
Subject: [fixed] cmake bug in EvtGen

Posted by [Malgorzata Gumberidze](#) on Mon, 22 Nov 2010 12:29:01 GMT

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Trying to install pandaroot. I go following message right after cmake:

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```
sudol@ipnei14:/projet/panda/pandaroot/jan10/buildPanda$ cmake ../trunk/
CMAKE_Fortran_COMPILER full path: /usr/bin/f95
Fortran compiler: f95
f95 found -> gfortran
--- Found a Linux ssystem
--- Found GNU compiler collection
--- Build Type: Debug
--- Compiler Flags:
-- Looking for Root...
-- Looking for Root... - found /projet/panda/pandaroot/jan10/tools/root/bin/root
-- Looking for Root... - version 5.26/00
-- Looking for Pluto...
-- Looking for Pluto... - found /projet/panda/pandaroot/jan10/generators/lib
-- Looking for Pythia6...
-- Looking for Pythia6... - found /projet/panda/pandaroot/jan10/generators/lib
-- Looking for GEANT3...
-- Looking for GEANT3... - found
/projet/panda/pandaroot/jan10/transport/geant3/lib/tgt_linuxx8664gcc/lib geant321.so
-- Looking for GEANT4...
-- Looking for GEANT4... - found /projet/panda/pandaroot/jan10/transport/geant4/lib/Linux-g++
-- Looking for GEANT4VMC...
-- Looking for GEANT4VMC... - found
/projet/panda/pandaroot/jan10/transport/geant4_vmc/lib/tgt_linuxx8664gcc
-- Looking for VGM...
-- Looking for VGM... - found /projet/panda/pandaroot/jan10/transport/vgm/lib
-- Looking for CLHEP...
-- Looking for CLHEP... - found /projet/panda/pandaroot/jan10/cern/clhep/lib
-- Looking for CERNLIB...
-- Looking for Java...
-- Looking for Java... - found /usr/bin/java
-- Looking for Perl...
-- Looking for Perl... - found /usr/bin/perl
-- Looking for Rule Checker...
-- Looking for Rule Checker... - Not found
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/mdt/QAmacro_mdt_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/mdt/QAmacro_mdt_2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/emc/QAmacro_emc_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/emc/QAmacro_emc_2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/emc/QAmacro_emc_3.sh 2>&1
```

```
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/emc/QAmacro_emc_4.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/lhetrack/run_sim_tpcco mbi_pgun.sh
2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/lhetrack/run_digi_tpcc ombi.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/lhetrack/run_reco_tpcc ombi.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/tpc/QAmacro_tpc_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/drc/QAmacro_drc_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/ftof/QAmacro_ftof_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/gem/QAmacro_gem_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/gem/QAmacro_gem_2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/hyp/QAmacro_hyp_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/mvd/QAmacro_mvd_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/mvd/QAmacro_mvd_2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/mvd/QAmacro_mvd_ana.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/rho/QAmacro_rho_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/stt/QAmacro_stt_1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/stt/QAmacro_stt_2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/stt/QAmacro_stt_3.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/stt/QAmacro_stt_4.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/fsim/QAmacro_fastsim_1 .sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/fsim/QAmacro_fastsim_2 .sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/evtgen/QAmacro_evtgen_ 1.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/evtgen/QAmacro_evtgen_ 2.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/evtgen/QAmacro_evtgen_ 3.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/qa/evtgen/QAmacro_evtgen_ 4.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/run/sim_complete_stt.sh 2>&1
running /bin/chmod u+x
```

```

/projet/panda/pandaroot/jan10/buildPanda/macro/run/digi_complete_stt.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/run/reco_complete_stt.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/run/sim_complete_tpc.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/run/digi_complete_tpc.sh 2>&1
running /bin/chmod u+x
/projet/panda/pandaroot/jan10/buildPanda/macro/run/reco_complete_tpc.sh 2>&1
-- Configuring done
CMake Error: Error Target: EvtGen Contains more than one Preferred language: Fortran and
CXX
You must set the LINKER_LANGUAGE property for this target.
-- Generating done
-- Build files have been written to: /projet/panda/pandaroot/jan10/buildPanda

```

CMake Error: Error Target: EvtGen Contains more than one Preferred language: Fortran and CXX
You must set the LINKER_LANGUAGE property for this target.

to fix it, it is necessary to make following changes in the EvtGen/CMakeList.txt:

```

sudol@ipnei14:/projet/panda/pandaroot/jan10/buildPanda$ svn diff
../trunk/pgenerators/EvtGen/CMakeLists.txt
Index: ../trunk/pgenerators/EvtGen/CMakeLists.txt
=====
--- ../trunk/pgenerators/EvtGen/CMakeLists.txt (revision 10338)
+++ ../trunk/pgenerators/EvtGen/CMakeLists.txt (working copy)
@@ -294,12 +294,12 @@
 add_library(EvtGen SHARED ${EVTGEN_SRCS})
 target_link_libraries(EvtGen ${ROOT_LIBRARIES} Pythia6 Photos ${Fortran_UseLib})
 set_target_properties(EvtGen PROPERTIES ${FAIRROOT_LIBRARY_PROPERTIES})
 -set_target_properties(EvtGen PROPERTIES LINK_FLAGS "-fPIC")
 +set_target_properties(EvtGen PROPERTIES LINK_FLAGS "-fPIC" LINKER_LANGUAGE
 CXX)

 foreach(program ${ALLEvtGen_exe})
 add_executable(EvtGen_exe_${program} ${program}.cc)
 set_target_properties(EvtGen_exe_${program} PROPERTIES OUTPUT_NAME ${program})
 - set_target_properties(EvtGen_exe_${program} PROPERTIES LINK_FLAGS "-fPIC")
 + set_target_properties(EvtGen_exe_${program} PROPERTIES LINK_FLAGS "-fPIC"
 LINKER_LANGUAGE CXX)
 target_link_libraries(EvtGen_exe_${program} ${ROOT_LIBRARIES} EvtGen Pythia6 Photos
 ${Fortran_UseLib} CLHEP)
 endforeach(program)

```

I do not know if this fix works for everybody, it would be nice if expert can check it, and commit solution to svn.

gosia

Subject: Re: cmake bug in EvtGen

Posted by [Malgorzata Gumberidze](#) on Mon, 22 Nov 2010 12:36:22 GMT

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it seems that cmake is working, but i have new problem :

```
[ 18%] Built target DpmEvtGen_exe
Scanning dependencies of target Photos
make[2]: *** No rule to make target `of.mod.proxy', needed by
`pgenerators/EvtGen/photos/CMakeFiles/Photos.dir/phomak.o.requires'. Stop.
make[1]: *** [pgenerators/EvtGen/photos/CMakeFiles/Photos.dir/all] Error 2
make: *** [all] Error 2
```

can someone help me with that ?

gosia

ps. i'm using 64-bit machine with ubuntu and gcc 4.2.4

Subject: Re: cmake bug in EvtGen

Posted by [Sverre Dørheim](#) on Mon, 22 Nov 2010 12:48:09 GMT

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Hello Gosia

Are you using the CMake from the external packages or an older version. This problem usually occurs when using CMake 2.4.* and not the version from the external packages (2.6.3).

Cheers

Sverre

Subject: Re: cmake bug in EvtGen

Posted by [Malgorzata Gumberidze](#) on Mon, 22 Nov 2010 13:08:42 GMT

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Hi,

You were right, i was using cmake from my own /user/bin which is 2.4-path7, after correcting it compiling. It also fix problem with photos, which i mention in my other message.

The problem is that cmake from pandaroot is not taken automatically as default cmake. Maybe warning message could be helpful.

thanks a lot
gosia

Subject: Re: cmake bug in EvtGen
Posted by [Felix Boehmer](#) on Mon, 22 Nov 2010 13:21:22 GMT
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Hi gosia,

I agree. Since one can very easily set version requirements in the CMakeLists, I think this should be done to get rid of these kind of problems.

Regards

Felix

Subject: Re: cmake bug in EvtGen
Posted by [Florian Uhlig](#) on Mon, 22 Nov 2010 13:48:43 GMT
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Hi

This is implemented in the main CMakeLists.txt. The minimal version required is 2.4.3. You only have to change this version.

Ciao

Florian

Subject: Re: cmake bug in EvtGen
Posted by [Felix Boehmer](#) on Mon, 22 Nov 2010 14:03:05 GMT
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Sure,

but the point was to help the user to avoid falling into that pitfall in the first place (it didn't happen for the first time), so leaving this modification to the user kind of goes full circle to the initial problem

It should be rather easy to make this modification "official".

Regards

Felix

Subject: Re: cmake bug in EvtGen
Posted by [Florian Uhlig](#) on Mon, 22 Nov 2010 15:14:18 GMT
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Hi Felix

I didn't meant that this should be done by the user. This should be done by some Panda developer. I will not change this, because afterwards there will be many complains that the build system is not working (from my experience) and so on. If it is officially decided and i am asked to change it i will do so.

Ciao

Florian

Subject: Re: cmake bug in EvtGen
Posted by [Johan Messchendorp](#) on Mon, 22 Nov 2010 23:02:04 GMT
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Hi Florian,

Do you foresee any incompatibilities with this change? To me it looks pretty harmless. But then again, you have more experiences with this....

Johan

Subject: Re: cmake bug in EvtGen
Posted by [Florian Uhlig](#) on Tue, 23 Nov 2010 06:06:54 GMT
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Hi Johan

I don't expect problems concerning the code. I expect problems with users still using a old version of cmake which will complain after the change because their cmake isn't working any longer. So it's more a social than a technical problem.

Ciao

Florian

Subject: Re: cmake bug in EvtGen
Posted by [Malgorzata Gumberidze](#) on Tue, 23 Nov 2010 09:24:41 GMT
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by the way i have tried to launch nightly build today and i got following message:

sudo@ipnei14:/projet/panda/pandaroot/jan10/dart/trunk\$./Dart_gosia.sh Nightly

Tue Nov 23 10:19:19 CET 2010

LABEL: Ubuntu64-GNU_Linux-x86_64-gcc4.2.4-fairsoft_jan10

SITE: ipnei14

Model: Nightly

Nr. of processes: 2

CMake Error: Error required internal CMake variable not set, cmake may be not be built correctly.

Missing variable is:

CMAKE_BACKWARDS_COMPATIBILITY

Run dashboard with model Nightly

is it normal ?

gosia
