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 lenth 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::AddIons (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 lenth 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 425 times