# Multi-core Architectures 2020/2021 Parallel implementation evaluation report

1. Project details

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| Project title: |  |
| Student’s name: |  |
| Index number: |  |
| Email: |  |

1. Description of data used for experiments (including examples, when possible)

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1. Environment #1 description

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| --- |
| *Operating system, CPU/GPU model, libraries versions (CUDA, OpenMP, MPI, etc.)* |

1. Environment #2 description

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| --- |
| *Operating system, CPU/GPU model, libraries versions (CUDA, OpenMP, MPI, etc.)* |

1. Test results

|  |  |  |
| --- | --- | --- |
| **Implementation** | **Execution time\*** | |
| **Mean [s]** | **Uncertainty [s]** |
| <Impl. #1 name> (e.g. OpenMP-based) |  |  |
| <Impl. #2 name> (e.g. CUDA-based) |  |  |

\* calculated over 10 executions, uncertainty calculated as:

1. Implementation #1 details

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1. Implementation #2 details

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1. Survey

Fill the answers for questions related to frameworks that you used in your project:

* 1. How many lines of code did you write for:
     1. OpenMP implementation: …………….
     2. CUDA implementation: …………….
     3. MPI implementation: …………….
  2. How would you describe programming difficulty of each framework/interface in 1-10 scale (1 – easy, 10 – difficult):
     1. OpenMP: …………….
     2. CUDA: …………….
     3. MPI: …………….