
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

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?

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.

Subject: Re: Combining Emc reconstruction and Geane
Posted by [Stefano Spataro](#) 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?

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..!

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

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?

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..

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