UNIVERSITY OF LINCOLN

CMP3110M Parallel Computing, Assessment Item 1

Learning Outcome	Criterion	Pass	2:2	2:1	1st
[LO1] demonstrate practical skills in applying parallel algorithms for solving computational problems; [LO3] analyse parallel architectures as a means to provide solutions to complex computational problems.	Code demonstration and result interpretation	A working software component demonstrated, providing basic statistical summaries of the weather data (min/max/avg/std. dev.) using integer temperature values. The memory transfer and kernel execution times are provided. Coding style is readable. The answers provided indicate a basic understanding of the employed parallel patterns.	A working software component demonstrated, providing basic statistical summaries and some attempt at optimising the code using integer temperature values. Performance of the program is provided. Clear coding style with code comments. The answers provided indicate a fair understanding of the employed parallel patterns.	A working software component demonstrated, providing basic statistical summaries with well optimised kernels using real temperature values. Performance of the program is clearly reported and interpreted. Clear & well commented code. The answers provided indicate a good understanding of the employed parallel patterns.	An excellent implementation featuring basic statistical summaries and median-based statistics on real temperature values. Optimisations based on local memory are considered. Program performance is clearly reported and interpreted in detail. The code is optimised, efficient, well-structured and -commented. The answers provided indicate a very good understanding of the employed parallel patterns.
Weighting	There is a single criterion for this assessment item.				