir/DEDX.o
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcMCDEdxTask.o
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcRawDEdxCollection.o
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcDEDXFits.o
/u/naryshk/pandaroot/pandaroot/tpc/PndTpcDEDXFits.cxx: In member function `TF1*
  PndTpcDEDXFits::CreateFunction(const std::string&)':
/u/naryshk/pandaroot/pandaroot/tpc/PndTpcDEDXFits.cxx:242: error: no matching
  function for call to `TF1::TF1(const char*, PndTpcDEDXFits* const, double
  (PndTpcDEDXFits::*)(double*, double*), Double_t&, Double_t&, Int_t&, const
  char[15], const char[9])'
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:89: error: candidates are:
  TF1::TF1(const TF1&)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:87: error:
  TF1::TF1(const char*, Double_t (*)(const Double_t*, const Double_t*),
  double, double, int)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:86: error:
  TF1::TF1(const char*, Double_t (*)(Double_t*, Double_t*), double, double,
  int)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:84: error:
  TF1::TF1(const char*, void*, double, double, int)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:83: error:
```

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Subject: Re: TPC error during compilation

Posted by [Stefano Spataro](#) on Tue, 26 Aug 2008 14:10:27 GMT

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Ok,

you should use "trunk" directory, instead of stable (stable is not well fixed at the moment, I think). At least, with trunk it should compile. Or better (from scratch), aafter you have set the

proper SIMPATH (type "echo \$SIMPATH" to be sure that you are using the correct one):

```
svn co https://subversion.gsi.de/fairroot/pandaroot/trunk
mv trunk pandaroot
mkdir cbuild
cd cbuild
cmake ../pandaroot
./config.sh
make install
```

And let me know.

I have never compiled stable and I do not know if it is really stable.

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Subject: Re: TPC error during compilation  
Posted by [Yuri Naryshkin](#) on Tue, 26 Aug 2008 17:33:02 GMT  
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Dear Stefano,  
I followed your suggestions, but again I've got the same error.  
the \$SIMPATH is:

```
echo $SIMPATH
/misc/cbmsoft/Debian3.1/new
```

```
*****
```

```
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcMCDEdxTask.o
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcRawDEdxCollection.o
[ 36%] Building CXX object tpc/CMakeFiles/tpc.dir/PndTpcDEDXFits.o
/u/naryshk/pandaroot/tpc/PndTpcDEDXFits.cxx: In member function `TF1*
PndTpcDEDXFits::CreateFunction(const std::string&):
/u/naryshk/pandaroot/tpc/PndTpcDEDXFits.cxx:242: error: no matching function
for call to `TF1::TF1(const char*, PndTpcDEDXFits* const, double
(PndTpcDEDXFits::*)(double*, double*), Double_t&, Double_t&, Int_t&, const
char[15], const char[9])'
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:89: error: candidates are:
TF1::TF1(const TF1&)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:87: error:
TF1::TF1(const char*, Double_t (*)(const Double_t*, const Double_t*),
double, double, int)
/misc/cbmsoft/Debian3.1/new/tools/root/include/TF1.h:86: error:
TF1::TF1(const char*, Double_t (*)(Double_t*, Double_t*), double, double,
int)
```

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Subject: Re: TPC error during compilation  
Posted by [Stefano Spataro](#) on Tue, 26 Aug 2008 18:15:59 GMT

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Your SIMPATH is wrong (or better, it is old),  
but I do not remember which is the correct SIMPATH for GSI machines.

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Subject: Re: TPC error during compilation  
Posted by [Aleksandra Biegun](#) on Wed, 27 Aug 2008 07:17:31 GMT  
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Hi,

the path for new external package (the last one, from july 2008)  
at gsi machine is:

/misc/cbmsoft/Etch32/jul08/fairsoft/ - for 32bit machine  
/misc/cbmsoft/Etch64/jul08/fairsoft/ - for 64bit machine

but you have to login to: lxetch64.gsi.de  
and you will be transported to eg. lxi016 (from lxi?10 to 20).

Regards,  
Ola.

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Subject: Re: TPC error during compilation  
Posted by [Florian Uhlig](#) on Wed, 27 Aug 2008 08:01:31 GMT  
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Hi

There are external packages for all kind of Debian flavors here at GSI. If you want to know  
which machine you're using do

> echo \$OS

3.1 means Debian Sarge, whereas 4.0 is Debian Etch. After that do  
a

> uname -m

If the result is x86\_64 you're on a 64bit machine, if the result is i686 you're on a 32bit machine.  
According to the results you have to choose the SIMPATH

Sarge32 : /misc/cbmsoft/Sarge32/jul08/fairsoft/  
Sarge64 : /misc/cbmsoft/Sarge64/jul08/fairsoft/  
Etch32 : /misc/cbmsoft/Etch32/jul08/fairsoft/  
Etch64 : /misc/cbmsoft/Etch64/jul08/fairsoft/

If you compile PandaRoot for one of these systems you can run it only on that system.

Ciao

Florian

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Subject: Re: TPC error during compilation  
Posted by [Yuri Naryshkin](#) on Wed, 27 Aug 2008 08:20:23 GMT  
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Thank you! I tried to login lxetch64.gsi.de from outside but could not. I login to lxi001 and then to lxetch64.gsi.de. Is it OK?

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Subject: Re: TPC error during compilation  
Posted by [Stefano Spataro](#) on Wed, 27 Aug 2008 08:23:01 GMT  
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Yes,  
this is the only way to connect to that machine at GSI.

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Subject: Re: TPC error during compilation  
Posted by [Yuri Naryshkin](#) on Wed, 27 Aug 2008 08:28:54 GMT  
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Thank you! I login to lxi001, then to lxetch64.gsi.de,  
then check:

```
naryshk@lxi021:~/pandaroot$ echo $OS  
4.0
```

```
naryshk@lxi021:~/pandaroot$ uname -m  
x86_64
```

```
set  
export SIMPATH="/misc/cbmsoft/Etch64/jul08/fairsoft/"
```

repeate procedure of pandaroot installation.  
It is OK now! Thank you very much!

short question: can I do it also on lxi001-lxi010 with proper settings which you've sent me?

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Subject: Re: TPC error during compilation  
Posted by [Florian Uhlig](#) on Wed, 27 Aug 2008 08:43:01 GMT  
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Hi

You can do this also on lxi001-lxi010, if you set the SIMPATH according to the Operating system.

Ciao

Florian

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