



Distributed and Parallel Computing OpenMP Report

Pedro Rio
MSc Data Science and Engineering
Instituto Superior Técnico
97241

Sebastião Maia Serqueira
MSc Data Science and Engineering
Instituto Superior Técnico
97108

Eduardo Machado
MSc Data Science and Engineering
Instituto Superior Técnico
97133

1 Instructions

You must eventually submit the sequential and both parallel versions of your program (please use the filenames indicated above), and a table with the times to run the parallel versions on input data that will be made available (for 1, 2, 4 and 8 parallel tasks for both OpenMP and MPI, and additionally 16, 32 and 64 for MPI).

You must also submit a short report about the results (2 pages) that discusses:

- the approach used for parallelization
- what decomposition was used
- what were the synchronization concerns and why
- how was load balancing addressed
- what are the performance results, and are they what you expected

Both the code and the report will be uploaded to the Fenix system in a zip file. Name these files as g<n>omp.zip and g<n>mpi.zip, where <n> is your group number.

References

- [1] Joseph Wright. *Quick floats in LATEX*. Morningstar2.
- [2] Till Tantau. *The TikZ and PGF Packages*. Universität zu Lübeck.