Università della Svizzera italiana	Institute of Computing CI

High-Performance Computing Lab

Institute of Computing

Student: FULL NAME

Discussed with: FULL NAME

Solution for Project 3

HPC Lab — Submission Instructions

(Please, notice that following instructions are mandatory: submissions that don't comply with, won't be considered)

- Assignments must be submitted to iCorsi (i.e. in electronic format).
- Provide sources (e.g. C/C++ files, Matlab). If you are using libraries, please add them in the file. Sources must be organized in directories called:

 $Project_number_lastname_firstname$

and the file must be called:

 $project_number_lastname_firstname.zip\\project_number_lastname_firstname.pdf$

- The TAs will grade your project by reviewing your project write-up, and looking at the implementation you attempted, and benchmarking your code's performance.
- You are allowed to discuss all questions with anyone you like; however: (i) your submission must list anyone you discussed problems with and (ii) you must write up your submission independently.

This project will introduce you a parallel space solution of a nonlinear PDE using OpenMP.

- 1. Task: Implementing the linear algebra functions and the stencil operators [35 Points]
- 2. Task: Adding OpenMP to the nonlinear PDE mini-app [50 Points]
- 3. Task: Quality of the Report [15 Points]