

FirstProjectOMP

Dependencies

- CMake 3.9+
- OpenMP
- Python3 3.9.7
- Pipenv

How to run

Before running the execution make sure that you have the permission as administrator to run the example. To prevent possible errors it has been insert a command that gives right permissions to run the code properly.

1. Extract the folder and then run the following commands:

```
chmod 777 -R *  
mkdir build  
cd build  
cmake ..
```

2. Generate executables with `make`

3. To generate measures run

- `make generate_measuresOn2` to run the execution with time complexity $O(n^2)$
- `make generate_measuresOn` to run the execution with time complexity $O(n)$

4. To extract graphics and tables for speedup and efficiency from the .csv files run

- `make extract_measuresOn2` to run the extraction for the algorithm with time complexity $O(n^2)$
- `make generate_measuresOn` to run the extraction for the algorithm with time complexity $O(n)$

Results can be found in the `measures/measure` or `measures/measureOn` directory, divided by problem size and the gcc optimization option used.