**Work Assignment Report**

**University of Minho**

**Master in Informatics Engineering**

Distributed Parallel Computing

Advanced Architectures

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# Abstract

# Introduction

# Hardware Platform

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## Characterization

* Manufacturer: MSI
* Model: GE60 2QE 1026XPT (Apache Pro)
* CPU chip
  + Manufacturer: Intel
  + Model: Core i7-4720HQ
  + Reference: [Link](http://ark.intel.com/products/78934/Intel-Core-i7-4720HQ-Processor-6M-Cache-up-to-3_60-GHz)
  + Number of Cores: 4
  + Number of Threads: 8
  + Base Frequency: 2.6 GHz
  + Maximum Turbo Frequency: 3.6 GHz
  + Instruction Set: 64-bit
  + Architecture: Haswell
  + Peak FP Performance: ????????????????????????????????
* Cache
  + L1 Data Cache Size: 4 x 32 KB
  + L1 Instructions Cache Size: 4 x 32 KB
  + L2 Unified Cache Size: 4 x 256 KB
  + L3 Unified Cache Size: 6144 KB
* RAM
  + Size: 8 GB
  + DDR3L (Double Data Rate Type 3 Low Voltage)
  + 1600 MHz
  + Latency: 11 clocks
  + Maximum Memory Bandwidth: 25.6 GB/s