

A processor contains a number of registers.

Describe the contents of the following registers.

Program Counter (PC)

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Memory Address Register (MAR)

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Memory Data Register (MDR)

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[6]

A processor contains a number of special registers.

- (a) Explain the need for the Current Instruction Register (CIR) and describe how the data which it holds is used.

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..... [6]

Signals are sent around the registers of the processor using buses.

Name and describe **three** different buses used in the processor and state what they carry.

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3

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..... [6]