



Faculty of Computing, Engineering and Science

Assessment Cover Sheet and Feedback Form 2023-24

Module Code: IS1S482	Module Title: Computer Systems and Network Technologies	Module Team: Ian Fitzell
Assessment Title and Tasks: A review of processor technologies		Assessment No. 1
Date Set: 15-Mar-24	Submission Date: 21-Jun-24	Return Date: 02-Aug-24

IT IS YOUR RESPONSIBILITY TO KEEP RECORDS OF ALL WORK SUBMITTED

Marking and Assessment
<p>This assignment will be marked out of 100%</p> <p>This assignment contributes to 50% of the total module marks.</p>
<p>Learning Outcomes to be assessed (as specified in the validated module descriptor https://icis.southwales.ac.uk/):</p> <p>1) Demonstrate practical and theoretical knowledge of key principles of prevailing computer systems and network technologies and the trade-offs that exist in their implementation.</p> <p>2) Demonstrate theoretical knowledge of key principles of prevailing computer systems and network technologies and the trade-offs that exist in their implementation.</p>
<p><i>Provisional mark only: subject to change and / or confirmation by the Assessment Board</i></p>

Marking Scheme:

	Fail	Narrow Fail	3rd Class / Pass	Lower 2nd Class / Pass	Upper 2nd Class / Merit	1st Class / Distinction
Task 50%	<input type="checkbox"/> 0% to 29% No/Very little evidence of research. No attempt to analyse subject. Poor presentation and discussion of topics	<input type="checkbox"/> 30% to 39% Very little evidence of research no synthesis. Little attempt to analyse subject. Poor presentation and discussion of topics	<input type="checkbox"/> 40% to 49 Minimal evidence of research very little/poor synthesis. Minimal attempt to analyse subject. Poor presentation and minimal/little discussion of topics	<input type="checkbox"/> 50% to 59% Some evidence of research with some synthesis. Some attempt to analyse subject. Adequate presentation and some discussion of topics	<input type="checkbox"/> 60% to 69% Good evidence of research with good synthesis. Good attempt to analyse subject. Good presentation and discussion of topics	<input type="checkbox"/> 70% to 100% Detailed evidence of research with detailed synthesis. Excellent attempt to analyse subject. Excellent presentation and discussion of topics

Submission Instructions:

1. Submit through blackboard, by the specified deadline, a single MS Word file containing your structured report detailing the outcomes of your investigations into identified topics.

Your submission will be submitted to appropriate plagiarism detection processes.

Assessment Description:

Task

Recently, Apple have moved to Apple Silicon/ARM processors as the power behind the next generation of their computer systems.

The use of different “brands” of processor not only provides some benefits but also some issues around performance and in some cases compatibility of software.

You are to write a report based around the evolution of the following processor families:

- Intel
- AMD
- AIM/PPC
- ARM/Apple Silicon

As guide, which is **not exclusive**, you should provide a very brief history about each of them or any others of note. You should provide some technical information around their key characteristics, provide some pro’s and cons and any other characteristics of note. Historical and contemporary comparisons are also expected.

Ultimately, you are to try to provide a rational/justification of Apples most recent move from your research? This does not need to be an endorsement, but any rationale/justification/opinion must be backed up with referenced factual research.

Your essay/report must not merely include “copy and paste” extracts from the original primary sources. You must use your own words, examples and diagrams to present the necessary detail and **MUST** be properly referenced.

For a guide to the marking scheme, please see above.

For help and support around academic writing, referencing and structure visit here:

<https://studyskills.southwales.ac.uk/>

The word count for this will be **2000 words not including references/bibliography**.

Good luck!

SUBMISSION:21st Jun 2024