Subject: [FIXED] TransMap_Half.0406.root does not exist
Posted by Jennifer Pütz on Mon, 06 Jul 2015 12:09:01 GMT
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Hi everyone,

I tried to simulate 1000 events of pbar p -> Xi- + Xi+ with a beam momentum of 3 GeV/c using the standard sim_complete.C macro.
But the simulation breaks with the message

[INFO] PndFieldMap: Reading field map from ROOT file
/private/puetz/fairsoft_mar15/pandaroot.trunk/input/TransMap_Half.0406.r oot
Error in <TFile::TFile>: file
/private/puetz/fairsoft_mar15/pandaroot.trunk/input/TransMap_Half.0406.r oot does not exist
[ERROR] -E- PndFieldMap::ReadRootfile: Cannot read from file!
Fatal in <PndTransMap::ReadRootFile>: Cannot read from file

When I try to run the same number of events with a beam momentum of 2.99 GeV/c it works.
Is there a reason why the file does not exist?

I'm using:

FairSoft: Mar15
FairRoot: Master
PandaRoot: Trunk rev. 27984

Cheers

Jenny

File Attachments

1) error_transmap_half.png, downloaded 880 times

File Edit View Bookmarks Settings Help

```
EvtGen:Warning, sum of branching fractions for f_2 is 0.999
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for chi_c1 is 0.996
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for Upsilon(2S) is 0.992
EvtGen:rescaled to one!
EvtGen:Warning, sum of branching fractions for Upsilon(3S) is 0.999
EvtGen:rescaled to one!
EvtGen:Mixing type integer set to 1
EvtGen:Done initializing EvtGen
EvtGen:In readDecayFile, reading:/private/puetz/fairsoft_mar15/pandaroot/mysimulations/analysis/pbarp_Xip
EvtGen:As requested, PHOTOS will be turned off.
EvtGen:Redefined decay of Xi-
EvtGen:Redefined decay of anti-Xi+
EvtGen:Redefined decay of Lambda0
EvtGen:Redefined decay of anti-Lambda0
EvtGen:Given allowed decays, resetting minMass pbarpSystem 1.480 to 2.643

############### Generating with following conditions:

incident 4-mom : (4.082, 0, 0, 3.000), m = 2.768

############################


[INFO   ] ==============  FairRunSim: Initialising simulation run ==============
Info in <TGeoManager::TGeoManager>: Geometry FAIRGeom, FAIR geometry created
[INFO   ] FairGeoMedia: Read media
 -I container name PndEmcDigiPar
 -I container name PndEmcDigiNonuniformityPar

************************************************************
     initialisation for run id 1436183335
************************************************************
-I- FairRunTimeDB::InitContainer() PndEmcGeoPar
[ERROR  ] init() PndEmcGeoPar  not initialized
-I- FairRunTimeDB::InitContainer() PndSensorNamePar
[ERROR  ] init() PndSensorNamePar  not initialized
-I- FairRunTimeDB::InitContainer() PndEmcDigiPar
PndEmcDigiPar initialized from Ascii file
-I- FairRunTimeDB::InitContainer() PndEmcDigiNonuniformityPar
[ERROR  ] init() PndEmcDigiNonuniformityPar  not initialized
Error in <FairRuntimeDb::initContainers()>: Error occured during initialization
[INFO   ] PndFieldMap: Reading field map from ROOT file  /private/puetz/fairsoft_mar15/pandaroot.trunk/in
Error in <TFile::TFile>: file /private/puetz/fairsoft_mar15/pandaroot.trunk/input/TransMap_Half.0406.root
[ERROR  ] -E- PndFieldMap::ReadRootfile: Cannot read from file!
Fatal in <PndTransMap::ReadRootFile>: Cannot read from file
aborting
#0  0x00007f1933b41a5c in waitpid () from /lib64/libc.so.6
#1  0x00007f1933acc1fb in do_system () from /lib64/libc.so.6
#2  0x00007f19348ebac2 in TUnixSystem::Exec (this=0x26083b0, shellcmd=0x3bd72c0 "/private/puetz/fairsoft_
m.cxx:2172
#3  0x00007f19348ec32b in TUnixSystem::StackTrace (this=0x26083b0) at /private/puetz/fairsoft_mar15/tools
#4  0x00007f193483dfd1 in DefaultErrorHandler (level=6000, abort_bool=true, location=0x7f19352c3858 "PndT
192
#5  0x00007f193483e2e3 in ErrorHandler(Int_t, const char *, const char *, typedef __va_list_tag __va_list
848) at /private/puetz/fairsoft_mar15/tools/root/core/base/src/TError.cxx:247
#6  0x00007f19347db245 in TObject::DoError (this=0x3a6d440, level=6000, location=0x7f1920b09649 "ReadRoot
ect.cxx:869
#7  0x00007f19347db663 in TObject::Fatal (this=0x3a6d440, location=0x7f1920b09649 "ReadRootFile", fmt=0x7
#8  0x00007f1920abf990 in PndFieldMap::ReadRootFile (this=0x3a6d440, fileName=0x3ab0aa0 "/private/puetz/f
15/pandaroot.trunk/field/PndFieldMap.cxx:547
#9  0x00007f1920abcaa3 in PndFieldMap::Init (this=0x3a6d440) at /private/puetz/fairsoft_mar15/pandaroot.t
#10 0x00007f1920acb9eb in PndMultiField::Init (this=0x3aac6f0) at /private/puetz/fairsoft_mar15/pandaroot
#11 0x00007f192af6dca8 in FairRunSim::Init (this=0x33b79c0) at /private/puetz/fairsoft_mar15/FairRoot.Mas
#12 0x00007f192afdd6f5 in G__G__BaseDict_785_0_5 (result7=0x7fff72f6cab0, funcname=<optimized out>, libp=
#13 0x00007f19331ea242 in Cint::G__ExceptionWrapper (funcp=0x7f192afdd6e0 <G__G__BaseDict_785_0_5(G__valu
cxx:393
#14 0x00007f19331ed640 in G__execute_call (result7=0x7fff72f6cab0, libp=0x7fff72f6caf0, ifunc=0x33aff50,
#15 0x00007f19331edfe6 in G__call_cppfunc (result7=0x7fff72f6cab0, libp=0x7fff72f6caf0, ifunc=0x33aff50,
#16 0x00007f19331bc0d0 in G__interpret_func (result7=0x7fff72f6cab0, funcname=0x2daeb50 "Init", libp=0x7f
#17 0x00007f193328b9a0 in G__getfunction (item=0x2629d16 "Init()", known3=0x7fff72f78594, memfunc_flag=1)
#18 0x00007f19331a0a01 in G__getstructmem (store_var_type=112, varname=..., membername=0x2629d16 "Init()"
int/src/var.cxx:6821
#19 0x00007f193319123c in G__getvariable (item=0x2629d10 "fRun->Init()", known=0x7fff72f78594, varglobal=
#20 0x00007f193311ff10 in G__getitem (item=0x2629d10 "fRun->Init()") at cint/cint/src/expr.cxx:1906
#21 0x00007f193311d681 in G__getexpr (expression=0x26450f0 "fRun->Init()") at cint/cint/src/expr.cxx:1488
#22 0x00007f19331c7d80 in G__exec_function (statement=..., pc=0x7fff72f7ae8c, piout=0x7fff72f7ae88, plarg
```

test : bash

C/C++ - PANDAROOT-Debug@ GSI Forum - Mozilla Firefox puetz : screen – Konsole test

Subject: Re: TransMap_Half.0406.root does not exist
Posted by StefanoSpataro on Mon, 06 Jul 2015 12:16:05 GMT
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Are you using the option HALF? Half field is valid only for p<3GeV/c.

Subject: Re: TransMap_Half.0406.root does not exist
Posted by Jennifer Pütz on Mon, 06 Jul 2015 12:24:25 GMT
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Hi Stefano,

it seems that I'm not using the option HALF. I tried to run the macro with 3.01 GeV/c and 6.2 GeV/c and it works. I attached the sim_complete macro.

File Attachments
1) sim_complete.C, downloaded 411 times

Subject: Re: TransMap_Half.0406.root does not exist
Posted by StefanoSpataro on Mon, 06 Jul 2015 12:32:28 GMT
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Most probably it is a problem of rounding. Try with FULL instead of AUTO. I cannot reproduce your problem now.

Subject: Re: TransMap_Half.0406.root does not exist
Posted by Jennifer Pütz on Mon, 06 Jul 2015 13:00:36 GMT
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This works. Thanks a lot!

Subject: Re: TransMap_Half.0406.root does not exist
Posted by StefanoSpataro on Mon, 06 Jul 2015 14:38:00 GMT
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I found the inconsistency and fixed it.
If now you update your field folder and recompile, AUTO will work also for 3 GeV/c.