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10/03/17

Outline the four phases of the machine instruction cycle. [8 marks] Fetch, Decode, Execute, Store

Draw a block diagram showing the basic components of the CPU and how they interact with memory [8 marks]

- You need to be able to reproduce a block diagram
- 3 things that are important Control Unit, Registers, Arithmetic Logic Unit

MAR - Memory address register

The address where it's going to store data MDR - Memory data register Register definitions in powerpoint

Don't reproduce all information for instruction cycle - just understand them

14/03/17

Important data

Still there after computer is turned off

Outline two functions of an Operating System [4 marks] An operating system is software that controls the main functionality of a program. One function of an operating system is file management. File management - allocating memory to applications, storing & retrieving files User interfaces - controls the layout of user interface IB Question - Outline ALU

cache

(Primary) Memory (RAM) volatile Secondary Memory (hard disk) non-volatile Volatile memory is not going to last (won't be there next time you turn on) Non-volatile will be there IB Exam direct take: Explain how customer's data can be secure when two customers access a system at the same time [2 marks]. Word processor vs Text editor Text editor - good for writing code Q: Outline two characteristics of spreadsheets [2 marks] You can input text into it with any font or size, Linequently used data from the RAM The purpose of cache memory is to set aside addresses and data so that it may be retrieved to be methy to ke RAM, cache memory is volatile which means data is not persistent. Q: Describe primary memory [2 marks] Primary memory is the main components of a system that holds data, and apple is cache memory. Volatile Faster to access than secondary memory Examples System's volatile storage area Functions when the to high the optimum Access directly by the processor Q: Identify the needer or persistent storage Persistent storage is needed in order to store important Stather than regenerating and rection mportant dot: Data is input into columns and rows