Revision Tasks



Subject: Computing System Architecture

Task 1

1(a). Ann wants to purchase a new computer and is looking at two models. The specification of the CPU in each computer is shown in **Fig. 1**.

Computer 1	Computer 2
Clock Speed 1GHZ	Clock Speed 1.4GHZ
Cache size 2MB	Cache size 2MB
Number of Cores 4	Number of Cores 2

When running a 3D flight simulator, Computer 1 is likely to run faster than Computer 2.	
Using the information in Fig. 1 , identify one reason for this.	
	[1]
(b). Identify two internal components that are not in Fig. 1, which could improve the performance of the computers.	
(a) Identify form events that take place during the fatch events avale	[2]
(c). Identify four events that take place during the fetch-execute cycle.	
	
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2. Gareth has a satellite navigation system (Sat Nav) which contains an embedded system. Define what is meant by an 'embedded system'.		
3. Alicia has designed a computer using Von Neumann architecture.		
Describe the purpose of two registers that are used by Von Neumann architecture.		
1		
2		
	[4]	