Dear all,

I am trying to do a simulation with Geant4 using trunk(today morning version...)
Upto sim->dig should be fine.

At reconstruction, probably I have a trouble to load G4 library.
During the initialization of FairGeane::Init(), I have seen the message
"Loading Geant3 libraries ...", but I have used Geant4 for this simulation, why such messages
are appeared?
And the end of reco process the simulation is crashed with following error.
Quote:
terminate called after throwing an instance of 'std::out_of_range'
  what(): vector::_M_range_check

What is this?

Here is the full output from reco session during simulation.
Quote:

root [0]
Processing run_offline3_rec.C("test_geant4", 5, 15, 5 , "dell")...
Error in <TClonesArray::SetClass>: called with a null pointer
FairRootManager::OpenOutFile("/home/kang/GSI/macro_online/data/test_geant4/data_5_rec.r
oot ")
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
[INFO] The input consists out of the following trees and files:
[INFO] - cbmsim
[INFO]   - /home/kang/GSI/macro_online/data/test_geant4/data_5_dig.root
[INFO] - FriendTree_1
[INFO]   - /home/kang/GSI/macro_online/data/test_geant4/data_5_sim.root
[INFO] Parameter and input file are available, Assure that basic info is there for the run!
[INFO] The number of entries in chain is 5

****
    initialisation for run id 1383213357
****
****
    initialisation for run id 1383213357
****
****
    initialisation for run id 1383213357
****
....

----------------------FairGeane::Init ()----------------------------

Loading Geant3 libraries ...
Loading Geant3 libraries ... finished

 MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 1055673399   3EEC4C37 HEX

 MZSTOR. Initialize Store 0 in /GCBANK/
        with Store/Table at absolute adrs 1055782645 1055673399
                             HEX   3EEDF6F5   3EEC4C37
                             HEX   1AB22   0
                     relative adrs   109346   0
        with   1 Str. in   2 Links in   5300 Low words in 4999970 words.
        This store has a fence of   16 words.

 MZLOGL. Set Log Level 0 for store 0
1***** GEANT Version 3.21/11 Released on 100298
0***** Correction Cradle Version 0.1100

 MZDIV.   Initialize Division Constant in Store 0
        NW/NWMAX= 20004000000, MODE/KIND= 1 2
        Division 20 initialized.

 MZLINK. Initialize Link Area /GCLINK/ for Store 0 NL/NS=   20   20

 MZLINK. Initialize Link Area /GCSLNK/ for Store 0 NL/NS=   100   100
-I- G3Config: Geant3 with TGeo has been created for Geane.
-I- Geane.C: NOPRNT flag set to 1
-I- Geane.C: IERR flags are not printed. If you want to switch them on, please set
fErtrio1->noprnt = 0 in Geane.C
Energy straggling area parameter from user set to: 0.999

 Calculating cross section tables, see gphysi.dat for more information

 Cross section calculation concluded successfully
I- FairGeane::FairGeane: Geane is Initialized
-W- PndMvdRiemannTrackFinderTask::Init: No Branch Names given with
AddHitBranch(TString branchName)! Standard BranchNames taken!
-I- PndMvdRiemannTrackFinderTask: Initialisation successfull
-I- PndTrkTracking: Initialization successfull
-I- PndTrkTracking: Initialization successfull
-I- -------------------
-I- PndSttMvdGemTracking: using branches MVDHitsPixel MVDHitsStrip STTHit GEMHit
-I- to change one or more of these use PndSttMvdGemTracking:SetBranchName(TStrings);
the order of TStrings is mvd pixel name, mvd strip name, stt name, gem name
starting track for extrapolation SttMvdTrack SttMvdTrackCand
-I- -------------------
-I- PndSttMvdGemTracking: using default PDG -13
-I- PndSttMvdGemTracking: Intialisation successfull
-I- PndMCTrackAssociator::Init
[INFO] Branch: STTHitMix not found in Tree
[INFO] Branch: STTHitMix not found in Tree
-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO] Branch: MVDHitsStripMix not found in Tree

[INFO   ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO   ] Branch: MVDHitsPixelMix not found in Tree
[INFO   ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
 -I- PndRecoKalmanTask:Init :: Using GeaneTrackRep
#####Mapper:filltubearray######
fGeoType=1
*** PndRecoKalmanFit::Init MVDHitsStrip array found
*** PndRecoKalmanFit::Init MVDHitsPixel array found
[INFO   ] Branch: SttHelixHit not found in Tree
[INFO   ] Branch: SttHelixHit not found in Tree
*** PndRecoKalmanFit::Init SttHit array found
*** PndRecoKalmanFit::Init GEMHit array found
*** PndRecoKalmanFit::Init MdtHit array found
*** PndRecoKalmanFit::Init FtsHit array found
===PndRecoKalmanFit::Init() finished

===
-I- PndMCTrackAssociator::Init
[INFO   ] Branch: STTHitMix not found in Tree
[INFO   ] Branch: STTHitMix not found in Tree
-W- PndMCTrackAssociator::Init: Using STTHit array
[INFO   ] Branch: MVDHitsStripMix not found in Tree
[INFO   ] Branch: MVDHitsStripMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsStrip array
[INFO   ] Branch: MVDHitsPixelMix not found in Tree
[INFO   ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
Warning in <TDatabasePDG::TDatabasePDG>: object already instantiated
#####Mapper:filltubearray######
fGeoType=1
 -I- PndRecoKalmanTask:Init :: Using GeaneTrackRep
#####Mapper:filltubearray######
fGeoType=1
*** PndRecoKalmanFit::Init MVDHitsStrip array found
*** PndRecoKalmanFit::Init MVDHitsPixel array found
[INFO   ] Branch: SttHelixHit not found in Tree
[INFO   ] Branch: SttHelixHit not found in Tree
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*** PndRecoKalmanFit::Init GEMHit array found
*** PndRecoKalmanFit::Init MdtHit array found
*** PndRecoKalmanFit::Init FtsHit array found
===PndRecoKalmanFit::Init() finished

===
-I- PndMCTrackAssociator::Init
[INFO   ] Branch: STTHitMix not found in Tree
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-W- PndMCTrackAssociator::Init: Using STTHit array
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[INFO   ] Branch: MVDHitsPixelMix not found in Tree
-W- PndMCTrackAssociator::Init: Using MVDHitsPixel
[INFO   ] The number of entries in chain is 5
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