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&,
....

Subject: Re: TPC error during compilation
Posted by StefanoSpataro 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?

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/shar
e/cmake-2.4/Modules/CMakeCInformation.cmake;/usr/share/cmake-2.4/Modules
/CMakeCXXInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeFortranInfo
rmation.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/shar
e/cmake-2.4/Modules/CMakeCInformation.cmake;/usr/share/cmake-2.4/Modules
/CMakeCXXInformation.cmake;/usr/share/cmake-2.4/Modules/CMakeFortranInfo
rmation.cmake
-- Configuring done

Subject: Re: TPC error during compilation
Posted by StefanoSpataro 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.

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:

Subject: Re: TPC error during compilation
Posted by StefanoSpataro 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.

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)

Subject: Re: TPC error during compilation
Posted by StefanoSpataro on Tue, 26 Aug 2008 18:15:59 GMT

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

Subject: Re: TPC error during compilation
Posted by Aleksandra Biegun on Wed, 27 Aug 2008 07:17:31 GMT

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.

Subject: Re: TPC error during compilation
Posted by Florian Uhlig on Wed, 27 Aug 2008 08:01:31 GMT

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, wheras 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

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?

Subject: Re: TPC error during compilation
Posted by StefanoSpataro 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.

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/"

repeat 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?

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