Subject: Analysis for Material Radiation length
Posted by Ajay Kumar on Wed, 21 Nov 2012 14:20:27 GMT
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Hi All,

I have to do radiation length analysis as a part of my work,for that I have followed following link which is suggested by Artem Basalaev in the forum.

https://forum.gsi.de/index.php?t=msg&goto=13440&rid=1765&S=53e3e1de6f2611aad37bcc2a6e0ddda2#msg_13440

Initially I had some error related TGeoManager looked like as

Error: illegal pointer to class object geoman 0x0 2423

Than I read some discussion on similar topic at link:-
https://forum.gsi.de/index.php?t=msg&goto=10664&rid=1765&S=53e3e1de6f2611aad37bcc2a6e0ddda2&srch=geoMan#msg_10664

And added parameter file in ana macro as instructed in discusssion. but after this I have another problem which I could not solve.
Error msg is like as:-
ajay@iitind01-Vostro-1014:~/pandaroot/macro/mvd/ana$ root -l radanaduplicate.C
root [0]
Processing radanaduplicate.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
Info in <TGeoManager::CloseGeometry>: Geometry loaded from file...
Info in <TGeoManager::SetTopVolume>: Top volume is cave. Master volume is cave
Info in <TGeoNavigator::BuildCache>: --- Maximum geometry depth set to 100
Info in <TGeoManager::Voxelize>: Voxelizing...
Info in <TGeoManager::CountLevels>: max level = 12, max placements = 504
Info in <TGeoManager::CloseGeometry>: 111370 nodes/ 1976 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------modeler ready----------
Warning in <TGeoManager::Init>: Deleting previous geometry: FAIRGeom/FAIR geometry
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 <TGeoManager::CountLevels>: max level = 12, max placements = 504
Info in <TGeoManager::CloseGeometry>: 111370 nodes/ 1976 volume UID's in FAIR geometry
Info in <TGeoManager::CloseGeometry>: ----------modeler ready----------

*** Break *** segmentation violation

==========

There was a crash.
This is the entire stack trace of all threads:
==========
#0 0x00007f38c015b0ee in waitpid () from /lib/x86_64-linux-gnu/libc.so.6
#1 0x00007f38c00ede8e in ?? () from /lib/x86_64-linux-gnu/libc.so.6
#2 0x00007f38c100b1a7 in TUnixSystem::StackTrace() () from
/home/ajay/fairsoft/lib/root/libCore.so.5.34
#3 0x00007f38c100d303 in TUnixSystem::DispatchSignals(ESignals) () from
/home/ajay/fairsoft/lib/root/libCore.so.5.34
#4 <signal handler called>
#5 0x00007f38baa6b6dd in TGeoNavigator::FindNode(double, double, double) () from
/home/ajay/fairsoft/lib/root/libGeom.so
#6 0x00007f38bab2fc7f in G__G__Geom1_198_0_159(G__value*, char const*, G__param*,
int) () from /home/ajay/fairsoft/lib/root/libGeom.so
#7 0x00007f38bf3266a6 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
#8 0x00007f38bf3c9d31 in G__execute_call () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#9 0x00007f38bf3ca130 in G__call_cppfunc () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#10 0x00007f38bf3aa7f2 in G__interpret_func () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#11 0x00007f38bf396d28 in G__getfunction () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#12 0x00007f38bf47ef93 in G__getstructmem(int, G__FastAllocString&, char*, int, char*, int*,
G__var_array*, int) () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#13 0x00007f38bf4789e0 in G__getvariable () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#14 0x00007f38bf372a32 in G__getitem () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#15 0x00007f38bf37940f in G__getexpr () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#16 0x00007f38bf3649bb in G__define_var () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#17 0x00007f38bf3f7036 in G__exec_statement () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#18 0x00007f38bf400542 in G__exec_loop () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#19 0x00007f38bf3fcd7a in G__exec_statement () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#20 0x00007f38bf400542 in G__exec_loop () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#21 0x00007f38bf3fcd7a in G__exec_statement () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#22 0x00007f38bf400542 in G__exec_loop () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#23 0x00007f38bf3fcd7a in G__exec_statement () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#24 0x00007f38bf3a8d09 in G__interpret_func () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#25 0x00007f38bf396fba in G__getfunction () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#26 0x00007f38bf3731a1 in G__getitem () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#27 0x00007f38bf37940f in G__getexpr () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#28 0x00007f38bf382e4c in G__calc_internal () from /home/ajay/fairsoft/lib/root/libCint.so.5.34
#29 0x00007f38bf406b69 in G__process_cmd () from
/home/ajay/fairsoft/lib/root/libCint.so.5.34
#30 0x00007f38c0fd6a7d in TCint::ProcessLine(char const*, TInterpreter::EErrorCode*) () from
/home/ajay/fairsoft/lib/root/libCore.so.5.34
#31 0x00007f38c0fcd463 in TCint::ProcessLineSynch(char const*, TInterpreter::EErrorCode*)
() from /home/ajay/fairsoft/lib/root/libCore.so.5.34
#32 0x00007f38c0f39998 in TApplication::ExecuteFile(char const*, int*, bool) () from
/home/ajay/fairsoft/lib/root/libCore.so.5.34

#33 0x00007f38c0f386db in TApplication::ProcessLine(char const*, bool, int*) () from /home/ajay/fairsoft/lib/root/libCore.so.5.34
#34 0x00007f38c0b8f60a in TRint::Run(bool) () from /home/ajay/fairsoft/lib/root/libRint.so.5.34
#35 0x000000000040105c in main ()
==========

The lines below might hint at the cause of the crash.
If they do not help you then please submit a bug report at
http://root.cern.ch/bugs. Please post the ENTIRE stack trace
from above as an attachment in addition to anything else
that might help us fixing this issue.
==========
#5 0x00007f38baa6b6dd in TGeoNavigator::FindNode(double, double, double) () from /home/ajay/fairsoft/lib/root/libGeom.so
==========

Root > Function radanaduplicate() busy flag cleared

Can anybody tell me what I should do to correct it?
I have attached my analysis macro here.

Thanks in advanse

File Attachments

1) radanaduplicate.C, downloaded 515 times