Subject: Re: Problems with GEANE and trackbase
Posted by Lia Lavezzi on Wed, 19 Mar 2008 11:36:07 GMT
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Hallo Mohammad,
  just a remark on the -O2 flag: it is connected only to the wrong values of the slopes Sebastian was talking about, not to the crash of the code.

In fact, running just his simplified code:

```
// Setup a trackrep which uses geane
CbmGeanePro* gePro=new CbmGeanePro();
CbmTrackParP dummy;

TVector3 pos(0.1,0.1,0.1);
TVector3 mom(0.1,0.1,1.);
TVector3 poserr=TVector3(0.1,0.1,0.1);
TVector3 momerr=0.2*mom;

DetPlane initplane(TVector3(pos),TVector3(1.,0.,0.),TVector3(0.,1.,0.));
double q=-1;

CbmTrackParP par(pos,mom,poserr,momerr,q,
initplane.getO(),initplane.getU(),initplane.getV());

par.Print();
```

here is what I get:

1) if I run it with the Check_Compiler and with the -O2 flag, I get the wrong values of the slopes dx/dz and dy/dz (the same values Sebastian talked about)

2) if I run it with the macro but deleting the -O2 flag in CMAKE_CXX_FLAGS_DEBUG, I get the correct values of the slopes.

I am using Scientific Linux CERN SLC 4.6, gcc 3.4.6.

              Best regards,
                 Lia.