

CMP3110M Parallel Computing, Assessment Item 1

Learning Outcome	Criterion	Pass	2:2	2:1	1st
<p>[LO1] demonstrate practical skills in applying parallel algorithms for solving computational problems;</p> <p>[LO3] analyse parallel architectures as a means to provide solutions to complex computational problems.</p>	Code demonstration and result interpretation	<p>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.</p> <p>Coding style is readable.</p> <p>The answers provided indicate a basic understanding of the employed parallel patterns.</p>	<p>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.</p> <p>Clear coding style with code comments.</p> <p>The answers provided indicate a fair understanding of the employed parallel patterns.</p>	<p>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.</p> <p>Clear & well commented code.</p> <p>The answers provided indicate a good understanding of the employed parallel patterns.</p>	<p>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.</p> <p>The code is optimised, efficient, well-structured and commented in detail.</p> <p>The answers provided indicate a very good understanding of the employed parallel patterns.</p>
Weighting	There is a single criterion for this assessment item.				