Subject: PandaRoot 12.0.0 installation fails on CentOS7
Posted by Mark Lattery on Sat, 26 Jun 2021 18:19:14 GMT
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Hi,

Attempt to install pandaroot 12.0.0 on CentOS7 failed.

Software combination:

fairsoft_nov20_patches (install successful)
FairRoot-v18.6 (install successful)
pandaroot v12.0.0 (install failed)

Below is sample output. (Complete output enclosed.)

Please let me know what I am doing wrong.

Sincerely,
Mark

///// fairroot (end of installation...)

[...]

```
[100%] Built target ex-histo-device
[root@localhost build]# make install
-- Found Git: /usr/bin/git (found version "1.8.3.1")
-- FairRoot Version - v18.6.0 from - Mon Mar 8 10:49:58 2021 +0100
[  0%] Built target svnheader
[  1%] Built target FairTools
[  2%] Built target MbsAPI
```

[...]

```
-- Installing:  /home/Panda/FairRoot-v18.6/install/share/fairbase/cmake/scripts/set_env. sh.in
-- Installing:  /home/Panda/FairRoot-v18.6/install/share/fairbase/cmake/scripts/set_env_
macos.sh.in
-- Installing: /home/Panda/FairRoot-v18.6/install/bin/fairroot-config

[root@localhost build]# export FAIRROOTPATH=/home/Panda/FairRoot-v18.6/install
```

///// pandaroot

```
[root@localhost build]# cd /home/Panda
[root@localhost Panda]# mkdir pandaroot
[root@localhost Panda]# cd pandaroot
[root@localhost pandaroot]# git clone https://git.panda.gsi.de/PandaRootGroup/PandaRoot.git
./source
Cloning into './source'...
```

```
Username for 'https://git.panda.gsi.de': lattery@uwosh.edu
Password for 'https://lattery@uwosh.edu@git.panda.gsi.de':
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (10/10), done.
remote: Total 113866 (delta 1), reused 0 (delta 0), pack-reused 113856
Receiving objects: 100% (113866/113866), 1.27 GiB | 2.95 MiB/s, done.
Resolving deltas: 100% (87327/87327), done.
[root@localhost pandaroot]# cd source
[root@localhost source]# git checkout -b v12.0.0 v12.0.0
Switched to a new branch 'v12.0.0'
[root@localhost source]# mkdir ../build
[root@localhost source]# cd ../build
[root@localhost build]# cmake ../source
-- The C compiler identification is GNU 7.3.1
-- The CXX compiler identification is GNU 7.3.1
-- Check for working C compiler: /opt/rh/devtoolset-7/root/usr/bin/cc
-- Check for working C compiler: /opt/rh/devtoolset-7/root/usr/bin/cc - works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features
-- Detecting C compile features - done
-- Check for working CXX compiler: /opt/rh/devtoolset-7/root/usr/bin/c++
-- Check for working CXX compiler: /opt/rh/devtoolset-7/root/usr/bin/c++ - works

[ ... ]

-- Configuring done
-- Generating done
-- Build files have been written to: /home/Panda/pandaroot/build
[root@localhost build]# make
Scanning dependencies of target vc
[  0%] Creating directories for 'vc'
[  0%] No download step for 'vc'
[  0%] No patch step for 'vc'
[  0%] No update step for 'vc'
[  0%] Performing configure step for 'vc'
-- The C compiler identification is GNU 7.3.1
-- The CXX compiler identification is GNU 7.3.1
-- Check for working C compiler: /opt/rh/devtoolset-7/root/usr/bin/cc
-- Check for working C compiler: /opt/rh/devtoolset-7/root/usr/bin/cc - works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Detecting C compile features

[ ... ]

Scanning dependencies of target math_avx
[ 98%] Building CXX object tests/CMakeFiles/math_avx.dir/math.cpp.o
[ 98%] Linking CXX executable math_avx
[ 98%] Built target math_avx
Scanning dependencies of target math_VC_LOG_ILP_scalar
```

```
[ 98%] Building CXX object tests/CMakeFiles/math_VC_LOG_ILP_scalar.dir/math.cpp.o
[ 98%] Linking CXX executable math_VC_LOG_ILP_scalar
[ 98%] Built target math_VC_LOG_ILP_scalar
Scanning dependencies of target c++11_math_scalar
[ 98%] Building CXX object tests/CMakeFiles/c++11_math_scalar.dir/math.cpp.o
[100%] Linking CXX executable c++11_math_scalar
[100%] Built target c++11_math_scalar
Scanning dependencies of target build_tests
[100%] Built target build_tests
[  1%] Performing install step for 'vc'
[  5%] Built target Vc
[  9%] Built target download-testdata
[  9%] Built target math_VC_LOG_ILP_sse

[ ... ]

[100%] Built target c++11_math_scalar
[100%] Built target build_tests
Install the project...
-- Install configuration: "Release"
-- Installing: /home/Panda/pandaroot/build/external/vc/lib/libVc.a
-- Installing: /home/Panda/pandaroot/build/external/vc/include/Vc
-- Installing: /home/Panda/pandaroot/build/external/vc/include/Vc/Allocator

[ ... ]

[  7%] Building CXX object field/CMakeFiles/Field.dir/PndMapPar.cxx.o
[  7%] Building CXX object field/CMakeFiles/Field.dir/PndMultiFieldPar.cxx.o
/home/Panda/pandaroot/source/field/PndMultiFieldPar.cxx: In member function 'void
PndMultiFieldPar::SetParameters(FairField*)':
/home/Panda/pandaroot/source/field/PndMultiFieldPar.cxx:44:6: warning: 'sprintf' writing a
terminating nul past the end of the destination [-Wformat-overflow=]
 void PndMultiFieldPar::SetParameters(FairField *field)
      ^~~~~~~~~~~~~~~~
/home/Panda/pandaroot/source/field/PndMultiFieldPar.cxx:77:16: note: 'sprintf' output between
2 and 12 bytes into a destination of size 1
         sprintf(NO, "%d", fs->GetRegionNo());
         ~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~
/home/Panda/pandaroot/source/field/PndMultiFieldPar.cxx:44:6: warning: 'sprintf' writing a
terminating nul past the end of the destination [-Wformat-overflow=]
 void PndMultiFieldPar::SetParameters(FairField *field)
      ^~~~~~~~~~~~~~~~
/home/Panda/pandaroot/source/field/PndMultiFieldPar.cxx:98:16: note: 'sprintf' output between
2 and 12 bytes into a destination of size 1
         sprintf(NO, "%d", fd->GetRegionNo());
         ~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~
[  8%] Building CXX object field/CMakeFiles/Field.dir/PndConstPar.cxx.o
[  8%] Building CXX object field/CMakeFiles/Field.dir/PndMultiField.cxx.o
[  8%] Building CXX object field/CMakeFiles/Field.dir/G__FieldDict.cxx.o
[  8%] Linking CXX shared library ../lib/libField.so
[  8%] Built target Field
[  8%] Generating G__RhoDict.cxx, G__RhoDict_rdict.pcm, ../../lib/libRho.rootmap
```

```
Scanning dependencies of target Rho
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoConstraints/RhoMassConstraint.cxx.o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoConstraints/RhoPointingConstraint.cxx .o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoConstraints/RhoBeamConstraint.cxx.o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoEventSelectorBase.cxx.o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoTools/RhoCalculationTools.cxx.o
[  8%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoMath/RhoDoubleErr.cxx.o
[  8%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoMath/RhoError.cxx.o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoMath/RhoLorentzVectorErr.cxx.o
[  8%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoMath/RhoVector3Err.cxx.o
[  8%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoCandidate.cxx.o
[  8%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoCandList.cxx.o
[  8%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoCandListIterator.cxx.o
[  9%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoEventInfo.cxx.o
[  9%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoFactory.cxx.o
[  9%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoTools/RhoPdtLoader.cxx.o
/home/Panda/pandaroot/source/analysis/rho/RhoTools/RhoPdtLoader.cxx: In static member
function 'static stringlist RhoPdtLoader::SplitString(TString, TString)':
 /home/Panda/pandaroot/source/analysis/rho/RhoTools/RhoPdtLoader.cxx:34:5 : warning: this
'while' clause does not guard... [-Wmisleading-indentation]
    while (s.Contains("  "))
    ^~~~~
 /home/Panda/pandaroot/source/analysis/rho/RhoTools/RhoPdtLoader.cxx:36:7 : note: ...this
statement, but the latter is misleadingly indented as if it were guarded by the 'while'
      delim=" ";
      ^~~~~
[  9%] Building CXX object analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoFitterBase.cxx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoParticleSelectorBase.cxx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoBase/RhoVertexSelectorBase.cxx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoChargedParticleSelector.c xx.o
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle Selector.cxx:
In member function 'virtual Bool_t RhoChargedParticleSelector::Accept(RhoCandidate&)':
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle
Selector.cxx:32:10: warning: the compiler can assume that the address of 'b' will never be
NULL [-Waddress]
   if (&b == 0) {
      ~~~^~~~
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle Selector.cxx:
In member function 'virtual Bool_t RhoChargedParticleSelector::Accept(PndPidCandidate&)':
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle
Selector.cxx:46:10: warning: the compiler can assume that the address of 'b' will never be
NULL [-Waddress]
```

```
   if (&b == 0) {
       ~~~^~~~
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle
Selector.cxx:46:3: warning: nonnull argument 'b' compared to NULL [-Wnonnull-compare]
   if (&b == 0) {
   ^~
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle Selector.cxx:
In member function 'virtual Bool_t RhoChargedParticleSelector::Accept(RhoCandidate&)':
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoChargedParticle
Selector.cxx:32:3: warning: nonnull argument 'b' compared to NULL [-Wnonnull-compare]
   if (&b == 0) {
   ^~
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoEnergyParticleSelector.cx x.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoMassParticleSelector.cxx. o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoMinusParticleSelector.cxx .o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoMomentumParticleSelector. cxx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoNeutralParticleSelector.c xx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoPlusParticleSelector.cxx. o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimpleElectronSelector.cx x.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimpleKaonSelector.cxx.o
[  9%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimpleMuonSelector.cxx.o
[ 10%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimplePionSelector.cxx.o
[ 10%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimpleProtonSelector.cxx. o
[ 10%] Building CXX object
analysis/rho/CMakeFiles/Rho.dir/RhoSelector/RhoSimpleVertexSelector.cxx. o
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoSimpleVertexSel ector.cxx: In
member function 'virtual Bool_t RhoSimpleVertexSelector::Accept(RhoCandidate&,
RhoCandidate&)':
 /home/Panda/pandaroot/source/analysis/rho/RhoSelector/RhoSimpleVertexSel
ector.cxx:46:10: warning: the compiler can assume that the address of 'a' will never be NULL
[-Waddress]
   if (&a == 0 || &b == 0) {
       ~~~^~~~
[ ...]

/home/Panda/pandaroot/source/macro/run/sim_complete.C:74:3: error: unknown type name
'FairDetector'
  FairDetector *SciT = new PndSciT("SCIT", kTRUE);
  ^
/home/Panda/pandaroot/source/macro/run/sim_complete.C:74:28: error: unknown type name
'PndSciT'
```

```
  FairDetector *SciT = new PndSciT("SCIT", kTRUE);
                     ^
/home/Panda/pandaroot/source/macro/run/sim_complete.C:78:3: error: unknown type name
'PndDrc'
  PndDrc *Drc = new PndDrc("DIRC", kTRUE);
  ^
fatal error: too many errors emitted, stopping now [-ferror-limit=]
```

File Attachments

1) pandaroot.log3.pdf, downloaded 1324 times

Subject: Re: PandaRoot 12.0.0 installation fails on CentOS7
Posted by Mark Lattery on Sun, 27 Jun 2021 19:51:38 GMT
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Just an update:

After trying numerous combination of software, the only one that worked for me on Cent OS7 was:

fairsoft_nov20_patches
FairRoot-v18.6
PandaRoot v12.0.2

However, the event generator/simulation software does not seem to be working. See sample output below. (Complete output is enclosed.)

Still, I was able to copy simulation *.root files from a computer with an older version of the software and the analysis code seems to be working.

```
[mlattery@localhost rho]$ root -l -b -q 'tut_sim.C(100)'

Processing tut_sim.C(100)...
In file included from input_line_11:1:
/home/Panda/pandaroot/source/tutorials/rho/tut_sim.C:10:10: fatal error:
'FairFilteredPrimaryGenerator.h' file not found
#include <FairFilteredPrimaryGenerator.h>
         ^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Warning in <TInterpreter::TCling::RegisterModule>: Problems in compiling forward
declarations for module G__FairTools: '
#line 1 "G__FairTools dictionary forward declarations' payload"
```

```
#pragma clang diagnostic ignored "-Wkeyword-compat"
#pragma clang diagnostic ignored "-Wignored-attributes"
#pragma clang diagnostic ignored "-Wreturn-type-c-linkage"
extern int __Cling_AutoLoading_Map;
class FairLogger;
class FairMonitor;
class FairSystemInfo;
'
Warning in <TInterpreter::TCling::RegisterModule>: Problems in compiling forward
declarations for module G__ParBase: '
#line 1 "G__ParBase dictionary forward declarations' payload"
#pragma clang diagnostic ignored "-Wkeyword-compat"
#pragma clang diagnostic ignored "-Wignored-attributes"
#pragma clang diagnostic ignored "-Wreturn-type-c-linkage"
extern int __Cling_AutoLoading_Map;
class __attribute__((annotate(R"ATTRDUMP(class for list elements in class
FairContFact)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(class for list elements in
class FairContFact)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(class for list
elements in class FairContFact)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(class
for list elements in class FairContFact)ATTRDUMP"))) FairContainer;
class __attribute__((annotate(R"ATTRDUMP(base class of all factories for parameter
containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(base class of all factories
for parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(base class of
all factories for parameter containers)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(base class of all factories for parameter
containers)ATTRDUMP"))) FairContFact;
class __attribute__((annotate(R"ATTRDUMP(Base class for detector parameter
IO)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for detector parameter
IO)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for detector parameter
IO)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for detector parameter
IO)ATTRDUMP"))) __attribute__((annotate("$clingAutoload$FairDetParIo.h")))  FairDetParIo;
class __attribute__((annotate(R"ATTRDUMP(Class for detector parameter I/O from ascii
file)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Class for detector parameter I/O
from ascii file)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Class for detector
parameter I/O from ascii file)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Class for
detector parameter I/O from ascii file)ATTRDUMP"))) FairDetParAsciiFileIo;
class __attribute__((annotate(R"ATTRDUMP(detector base class for parameter I/O from
ROOT file)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(detector base class for
parameter I/O from ROOT file)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(detector
base class for parameter I/O from ROOT file)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(detector base class for parameter I/O from ROOT
file)ATTRDUMP"))) FairDetParRootFileIo;
class __attribute__((annotate(R"ATTRDUMP(I/O from Ascii file for parameter containers
derived from FairParGenericSet)ATTRDUMP"))) FairGenericParAsciiFileIo;
class __attribute__((annotate(R"ATTRDUMP(I/O from ROOT file for parameter containers
derived from FairParGenericSet)ATTRDUMP"))) FairGenericParRootFileIo;
class FairParamObj;
class FairParamList;
class __attribute__((annotate(R"ATTRDUMP(Base class for all parameter I/Os)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(Base class for all parameter I/Os)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(Base class for all parameter I/Os)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(Base class for all parameter I/Os)ATTRDUMP")))
```

__attribute__((annotate("$clingAutoload$FairParIo.h"))) FairParIo;
class __attribute__((annotate(R"ATTRDUMP(Parameter I/O from ASCII files)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Parameter I/O from ASCII files)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Parameter I/O from ASCII files)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Parameter I/O from ASCII files)ATTRDUMP"))) FairParAsciiFileIo;
class __attribute__((annotate(R"ATTRDUMP(Base class for all parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for all parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for all parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for all parameter containers)ATTRDUMP")))
__attribute__((annotate("$clingAutoload$FairParSet.h"))) FairParSet;
class __attribute__((annotate(R"ATTRDUMP(Base class for generic-style parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for generic-style parameter containers)ATTRDUMP")))
__attribute__((annotate(R"ATTRDUMP(Base class for generic-style parameter containers)ATTRDUMP"))) __attribute__((annotate(R"ATTRDUMP(Base class for generic-style parameter containers)ATTRDUMP"))) FairParGenericSet;

[...]

File Attachments

1) pandaroot.log4.pdf, downloaded 179 times

Subject: Re: PandaRoot 12.0.0 installation fails on CentOS7
Posted by Tobias Stockmanns on Mon, 28 Jun 2021 06:52:55 GMT
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Dear Mark,
here we have the problem with the additional #include <FairFilteredPrimaryGenerator.h> in tut_sim.C.

Remove it and try it again.

Cheers,

Tobias
