

23



main memory address 1 set 1 Bits

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ex: Consider abyte addressable main memory
Consist of 4blocks and Cocke with 2blocks
where each block is 4 byte?

- main memory size = 4 \* 4 = 16 byte

main memory address bits = 4 bits

- offeset contain 2 bits

block field Contain 1 bit

Tog block offset

main memory format

ex: consider abyte addressable main

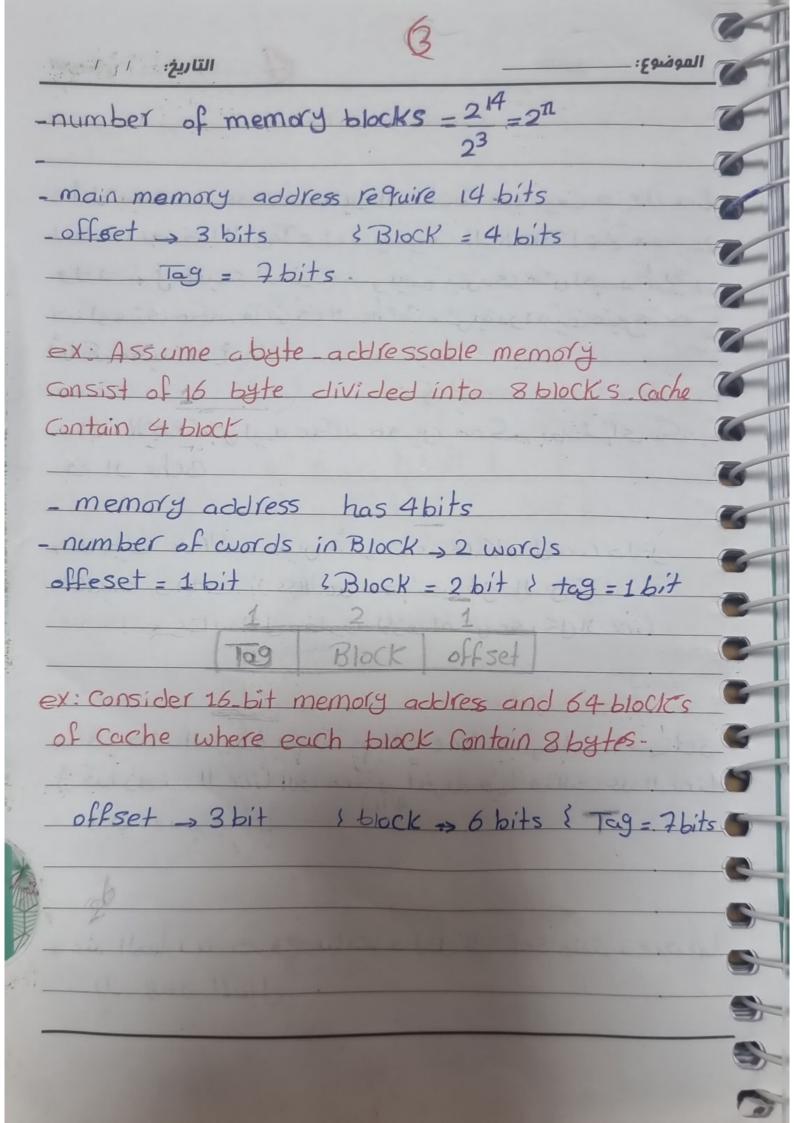
memory consist of 4 blocks and a Cache

with 2 blocks where each block is 4 byte?

ex: Assume abyte-addressable memory consist

of 214 byte, cache has 16 blocks, and each block

has 8 bytes





الموضوع:

اسريخ:
ex: two way set associative has line of 16 byte
and The total size 8 K byte, 64-Hbyte of
main memory That is byte addressable?
The other was the and the action of the delegance
· tal set = 26 lock, Line size = 16 = 24 byte
. Total size = 213 byte number of line = 29
number of line 15et = 28 _ 8bit
>address si2-26 bit
2. Hastagling Set offset
2 to2Hall408 808 4
-200-1 0 -000 2 1
(1) if N-1 The King mapping before diseal -
(2) if K-Total number of line Then K-way mapping
become fully associative mapping
ex = we are using 2-way set mapping with
byte addresable main memory of \$214 byte and
a Cache with 16 block, each block Contain 8 byte?
· each set has 2 block - There are 8 set in Oache
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Tag Set offset
8bit 3bit 3bits
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7