
Subject: Problem with PndSttHitProducerIdeal
Posted by [Ralf Kliemt](#) on Fri, 01 Feb 2008 12:15:04 GMT
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Hi all,

While trying this geane tutorial number 2 I encountered a problem with the PndSttHitProducerIdeal. I worked around by using the real hitproducer, but this is really time consuming.

Here goes the report: Everything seems to be ok at the beginning.

Toggle Spoiler

Processing runDIGI2.C...

PSaid instance created... access via gSaid->f()

- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact
- RTDB container factory PndSttContFact
- RTDB container factory CbmPlaneContFact
- l- CbmRunAna: Opening Input file: ex2.root

-l- CbmRunAna::Init :
ex2.root is connected with:

Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 15949 nodes/ 2812 volume UID's in CBM geometry
Info in <TGeoManager::CloseGeometry>: -----modeler ready-----

PndFieldCreator::SetParm()
create PndFieldPar container PndFieldPar
create PndFieldPar container PndSolenoidPar
create PndFieldPar container PndDipolePar
create PndFieldPar container PndTransPar
create PndFieldPar container PndConstPar
create PndFieldPar container PndMultiFieldPar

initialisation for run id 1163482620

Error in <CbmBaseParSet::init()>: CbmBaseParSet not initialized
Error in <PndFieldPar::init()>: PndFieldPar not initialized
Error in <PndSolenoidPar::init()>: PndSolenoidPar not initialized
Error in <PndDipolePar::init()>: PndDipolePar not initialized
Error in <PndTransPar::init()>: PndTransPar not initialized
Error in <PndConstPar::init()>: PndConstPar not initialized
Error in <PndMultiFieldPar::init()>: PndMultiFieldPar not initialized
Error in <CbmRuntimeDb::initContainers()>: Error occured during initialization
PndFieldCreator::createCbmField()

-l- PndSttHitProducerIdeal: Intialisation successfull

Then some events are processed and it breaks with this gdb output:

Toggle Spoiler

-l- PndSttHitProducerIdeal: 83 SttPoints, 83 Hits created.

Program received signal SIGFPE, Arithmetic exception.

[Switching to Thread -1226048736 (LWP 11088)]

0xb6dc94e7 in TStreamerInfo::WriteBufferAux<char**> (this=0x8beef70, b=@0xa48bee8, arr=@0xbf9be680, first=6, narr=83, eoffset=0, arrayMode=1)

at io/src/TStreamerInfoWriteBuffer.cxx:188

188 case TStreamerInfo::kDouble + kHaveLoop: WriteBasicTypeLoop(Double_);
continue;

(gdb) bt

#0 0xb6dc94e7 in TStreamerInfo::WriteBufferAux<char**> (this=0x8beef70, b=@0xa48bee8, arr=@0xbf9be680, first=6, narr=83, eoffset=0, arrayMode=1)

at io/src/TStreamerInfoWriteBuffer.cxx:188

#1 0xb6dc2357 in TStreamerInfo::WriteBufferClones (this=0x8beef70, b=@0xa48bee8, clones=0x8bc23c8, nc=83, first=6, eoffset=0) at io/src/TStreamerInfoWriteBuffer.cxx:788

#2 0xb5d5d908 in TBranchElement::FillLeaves (this=0xa49e720, b=@0xa48bee8) at tree/src/TBranchElement.cxx:1277

#3 0xb5d52b47 in TBranch::Fill (this=0xa49e720) at tree/src/TBranch.cxx:769

#4 0xb5d5dbb5 in TBranchElement::Fill (this=0xa49e720) at tree/src/TBranchElement.cxx:1043

#5 0xb5d5dd19 in TBranchElement::Fill (this=0x8bed848) at tree/src/TBranchElement.cxx:1068

#6 0xb5da2d35 in TTree::Fill (this=0x8bcc0b0) at tree/src/TTree.cxx:3186

#7 0xb304e35c in CbmRootManager::Fill (this=0x84b4428) at /home/ralfk/Pandaroot/pandaroot/base/CbmRootManager.cxx:344

#8 0xb3055141 in CbmRunAna::Run (this=0x84b42d8, Ev_start=0, Ev_end=1000) at /home/ralfk/Pandaroot/pandaroot/base/CbmRunAna.cxx:158

#9 0xb3095f84 in G__CbmDict_530_0_5 (result7=0xbf9ceecc, funcname=0x84b2818 "\001", libp=0xbf9c8b28, hash=0) at /home/ralfk/Pandaroot/build/base/CbmDict.cxx:9334

#10 0xb721b55b in Cint::G__ExceptionWrapper (funcp=0xb3095e9a <G__CbmDict_530_0_5>, result7=0xbf9ceecc, funcname=0x84b2818 "\001", libp=0xbf9c8b28, hash=0)

at cint/src/Api.cxx:364

#11 0xb732a8a0 in G__call_cppfunc (result7=0xbf9ceecc, libp=0xbf9c8b28, ifunc=0x84b2818, ifn=0) at cint/src/v6_newlink.cxx:512

#12 0xb72f1f65 in G__interpret_func (result7=0xbf9ceecc, funcname=0xbf9ce8cc "Run", libp=0xbf9c8b28, hash=309, p_ifunc=0x84b2818, funcmatch=1, memfunc_flag=1)

at cint/src/v6_ifunc.cxx:5118

#13 0xb72e1554 in G__getfunction (item=0xbf9d3336 "Run(0,nEvents)", known3=0xbf9d18fc, memfunc_flag=1) at cint/src/v6_func.cxx:2511

#14 0xb73b6090 in G__getstructmem (store_var_type=112, varname=0xbf9d11e8 "basiclibs", membername=0xbf9d3336 "Run(0,nEvents)", tagname=0xbf9d0fe8 "fRun",

known2=0xbf9d18fc, varglobal=0xb745c3a0, objptr=2) at cint/src/v6_var.cxx:6562

#15 0xb73a8ffd in G__getvariable (item=0xbf9d3330 "fRun->Run(0,nEvents)", known2=0xbf9d18fc, varglobal=0xb745c3a0, varlocal=0x0) at cint/src/v6_var.cxx:5206

#16 0xb72af2b2 in G__getitem (item=0xbf9d3330 "fRun->Run(0,nEvents)") at cint/src/v6_expr.cxx:1884

#17 0xb72c2453 in G__getexpr (expression=0xbf9d396c "fRun->Run(0,nEvents)") at

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cint/src/v6_expr.cxx:1470
#18 0xb733cd31 in G__exec_function (statement=0xbf9d396c "fRun->Run(0,nEvents)",
pc=0xbf9d4008, piout=0xbf9d4004, plargestep=0xbf9d3ffc, presult=0xbf9d3fb8)
  at cint/src/v6_parse.cxx:598
#19 0xb7343d6f in G__exec_statement (mparen=0xbf9daeb8) at cint/src/v6_parse.cxx:6923
#20 0xb7298000 in G__exec_tempfile_core (file=0xbf9dcfac
"/home/ralfk/Pandaroot/pandaroot/macro/geane/./runDIGI2.C", fp=0x0) at
cint/src/v6_debug.cxx:251
#21 0xb729833d in G__exec_tempfile (file=0xbf9dcfac
"/home/ralfk/Pandaroot/pandaroot/macro/geane/./runDIGI2.C") at cint/src/v6_debug.cxx:798
#22 0xb735615a in G__process_cmd (line=0xb7edf74d "_20", prompt=0x80cc994 "",
more=0x80cc98c, err=0xbf9dde68, rslt=0xbf9dde38) at cint/src/v6_pause.cxx:3070
#23 0xb79a80f9 in TCint::ProcessLine (this=0x80cc970, line=0xb7edf74d "_20",
error=0xbf9e0674) at meta/src/TCint.cxx:289
#24 0xb79a25bc in TCint::ProcessLineSynch (this=0x80cc970, line=0xb7edf74d "_20",
error=0xbf9e0674) at meta/src/TCint.cxx:354
#25 0xb78ea532 in TApplication::ExecuteFile (file=0xbf9de59d "runDIGI2.C",
error=0xbf9e0674) at base/src/TApplication.cxx:898
#26 0xb78ea704 in TApplication::ProcessFile (this=0x80eae90, file=0xbf9de59d "runDIGI2.C",
error=0xbf9e0674) at base/src/TApplication.cxx:787
#27 0xb78ecaeb in TApplication::ProcessLine (this=0x80eae90, line=0xbf9de59a ".x
runDIGI2.C", sync=false, err=0xbf9e0674) at base/src/TApplication.cxx:760
#28 0xb718c9de in TRint::Run (this=0x80eae90, retrn=false) at rint/src/TRint.cxx:336
#29 0x08048e49 in main (argc=1, argv=0xbf9e0784) at main/src/rmain.cxx:29

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(gdb) list

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183     case TStreamerInfo::kShort  + kHaveLoop: WriteBasicTypeLoop(Short_t);
continue;
184     case TStreamerInfo::kInt    + kHaveLoop: WriteBasicTypeLoop(Int_t);   continue;
185     case TStreamerInfo::kLong   + kHaveLoop: WriteBasicTypeLoop(Long_t);
continue;
186     case TStreamerInfo::kLong64 + kHaveLoop: WriteBasicTypeLoop(Long64_t);
continue;
187     case TStreamerInfo::kFloat  + kHaveLoop: WriteBasicTypeLoop(Float_t);
continue;
188     case TStreamerInfo::kDouble + kHaveLoop: WriteBasicTypeLoop(Double_t);
continue;
189     case TStreamerInfo::kUChar  + kHaveLoop: WriteBasicTypeLoop(UChar_t);
continue;
190     case TStreamerInfo::kUShort + kHaveLoop: WriteBasicTypeLoop(UShort_t);
continue;
191     case TStreamerInfo::kUInt   + kHaveLoop: WriteBasicTypeLoop(UInt_t);
continue;
192     case TStreamerInfo::kULong  + kHaveLoop: WriteBasicTypeLoop(ULong_t);
continue;
(gdb)

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So something goes wrong maybe even inside root?
Ideas/workarounds?

Greetings from Dresden and have a nice weekend,
Ralf.

Edit:

I tried it with 10 events and it succeeded - maybe it has to do with a memory leak?

Ralf.
