## Subject: Combining Emc reconstruction and Geane
Posted by Vanniarajan Suyam Jothi on Wed, 07 May 2008 12:15:05 GMT

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I wanted to track from tpc to the Emc to catch the Emc Cluster Corresponding to the track using GeaneExEmc Johan's Example in tutorial.

I am getting following Error from CbmGeanePro

-I- PndTpcLheHitsMaker::Init: No EMC detector is used
-I- PndTpcLheHitsMaker::Init: Using MCTrack
-I- PndTpcLheTrackFitter1::Init: TpcPoint array! Switching simulation ON
-E- CbmRootManager Branch: PndMvdMCPoint not found in Tree
-E- CbmRootManager Branch: EmcCluster not found in Tree

Program received signal SIGSEGV, Segmentation fault.
[Switching to Thread 0xb70f26c0 (LWP 8812)]
0xb4c604b5 in CbmGeanePro (this=0x955ad30)
   at /home/vanni/fairsoft/pandaroot/geane/CbmGeanePro.cxx:37
37   afErtrio=gMC3->fErtrio;
Current language:  auto; currently c++

I have followed Ralf and Andrea's suggestion to Change the CMakelist.txt

 Add

   * ${GEANT3_INCLUDE_DIR}

and starting a CbmGeane in my macro,

It was working fine.

now I want to Combine it with Emc Reconstruction  part
hitProducer, Digitalisation, Make Cluster so on....

now I get the following Error in the Initialization

**********************************************************
    initialisation for run id 1133892975
**********************************************************
-I- PndMvdDetector: fListOfSensitives contains:
 Disk-Sensor
 Barrel-Sensor
 StripSensor
 SensorActiveArea
 StripActive
 PixelActive

Program received signal SIGSEGV, Segmentation fault.
[Switching to Thread 0xb71226c0 (LWP 10471)]
0xb4a03344 in delete_PndGeoEmcPar (p=0x14d1b1)
    at /home/vanni/fairsoft/build/emc/PndEmcDict.cxx:2744
warning: Source file is more recent than executable.
2744      delete ((::PndGeoEmcPar*)p);
Current language:  auto; currently c++
(gdb) list
2739   static void *newArray_PndGeoEmcPar(Long_t nElements, void *p) {
2740      return p ? new(p) ::PndGeoEmcPar[nElements] : new ::PndGeoEmcPar[nElements];
2741   }
2742   // Wrapper around operator delete
2743   static void delete_PndGeoEmcPar(void *p) {
2744      delete ((::PndGeoEmcPar*)p);
2745   }
2746   static void deleteArray_PndGeoEmcPar(void *p) {
2747      delete [] ((::PndGeoEmcPar*)p);
2748   }
(gdb) continue
Continuing.

 *** Break *** segmentation violation
Attaching to program: /proc/10471/exe, process 10471
ptrace: Operation not permitted.
/home/vanni/pidmacro/10471: No such file or directory.
error detected on stdin


It is not clear, if the Problem is in the Emc or in the
Geane, as both of them are working nicely individually.


Cheers,
Vanni


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Subject: Re: Combining Emc reconstruction and Geane
Posted by StefanoSpataro on Wed, 07 May 2008 14:36:42 GMT
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It seems there are no EmcCluster in your input root file.
Are you sure everything is working properly at that stage?

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Subject: Re: Combining Emc reconstruction and Geane
Posted by Vanniarajan Suyam Jothi on Wed, 07 May 2008 16:46:54 GMT
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I do not include EmcCluster for the lheTrackFinding and LheTrackFitting, I include only Mvd Points and TpcPoints,
From the last point in the track,  I switch off the Emc part in the LheHitsMaker

 I do the Geane Propagation to Emc volume. So, I have the Geane guess of where the cluster is going to be for that track.

       now I want to do the position-position matching to the Geane guess with the reconstructed clusters in Emc.

unfortunately Emc reconstruction and Geane Propagation  don't work together.

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Subject: Re: Combining Emc reconstruction and Geane
Posted by StefanoSpataro on Wed, 07 May 2008 17:24:15 GMT
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What I meant is the reason of the missing EmcCluster:

-E- CbmRootManager Branch: PndMvdMCPoint not found in Tree
-E- CbmRootManager Branch: EmcCluster not found in Tree

Don't you use emc cluster info in your code?

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Subject: Re: Combining Emc reconstruction and Geane
Posted by Vanniarajan Suyam Jothi on Thu, 08 May 2008 07:44:04 GMT
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```
PndTpcLheHitsMaker* trackMS = new PndTpcLheHitsMaker("Tracking routine");
//trackMS->SetSimulation(kFALSE);
//trackMS->SetVerbose(kTRUE);
trackMS->SetTpcMode(1, -1);  // 0 OFF, 1 TpcPoint, 2 TpcCluster // TpcPoint smearing [cm], if negative no smearing
trackMS->SetMvdMode(1, -1);  // 0 OFF, 1 MVDPoint, 2 MVDHit    // MVDPoint smearing [cm], if negative no smearing
trackMS->SetEmcMode(0);      // 0 OFF,          2 EmcCluster, 3 EmcBump
fRun->AddTask(trackMS);
```

I have switched off the MvdMode and EmcMode in my Macro....
I don't know why does it look for the cluster..!

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and I have Mvdpoints In the input file hits maker do use MvdPoints for tracking.

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## Subject: Re: Combining Emc reconstruction and Geane
Posted by StefanoSpataro on Thu, 08 May 2008 08:21:11 GMT
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In your macro something is trying to access to EmcCluster, and this is not the LheHitsmaker. What else?

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## Subject: Re: Combining Emc reconstruction and Geane
Posted by Vanniarajan Suyam Jothi on Thu, 08 May 2008 08:48:19 GMT
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Oh that was from another irrelevant task I have made. I have switched it off... still the problem persist...my problem is nothing to do with that task..

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## Subject: Re: Combining Emc reconstruction and Geane
Posted by Aleksandra Wronska on Thu, 08 May 2008 08:53:13 GMT
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Hi,

Of the two error messages:
-E- CbmRootManager Branch: PndMvdMCPoint not found in Tree
-E- CbmRootManager Branch: EmcCluster not found in Tree
after a fast glimpse I think that the first comes from the wrong name of the array (the array is called MVDPoint)
Unfortunately I have no idea why EmcCluster is not found.

cheers,
ola

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