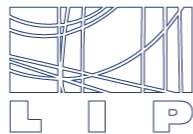


Introduction to Linux and C++

LIP Summer Internships, July 13th 2020

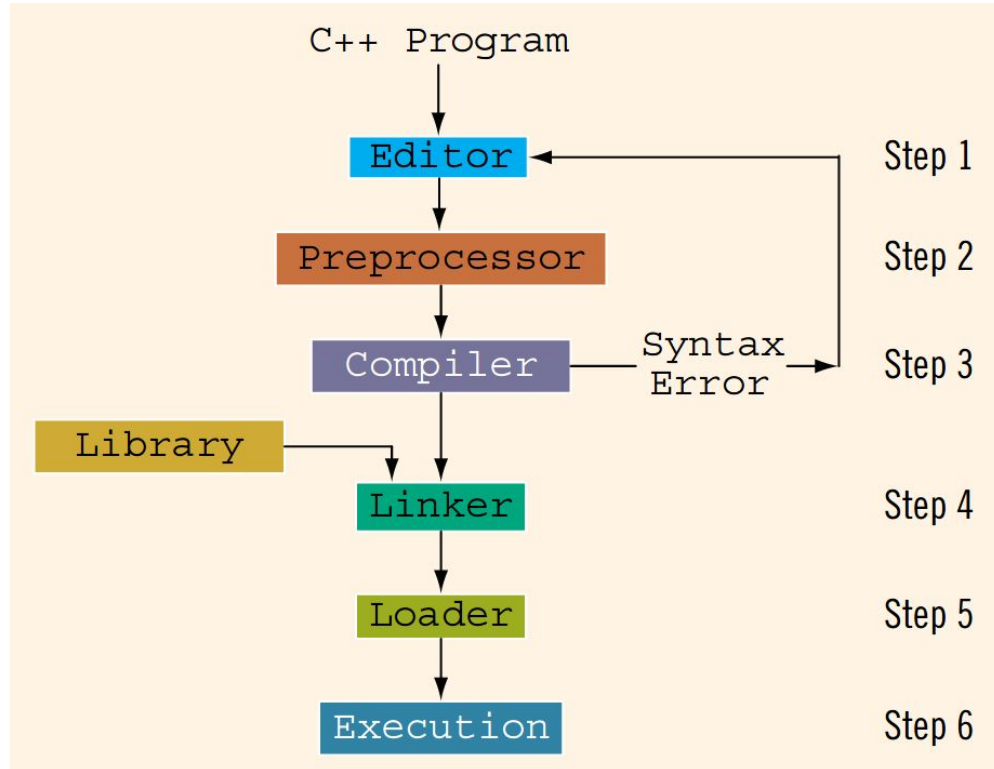


LABORATÓRIO DE INSTRUMENTAÇÃO
E FÍSICA EXPERIMENTAL DE PARTÍCULAS

Program of the tutorial

- Very short introduction to processing of a C++ program and demonstration
 - Live, on Zoom
- Hands-on exercises
 - Independent work, following [list of exercises](#) which can be found in the agenda
 - Support will be available on slack (join here https://join.slack.com/t/lip-internshipprogram/shared_invite/zt-fbacw5c7-Pi87gN4ipRycGp6i6oV23w). There is a specific channel for this tutorial: c-tutorial. You can use it to ask any questions about the exercises. LIP researchers/students will be available during the whole afternoon to help you!
 - What do the exercises cover?
 - Working in the terminal
 - Writing, compiling and running basic C++ programs: Hello world!, for loops and printing information to the terminal, working with arrays and conditional statements
- After the introduction and demonstration we will disconnect to allow you to follow the exercises on your own time. The Zoom room is available for 4 hours so you can remain connected if you wish to talk to the other students. I suggest we all connect back at 4:30 pm to discuss the progress. In the meantime, we will be available in slack!

Processing a C++ code



Very simple C++ code | Demonstration

```
#include <iostream>
#include <string>
using namespace std;
int main(){
    string answer;
    cout<<"Please answer yes or no"<<endl;
    cin>>answer;
    if(answer=="yes") cout<<"Hello world"<<endl;
    return 0;
}
```

Include C++ libraries. Give you access to *cout*, *cin* functions and to *string* data type

Create variable of type *string* called *answer*

Print sentence to terminal

The user must type an answer (yes or no) in the terminal. The value will be stored in the *answer* variable

If the user answers "yes" the program prints "Hello world" to the terminal