

Secuencia de, 8h, 16h, 0h, 12h, 8h, 100h, 20h, 208h

16h, 22h, 129h, 126h, 30h, 32h, 116h, 0h, 200h, 59h, 72h

$$C = 16 \quad \begin{cases} \rightarrow B = 4 \\ L = 4 \end{cases}$$

00 pt 4 setura
00 pt 2 setura

0h = 0...0-00-00-00b → cu val 0h
8h = 0...0-00-10-00b → cu val 8h
16h = 0...0-01-01-10b → cu val 16h
12h = 0...0-01-00-10b → cu val 12h
100h = 0...100-00-00-00b → cu val 100h
20h = 0...0-10-00-00b → cu val 20h
208h = 100-00-10-00b → cu val 208h
22h = 0...0-10-00-10b → cu val 22h
129h = 100-10-01-00b → cu val 129h
126h = 100-10-01-00b → cu val 126h
30h = 0...0-10-00-00b → cu val 30h
32h = 0...0-11-00-10b → cu val 32h
116h = 100-01-01-10b → cu val 116h
200h = 100-00-00-00b → cu val 200h
59h = 0...1-01-01-00b → cu val 59h
72h = 0...1-11-00-10b → cu val 72h

a) directā

$$C=16, L=4, B=4, m=1 \Rightarrow S = B/m = 4 \Rightarrow$$

\Rightarrow 4 seturi cu 1 bloc

Instructione	Tip H/M	SET 0	SET 1	SET 2	SET 3
LD 0h	Miss compulsory	<u>0h</u>			
LD 8h	HIT	<u>0h</u>			
LD 16h	Miss compulsory	<u>0h</u>	<u>1h</u>		
ST 0h	HIT	<u>0h</u>	<u>1h</u>		
LD 12h	HIT	<u>0h</u>	<u>1h</u>		
LD 2h	HIT	<u>0h</u>	<u>1h</u>		
LD 100h	Miss compulsory	<u>10h</u>	<u>1h</u>		
ST 00h	Miss compulsory	<u>10h</u>	<u>1h</u>	<u>2h</u>	
LD 108h	Miss compulsory	<u>20h</u>	<u>1h</u>	<u>2h</u>	
ST 16h	HIT	<u>20h</u>	<u>1h</u>	<u>2h</u>	
LD 22h	HIT	<u>20h</u>	<u>1h</u>	<u>2h</u>	
ST 128h	Miss compulsory	<u>20h</u>	<u>1h</u>	<u>12h</u>	
LD 126h	HIT	<u>20h</u>	<u>1h</u>	<u>12h</u>	
LD 30h	Miss compulsory	<u>10h</u>	<u>1h</u>	<u>12h</u>	<u>3h</u>
LD 52h	HIT	<u>20h</u>	<u>1h</u>	<u>12h</u>	<u>3h</u>
ST 116h	Miss compulsory	<u>20h</u>	<u>11h</u>	<u>12h</u>	<u>3h</u>
ST 0h	Miss compulsory	<u>0h</u>	<u>11h</u>	<u>12h</u>	<u>3h</u>
LD 700h	Miss compulsory	<u>20h</u>	<u>11h</u>	<u>12h</u>	<u>3h</u>
LD 54h	Miss compulsory	<u>20h</u>	<u>5h</u>	<u>12h</u>	<u>3h</u>
LD 72h	Miss compulsory	<u>20h</u>	<u>5h</u>	<u>12h</u>	<u>7h</u>

$$MR = 12/20$$

b) set associativa $\Rightarrow 1 < m < B \Rightarrow m = 2$

$C = 16, B = 4, m = 2 \Rightarrow S = B/m = 2 \Rightarrow$

\Rightarrow 2 setwa' cu 2 blocuri'

Instructione	Tip Hit/Miss	SET 0		SET 1	
0h	Miss comploay	0h			
2h	HIT	0h			
16h	Miss comploay	0h		1h	
0h	HIT	0h		1h	
12h	HIT	0h		1h	
8h	HIT				
100h	Miss comploay	0h	10h	1h	
20h	Miss comploay	2h	10h	1h	
208h	Miss comploay	2h	20h	1h	
18h	HIT	2h	20h	1h	
22h	HIT	2h	20h	1h	
124h	Miss comploay	12h	20h	1h	
126h	HIT	12h	20h	1h	
30h	Miss comploay	12h	20h	1h	3h
32h	HIT	12h	20h	1h	3h
116h	Miss comploay	12h	20h	11h	3h
0h	Miss comploay	12h	0h	11h	3h
200h	Miss comploay	20h	0h	11h	3h
54h	Miss comploay	20h	0h	11h	5h
72h	Miss comploay	20h	0h	7h	5h

MR = 12/20

c) complet asociativă \Rightarrow 1 set cu ζ ca 1

[illegible]

$$MR = 12/20$$