



معهد مصر العالي للتجارة و الحاسبات بالمنصورة

## Computer Organization and Assembly File

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**Computer Science**

## **Questions:**

- 1. List the access method on Memory?**
  - 2. Write notes about “Word” on Memory?**
  - 3. Write notes about Memory hierarchy?**
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[1]

1. Sequential
  2. Direct
  3. Random
  4. Associative
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[2]

**(Word):** The natural unit of organization of memory. the size of word equals the number of bits used to represent an integer and the instruction length.

[3]

**we decided to make Memory hierarchy to be easy to get our needs. So, we find in the top of Memory hierarchy**

in board memory

that contains:

- Registers
- Cache
- Main memory

Out board memory

that contains:

- Magnetic disk

offline storage

that contains:

- Magnetic tape

**we get that finally that:**

- Increasing access time
- Increasing capacity
- Decreasing frequency of access of the memory by processor
- Decreasing cost per bit

**Computer Memory Hierarchy**

