Subject: Using cmake Posted by Ralf Kliemt on Fri, 15 Jun 2007 13:07:34 GMT View Forum Message <> Reply to Message

Here is a short note for you how to use the cmake:

A New build:

You starting point are the complete external packages and the source of pandaroot. It should look like this:

...fairroot/cbmsoft> ls cern configure.sh generators pandaroot SetEnv.sh tools transport

Now set the SIMPATH variabele, like: cbmsoft/export SIMPATH=\$PWD

Make an empty build directory. (name it as you want to) cbmsoft>mkdir cbuild cbmsoft>cd cbuild

Generate the makefiles. (this replaces the reconf and configure from the automake-based way) cbmsoft/cbuild>cmake ../pandaroot

Load the local enviroment. cbmsoft/cbuild>. config.sh

Begin compiling: cbmsoft/cbuild>make install

Notes:

To run your macros on this build you have to load the cbuild/config.sh

[Edit: Mohammeds suggestion on the simpath added.]

Subject: Re: Using cmake Posted by Mohammad Al-Turany on Mon, 18 Jun 2007 06:38:24 GMT View Forum Message <> Reply to Message

Hi,

you do not really need the SetEnv.sh any more, all you need is the SIMPATH, So you can do export SIMPATH=(path to external packages i.e. cbmsoft/) then continue as Ralf described:

cbmsoft/cbuild>cmake ../pandaroot

Load the local enviroment. cbmsoft/cbuild>. config.sh

Begin compiling: cbmsoft/cbuild>make install

Notes

To run your macros on this build you have to load the cbuild/config.sh

Subject: Re: Using cmake Posted by Tobias Stockmanns on Thu, 21 Jun 2007 12:47:42 GMT View Forum Message <> Reply to Message

Dear Ralf,

on my PC the described procedure to use cmake is not working. I always get the following error messages (just the beginning):

- -- Check for working C compiler: /usr/bin/gcc
- -- Check for working C compiler: /usr/bin/gcc -- works
- -- Check size of void*
- -- Check size of void* done
- -- Check for working CXX compiler: /usr/bin/c++
- -- Check for working CXX compiler: /usr/bin/c++ -- works

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/Experimental

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/Nightly

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/Continuous

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyMemoryC heck

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyStart

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyUpdate CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyConfigu re CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyBuild CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyTest

CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyCoverag e CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlyMemChec k CMake Error: Could not get source file entry for

/home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/NightlySubmit

CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalSt art CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalUp date CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalCo nfigure CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalBu ild CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalTe st CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalCo verage CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalMe mCheck CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ExperimentalSu bmit CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousStar t CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousUpda te CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousConf igure CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousBuil d CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousTest CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousCove rage CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousMemC heck CMake Error: Could not get source file entry for /home/kph/kph/stockman/fairroot/cbmsoft/cbuild/CMakeFiles/ContinuousSubm it -- You're not using the GSI installation of the external packages. -- If any problems occur this can be due to the fact that the macros -- were mostly tested at GSI. If you find any problems please contact -- f.uhlig@gsi.de -- Found root of the simulation software at /home/kph/stockman/fairroot/cbmsoft -- Found ROOT version "5.14/00" at "/home/kph/kph/stockman/fairroot/cbmsoft/tools/root" -- Found GEANT3: /home/kph/kph/stockman/fairroot/cbmsoft/transport/geant3/lib/tgt_linux/l ibgeant321.so

- -- Found PLUTO: /home/kph/stockman/fairroot/cbmsoft/generators/lib
- -- Found Generators: /home/kph/stockman/fairroot/cbmsoft/generators/lib
- -- Found GEANT4: /home/kph/stockman/fairroot/cbmsoft/transport/geant4/lib/Linux-g++
- -- Found GEANT4VMC:

/home/kph/stockman/fairroot/cbmsoft/transport/geant4_vmc/lib/tgt_linux

-- Found CLHEP: /home/kph/stockman/fairroot/cbmsoft/cern/clhep/lib

CMake Error: Error in cmake code at

/home/kph/kph/stockman/fairroot/cbmsoft/pandaroot/CMakeLists.txt:86:

ADD_SUBDIRECTORY not given a binary directory but the given source directory

"/home/kph/kph/kph/stockman/fairroot/cbmsoft/pandaroot/base" is not a subdirectory of

"/home/kph/kph/stockman/fairroot/cbmsoft/pandaroot". When specifying an out-of-tree source a binary directory must be explicitly specified.

Current CMake stack:

/home/kph/kph/stockman/fairroot/cbmsoft/pandaroot/CMakeLists.txt;/usr/lo cal/ikp/share/cmake-2.4/Modules/CMakeCInformation.cmake;/usr/local/ikp/s hare/cmake-2.4/Modules/CMakeCXXInformation.cmake

I hope somebody has an idea what the reason for this error is.

Thank you.

Tobias

Subject: Re: Using cmake Posted by Florian Uhlig on Fri, 22 Jun 2007 17:35:08 GMT View Forum Message <> Reply to Message

Hi Tobias

I haven't seen anything like this error messages before. I have no good idea what this could be so i only can guess.

Which version of cmake do you use? You need at least version 2.4.3?

How old is your local copy of pandaroot?

If i interpret the error messages correctly your pandaroot instllation is in the same directory as the external packages. Is this correct? Can you try to install pandaroot somewhere else and try again.

How did you install cmake? On your own or did you use a tool provided by your linux distribution?

Up to now this are only questions and no answers, but i have first to understand what is going on.

Ciao

Florian

Subject: Re: Using cmake Posted by Tobias Stockmanns on Mon, 25 Jun 2007 07:44:06 GMT View Forum Message <> Reply to Message

Hi Florian,

I could partly solve the problem. Somehow the LD_LIBRARY_PATH variable was modified during compilation and all the path values pointed to an very old version. After rebooting my

Linux system (I always thought that this only helps on Windows machines) cmake finishes now without errors. Unfortunately make still does not work. It stops immediately with the following error message:

Building CXX object base/CMakeFiles/Base.dir/CbmBaseContFact.o cc1plus: error: unrecognized command line option "-ffriend-injection" make[2]: *** [base/CMakeFiles/Base.dir/CbmBaseContFact.o] Error 1 make[1]: *** [base/CMakeFiles/Base.dir/all] Error 2 make: *** [all] Error 2

I am using cmake 2.4.6. This was installed from my SysAdmin on our local workstation cluster.

My local copy of pandaroot is at rev. 950.

I hope you have an idea what the reason for this problem is.

Ciao

Tobias

Subject: Re: Using cmake Posted by Florian Uhlig on Mon, 25 Jun 2007 08:35:06 GMT View Forum Message <> Reply to Message

Hi Tobias

I think this problem i now well, since we had it on friday with cbm.

If i am correct you have a compiler version 4.0.? . If this is the case please update the main CMakeLists.txt.

The problem is that compiler flag -ffriend-injection is only known and needed from gcc version 4.1.0 I thought the flag is

also needed for version 4.0.?, so i had an error in the check.

This is corrected in SVN since revision 985.

Ciao

Florian

Subject: Re: Using cmake Posted by Tobias Stockmanns on Mon, 25 Jun 2007 09:44:21 GMT View Forum Message <> Reply to Message

Dear Florian,

the problem is fixed now. I updated to rev. 985 and it compiles.

Tobias

Subject: Re: Using cmake Posted by Florian Uhlig on Mon, 25 Jun 2007 10:01:39 GMT View Forum Message <> Reply to Message

Hi Tobias

Nice to hear that everything works fine now.

Ciao

Florian

Subject: Error when calling config.sh Posted by Sebastian Neubert on Tue, 26 Jun 2007 12:33:46 GMT View Forum Message <> Reply to Message

Hi! I observe the following bug. Can anyone help me, please?

sneubert@darjeeling:~/scratch/PANDA/FAIRRoot/cbuildDev\$ cmake ../pandarootDev/

- -- Check for working C compiler: /usr/bin/gcc
- -- Check for working C compiler: /usr/bin/gcc -- works
- -- Check size of void*
- -- Check size of void* done
- -- Check for working CXX compiler: /usr/bin/c++
- -- Check for working CXX compiler: /usr/bin/c++ -- works
- -- You're not using the GSI installation of the external packages.
- -- If any problems occur this can be due to the fact that the macros
- -- were mostly tested at GSI. If you find any problems please contact
- -- f.uhlig@gsi.de
- -- Found root of the simulation software at /afs/e18/panda/SIM/FAIRRoot/cbmsoft
- -- Looking for Root...
- -- Looking for Root... found /afs/e18/panda/SIM/FAIRRoot/cbmsoft/tools/root/bin/root
- -- Looking for Root... version 5.14/00
- -- Looking for GEANT3...
- -- Looking for GEANT3... found

/afs/e18/panda/SIM/FAIRRoot/cbmsoft/transport/geant3/lib/tgt_linux/libge ant321.so

- -- Looking for Pluto...
- -- Looking for Pluto... found /afs/e18/panda/SIM/FAIRRoot/cbmsoft/generators/lib
- -- Looking for Pythia6...
- -- Looking for Pythia6... found /afs/e18/panda/SIM/FAIRRoot/cbmsoft/generators/lib
- -- Looking for GEANT4...
- -- Looking for GEANT4... found

/afs/e18/panda/SIM/FAIRRoot/cbmsoft/transport/geant4/lib/Linux-g++

- -- Looking for GEANT4VMC...
- -- Looking for GEANT4VMC... found

/afs/e18/panda/SIM/FAIRRoot/cbmsoft/transport/geant4_vmc/lib/tgt_linux

- -- Looking for VGM...
- -- Looking for VGM... found

/afs/e18/panda/SIM/FAIRRoot/cbmsoft/transport/vgm.2.08.04/lib/Linux-g++

- -- Looking for CLHEP...
- -- Looking for CLHEP... found /afs/e18/panda/SIM/FAIRRoot/cbmsoft/cern/clhep/lib
- -- Configuring done
- -- Generating done

-- Build files have been written to: /afs/e18/user/sneubert/scratch/PANDA/FAIRRoot/cbuildDev sneubert@darjeeling:~/scratch/PANDA/FAIRRoot/cbuildDev\$. config.sh bash: GEANT4_DIR-NOTFOUND/env.sh: No such file or directory

Subject: Re: Error when calling config.sh Posted by Florian Uhlig on Tue, 26 Jun 2007 12:52:30 GMT View Forum Message <> Reply to Message

Hi Sebastian

There is a file missing/at the wrong place in your GEANT4 installation. In the subdirectory transport/geant4 below \$SIMPATH the file env.sh is missing. Copy the file from transport/geant4/source to transport/geant4. Then everything should work.

Ciao

Florian

Subject: Re: Error when calling config.sh Posted by StefanoSpataro on Tue, 26 Jun 2007 13:10:21 GMT View Forum Message <> Reply to Message

Hello,

I had this problem several weeks ago,

maybe something worng is happening in the installation of external packages. The next (if we will ever have a next release of external packages) release should fix this problem, I don't know in which machines it does happen (with my gentoo for sure).

Subject: Re: Using cmake Posted by Sebastian Neubert on Tue, 26 Jun 2007 14:14:15 GMT View Forum Message <> Reply to Message

Thank you guys!