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Subject: Re: Simulation For a particular branch  
Posted by [Ajay Kumar](#) on Tue, 23 Oct 2012 19:40:33 GMT  
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Hello Simone.

Thanks for your reply.

I have done as you suggest me. I was trying to simulate "neutral geantino" particle (pdgcode-100) by using single particle box generator to get the radiation length info. but as I run it getting crashed. crash is look like as:-

```
Processing run_sim_radlength.C...
Warning in <TClassTable::Add>: class PndSdsTask already in TClassTable
Warning in <TClassTable::Add>: class PndSdsMCPoint already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDigi already in TClassTable
Warning in <TClassTable::Add>: class PndSdsStrip already in TClassTable
Warning in <TClassTable::Add>: class PndSdsDetector already in TClassTable
FairRootManager::OpenOutFile("Simulation.root")
[INFO ] Media file used : /home/ajay/pandaroot/geometry/media_pnd.geo
Info in (PndGeoHandling::Instance): Making a new instance using the framework.
-I container name PndEmcGeoPar
[INFO ]===== FairRunSim: Initialising simulation run =====
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
-I- FairGeoMedia Read media
-I container name PndEmcDigiPar
-I container name PndEmcDigiNonuniformityPar
```

```
*****
initialisation for run id 1612715927
*****
```

```
[ERROR ] init() PndEmcGeoPar not initialized
[ERROR ] init() PndSensorNamePar not initialized
PndEmcDigiPar initialized from Ascii file
[ERROR ] init() PndEmcDigiNonuniformityPar not initialized
Error in <FairRuntimeDb::initContainers(>: Error occured during initialization
[INFO ] Create visualisation manager
[INFO ] ----- Standard Config is called -----
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished
```

```
MZSTOR. ZEBRA table base TAB(0) in /MZCC/ at adr 550579135 20D12BBF HEX
```

```
MZSTOR. Initialize Store 0 in /GCBANK/
with Store/Table at absolute adrs 550688477 550579135
      HEX 20D2D6DD 20D12BBF
      HEX 1A72A 0
      relative adrs 108330 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.

SetCuts Macro: Setting Processes..

SetCuts Macro: Setting cuts..

Fatal in <PndBoxGenerator::PndBoxGenerator>: PDG code 100 not defined.

aborting

#0 0x00007f8e997e20ee in waitpid () from /lib/x86\_64-linux-gnu/libc.so.6

#1 0x00007f8e99774e8e in ?? () from /lib/x86\_64-linux-gnu/libc.so.6

#2 0x00007f8e9a6921a7 in TUnixSystem::StackTrace() () from

/home/ajay/fairsoft/lib/root/libCore.so.5.34

#3 0x00007f8e9a5d84c2 in DefaultErrorHandler(int, bool, char const\*, char const\*) () from

/home/ajay/fairsoft/lib/root/libCore.so.5.34

#4 0x00007f8e9a5d89de in ErrorHandler () from /home/ajay/fairsoft/lib/root/libCore.so.5.34

#5 0x00007f8e9a5e8631 in TObject::Fatal(char const\*, char const\*, ...) const () from

/home/ajay/fairsoft/lib/root/libCore.so.5.34

#6 0x00007f8e8b9d7769 in PndBoxGenerator::Init (this=0x15d2870) at

/home/ajay/pandaroot/pgenerators/PndBoxGenerator.cxx:63

#7 0x00007f8e8dbbed91 in FairPrimaryGenerator::Init (this=0x15cb7a0) at

/home/ajay/pandaroot/base/FairPrimaryGenerator.cxx:92

#8 0x00007f8e8dbb612d in FairMCApplication::Addlons (this=0x160b910) at

/home/ajay/pandaroot/base/FairMCApplication.cxx:824

#9 0x00007f8e82f62dff in TGeant3::Init() () from /home/ajay/fairsoft/lib/libgeant321.so

#10 0x00007f8e8dbb2f95 in FairMCApplication::InitMC (this=0x160b910, setup=0x1630510

"/home/ajay/pandaroot/gconfig/g3Config.C", cuts=0x16304d0

"/home/ajay/pandaroot/gconfig/SetCuts.C") at

/home/ajay/pandaroot/base/FairMCApplication.cxx:210

#11 0x00007f8e8dbe8b7c in FairRunSim::SetMCConfig (this=0x14545a0) at

/home/ajay/pandaroot/base/FairRunSim.cxx:345

#12 0x00007f8e8dbe7422 in FairRunSim::Init (this=0x14545a0) at

/home/ajay/pandaroot/base/FairRunSim.cxx:196

#13 0x00007f8e8dc57116 in G\_\_G\_\_BaseDict\_998\_0\_5 (result7=0x7fff787a4910,

funcname=0xc665c0 "", libp=0x7fff78799f00, hash=0) at

/home/ajay/pandaroot/buildPanda/base/G\_\_BaseDict.cxx:14814

#14 0x00007f8e989ad6a6 in Cint::G\_\_ExceptionWrapper(int (\*)(G\_\_value\*, char const\*,

G\_\_param\*, int), G\_\_value\*, char\*, G\_\_param\*, int) () from

/home/ajay/fairsoft/lib/root/libCint.so.5.34

#15 0x00007f8e98a50d31 in G\_\_execute\_call () from /home/ajay/fairsoft/lib/root/libCint.so.5.34

#16 0x00007f8e98a51130 in G\_\_call\_cppfunc () from /home/ajay/fairsoft/lib/root/libCint.so.5.34

#17 0x00007f8e98a317f2 in G\_\_interpret\_func () from

/home/ajay/fairsoft/lib/root/libCint.so.5.34

#18 0x00007f8e98a1dd28 in G\_\_getfunction () from /home/ajay/fairsoft/lib/root/libCint.so.5.34

#19 0x00007f8e98b05f93 in G\_\_getstructmem(int, G\_\_FastAllocString&, char\*, int, char\*, int\*,

G\_\_var\_array\*, int) () from /home/ajay/fairsoft/lib/root/libCint.so.5.34

#20 0x00007f8e98aff9e0 in G\_\_getvariable () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#21 0x00007f8e989f9a32 in G\_\_getitem () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#22 0x00007f8e98a0040f in G\_\_getexpr () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#23 0x00007f8e98a81596 in G\_\_exec\_statement () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#24 0x00007f8e98a2fd09 in G\_\_interpret\_func () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#25 0x00007f8e98a1dfba in G\_\_getfunction () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#26 0x00007f8e989fa1a1 in G\_\_getitem () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#27 0x00007f8e98a0040f in G\_\_getexpr () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#28 0x00007f8e98a09e4c in G\_\_calc\_internal () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#29 0x00007f8e98a8db69 in G\_\_process\_cmd () from /home/ajay/fairsoft/lib/root/libCint.so.5.34  
#30 0x00007f8e9a65da7d in TCint::ProcessLine(char const\*, TInterpreter::EErrorCode\*) () from /home/ajay/fairsoft/lib/root/libCore.so.5.34  
#31 0x00007f8e9a654463 in TCint::ProcessLineSynch(char const\*, TInterpreter::EErrorCode\*) () from /home/ajay/fairsoft/lib/root/libCore.so.5.34  
#32 0x00007f8e9a5c0998 in TApplication::ExecuteFile(char const\*, int\*, bool) () from /home/ajay/fairsoft/lib/root/libCore.so.5.34  
#33 0x00007f8e9a5bf6db in TApplication::ProcessLine(char const\*, bool, int\*) () from /home/ajay/fairsoft/lib/root/libCore.so.5.34  
#34 0x00007f8e9a21660a in TRint::Run(bool) () from /home/ajay/fairsoft/lib/root/libRint.so.5.34  
#35 0x000000000040105c in main ()

Am I doing something wrong to simulate this particle?

Is there another way to simulate geantino particle to extract the radiation length info by using a particular generator for a particular detector??

I have attached my sim macro here also.  
Again help is expecting

Regards & Thanks

## File Attachments

1) [run\\_sim\\_radlength.C](#), downloaded 369 times

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