Subject: Re: Field maps in Macros
Posted by donghee on Thu, 18 Feb 2010 16:07:17 GMT
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Dear Panda Developers,

Since 2 months ago I have still trouble to run all scripts in Pandaroot under Ubuntu 8.04.2 hardy 32bit.
During the MC simulation, error message looks following.
Could somebody test it in virtual machine.
If you can give some comment ,any suggestion, and any semi-solution, then would be happy at this moment.
I guess that there are some kind of mishandling for memory in the function of SetFieldContainer
or too large/short memory allocation, especailly with 32bit OS.
The correct issues and indications for this problem are shown at the end of error message, but unfortunately I couldn't reach to get a solution with my poor knowledge of OS system.

I know already a simple solution.
Please, don't say something like this!
"Donghee, You can simply use 64bit or upgrade 8.04 to 8.10, that is already tested and properly, nicely working!, let's thinking about it!"
I know this that is a final solution. not right now!

I'm really sorry for my stupid question!
Best wishes,
Donghee

Quote:

```
*************************************************************
    initialisation for run id 1838244001
*************************************************************
```

FairRunSim::Init() create visualisation manager
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/TransMap.1500.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/DipoleMap1.1500.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/DipoleMap2.1500.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/SolenoidMap1.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/SolenoidMap2.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/SolenoidMap3.root
-I- PndFieldMap: Reading field map from ROOT file
/home/donghee/GSI/pandaroot/input/SolenoidMap4.root
create PndFieldPar container PndMultiFieldPar

create PndFieldPar container PndTransPar
create PndFieldPar container PndDipole1Par
create PndFieldPar container PndDipole2Par
create PndFieldPar container PndSolenoid1Par
create PndFieldPar container PndSolenoid2Par
create PndFieldPar container PndSolenoid3Par
create PndFieldPar container PndSolenoid4Par

 *** Break *** segmentation violation

===
There was a crash (#7 0xb7a336cd in SigHandler () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26).
This is the entire stack trace of all threads:
===
#0 0xb7fe0410 in __kernel_vsyscall ()
#1 0xb6ddb4d3 in waitpid () from /lib/tls/i686/cmov/libc.so.6
#2 0xb6d7e643 in ?? () from /lib/tls/i686/cmov/libc.so.6
#3 0xb6ea2d7d in system () from /lib/tls/i686/cmov/libpthread.so.0
#4 0xb7a2f54d in TUnixSystem::Exec () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#5 0xb7a36792 in TUnixSystem::StackTrace () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#6 0xb7a335e6 in TUnixSystem::DispatchSignals () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#7 0xb7a336cd in SigHandler () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#8 0xb7a2cd6d in sighandler () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#9 <signal handler called>
#10 0xb3f77ac4 in ROOT::Init68 () from /home/donghee/GSI/buildpanda/lib/libField.so
#11 0xb6fcad60 in ?? () from /usr/lib/libstdc++.so.6
#12 0xb41ce0b8 in FairRunSim::SetFieldContainer (this=0x88f0ad8) at
/home/donghee/GSI/pandaroot/base/FairRunSim.cxx:183
#13 0xb41d0b87 in FairRunSim::Init (this=0x88f0ad8) at
/home/donghee/GSI/pandaroot/base/FairRunSim.cxx:147
#14 0xb4206f23 in G__FairDict_669_0_4 (result7=0xbffa7e68, funcname=0x8160bb8 "\001",
libp=0xbff9d824, hash=0)
   at /home/donghee/GSI/buildpanda/base/FairDict.cxx:9090
#15 0xb7242655 in Cint::G__ExceptionWrapper () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#16 0xb72fa7d6 in G__execute_call () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#17 0xb72fd090 in G__call_cppfunc () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#18 0xb72d1da3 in G__interpret_func () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#19 0xb72be58a in G__getfunction () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#20 0xb73bf414 in G__getstructmem () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#21 0xb73b465e in G__getvariable () from

/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#22 0xb7292f2f in G__getitem () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#23 0xb7297d65 in G__getexpr () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#24 0xb732d42e in G__exec_statement () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#25 0xb72d41ee in G__interpret_func () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#26 0xb72be6ff in G__getfunction () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#27 0xb72934dd in G__getitem () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#28 0xb7297d65 in G__getexpr () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#29 0xb72a4cf2 in G__calc_internal () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#30 0xb733b2b7 in G__process_cmd () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCint.so.5.26
#31 0xb7a1ceb0 in TCint::ProcessLine () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#32 0xb7a1cb6f in TCint::ProcessLineSynch () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#33 0xb793f627 in TApplication::ExecuteFile () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#34 0xb793fc1c in TApplication::ProcessFile () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#35 0xb793cf5e in TApplication::ProcessLine () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libCore.so.5.26
#36 0xb6ff7cd4 in TRint::Run () from
/home/donghee/GSI/fairsoft_jan10/tools/root/lib/libRint.so.5.26
#37 0x08048eb5 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.
==
#10 0xb3f77ac4 in ROOT::Init68 () from /home/donghee/GSI/buildpanda/lib/libField.so
#11 0xb6fcad60 in ?? () from /usr/lib/libstdc++.so.6
#12 0xb41ce0b8 in FairRunSim::SetFieldContainer (this=0x88f0ad8) at
/home/donghee/GSI/pandaroot/base/FairRunSim.cxx:183
#13 0xb41d0b87 in FairRunSim::Init (this=0x88f0ad8) at
/home/donghee/GSI/pandaroot/base/FairRunSim.cxx:147
==