



REST-for-Physics Framework

0.2 ROOT compilation preparation

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Outline

- Introduction
- Installing ROOT binary (tested on Ubuntu 22.04 WSL)
- Installing ROOT from source (Linux and WSL)
- Installing ROOT in MacOs



- ROOT installation page https://root.cern/install/
- Check your distribution and install required packages (if you are using WSL Ubuntu-22.04 should be already done), otherwise check ROOT installation prerequisites https://root.cern/install/dependencies/
- We target to the latest stable ROOT release 6.26/10 https://root.cern/releases/release-62610/

Installing ROOT binary



Installation instructions:

- Open a terminal
- Download ROOT release 6.26/10 binary for Ubuntu-22.04 "wget https://root.cern/download/root_v6.26.10.Linux-ubuntu22-x86_ 64-gcc11.3.tar.gz"
- Untar the file "tar xvzf root_v6.26.10.Linux-ubuntu22-x86_64-gcc11.3.tar.gz"
- A folder named root must be created



Installation instructions:

- Source ROOT installation "source ~/root/bin/thisroot.sh"
- Run ROOT in the terminal using "root"

Congratulations, you have successfully installed ROOT binary



If the pre-compiled version is not working you can attempt to install ROOT from source Installation instructions:

- Open a terminal
- Download ROOT release 6.26/10
 "wget
 https://root.cern/download/root_v6.26.10.source.tar.gz"
- Untar the file "tar xvzf root_v6.26.10.source.tar.gz"
- A folder named root-6.26.10 must be created

```
jgarciap@DESKTOP-N6F7QHK:~$ ls
root-6.26.10 root_v6.26.10.source.tar.gz
jgarciap@DESKTOP-N6F7QHK:~$ ■
```



Installation instructions:

- Navigate to the root source folder "cd root-6.26.10"
- Create build directory "mkdir root build"
- Navigate to the build directory "cd root_build"
- Run cmake to check prerequisites and to generate "cmake -DCMAKE_INSTALL_PREFIX=../root_install -DCMAKE_CXX_STANDARD=17 ../"
- Check for errors if any
- Compile the code "make -j 8 install" (may take some time)
- Report compilation errors if any



Installation instructions:

- Source ROOT installation "source
 ~/root-6.26.10/root_install/bin/thisroot.sh"
- Run ROOT in the terminal using "root"

Congratulations, you have successfully installed ROOT from source