**Assignment PCP1**

Course Code: CSC2002S

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1. **Methods**

* Your parallelisation algorithms
* How you validated your algorithms (showed that they are correct)
* How you timed your algorithms accurately
* How you established the optimal serial threshold for your fork/join algorithms
* The machine architectures you tested on and
* Any problems/difficulties you encountered

1. **Results**

With speedup graphs, plot graphs to show how the parallel algorithms scale with image size, the size of the median filter window, and on (at least 2) different computers. Graphs should be clear and labelled (title and axes).

This section should include a brief discussion that answers following questions:

* What is an optimal sequential cut-off for both parallel algorithms? (Note that the optimal sequential cut-off can vary based on dataset size.)
* For what range of data set sizes/ filter sizes do your parallel programs perform well?
* What is the maximum speedup obtainable with each parallel algorithm? How do they differ and why? How close is the speedup to the ideal expected?
* How reliable are your measurements? Are they any anomalies and can you explain why they occur?

1. **Conclusions**

Whether it is worth using parallelization (multithreading) to tackle this problem in Java.