

0	1
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When the processor writes data to the main memory it will make use of the address, control and data buses.

Explain how **each** of these buses will be used during this **write** process.

[4 marks]

0	2	.	1
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Some buses in a computer system have to be bidirectional, meaning data or instructions can travel both ways.

Explain why the data bus in a computer system must be bidirectional.

[2 marks]

0	2	2
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State **two** differences between how the Harvard and von Neumann architectures operate.

[2 marks]

Difference 1 _____

Difference 2 _____

03.1 Describe the role of main memory in the execution of computer programs.

[2 marks]

0	3	.	2
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Identify the bus that would need to be changed **and** state the change needed so that the maximum amount of memory addressable by the processor would be doubled.

[2 marks]

Bus to change _____

Change needed _____
