

a) C.D., Writeback, ubicar

DIR

E	I	D
10	6	4

$$\left. \begin{array}{l} T_{cache} = 1 \text{ WiB} = 2^{10} \\ T_{linea} = 16 \text{ B} = 2^4 \end{array} \right\} N^{\circ} \text{Lineas} = 2^{10-4} = 2^6$$

i	j			<u>E</u>	<u>I</u>	
1	0	m(1,0) ↓ write	A200	28	20	FF(20)
		m(0,1)*	A004	28	00	FF(20)*
2	0	m(2,0)	A400	29	00	FF(R0) W
		m(0,2)*	A008	28	00	FC(R0)*
2	1	m(2,1)	A604	29	00	FC(R0) W
		m(1,2)*	A208	28	20	H:t* W
3	0	m(3,0)	A600	29	20	FF(R20) W
		m(0,3)*	A00C	28	00	FC(R0)*

BM Fig

0	1	0x28
0x20	0	0x29

b) C.D., Write through, No blk.

i	j			<u>E</u>	<u>I</u>	
1	0	m(1,0)	A200	28	20	FF(220)
		m(0,1)*	A004	28	00	W
2	0	m(2,0)	A400	29	00	FF(20)
		m(0,2)*	A008	28	00	W
2	1	m(2,1)	A604	29	00	Hit
		m(1,2)*	A208	28	20	Hit + W
3	0	m(3,0)	A600	29	20	FC(R20)
		m(0,3)*	A00C	28	00	W

	Fig
0	0x29
0x20	0x29

c) AC-2, Writeback, ubicar

E	I	D
10	5	4

$$\left. \begin{array}{l} T_{cache} = 1 \text{ WiB} = 2^{10} \\ T_{linea} = 16 \text{ B} = 2^4 \end{array} \right\} \begin{array}{l} N^{\circ} \text{Lineas} = 2^{10-4} = 2^6 \\ N^{\circ} \text{Covj} = 2^{6-1} = 2^5 \end{array}$$

i	j			<u>E</u>	<u>I</u>	
1	0	m(1,0)	A200	51	00	FF(2 0/0)
		m(0,1)*	A004	50	00	FF(L 0/1)*
2	0	m(2,0)	A400	52	00	FF(R 0/0)
		m(0,2)*	A008	50	00	Hit (0/1)*
2	1	m(2,1)	A404	52	00	Hit (0/0)
		m(1,2)*	A208	51	00	FC(R 0/1)*W
3	0	m(3,0)	A600	53	00	FF(R 0/0)
		m(0,3)*	A00C	50	00	FC(R 0/1)*W

BM Efig

0	0x53
1	0x50

c) AC-2, Write through, No Ubar

i	j			<u>E</u>	<u>I</u>	
1	0	m(1,0) ^{write} ↓	A200	51	00	FF(2 0/0)
		m(0,1)*	A004	50	00	W
2	0	m(2,0)	A400	52	00	FF(2 0/1)
		m(0,2)*	A008	50	00	W
2	1	m(2,1)	A404	52	00	Hit(0/1)
		m(1,2)*	A208	51	00	Hit(0/0) + W
3	0	m(3,0)	A600	53	00	FF(2 0/1)
		m(0,3)*	A00C	50	00	W

Fig

{	0x51
	0x53