
Subject: Bug under gcc 3.X compiler

Posted by [Stefano Spataro](#) on Sat, 06 Oct 2007 10:11:30 GMT

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Does somebody know what is going wrong on gcc 3.X machines?

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Build Errors (7)

Error Build Log Line 266

File: tpc/tpcreco/TpcPatternRecoTask.cxx Line: 212

[49%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcConfMapRecoHit.o

[50%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcConfMapFit.o

[50%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcZSFit.o

[50%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcPatternRecoTask.o

../pandaroot/tpc/tpcreco/TpcPatternRecoTask.cxx: In

member function `virtual void TpcPatternRecoTask::Exec(const Option_t*):

../pandaroot/tpc/tpcreco/TpcPatternRecoTask.cxx:212: error: call

of overloaded `fabs(bool)' is ambiguous

/usr/include/bits/mathcalls.h:182: error: candidates are: double fabs(double)Error Build Log
Line 269

File: /usr/include/c++/3.3/cmath Line: 328

/usr/include/c++/3.3/cmath:328: error: long double

std::fabs(long double)Error Build Log Line 271

File: /usr/include/c++/3.3/cmath Line: 324

/usr/include/c++/3.3/cmath:324: error: float std::fabs(float)

Error Build Log Line 272

File: tpc/tpcreco/TpcPatternRecoTask.cxx Line: 213

../pandaroot/tpc/tpcreco/TpcPatternRecoTask.cxx:213: error: call

of overloaded `fabs(bool)' is ambiguous

/usr/include/bits/mathcalls.h:182: error: candidates are: double fabs(double)Error Build Log
Line 275

File: /usr/include/c++/3.3/cmath Line: 328

/usr/include/c++/3.3/cmath:328: error: long double

std::fabs(long double)Error Build Log Line 277

File: /usr/include/c++/3.3/cmath Line: 324

/usr/include/c++/3.3/cmath:324: error: float std::fabs(float)

[50%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcConfTrackFinder.o

[50%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/test/TpcRecoTester.o

[51%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcPlanarRecoHit.o

../pandaroot/tpc/tpcreco/TpcPlanarRecoHit.cxx: In

constructor `TpcPlanarRecoHit::TpcPlanarRecoHit(TpcCluster*)':Error Build Log Line 295

File: Unknown Line: Unknown

[52%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcProximityHTCorrelator.o

[52%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcRiemannHTCorrelator.o

[52%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/TpcRiemannTrackingTask.o

[53%] Building CXX object tpc/tpcreco/CMakeFiles/tpcreco.dir/tpcrecoDict.o

Linking CXX shared library libtpcreco.so

c++: CMakeFiles/tpcreco.dir/TpcPatternRecoTask.o: No such file or directory

[53%] Built target tpcreco

[53%] Generating MvdDict.cxx, MvdDict.h

Scanning dependencies of target Mvd

[53%] Building CXX object mvd/CMakeFiles/Mvd.dir/MvdData/MvdDetIdPair.o

[53%] Building CXX object mvd/CMakeFiles/Mvd.dir/MvdData/MvdDigiPixel.o
[54%] Building CXX object mvd/CMakeFiles/Mvd.dir/MvdData/MvdDigiStrip.o

Subject: Re: Bug under gcc 3.X compiler
Posted by [Florian Uhlig](#) on Mon, 08 Oct 2007 09:48:18 GMT
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Hi Stefano

I changed some of the code (change or add include statements) to be compatible with root v5.16.

In TpcPatternRecoTask.cxx i add a

```
#include <cmath>  
using std::fabs;
```

which results in the shown error message on systems with gcc 3.
The error occurs because you want to get the absolute value of a boolean variable, but this function is not implemented and i don't know if this makes sense.

Maybe Christian or Sebastian can have a look at the problem.

Ciao

Florian
