Overview Document of the Artifact

- Getting Started Guide

Docker is required, the version used to run the container was: 20.10.17-ce

The command to download the docker image is:

$ docker pull fernandovn98/europar23:latest

In order to be able to reproduce the tests in MareNostrum 4 described in the paper it is necessary to have access to the MareNostrum 4 cluster.

- Step-by-Step Instructions

Once the docker image is downloaded in order to run the different local tests the next command should be executed:

$ docker run --rm fernandovn98/europar23:latest <app>

The <app> can be substituted with the following options: compss_classification, compss_regression, nested_classification and nested_regression. These tests were not included on the paper and have the unique purpose to demonstrate that the code works.

MareNostrum 4 tests are contained inside the mn_tests folder, where there are 3 different folders:

- COMPSs: folder containing the classical COMPSs approach.
- Nested: folder containing the nested code.
- Mllib: folder containing the Mllib scripts.

In the three folders there are different bash scripts to launch the different tests run on MareNostrum 4. Each folder also contains a README.md that describes more specific details to execute the tests.