The Examination

- 2 questions
- 40 marks per question
- 90 minutes
- Lab reports from CS1110 available in office
- Lab reports from CS1111 will not be collected
- Approximately 1 minute per mark

Question 1 [40 marks]

There are parts (a) - (h).

(a) [10 marks]

Parts 1-4 worth 4, 2, 1, 3 marks respectively.

All about the HDD.

(b) [8 marks]

Another peripheral we have looked at (the mouse).

(c) [5 marks]

5 things given, give the purpose for each. 1 or 2 sentence description.

Last thing is the ALU.

(d) [4 marks]

Talking about the bus.

(e) [3 marks]

Elements of operating systems, types, where we're going with them. (This for parts (e) - (h))

(f) [4 marks]

OS and parts

(g) [3 marks]

OS and parts

(h) [3 marks]

OS and parts

Question 2 [40 marks]

Parts (a) to (i)

(a) [2 marks]

Definition

(b) [4 marks]

A concept and a little bit of working with endianness

(c) [4 marks]

Talking about *words*

(d) [4 marks]

Some things in Samphire were *directives* to the compiler (`org 70`, e.g.) rather than instructions.

(e) [2 marks]

- Difference between two things

What do you get once the assembly language is assembled? Machine language. The machine instructions are made up of different parts (op codes, register identifications, etc.)

(f) [2 marks]

- Samphire generated code and meaning (hexadecimal numbers)
- Given code, look at it and describe the meaning of it
- One instruction
- 4 hex numbers in it (2 of which are the op code)

(g) [2 marks]

Registers are used to... (do things)

(h) [10 marks]

Samphire program

- memory
- perform operations
- output result

(i) [10 marks]

Samphire program

- keyboard
- hint: "reverse"