

* Example 62

Cach Blocks = 8

② Block = 4 byte

① MM address = 8 bit No.

1) Direct Mapping :-

① MM address = 8 bit

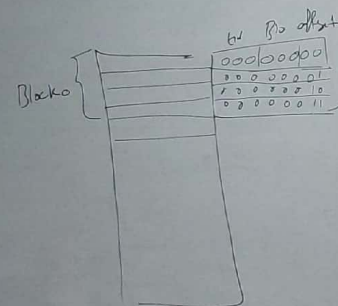
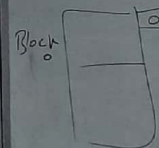
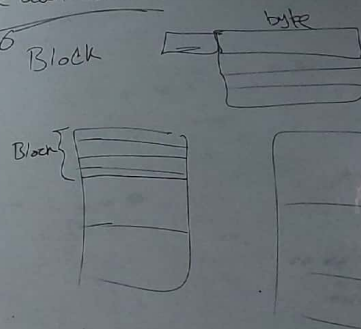
② Block = 4 byte = 4 address = 2^2

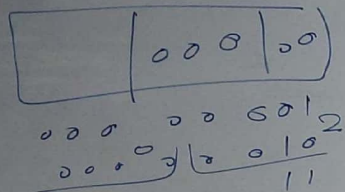
$Grh = 8 / \text{Block}$

$tag = 8 - 3 = 5$

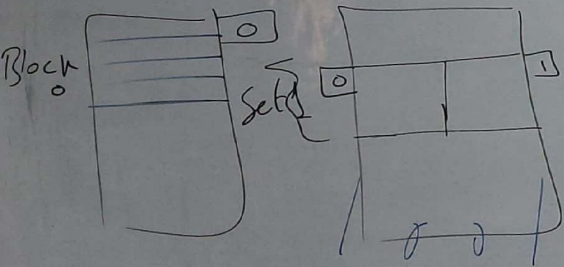
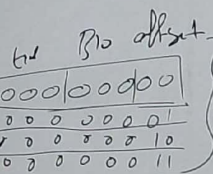
$$MM \text{ address} = 2^{12} \text{ byte address}$$

$$\frac{2^{12}}{2^2} = 2^6 \text{ Block}$$





Block



16 8 4 2 1

0x01, 0x04, 0x09, 0x05, 0x14, 0x21, 0x01

Hit/Miss

Hex	3	2	Miss/Hit	action	64 Bit
0x01	000	000	01	Miss	Copies → 0x03, 0x02, 0x01, 0x00
0x04	000	001	00	Miss	Copies → 0x07, 0x06, 0x05, 0x04
0x09	00	010	01	Miss	Copies → 0x0B, 0x0A, 0x09, 0x08
0x05	000	001	01	Hit	get address
0x14	000	101	00	Miss	Copies → 0x17, 0x16, 0x15, 0x14
0x21	001	000	01	Miss	overwrite → 0x23, 0x22, 0x21, 0x20
0x01	000	000	01	Miss	overwrite → 0x03, 0x02, 0x01, 0x00