



B2 - Unix System Programming

B-PSU-200

Testing without doubting

Testing your project with criterion





Testing without doubt

binary name: unit_tests
language: C
build tool: Makefile



- The totality of your source files, except all useless files (binary, temp files, obj files,...), must be included in your delivery.
- All the bonus files (including a potential specific Makefile) should be in a directory named *bonus*.
- Error messages have to be written on the error output, and the program should then exit with the 84 error code (0 if there is no error).

WHAT IS CRITERION ?

Criterion is a simple and non-intrusive unit testing system for C and C++. This framework helps you to do unit tests on the different functions of your program.

Epitech has already written an excellent pdf on criterion. It is better to read it before starting the activity. You can find the pdf [here](#)



EXERCICES

In the following steps you will test all the functions in your library that you made during C pool with the help of criterion. you can try the returns of all your functions or you can check the the display of your functions on the standard output

STEP 1

Before write your tests with criterion you have to create a rule in your Makefile. Name this rule "tests_run".



Think about criterion compilation flags.

STEP 2

Create a folder named tests and add a file with the name of your first function you want to try in your library.



Don't forget the ".c".

STEP 3

Include criterion in your file to compile.



If you need to test the display on the standard output of your function, you will need to create a function that redirects to the standard output.



DO YOU WANT TO TEST MORE ?

If you have finished testing your library you can then clone this repository. Read the Readme.md to understand what the program does and always test with criterion all the functions of the program.



you don't have to implement anything aside the tests. The tests_run rule is already implemented.