To install gemc follow the instructions on this link

The installation takes place in a machine with Ubuntu 20.04

Problem 1: QT

go_qt does not work; therefore, download qt's offline installer and use that to install qt in gemc's folder.

Problem 2: EVIO

Evio version has to be set to **5.1** in the **versions.env** file. Later versions do not download directly from **go_evio**.
Evio SConstruct throws errors like crazy due to "ISO C++17 does not allow dynamic exception specifications". To solve this, in SConstruct specify the following flags:

```
from init_env import init_environment
from util import scanFiles

env = init_environment("evio")
env.Append(CPPFLAGS = '-fPIC -Wall -O2 -std=c++11')
env.Replace(CXXFLAGS = '-fexceptions -fstack-protector -Wall -O2 -std=c++11')

print("CPPFLAGS is:", env['CPPFLAGS'])
print("CXXFLAGS is:", env['CXXFLAGS'])
```

Problem 3: MySQL

In Ubuntu, the following line appears for various libraries:
cp: -r not specified; omitting directory '/usr/lib/x86_64-linux-gnu/<name_of_folder>

Therefore, I added a *-r* in **go_mysql** . That solved the message.

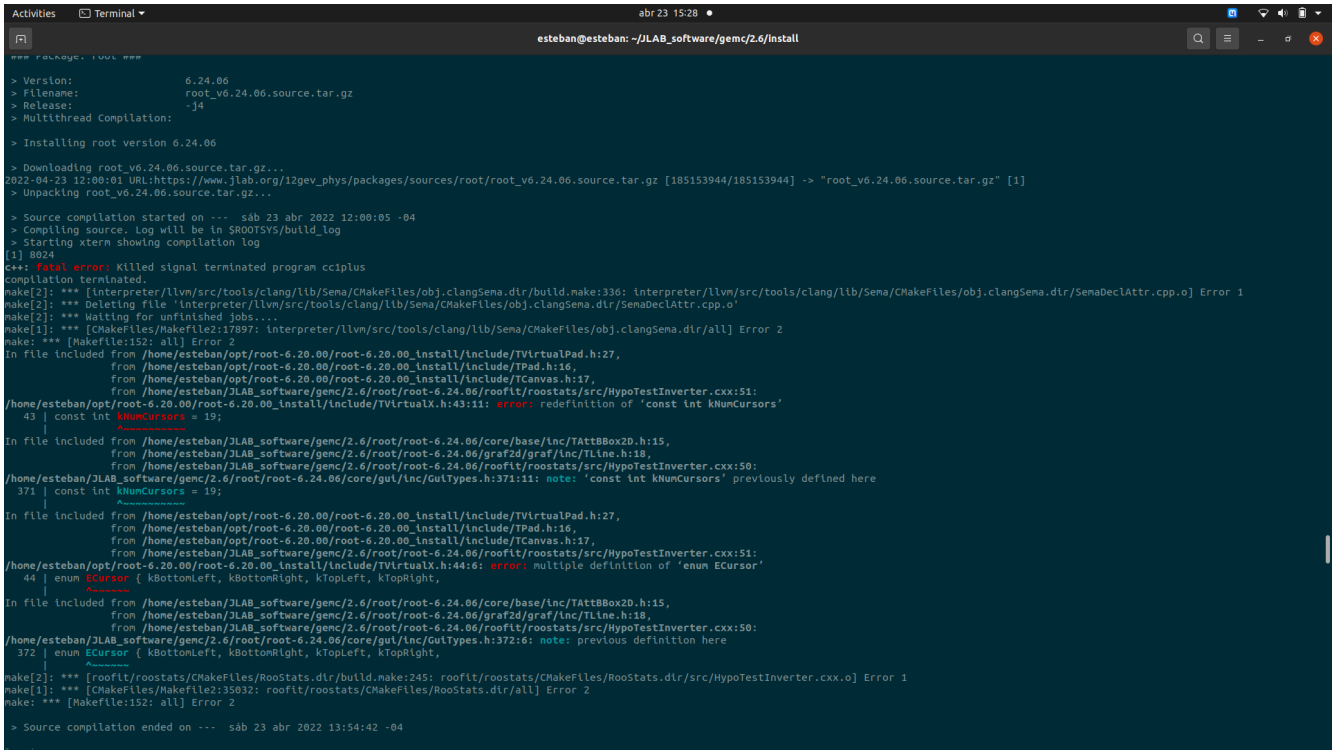
Problem 4: glibrary

When *scons* is executed in the glibrary folder, scons throws the following error:
Error: ROOT not found

Therefore; glibrary **needs** root installed. However! The version of glibrary located at gemc's github does not need it. I'll stick with this…

Problem 5: ROOT

The following error appears:



It seems that the version of ROOT I have installed in my machine is conflicting with the current installation.

Workaround:

- In ./ce/root.env replace the PROPOSED_INSTALL directory with your install directory.
- In ./ce/versions.env replace the ROOT_DEFAULT_VERSION with your installed version.
- That is it for now

Problem 6: GEMC

So gemc also has troubles. It says the 3.0 version does not exist.

- **Fix:** in versions.env change the default gemc version in the 2.6 case to 2.9

The **ISO C++17 does not allow dynamic exception specifications** error appears again!

- Try to fix it by adding in SConstruct the flags to use the other cpp versions. Another error: **It is not reading the GEANT4 libraries.**
    - **FIX:** When printing the flags I noticed that CXXFLAGS in SConstruct script includes the G4 libraries
- Here is another problem! If I append c++11 as the option of standard c++ to read, GEANT4 has problems! But EVIO looks good.
    - There is a new version of evio: Version 6.0 (I/ll check it out)
        - **EVIO 6.0** also works with c++11
    - GEANT 4.10.07 works with C+11!!!!! I'll use this
        - Version: **4.10.07.p03**

It worked changing geant's version!!!!

Problem 7: Open GEMC

So, now the issue is that when opening gemc with USE_GUI=1. I got:
qt.qpa.plugin: Could not find the Qt platform plugin "xcb" in ""

Temp fix: *export QT_PLUGIN_PATH=/usr/lib/qt/plugins*

Maybe I should purge QT and do the whole thing again…

To uninstall qt : Here the instructions

NOTE: After doing the whole install again I successfully managed to execute gemc with visual mode!

How?

- Download ceInstall2.5
- Change SCons version to 1.10 in the **versions.env** file
- It is not necessary to install glibrary for gemc<=2.9