
Subject: Re: UPDATE: TPC MVD and GEM correlators
Posted by [Dima Melnychuk](#) on Sun, 19 Jun 2011 22:48:06 GMT
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Dear colleagues,

I want to summarize briefly the status of GFTrack to PndTrack conversion.
My last attempt was to perform conversion from GFTrack to PndTrack using
PndGFTrackToPndTrackConvertorTask in separate macro. And as I have written in my
previous post it ended with error:

```
#5 0x00007f3c8379730f in FairGeanePro::PropagateFromPlane (  
  this=0x1000000000000000, v1=  
0x7fff8ab90990, v2=  
0x7fff8ab90960)  
  at /d/panda02/dmelnych/pandaroot/pandaroot/geane/FairGeanePro.cxx:384
```

Origin of this error was that GeaneTrackRep contained non persistent data member
FairGeanePro *_geane and reading GFtrack from root file it was undefined, but in turns was
used during conversion in PndGenfitAdapters.cxx .
So the conclusion is that conversion should be performed in the same macro as
reconstruction.

But here another problem arise. My initial idea was that it's in some way memory problem, but
it looks it's not the case. I observed that crush happend in the moment when the memory still
not full.

So it looks like:

```
GFEException thrown with excString:  
GEANE propagation failed  
in line: 204 in file:  
/d/panda02/dmelnych/pandaroot/pandaroot/GenfitTools/trackrep/GeaneTrackRep/GeaneTrack  
Rep.cxx  
with fatal flag 0  
GFEException thrown with excString:  
GeaneTrackRep: PROTECT AGAINST LOW MOMENTA  
in line: 178 in file:  
/d/panda02/dmelnych/pandaroot/pandaroot/GenfitTools/trackrep/GeaneTrackRep/GeaneTrack  
Rep.cxx  
with fatal flag 0  
RKTrackRep::RKutta ==> Too long extrapolation requested : 14096.1 cm !  
X = 39.098 Y = 9.89889 Z = 117.621 COSx = -0.958658 COSy = -0.284551 COSz =  
0.00246591  
Destination X = -0.000  
GFEException thrown with excString:  
RKTrackRep::Extrap ==> Runge Kutta propagation failed  
in line: 997 in file:  
/d/panda02/dmelnych/pandaroot/pandaroot/GenfitTools/trackrep/RKTrackRep/RKTrackRep.cx
```

```
x
with fatal flag 0
Fitting done
Error: Symbol #include is not defined in current scope run_reco_tpc_evt.C:145:
Error: Symbol exception is not defined in current scope run_reco_tpc_evt.C:145:
Syntax Error: #include <exception> run_reco_tpc_evt.C:145:
Error: Symbol G__exception is not defined in current scope run_reco_tpc_evt.C:145:
Error: type G__exception not defined
FILE:/d/panda02/dmelnych/pandaroot/pandaroot/macro/run/tdrct/eta_c/./run_reco_tpc_evt.C
LINE:145
*** Interpreter error recovered ***
```

My observation is that in the cases I observed, the crash is after the message:

```
RKTrackRep::RKutta ==> Too long extrapolation requested
```

This crash happen not every event but sufficiently often (after 3-5 events) that conversion cannot be reasonably performed.

Dima
