
Subject: compiling geane, recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 10:52:11 GMT
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Dear all,
i have just updated my code, and i'm surprised
to see that the geane recotask and trackrep directories
don't compile properly.

who knows what is going on?,

here you are the compile output

```
[ 95%] Generating GeaneDict.cxx, GeaneDict.h
Scanning dependencies of target Geane
[ 95%] Building CXX object geane/CMakeFiles/Geane.dir/CbmGeane.o
[ 96%] Building CXX object geane/CMakeFiles/Geane.dir/CbmGeanePro.o
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx: In member function
`int CbmGeanePro::FindPCA(int, int, TVector3, TVector3, TVector3, double,
Double_t&, TVector3&, TVector3&, Double_t&, Float_t&)':
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:479: error: `
SetClose' undeclared (first use this function)
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:479: error: (Each
undeclared identifier is reported only once for each function it appears
in.)
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:488: error: `
GetClose' undeclared (first use this function)
make[2]: *** [geane/CMakeFiles/Geane.dir/CbmGeanePro.o] Error 1
make[1]: *** [geane/CMakeFiles/Geane.dir/all] Error 2
make: *** [all] Error 2
```

```
[ 95%] Generating trackrepDict.cxx, trackrepDict.h
Scanning dependencies of target trackrep
[ 96%] Building CXX object trackrep/CMakeFiles/trackrep.dir/GeaneTrackRep.o
In file included from /u/asanchez/fairroot_prueba/pandaroot/trackrep/GeaneTrackRep.cxx:21:
/u/asanchez/fairroot_prueba/pandaroot/trackrep/GeaneTrackRep.h:86: error: conflicting
return type specified for `virtual double GeaneTrackRep::getCharge() const'
/u/asanchez/fairroot_prueba/pandaroot/genfit/AbsTrackRep.h:74: error:
overriding `virtual int AbsTrackRep::getCharge() const'
make[2]: *** [trackrep/CMakeFiles/trackrep.dir/GeaneTrackRep.o] Error 1
make[1]: *** [trackrep/CMakeFiles/trackrep.dir/all] Error 2
make: *** [all] Error 2
```

```
[ 87%] Generating recotasksDict.cxx, recotasksDict.h
Scanning dependencies of target recotasks
[ 87%] Building CXX object recotasks/CMakeFiles/recotasks.dir/CbmFieldAdaptor.o
[ 87%] Building CXX object recotasks/CMakeFiles/recotasks.dir/demo/DemoRecoHit.o
In file included from
/u/asanchez/fairroot_prueba/pandaroot/recotasks/demo/DemoRecoHit.cxx:29:
/u/asanchez/fairroot_prueba/pandaroot/trackrep/GeaneTrackRep.h:86: error: conflicting
```

```
return type specified for `virtual double GeaneTrackRep::getCharge() const'
/u/asanchez/fairroot_prueba/pandaroot/genfit/AbsTrackRep.h:74: error:
  overriding `virtual int AbsTrackRep::getCharge() const'
make[2]: *** [recotasks/CMakeFiles/recotasks.dir/demo/DemoRecoHit.o] Error 1
make[1]: *** [recotasks/CMakeFiles/recotasks.dir/all] Error 2
make: *** [all] Error 2
```

cheers
alicia.

Subject: Re: compiling geane,recotask and trackrep
Posted by [Sebastian Neubert](#) on Mon, 08 Oct 2007 11:09:29 GMT
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Hi Alicia!

Please make sure to update also the genfit package - this could be the reason for the error in trackrep.

For me everything works fine with the latest version.

Cheers! Sebastian.

Subject: Re: compiling geane,recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 11:36:33 GMT
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Hi Sebastian,
thanks a lot , now recotask, genfit, tpc, trackbase, trackrep
compile, but i have still problems with geane, should i update
anything else?

```
[ 95%] Building CXX object geane/CMakeFiles/Geane.dir/CbmGeanePro.o
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx: In member function
  `int CbmGeanePro::FindPCA(int, int, TVector3, TVector3, TVector3, double,
  Double_t&, TVector3&, TVector3&, Double_t&, Float_t&)':
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:479: error: `
  SetClose' undeclared (first use this function)
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:479: error: (Each
  undeclared identifier is reported only once for each function it appears
  in.)
/u/asanchez/fairroot_prueba/pandaroot/geane/CbmGeanePro.cxx:488: error: `
  GetClose' undeclared (first use this function)
make[2]: *** [geane/CMakeFiles/Geane.dir/CbmGeanePro.o] Error 1
make[1]: *** [geane/CMakeFiles/Geane.dir/all] Error 2
make: *** [all] Error 2
```

Subject: Re: compiling geane,recotask and trackrep
Posted by [Andrea Fontana](#) on Mon, 08 Oct 2007 12:22:06 GMT
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Hi Alicia,

the reason of the error is due to the use of an old version of the external packages (in particular of the TGeant3 class in tracking). The files are correctly updated on the Cern site but have not yet been included in the external packages tar file on the cbmroot site. During the last meeting at GSI Mohammad said that it will be included in the next update of cbmroot, along with geant4.9, which I hope will happen soon.

Hope this helps,
Andrea

Subject: Re: compiling geane,recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 12:39:01 GMT
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Hi Andrea
thanks a lot for the comment.

By the way there is already the possibility to ask for the length of the track in GEANE?

best regrads
Alicia.

Subject: Re: compiling geane,recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 12:44:55 GMT
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Hi Sebastian,
now i get error mesasages when i try to run runMC.C inside of /recotask/demo,
it seems that some library is still missing,

```
lxi011:demo>root runMC.C -l
root [0]
Processing runMC.C...
```

PSaid instance created... access via gSaid->f()

- RTDB container factory CbmBaseContFact
- RTDB container factory CbmFieldContFact
- RTDB container factory CbmPassiveContFact
- RTDB container factory MvdContFact
- RTDB container factory CbmEmcContFact

- RTDB container factory CbmDrcContFact
- RTDB container factory TpcContFact
dlopen error: /u/asanchez/fairroot_prueba/build/lib/librecotasks.so: undefined symbol:
_ZTI13GeaneTrackRep
Load Error: Failed to load Dynamic link library
/u/asanchez/fairroot_prueba/build/lib/librecotasks.so
*** Interpreter error recovered ***

Can you tell me what libraries are you using for that,?

thanks
alicia.

Subject: Re: compiling geane,recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 13:27:37 GMT
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Hi again, i have noticed that
in order to be able to run the runMC.C in
/recotask/demo/

one should add in runMC.C
libtpcrecotask
libgeane
libtrackrep

best regrads
alicia

Subject: Re: compiling geane,recotask and trackrep
Posted by [Andrea Fontana](#) on Mon, 08 Oct 2007 14:13:11 GMT
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Hi Alicia,
yes, this possibility is already there. It was always there
for the extrapolation to the PCA, but after your request I have
also added the possibility to get it also when extrapolating
to a volume or to a plane.

This is unfortunately going into the external packages and it is
exactly what the missing function of the previous error is also
doing (SetClose and GetClose).

I will get in touch with Mohammad to coordinate the distribution
of the new external packages as soon as possible: I think that

also Mohammad has an update version.

Hope it will not take too long: I thought this was done already.

Ciao,
Andrea

Subject: Re: compiling geane,recotask and trackrep
Posted by [asanchez](#) on Mon, 08 Oct 2007 14:36:32 GMT
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Ok, thanks

Alicia s.
