Subject: problem when running statistics larger than 2 000 events
Posted by Jerome Boucher on Fri, 17 Oct 2008 14:03:40 GMT
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Hi everybody!

I'm generating events with the macro: run_sim_tpccombi_pgun.C, then I use the macro run_digi_tpccombi.C and finally run_reco_tpccombi.C.

I've done simulation generating up to 1 000 events for different particles (pions, electrons, muons, gammas, ...) and energy ranges (up to 15Gev/c) without problems. So I wanted to increase the statistics to 10 000 events.

Here comes the problem:
I've run the first macro with 10 000 muons of 1Gev/c. It finished normally. Then I ran the run_digi_tpccombi.C and it crashed. I've tried for different numbers of events and I've obtained always the same error. In my case the limit is more or less 2 000 events. Above this limit the second macro stops each time with the following message (also in attached file):

ROOT 5.20/00 (trunk@24524, Sep 04 2008, 12:06:00 on linuxx8664gcc)

CINT/ROOT C/C++ Interpreter version 5.16.29, Jan 08, 2008
Type ? for help. Commands must be C++ statements.
Enclose multiple statements between { }.
- RTDB container factory CbmBaseContFact
- RTDB container factory PndFieldContFact
- RTDB container factory PndPassiveContFact

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

- RTDB container factory PndSttContFact
- RTDB container factory PndEmcContFact
- RTDB container factory PndTpcContFact
- RTDB container factory PndMvdContFact
- RTDB container factory PndTofContFact
- RTDB container factory PndDrcContFact
- RTDB container factory PndMdtContFact
- RTDB container factory PndDchContFact
- RTDB container factory PndLheContFact
root [0]
Processing run_digi_tpccombi.C...
Note: File "/vol0/home2/boucher_loc/soft/buildPanda/lib/libDrc.so" already loaded
-I- CbmRunAna: Opening Input file: points_tpccombi.root

-I- CbmRunAna::Init :
points_tpccombi.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>: 464550 nodes/ 1282 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
PndTpcClusterizerTask::SetParContainers
PndTpcDriftTask::SetParContainers
PndTpcGemTask::SetParContainers
PndTpcPadResponseTask::SetParContainers
PndTpcElectronicsTask::SetParContainers
PndTpcClusterFinderTask::SetParContainers
 -I container name PndEmcDigiPar
 -I container name PndEmcRecoPar

************************************************************
    initialisation for run id 347460271
************************************************************

 *** Break *** segmentation violation
Using host libthread_db library "/lib64/libthread_db.so.1".
Attaching to program: /proc/9524/exe, process 9524
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/96/c005fcc474ab8b0d1aa41267111de2f0b647b0.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/64/ce37a1b7ee7ce1c23dcfe9344cbb361c321b8f.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/72/0ad477c75be7d7cbc97c0a6f443746dda98341.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/91/f8d452c6cc80573296b2bbb28a1dd076b0507f.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/e8/abaa654dc4b17b75c06c866898a17ea06f2bcf.debug
done.
[Thread debugging using libthread_db enabled]
[New Thread 139725682149120 (LWP 9524)]
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/ea/5b2fb654311e2dc8beacf2f19c1c6d172ba93d.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/9a/49e1d215d41e033813a1bbbf62c7c160754b78.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/fa/841219472d35412ad631ad0f0fabb78e5c1957.debug
done.
Try: yum --enablerepo='*-debuginfo' install
```

/usr/lib/debug/.build-id/c1/8f4feceb846cc1f5353fd9bf2dead28a8c19e7.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/f9/a87dac1712fade1569dca237e8384e02ba952c.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/5c/a8a05c48617a1c4a32acda9f5651f78b4fe005.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/73/f6ec959fe5cbcddbd9854802fb7013d30aa1ae.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/4e/a27614c91c73ae57ffb4f8310b831355782153.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/0a/cc0e01bf3e954ee01a8ce7eea78c8dd601375d.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/3e/8c340b7e8af36a4cdcc899c4b43e7c8ba87752.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/86/deb4b58dafde62d0b486e3ae1aa33585e5ba14.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/8d/27629eab3703a1b3c02c846b1dc2ebb0b856b7.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/38/699c1e33e43a3e7a1e612e885f8e96d7b4e929.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/4e/013d1f6ea6df2ce9372800ced749434b94c95d.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/0c/3c55b2f32bf731379eb595b06e3d97d8f2a72a.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/95/aaf78f8e9277450782063986aeb0aede0e2fb3.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/09/6ec9eec08d728dd9009ba302d81a197cae89fb.debug
done.
Try: yum --enablerepo='*-debuginfo' install
/usr/lib/debug/.build-id/ce/4b422a4a51c6274c22d7416e881110508daf19.debug
done.
0x0000003ba1a9a835 in waitpid () from /lib64/libc.so.6
#1 0x0000003ba1a3ce39 in do_system () from /lib64/libc.so.6
#2 0x00000000008aa2cd in TUnixSystem::Exec (this=0x127acd0,
#3 0x00000000008a97f1 in TUnixSystem::StackTrace (this=0x127acd0) at
core/unix/src/TUnixSystem.cxx:2121
#4 0x00000000008ac60d in TUnixSystem::DispatchSignals (this=0x127acd0,
sig=kSigSegmentationViolation) at core/unix/src/TUnixSystem.cxx:1089
#5 0x00000000008ac731 in SigHandler (sig=kSigSegmentationViolation) at

core/unix/src/TUnixSystem.cxx:351
#6 0x00000000008a305b in sighandler (sig=11) at core/unix/src/TUnixSystem.cxx:3344
#7 <signal handler called>
#8 0x00007f1463b514b5 in delete_PndGeoEmcPar (p=0xc94e3205205c053e) at
/vol0/home2/boucher_loc/soft/buildPanda/emc/PndEmcDict.cxx:2811
#9 0x0000000000860485 in TClass::Destructor (this=0x20436d0, obj=0xc94e3205205c053e,
dtorOnly=false) at core/meta/src/TClass.cxx:3437
#10 0x00007f146b663f3f in TBufferFile::ReadFastArray (this=0x2df08d0, start=0x2e8d4d0,
cl=0x20436d0, n=1, isPreAlloc=false, streamer=0x0)
    at io/io/src/TBufferFile.cxx:1462
#11 0x00007f146b74221a in TStreamerInfo::ReadBuffer<char**> (this=0x201d6f0,
b=@0x2df08d0, arr=@0x7fff74ab49d0, first=0, narr=1, eoffset=0,
    arrayMode=0) at io/io/src/TStreamerInfoReadBuffer.cxx:911
#12 0x00007f146b660ab9 in TBufferFile::ReadClassBuffer (this=0x2df08d0, cl=0x203cc70,
pointer=0x2e8d460) at io/io/src/TBufferFile.cxx:3327
#13 0x00007f1463b63e7c in PndEmc::Streamer (this=0x2e8d460, R(bool)=@0x2df08d0) at
/vol0/home2/boucher_loc/soft/buildPanda/emc/PndEmcDict.cxx:2626
#14 0x000000000086634d in TClass::Streamer (this=0x203cc70, object=0x2e8d460,
b=@0x2df08d0) at core/meta/src/TClass.cxx:4343
#15 0x00007f146b663b05 in TBufferFile::ReadObjectAny (this=0x2df08d0, clCast=0x17d77f0)
at io/io/src/TBufferFile.cxx:2250
#16 0x000000000085280d in TObjArray::Streamer (this=0x2e2b550, b=@0x2df08d0) at
core/cont/src/TObjArray.cxx:393
#17 0x000000000086634d in TClass::Streamer (this=0x1b6a870, object=0x2e2b550,
b=@0x2df08d0) at core/meta/src/TClass.cxx:4343
#18 0x00007f146b663b05 in TBufferFile::ReadObjectAny (this=0x2df08d0, clCast=0x1b6a870)
at io/io/src/TBufferFile.cxx:2250
#19 0x00007f146b6b3185 in operator>><TObjArray> (buf=@0x2df08d0, obj=@0x2df07c0) at
include/TBuffer.h:348
#20 0x00007f146523d19d in CbmBaseParSet::Streamer (this=0x2df0740,
R(bool)=@0x2df08d0)
    at /vol0/home2/boucher_loc/soft/buildPanda/base/CbmDict.cxx:2057
#21 0x00007f146b6978ad in TKey::Read (this=0x1f825d0, obj=0x2df0740) at
io/io/src/TKey.cxx:1079
#22 0x00007f146549f1bf in CbmDetParRootFileIo::read (this=0x202edf0, pPar=0x2df0740)
    at /vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmDetParRootFileIo.cxx:5 3
#23 0x00007f14654a1d4b in CbmGenericParRootFileIo::init (this=0x202edf0,
pPar=0x2df0740)
    at /vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmGenericParRootFileIo.c xx:25
#24 0x00007f14654a28da in CbmParGenericSet::init (this=0x2df0740, inp=0x1f7f090)
    at /vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmParGenericSet.cxx:37
#25 0x00007f14654a4705 in CbmParSet::init (this=0x2df0740) at
/vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmParSet.cxx:43
#26 0x00007f14654ac8ed in CbmRuntimeDb::initContainers (this=0x19f2430) at
/vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmRuntimeDb.cxx:393
#27 0x00007f14654ad548 in CbmRuntimeDb::initContainers (this=0x19f2430,
runId=347460271, refId=-1, fileName=0x7f1465244940 "")
    at /vol0/home2/boucher_loc/soft/pandaroot/parbase/CbmRuntimeDb.cxx:344
#28 0x00007f14651cb56e in CbmRunAna::Init (this=0x1b5fa40) at
/vol0/home2/boucher_loc/soft/pandaroot/base/CbmRunAna.cxx:130
#29 0x00007f1465209257 in G__CbmDict_531_0_4 (result7=0x7fff74abd0a0,
funcname=0x1b5a020 "\001", libp=0x7fff74ab6890, hash=0)

at /vol0/home2/boucher_loc/soft/buildPanda/base/CbmDict.cxx:9228
#30 0x00007f146beb824b in Cint::G__ExceptionWrapper (funcp=0x7f146520922a <G__CbmDict_531_0_4>, result7=0x7fff74abd0a0, funcname=0x1b5a020 "\001", libp=0x7fff74ab6890, hash=0) at cint/cint/src/Api.cxx:364
#31 0x00007f146bf9ee33 in G__execute_call (result7=0x7fff74abd0a0, libp=0x7fff74ab6890, ifunc=0x1b5a020, ifn=0) at cint/cint/src/newlink.cxx:2305
#32 0x00007f146bfa4263 in G__call_cppfunc (result7=0x7fff74abd0a0, libp=0x7fff74ab6890, ifunc=0x1b5a020, ifn=0) at cint/cint/src/newlink.cxx:2471
#33 0x00007f146bf60c0b in G__interpret_func (result7=0x7fff74abd0a0, funcname=0x7fff74abcaa0 "Init", libp=0x7fff74ab6890, hash=404, p_ifunc=0x1b5a020, funcmatch=1, memfunc_flag=1) at cint/cint/src/ifunc.cxx:5245
#34 0x00007f146bf4e77d in G__getfunction (item=0x7fff74ac2936 "Init()", known3=0x7fff74ac0398, memfunc_flag=1) at cint/cint/src/func.cxx:2534
#35 0x00007f146c052167 in G__getstructmem (store_var_type=112, varname=0x7fff74abf440 "timer", membername=0x7fff74ac2936 "Init()", tagname=0x7fff74abf640 "fRun", known2=0x7fff74ac0398, varglobal=0x7f146c3236a0, the problem objptr=2) at cint/cint/src/var.cxx:6623
#36 0x00007f146c0412cd in G__getvariable (item=0x7fff74ac2930 "fRun->Init()", known=0x7fff74ac0398, varglobal=0x7f146c3236a0, varlocal=0x0) at cint/cint/src/var.cxx:5252
#37 0x00007f146bf17538 in G__getitem (item=0x7fff74ac2930 "fRun->Init()") at cint/cint/src/expr.cxx:1884
#38 0x00007f146bf2bbb9 in G__getexpr (expression=0x7fff74ac31e0 "fRun->Init()") at cint/cint/src/expr.cxx:1470
#39 0x00007f146bfb6fc0 in G__exec_function (statement=0x7fff74ac31e0 "fRun->Init()", pc=0x7fff74ac396c, piout=0x7fff74ac3968, plargestep=0x7fff74ac3960, presult=0x7fff74ac38f0) at cint/cint/src/parse.cxx:601
#40 0x00007f146bfbf053 in G__exec_statement (mparen=0x7fff74ad04ec) at cint/cint/src/parse.cxx:6972
#41 0x00007f146beffda1 in G__exec_tempfile_core (file=0x7fff74ad2b70 " /vol0/home2/boucher_loc/soft/pandaroot/tutorials/lhetrack/./run_digi_tpc combi.C ", fp=0x0) at cint/cint/src/debug.cxx:251
#42 0x00007f146bf0015d in G__exec_tempfile (file=0x7fff74ad2b70 " /vol0/home2/boucher_loc/soft/pandaroot/tutorials/lhetrack/./run_digi_tpc combi.C ") at cint/cint/src/debug.cxx:798
#43 0x00007f146bfd20e7 in G__process_cmd (line=0xf94581 "l_54", prompt=0x127eac8 "", more=0x127eac0, err=0x7fff74ad3bfc, rslt=0x7fff74ad3b90) at cint/cint/src/pause.cxx:3074
#44 0x00000000008976f1 in TCint::ProcessLine (this=0x127ea90, line=0xf94581 "l_54", error=0x7fff74ad65c4) at core/meta/src/TCint.cxx:339
#45 0x000000000088e7a8 in TCint::ProcessLineSynch (this=0x127ea90, line=0xf94581 "l_54", error=0x7fff74ad65c4) at core/meta/src/TCint.cxx:406
#46 0x000000000079ea7b in TApplication::ExecuteFile (file=0x7fff74ad4573 "run_digi_tpccombi.C", error=0x7fff74ad65c4) at core/base/src/TApplication.cxx:936
#47 0x000000000079ec5f in TApplication::ProcessFile (this=0x12b1880, file=0x7fff74ad4573 "run_digi_tpccombi.C", error=0x7fff74ad65c4) at core/base/src/TApplication.cxx:825
#48 0x00000000007a1452 in TApplication::ProcessLine (this=0x12b1880, line=0x7fff74ad4570 ".x run_digi_tpccombi.C", sync=false, err=0x7fff74ad65c4) at core/base/src/TApplication.cxx:798

#49 0x0000000000121ab4 in TRint::Run (this=0x12b1880, retrn=false) at core/rint/src/TRint.cxx:355
#50 0x00000000004010da in main (argc=1, argv=0x7fff74ad6748) at main/src/rmain.cxx:29
The program is running. Quit anyway (and detach it)? (y or n) [answered Y; input not from terminal]
Detaching from program: /proc/9524/exe, process 9524
Root > .q

Is there an event limit in the run_digi_tpccombi.C macro? Did someone already have this problem?

Thanks,

jerome

File Attachments

1) error.txt, downloaded 565 times