Subject: running problem in rev. 3247
Posted by Ralf Kliemt on Tue, 22 Jul 2008 09:31:46 GMT
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Well hello everybody.

I found the svn trunk to be not running the macro/run/run_sim1.C
It is probably since the changes were done. I used rev. 3247.

output before(gdb) run
Starting program: /data_hilbert/Software/fairroot/fairsoft_140308/tools/root_v5.18.00/bin/root.exe run_sim1.C
Failed to read a valid object file image from memory.
[Thread debugging using libthread_db enabled]
[New Thread -1224066272 (LWP 22867)]

```
 ****************************************
 *                                      *
 *       W E L C O M E  to  R O O T     *
 *                                      *
 *   Version   5.18/00   16 January 2008   *
 *                                      *
 *  You are welcome to visit our Web site  *
 *          http://root.cern.ch           *
 *                                      *
 ****************************************
```

ROOT 5.18/00 (trunk@21744, Apr 08 2008, 16:39:00 on linux)

CINT/ROOT C/C++ Interpreter version 5.16.29, Jan 08, 2008
Type ? for help. Commands must be C++ statements.
Enclose multiple statements between { }.
using .rootlogon.C from the home of the ralfk
using .rootlogon.C from the home of the ralfk
root [0]
Processing run_sim1.C...
- RTDB container factory CbmBaseContFact

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

- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact
- RTDB container factory PndSttContFact
- RTDB container factory PndMdtContFact
- RTDB container factory PndEmcContFact
- RTDB container factory PndTofContFact
- RTDB container factory PndDrcContFact
- RTDB container factory PndTpcContFact
- RTDB container factory PndDchContFact
- RTDB container factory PndMvdContFact
-I- CbmRun::SetMaterials() Media file used:
/home/ralfk/Pandaroot/pandaroot/geometry/media_pnd.geo

```
============== CbmRunSim: Initialising simulation run ==============
Info in <TGeoManager::TGeoManager>: Geometry CBMGeom, CBM geometry created
-I- CbmGeoMedia  Read media
CbmRunSim::Init() create visualisation manager
-I- PndFieldMap: Reading field map from ROOT file
/home/ralfk/Pandaroot/pandaroot/input/TransMap.root
-I- PndFieldMap: Reading field map from ROOT file
/home/ralfk/Pandaroot/pandaroot/input/DipoleMap.root
-I- PndFieldMap: Reading field map from ROOT file
/home/ralfk/Pandaroot/pandaroot/input/SolenoidMap.root
Loading Geant3 libraries ...
Loading Geant3 libraries ... finished

 MZSTOR.  ZEBRA table base TAB(0) in /MZCC/ at adr   747075383    2C877737 HEX

 MZSTOR.  Initialize Store  0  in /GCBANK/
        with Store/Table at absolute adrs   747184725   747075383
                                  HEX    2C892255    2C877737
                                  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.
Physics cuts with script
 /home/ralfk/Pandaroot/pandaroot/gconfig/SetCuts.C
SetCuts Macro: Setting Processes..
SetCuts Macro: Setting cuts..
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Material aluminium is not defined
Create Medium aluminium
Material iron is not defined
Create Medium iron
 --- Building TPC Geometry ---
Material silicon is not defined
Create Medium silicon
Material carbon is not defined
Create Medium carbon

 ====== EMC::  ConstructASCIIGeometry() ======
 ============================================
```

```
PndEmcReader: EMC geometry file ==
/home/ralfk/Pandaroot/pandaroot/geometry/emc_module1245.dat
Emc module = 1
********
Emc module = 2
********
Emc module = 3
********
Emc module = 4
********
Emc module = 5
********

 ====== EMC::  ConstructRootGeometry() ======
 ============================================
File name = /home/ralfk/Pandaroot/pandaroot/geometry/emc_module3new.root

 =======  DRC::  ConstructGeometry()  ========
 ============================================
Info in <TGeoManager::CheckGeometry>: Fixing runtime shapes...
Info in <TGeoManager::CheckGeometry>: ...Nothing to fix
Info in <TGeoManager::CloseGeometry>: Counting nodes...
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CloseGeometry>: Building cache...
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::CloseGeometry>: 465314 nodes/ 1251 volume UID's in CBM geometry
Info in <TGeoManager::CloseGeometry>: ----------------modeler ready----------------
Material DCHmixture is not defined
Create Medium DCHmixture
Material DCHmixturePassive is not defined
Create Medium DCHmixturePassive
CbmMCApplication::ConstructGeometry() : Now closing the geometry
Warning in <TGeoManager::CloseGeometry>: geometry already closed
 -I- Initializing PndMvdDetector()
 -I container name PndGeoEmcPar
 -I- CbmMCApplication ->  simulation RunID:  755748126

 Calculating cross section tables, see gphysi.dat for more information

 Cross section calculation concluded successfully
 -I- CbmMCApplication:: Monte carlo Engine Initialisation  with TGeant3TGeo
create PndFieldPar container PndMultiFieldPar
create PndFieldPar container PndTransPar
create PndFieldPar container PndDipolePar
create PndFieldPar container PndSolenoidPar
Warning in <TStreamerInfo::BuildCheck>:
   The StreamerInfo of class PndTpcDetector read from file testparams.root
   has the same version (=1) as the active class but a different checksum.
   You should update the version to ClassDef(PndTpcDetector,2).
   Do not try to write objects with the current class definition,
   the files will not be readable.
```

Warning in <TClass::TClass>: no dictionary for class PndMuo is available
Warning in <TClass::TClass>: no dictionary for class PndGeoMuoPar is available
Warning in <TStreamerInfo::BuildCheck>:
  The StreamerInfo of class PndDrc read from file testparams.root
  has the same version (=2) as the active class but a different checksum.
  You should update the version to ClassDef(PndDrc,3).
  Do not try to write objects with the current class definition,
  the files will not be readable.

Warning in <TStreamerInfo::BuildCheck>:
  The StreamerInfo of class PndDchDetector read from file testparams.root
  has the same version (=1) as the active class but a different checksum.
  You should update the version to ClassDef(PndDchDetector,2).
  Do not try to write objects with the current class definition,
  the files will not be readable.

suspicious messages
RuntimeDb: write container CbmBaseParSet
Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fcharge type 108 (Double_t) is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fmass type 108 (Double_t) is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fflag type 118 (Bool_t) is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fpdgCode type 103 (Int_t) is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fTheta type 108 (Double_t) is not supported yet

Error in <TStreamerInfo::WriteBuffer>: The element PndDrc::fPhi type 108 (Double_t) is not supported yet

further text
*** CbmBaseParSet written to ROOT file   version: 3
RuntimeDb: write container PndGeoPassivePar
*** PndGeoPassivePar written to ROOT file   version: 3
RuntimeDb: write container PndTpcGeoPar
*** PndTpcGeoPar written to ROOT file   version: 3
RuntimeDb: write container PndGeoTofPar
*** PndGeoTofPar written to ROOT file   version: 3
RuntimeDb: write container PndGeoEmcPar
RuntimeDb: write container PndGeoDrcPar
RuntimeDb: write container PndGeoMdtPar
RuntimeDb: write container PndMultiFieldPar
*** PndMultiFieldPar written to ROOT file   version: 3
RuntimeDb: write container PndTransPar
RuntimeDb: write container PndDipolePar
RuntimeDb: write container PndSolenoidPar

```
 ------------------------------------------------------------------------ --------
-------------  actual containers in runtime database  -------------------------
CbmBaseParSet                            Test class for parameter io
PndGeoPassivePar                          Passive Geometry Parameters
PndTpcGeoPar                             PndTpc Geometry Parameters
PndGeoTofPar                             tof Geometry Parameters
PndGeoEmcPar                              Emc Geometry Parameters
PndGeoDrcPar                             Drc Geometry Parameters
PndGeoMdtPar                              MDT Geometry Parameters
PndMultiFieldPar                         Multiple Field parameter container
PndTransPar                              Trans. Field parameter container
PndDipolePar                             Dipole Field parameter container
PndSolenoidPar                            Solenoid Field parameter container
-------------  runs, versions  ----------------------------------------------
run id
  container                              1st-inp    2nd-inp    output
run: 755748126
  CbmBaseParSet                            755748126        -1         3
  PndGeoPassivePar                          755748126        -1         3
  PndTpcGeoPar                             755748126        -1         3
  PndGeoTofPar                             755748126        -1         3
  PndGeoEmcPar                                -1        -1         0
  PndGeoDrcPar                               -1        -1         0
  PndGeoMdtPar                               -1        -1         0
  PndMultiFieldPar                         755748126        -1         3
  PndTransPar                              755748126        -1         0
  PndDipolePar                             755748126        -1         0
  PndSolenoidPar                            755748126        -1         0
-------------  input/output  ------------------------------------------------
first input: none
second input: none
output:
OBJ: CbmParRootFile     testparams.root  : 0 at: 0xbc56a00
Root file I/O testparams.root is open
detector I/Os:  CbmGenericParIo
 **** GTRIGI: IEVENT=      1 IDEVT=      1 Random Seeds =       4357          0
CbmMCApplication::GeneratePrimaries()

gdb bactrace output
-I CbmPrimaryGenerator: 10 primary tracks from vertex (0, 0, 0)Event Time = 0(ns)

Program received signal SIGFPE, Arithmetic exception.
[Switching to Thread -1224066272 (LWP 22867)]
0xb722fe5e in __ieee754_acos () from /lib/libm.so.6
(gdb) bt
#0  0xb722fe5e in __ieee754_acos () from /lib/libm.so.6
#1  0xb72338e0 in acos () from /lib/libm.so.6
#2  0xb4434a59 in PndDrc::ProcessHits (this=0x8567fc0, vol=0xbc45950) at
/home/ralfk/Pandaroot/pandaroot/drc/PndDrc.cxx:332
#3  0xb4bad369 in CbmMCApplication::Stepping (this=0x85b8f58) at
/home/ralfk/Pandaroot/pandaroot/base/CbmMCApplication.cxx:338
#4  0xb1f19a67 in gustep_ () at TGeant3/TGeant3gu.cxx:700
```

#5 0xb1dba3db in g3track_ () at gtrak/gtrack.F:222
#6 0xb1f19ab7 in gutrak_ () at TGeant3/TGeant3gu.cxx:555
#7 0xb1dbb4b0 in gtreveroot_ () at gtrak/gtreveroot.F:168
#8 0xb1f19a87 in gutrev_ () at TGeant3/TGeant3gu.cxx:575
#9 0xb1ca97c8 in g3trig_ () at gbase/gtrig.F:62
#10 0xb1f0ec67 in TGeant3::Gtrig (this=0x86d4a48) at TGeant3/TGeant3.cxx:3153
#11 0xb1f0b20b in TGeant3::ProcessEvent (this=0x86d4a48) at TGeant3/TGeant3.cxx:6256
#12 0xb1f0ff5c in TGeant3::ProcessRun (this=0x86d4a48, nevent=<value optimized out>) at
TGeant3/TGeant3.cxx:6226
#13 0xb4badb93 in CbmMCApplication::RunMC (this=0x85b8f58, nofEvents=10) at
/home/ralfk/Pandaroot/pandaroot/base/CbmMCApplication.cxx:216
#14 0xb4bc16a1 in CbmRunSim::Run (this=0x851b050, NStart=10, NStop=0) at
/home/ralfk/Pandaroot/pandaroot/base/CbmRunSim.cxx:177
#15 0xb4c016b7 in G__CbmDict_532_0_5 (result7=0xbff76b3c, funcname=0x8519840 "\001",
libp=0xbff73098, hash=0) at /home/ralfk/Pandaroot/build/base/CbmDict.cxx:9237
#16 0xb74005fb in Cint::G__ExceptionWrapper (funcp=0xb4c01556 <G__CbmDict_532_0_5>,
result7=0xbff76b3c, funcname=0x8519840 "\001", libp=0xbff73098, hash=0) at
cint/src/Api.cxx:364
#17 0xb751087a in G__call_cppfunc (result7=0xbff76b3c, libp=0xbff73098, ifunc=0x8519840,
ifn=0) at cint/src/v6_newlink.cxx:512
#18 0xb74d7855 in G__interpret_func (result7=0xbff76b3c, funcname=0xbff7663c "Run",
libp=0xbff73098, hash=309, p_ifunc=0x8519840, funcmatch=1, memfunc_flag=1)
    at cint/src/v6_ifunc.cxx:5133
#19 0xb74c6e9e in G__getfunction (item=0xbff7a616 "Run(nEvents)", known3=0xbff78bdc,
memfunc_flag=1) at cint/src/v6_func.cxx:2517
#20 0xb759e6d8 in G__getstructmem (store_var_type=112, varname=0xbff78020

known2=0xbff78bdc,
    varglobal=0xb76443a0, objptr=2) at cint/src/v6_var.cxx:6606
#21 0xb758f496 in G__getvariable (item=0xbff7a610 "fRun->Run(nEvents)",
known=0xbff78bdc, varglobal=0xb76443a0, varlocal=0x0) at cint/src/v6_var.cxx:5237
#22 0xb7494bde in G__getitem (item=0xbff7a610 "fRun->Run(nEvents)") at
cint/src/v6_expr.cxx:1884
#23 0xb74a7d7f in G__getexpr (expression=0xbff7ac48 "fRun->Run(nEvents)") at
cint/src/v6_expr.cxx:1470
#24 0xb7522d09 in G__exec_function (statement=0xbff7ac48 "fRun->Run(nEvents)",
pc=0xbff7b22c, piout=0xbff7b228, plargestep=0xbff7b220, presult=0xbff7b1dc)
    at cint/src/v6_parse.cxx:600
#25 0xb7529f84 in G__exec_statement (mparen=0xbff820e8) at cint/src/v6_parse.cxx:6995
#26 0xb747d8d0 in G__exec_tempfile_core (file=0xbff841dc
"/home/ralfk/Pandaroot/pandaroot/macro/run/./run_sim1.C", fp=0x0) at
cint/src/v6_debug.cxx:251
#27 0xb747dc0d in G__exec_tempfile (file=0xbff841dc
"/home/ralfk/Pandaroot/pandaroot/macro/run/./run_sim1.C") at cint/src/v6_debug.cxx:798
#28 0xb753c64e in G__process_cmd (line=0xb7f2a72e "int_]", prompt=0x80cd52c "",
more=0x80cd524, err=0xbff84e98, rslt=0xbff84e68) at cint/src/v6_pause.cxx:3070
#29 0xb79ebc93 in TCint::ProcessLine (this=0x80cd508, line=0xb7f2a72e "int_]",
error=0xbff876a8) at meta/src/TCint.cxx:300
#30 0xb79e60dc in TCint::ProcessLineSynch (this=0x80cd508, line=0xb7f2a72e "int_]",
error=0xbff876a8) at meta/src/TCint.cxx:365
#31 0xb792d326 in TApplication::ExecuteFile (file=0xbff855d1 "run_sim1.C",
error=0xbff876a8) at base/src/TApplication.cxx:921

#32 0xb792d4f8 in TApplication::ProcessFile (this=0x80e8258, file=0xbff855d1 "run_sim1.C", error=0xbff876a8) at base/src/TApplication.cxx:810
#33 0xb792faff in TApplication::ProcessLine (this=0x80e8258, line=0xbff855ce ".x run_sim1.C", sync=false, err=0xbff876a8) at base/src/TApplication.cxx:783
#34 0xb7370d59 in TRint::Run (this=0x80e8258, retrn=false) at rint/src/TRint.cxx:354
#35 0x08048e49 in main (argc=1, argv=0xbff877c4) at main/src/rmain.cxx:29
(gdb)

Cheers for bugfixes,
Ralf.