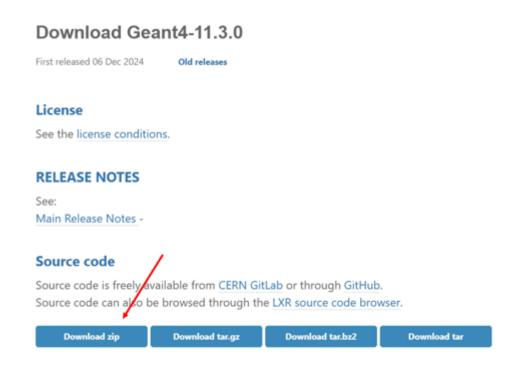
- 0. Pre-requisite: Visual Studio 20XX
- 1. Go to <a href="https://geant4.web.cern.ch/download/11.3.0.html">https://geant4.web.cern.ch/download/11.3.0.html</a> and click "Download zip":



2. Unpack geant4-v11.3.0.zip to to a location you like. Let's suppose it is

## X: |XX|XXX| Geant 4

Then *X*:\*XX*\*XXX*\*Geant4*\*geant4-v11.3.0* would be the source directory. You can find a CMakeLists.txt file in this directory.

3. Open the Developer Command Prompt for VS20XX:

(Start → Visual Studio 20XX → Visual Studio Tools → Developer Command Prompt for VS20XX)

Run the "cl" command to confirm that you have the MSVC compiler:

```
> cl

Microsoft (R) C/C++ Optimizing Compiler Version 19.25.28614 for x86

Copyright (C) Microsoft Corporation. All rights reserved.

usage: cl [ option... ] filename... [ /link linkoption... ]
```

4. Change to the X:\XX\XXX\Geant4 directory. Create a build directory and cd to it:

```
> mkdir geant4-v11.3.0-build
> cd geant4-v11.3.0-build
```

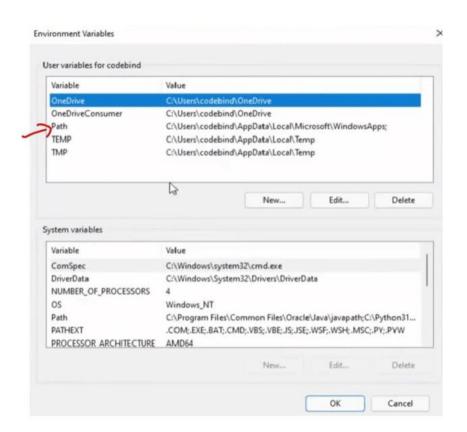
5. Configure and run the build in the build directory. (After all the steps, a folder *geant4-v11.3.0-install* will appear. You don't need to create it by yourself):

```
> cmake -DCMAKE_INSTALL_PREFIX="X:\XX\XXX\Geant4\geant4-v11.3.0-
install" -DGEANT4_INSTALL_DATA=ON - DGEANT4_USE_OPENGL_WIN32=ON
"X:\XX\XXX\Geant4\geant4-v11.3.0"

(some screen output)
> cmake --build . --config Release
    (some screen output)
> cmake --build . --config Release --target install
```

(This step may take an hour to finish)

6. The folder *geant4-v11.3.0-install* should appear. Add the path *X:\XX\XXX\Geant4\geant4-v11.3.0-install\bin* to the PATH value:



7. Also create the following new environment variables:

Environment variables	Values
G4ABLADATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4ABLA3.3
G4ENSDFSTATEDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4ENSDFSTATE3.0
G4INCLDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4INCL1.2
G4LEDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4EMLOW8.6.1
G4LEVELGAMMADATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\PhotonEvaporation6.1
G4NEUTRONHPDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4NDL4.7.1
G4PARTICLEXSDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4PARTICLEXS4.1
G4PIIDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4PII1.3
G4RADIOACTIVEDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\RadioactiveDecay6.1.2
G4REALSURFACEDATA	$X: \XX\XXX Geant 4 \ge 11.3.0-install \share \Geant 4 \data \Real Surface 2.2$
G4SAIDXSDATA	X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\data\G4SAIDDATA2.0

8. The installation is in finished. You can keep only *geant4-v11.3.0-install* and remove other folders. Let's run an example job. Go to *X:\XX\XXX\Geant4\geant4-v11.3.0-install\share\Geant4\examples\basic\B1*:

- > mkdir build
- > cd build
- > cmake ..
- > msbuild B1.sln /p:Configuration=Release

You should now find an executable in \build\Release\. Run the following in \build:

> Release\exampleB1.exe

(Or you can simply click the file by your mouse)

If everything is OK, the following window should pop out:

