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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
- I- CbmRunAna: Opening Input file: ex2.root

-I- 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 occurred during initialization

PndFieldCreator::createCbmField()

-I- PndSttHitProducerIdeal: Intialisation successfull

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

Toggle Spoiler

-I- 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=@0xb9be680, first=6, narr=83, eoffset=0, arrayMode=1)

at io/src/TStreamerInfoWriteBuffer.cxx:188

188 case TStreamerInfo::kDouble + kHaveLoop: WriteBasicTypeLoop(Double\_t);  
continue;

(gdb) bt

#0 0xb6dc94e7 in TStreamerInfo::WriteBufferAux<char\*\*> (this=0x8beef70, b=@0xa48bee8, arr=@0xb9be680, 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=0xbcc0b0) 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=0xb9ceec, funcname=0x84b2818 "\001", libp=0xb9c8b28, 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=0xb9ceec, funcname=0x84b2818 "\001", libp=0xb9c8b28, hash=0)

at cint/src/Api.cxx:364

#11 0xb732a8a0 in G\_\_call\_cppfunc (result7=0xb9ceec, libp=0xb9c8b28, ifunc=0x84b2818, ifn=0) at cint/src/v6\_newlink.cxx:512

#12 0xb72f1f65 in G\_\_interpret\_func (result7=0xb9ceec, funcname=0xb9ce8cc "Run", libp=0xb9c8b28, hash=309, p\_ifunc=0x84b2818, funcmatch=1, memfunc\_flag=1)  
at cint/src/v6\_ifunc.cxx:5118

#13 0xb72e1554 in G\_\_getfunction (item=0xb9d3336 "Run(0,nEvents)", known3=0xb9d18fc, memfunc\_flag=1) at cint/src/v6\_func.cxx:2511

#14 0xb73b6090 in G\_\_getstructmem (store\_var\_type=112, varname=0xb9d11e8 "basiclibs", membername=0xb9d3336 "Run(0,nEvents)", tagname=0xb9d0fe8 "fRun", known2=0xb9d18fc, varglobal=0xb745c3a0, objptr=2) at cint/src/v6\_var.cxx:6562

#15 0xb73a8ffd in G\_\_getvariable (item=0xb9d3330 "fRun->Run(0,nEvents)", known2=0xb9d18fc, varglobal=0xb745c3a0, varlocal=0x0) at cint/src/v6\_var.cxx:5206

#16 0xb72af2b2 in G\_\_getitem (item=0xb9d3330 "fRun->Run(0,nEvents)") at cint/src/v6\_expr.cxx:1884

#17 0xb72c2453 in G\_\_getexpr (expression=0xb9d396c "fRun->Run(0,nEvents)") at

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cint/src/v6_expr.cxx:1470
#18 0xb733cd31 in G__exec_function (statement=0xbff9d396c "fRun->Run(0,nEvents)",
pc=0xbff9d4008, piout=0xbff9d4004, plargestep=0xbff9d3ffc, presult=0xbff9d3fb8)
    at cint/src/v6_parse.cxx:598
#19 0xb7343d6f in G__exec_statement (mparen=0xbff9daeb8) at cint/src/v6_parse.cxx:6923
#20 0xb7298000 in G__exec_tempfile_core (file=0xbff9dcfac
"/home/ralfk/Pandaroot/pandaroot/macro/geane./runDIGI2.C", fp=0x0) at
cint/src/v6_debug.cxx:251
#21 0xb729833d in G__exec_tempfile (file=0xbff9dcfac
"/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=0xbff9dde68, rslt=0xbff9dde38) at cint/src/v6_pause.cxx:3070
#23 0xb79a80f9 in TCint::ProcessLine (this=0x80cc970, line=0xb7edf74d "_20", error=0xbff9e0674) at meta/src/TCint.cxx:289
#24 0xb79a25bc in TCint::ProcessLineSynch (this=0x80cc970, line=0xb7edf74d "_20", error=0xbff9e0674) at meta/src/TCint.cxx:354
#25 0xb78ea532 in TApplication::ExecuteFile (file=0xbff9de59d "runDIGI2.C", error=0xbff9e0674) at base/src/TApplication.cxx:898
#26 0xb78ea704 in TApplication::ProcessFile (this=0x80eae90, file=0xbff9de59d "runDIGI2.C", error=0xbff9e0674) at base/src/TApplication.cxx:787
#27 0xb78ecaeb in TApplication::ProcessLine (this=0x80eae90, line=0xbff9de59a ".x runDIGI2.C", sync=false, err=0xbff9e0674) 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=0xbff9e0784) at main/src/rmain.cxx:29
(gdb) list
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);
(gdb)

```

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.

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