2 8 51	Kpogi Mnjig
	(Afreau autroinion). OI pooppies the cache prejidous 32 byte, cache SIR bytes, RAM 64KB.
Α)	Dusce to pejedos eus Sieuduvous se bits Kan nus xpneiponoioùtear auto anó eur cachp.
	Exortie RAM 64KB = 216 Bytes => 16 bit Every Juvers  Cache S12 bytes = 16 deathers = 24 => 4bit  32 bytes
	Enopievus j +ags realitini nešu 2 4 5
B)	Na Swiete ers peaplies zus cache etis envies averetor xisovan or Sievenioris penfins 135 kar 49311, nou erva
	ετο δεμαδιμό.  τος Σ
i)	135 = 6 0 0 0 0 0 0 0 0 0 0 0 1 1 1
	Enolishis son forthing 8.  IISTINIISTICATION 8.  INTERIOR TOTAL TO
ii)	49311 - 11 0000 0100 11111 Enoperius naise populai 8.
7)	Na Sweete en hefadicepn war prupôzepn Sieidwan zug
	RAM now avElEcolxisovan er poethi 4 rus cache, exposition eto Sena Esasino eperula.
Ś	Mixpocepy = 10000000 10100 100000 Noura Ensur 000  DENCE Sabino = 100 (portion ACEN Ovailly Kanen 17
	DEVARGASINO = FOR PORT FOR AND MARGINA VOYCE
	MANOCEDU OLO ELLOSOSINO =

A6 (2-way), & popules 16 bytes. PAM 64K Bytes, cache 256bytes
a) Aviore zur availuon zus Sieuduvous erec oños xpnoipo
Moisital and the cache
Example 64 KBytes = 216 Bytes => 16 bit Scendwarg
Cache: 256 bytes = 16 featilis
16 bytes
$(2-way)$ : $16 = 8 6 woda = ) 2^3 = 73 bit$
1 ESU 166418 = 94 => 46i+5
tag suiolo resu
LIFO = ME Baisu ou ouxudava
B) 113A = 0001000000111010 Miss Directory
4444 = 10 100 01000 1100 Miss Set
1123 = 000100010 0011 Miss Sett
3328 = 100110011010101010 MISS
3852=[0011101101010] MISS SH2 (000100010
7777 = 0111011101111 MISS SETE ( 001100410
6666 = 011001100111010110 MISS Set 3 (000100010
1234 - 00010010010100 MISS 000100100
125A = 0001 00100 1010 Miss 5014 (001110110
010001000
Set S ( 0011 10110
0001 00100
SP16 (011001100
(P+7 (O11101110

+	(2-way) =) 2 Signivosis finoposis us perfection. ) Dieudysels now proposis va to node tudost sto osioso $1 = 2^{9} \cdot 2^{4} = .512 \cdot 16 = 8192 Signivosis rudovės$
0	1 = 23. 24 = 512 16 = 8192 SLEVBUYBER MINES
	(Apron avacation)  (Apron avacation)  (O) pappies cache kan PAN 64 bytes, cache IKBytes kan
AS	RAM 128 KBytes.
A)	Exoupe RAM 128KBy+8 = 27 => 176i+ Siewweer =>
	cache: 1 kBytes = 24 featifies = 16 featifies
	tag (patitu) negu
в)	SII = 0000000000000000000000000000000000
	[16] [5] [19] [19] [19] [19] [19] [19] [19] [19

-	) pikooteon = 0000000 0100 000000 Baju profunca
	1 DEMassadino = (JOO)
	MEJADUTERON = [11] [1] [0] Noura 3 pussenuo papo
	DEKaszasino = Far Dos (VEROF) IFOSF 6Tà
	1FD3F
7	Anarterian eigs ofeping
6	Ancyrouse 4 sulvertes
Au	(2-way) opposition se franchies 32 bytes. RAM 64 KBytes
	carche 256 bytes
	( 1 m 1 m 1 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m
<u>a)</u>	Exorpse RAM GURBYTOS = 216 BYTES = 16 bits Siendwesers
4)	255 - 8 toublies
	256 - 8 deappies
	(2-way): 8/2 = 4 suoda
1	(America) many
	tag zviolo neśu
	9 9 5
.1	2 2 10 (Mariles 200) (18)
-	
8)	23AB = 0010 01101 0101 MISS Directory  4B4F = 010010110110110110 MISS 5010 (0011 10001)
	4841 = 6108 (0110) 110 (110)
	FFFF = MIV (III) MISS MISS COLO COLLI
	2121 = 001000000000000000000000000000000
	SSS = 010101010 10 10 10 10 MISS 0010 0010
	3890= 001110000
	95AC = 00 10 00 111
10	23HD = 001000011110 1 100.00
-	in the Dorlorion avois
0	Anarrouvier 2 sujupries des au o Jonornion avenis
0	and pring.

13 8MBRAM, 64KB cache Kade doubles ous cache 64 bytes A) i) (4-way): 64KB = 1KB pappies (4-way) =) 1KB - 216 = 28 6 wo 20 Example 8MB = 223 Bytes => 23 bits Sieviswows tag Zviolo NEŽy 2° 4 συμειτές αφού εινά (4-μαγ) i) (8-μαγ): 14B = 2<sup>10</sup> = 2<sup>7</sup> σνόλοι 10 7 16 Bootupios agos sia (8-may) Madio Sepa (ache A (M)mas ousierous), conche B (Suscirious eurosus) A2 Kowsk Tegu 16yte Kade DESM 1 byte GUEUJUPITES 64 EUJUPITES IKBYTE 1 K Byte Bussic robuch A= UB &E DESMS RAM EKB Da proposise un pru bivis prépentes règus JEEL, OTI da EIVON ABYTE

RAM 64 KB = 215 Bytes => 16 bit Scenduroes Avoy: Fra TUV A: 10 oil EVEL BU Extupites => Exel Bu fpathe Enopsius: IKB = 26 (=) X = 210 (=) tag NESU Encisis A=4B=) B=A=) B=4 Deser Encous to Jejovos ore exer ou cojeptes =) Evan (64-way); Tupor da Bpw to Minds ou feather 118-210-28 foodsess news named to the solders. (Eu-way) = 28 - 22 oviola tag Eviolo NEM 2 m (3) M E/E/OS Karalgion = 210,29 = 210 m