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 converion 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=0x100000000000000, 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 udefined, 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 arrise. 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:


GFException 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
GFException 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
GFException 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