
Subject: Re: New external packages (jan12)
Posted by [Simone Bianco](#) on Mon, 23 Jan 2012 12:48:47 GMT
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Hi Mahammad,
you're right, it's exactly the same problem and in both cases it appears at the same point of the G4 compilation. I tried now to add " -DBUILD_SHARED_LIBS=OFF
-DBUILD_STATIC_LIBS=ON " in the cmake argument list in script/install_geant4.sh as suggested in the post you linked in order to use static libraries.

During the G4 compilation, at the same point I now get

```
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes-static.dir/transportation/src/G4UserSpecialCuts.cc
.o
[ 83%] Building CXX object
source/processes/CMakeFiles/G4processes-static.dir/transportation/src/G4VTrackTerminator.c
c.o
Linking CXX static library ../../outputs/library/Linux-g++/libG4processes.a
[ 83%] Built target G4processes-static
Scanning dependencies of target G4tracking-static
Scanning dependencies of target G4parmodels-static
[ 83%] [ 83%] Building CXX object
source/parameterisations/CMakeFiles/G4parmodels-static.dir/gflash/src/GFlashEnergySpot.cc.
o
[ 83%] Building CXX object
source/parameterisations/CMakeFiles/G4parmodels-static.dir/gflash/src/GFlashHitMaker.cc.o
```

No errors appear during the compilation of Geant4.

During the checks before the vgm compilation I still get

```
*** Compiling VGM .....
Patch CMake stuff
-- The C compiler identification is GNU
-- The CXX compiler identification is GNU
-- Check for working C compiler: /usr/bin/gcc
-- Check for working C compiler: /usr/bin/gcc -- works
-- Detecting C compiler ABI info
-- Detecting C compiler ABI info - done
-- Check for working CXX compiler: /usr/bin/g++
-- Check for working CXX compiler: /usr/bin/g++ -- works
-- Detecting CXX compiler ABI info
-- Detecting CXX compiler ABI info - done
--- Found a Linux ssystem
--- Found GNU compiler collection
--- Build Type: RelWithDebInfo
--- Compiler Flags: -O3
-- Looking for CLHEP...
```

```
-- Looking for CLHEP... - found /disk/user/bianco/ext_jan12_32/build/lib
-- Looking for GEANT4...
-- Looking for Root...
-- Looking for Root... - found /disk/user/bianco/ext_jan12_32/build/bin/root
-- Looking for Root... - version 5.32/00
CMake Warning (dev) at packages/Geant4GM/CMakeLists.txt:20 (link_directories):
  This command specifies the relative path
```

```
GEANT4_LIBRARY_DIR-NOTFOUND
```

as a link directory.

Policy CMP0015 is not set: link_directories() treats paths relative to the source dir. Run "cmake --help-policy CMP0015" for policy details. Use the cmake_policy command to set the policy and suppress this warning. This warning is for project developers. Use -Wno-dev to suppress it.

```
-- Configuring done
-- Generating done
-- Build files have been written to:
/disk/user/bianco/ext_jan12_32/jan12/transport/vgm/build_cmake
```

but this doesn't stop the compilation, which runs smooth until the end.
I finally get
"*** End installation of external packages without Errors***".

Is there any drawback in having static libraries for Geant4 (except for space occupancy)?

Cheers,

Simone
