# Introduction

This report aims to serve as an analysis and documentation for the process of parallelisation of the maxwell source code provided by the assignment. Three versions of parallelisation are needed for this assignment, respectively a On-node parallelisation with the help of OpenMP, The Message Passing Interface (MPI), CUDA;

# Parallelisation Approach

## On node parallelisation - OpenMP

# Validation

The validation process used to verify the correctness of your applications.

# Experimental Setup

A summary of the systems used for performance evaluation and an account of the process of collecting results.

# Performance Evaluation

Appropriate data demonstrating the performance and scaling behaviour of your applications.

# Comparative Analysis – Conclusion for it

A comparative analysis of your three applications. And the conclusion;