



Assignment On

Course Name: Computer Architecture

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Answer to the question No! 26

Cache Memory!

* Cache memory is a special ligh-speed memory.

* It is used to speed up and synchronizing with high speed cru

* Cache memory is costlier than main memory or Dish

memory but economial than cov registers It cache memory is an extremly fost memory type that acts

as a buffer between RAM and the cou # It hold frequently requested dath and instruction so that they are Immediatly available to the con when

needel

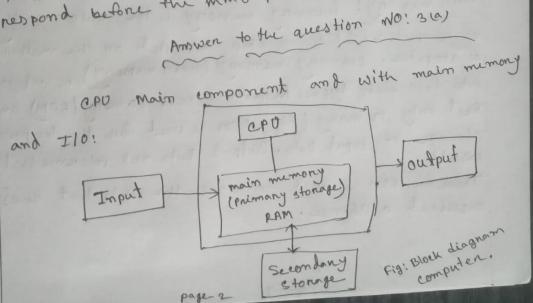
Main memory: Priemarry memorry is the main memory of computer. It is a chip mounted on the motherboard of computer. primary memory (main mimory) is categorised into two main types: Rendom Access Mimony (RAM) and Read only memony (ROM). RAM is used for the temporary Storage of imput Data, Output Data and intermediate Therefore, ROM is used to stone the Data that does not required a change,

Answer to the question No 02-(b)

- by Logical cache:
- + It is also know as a virtual cache
- # It stones data roing virtual addresses.
- * The processor accesses eache directly, without going through mmu;
- * Advantage: It is forsten than physical cache, Because the cache can nespond serone the mmu pos personn an address translation
- * Logical cache Erletual cache) stones Data using ritual addresses.

Physical caches:

- * A physical cache stones don't using main memory physical address. 33 cache address.
- * cache access speed of the logical cache is faster than for a physical cache, because the cache can respond before the mmu performs an address translation



A Standard fully featured desktop configuration has basically four type of featured device (Inlounit, memory)

- 1 Imput Drevice
- @ Output Device
- 3 Memony
- 1 Storage Device
- 1 Introduction to CPU
- 2 CPU
- 3 The Anithmetic/ Logic unit (ALU)
- 1 the control unit
- 6 main memory
- @ External memony
- @ Imput/output Divice
- 1 The system bus.

Amswere to the question 36)

Indinect addressing in 186 family!

- The address of the memony location in a neglister
- * The physical address is calculated using the content of
- # mag an east one of these resister is called BP or base pointe
- # If use Load BP with a number, than that number can
- then be used as the address of a variable.

mumber 344. Loaded the base pointer with the

of the memory Location pointed to by BP

* E. G2

* MOV CLBD: Move the content of DS: SI into CL * MOV BIJ, AH; Move the content of AH into DS: SI. A MOV [SI], AX; move the content of AX into memony; Location DS: SI and DS: SI +1

* As with the X86 CbxJ addressing mode, there four addressing mode reference the byte at the affect found in the bx, bp, s1, on di negister, nespectivly.