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(1). WT + WNA
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(2). CP + WA

Tm al = 10 no

RIW blogge renoin P = 100 no

TMP French Palaba = 80 no

% exenteron = 20%.

y bloger rolifudos = 33.33%

Tam Aciento (1) = 1.9

Tom Acietto (2) = 0.85

Para resolver este apartante prisero corrideranemos obteres el Tienpo de un acoro para las dos alterativas, y pare resolver la pregnita (melliplicareros ×1000 para eleterer el vote le 1000 aucros.

1):

Aplicande de Tiempo acceso o remoia

Tel Tra (TpfBloge - pm + [TpfBloge - pm + [Tpf

= 20 nr. 6.8/lectures = 16 nr liectures

Toma E = [motorboldelen. % continon = 80 ng. 0.2/enteror = 12 ng) continor

laso (2):

Tima = Tima E + Tima L = 11 not + 16 no / lecturoro = 32 no

Tima = 1000 Tima = 1000 - 32 = 32 000 ng

Blooge rollificatio: 2 Totallogent Tsa

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Timay = (1-m). Toat on. (Toat (Totallogent) millimate) = 1

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= 0.85.10 + 0.15 (10 + (2.100.0.3333 +(100+10).0.6666))=

= 30.99955 ha

Tmal = 1000 Tmal/E = 1000 - 30.99955 = 30999,55 no

b- Par u poquer que solo redizene lectures serie más vajido le apriós 1 yeu que más Mas imperedo con

la entera de un palabre quade tendra menero que la de un bloque delador a que un bloque tiese n tomaño superior al de una palabra.

```
Mente Genero I Mento
Problem 3.5
 CPV con les rigriertes constendicos:
  . CPI ideal = 1.5 idea/ing
  . Tc=long
  . # refino (no) = 1.6 ref/ino
                                                                          Tsf = Tsa + TpfBlox = Tsa + (TpfBloxM-pm JTpfBloxM. Ipm)
  . luke dades & instrucions 11
    a. TomaI = h. Tsa + m. TsF= (1-m). Tsa + m. Tsf = (1-m). Tsa + m. (Tra + (TpfBlock) pm + (TpfBlock) pm)
   . lacke doder and CB i WA
                     = (1-0.04) - Made + 0.04 . (Made + (Mouder · M))
                      = 0.96 ides + 0.44 ides = 1.4 ides
     b. Tmap = (1-m). Tsa+m. (Tsa. (TpfBlock. pm + ITpfBlock. !pm))
                     = (1-0.90) . Mide + 0.90. (Mide + (20 ides . 0.2 + Mides . 0.8))
                       = 0.90 arbs + 1.7 ailes = 2.6 wher
     C. Tima = (Tima I . # nr Ins + Tima D. # nr Dades). 1 = (1.4 ides - 1re) + 2.1 inler · 0.6 red ins) · (1 ins)
                                                                           = (2.96 cirles of ). (1 mg) = 1.85 viles
     Aplicante def. Atemp ejec. programa pI = CPI ideal + CPI moon

(CPI moon = nr. (Tma-Tsu)

(CPI moon = nr. (Tma-Tsu)

(CPI ideal + nr. (Tma-Tsu)). To

Hinr ejec. (CPI ideal + CPI moon)

Texec = Hinr ejec. (CPI ideal + CPI moon)

Hins ejec = 1 (dul enunicats)

V. 1. (1.5 + 1.6. (1.85-1)). 10 ns
```

= 1. (1.5 + 1.36). 10no = 2=86. 10no = 28.6 no

Pagns le toneño 8KB y TLB de 4 entrades (vernplago LRU)

				+ 1		
3+	1 + AM	1118	19/10/	11 12	13 14	15 16
110 11	2 3 4 5	4	1 2	2 3	3 3	3 4
[a] 6 0.	10 0 1 1	1 1 2	2 2	1	4 4	14 5
1 1 1	1 20	2 2 3	3 3	3 4		- C
+1H- b 1 7	1.1 1 LL	1	4 4	-4 (5)	2 2	3 (6)
(1)	2 (3) 3	3 3 (4			1	

At 10:3 missey i 1 ht who 4 identions of the N=512. 1000 = 512000 i linverent per iterior never de 512, portato a total form 1000 iterations of the N=512. 1000 = 512000 ; per tent gen 4 accordent tendrem #it = 512000 = 1000, en who iterates from 2 mode, 2 and per tend gen 4 accordent tendrem #it = 512000 = 1000, en who iterates from 2 mode, 2 and per tendrem tendr

b). Hereits de TLB = 4000 accessors - (1994 it - 1 miss, 3 miss de 6 it 0

= 4000 accessors - (1994 it - 1 miss, 43 miss de 6 it 0

= 4000 accessors - 250 misses - 3 miss = 3747 encerts

C) # Mines TLB = # allesson = # Enex TLB = 9000 - 3747 = 253 mines

	C). TI MOST	X			3 M	T
	1	1//	3 M	31	13 14 15	16
	d). 3 m 3 m	34 34	19/10	11 12	13 7	18
	34	12 6 4 8	1	6	6 + 1	+
	0 1 2	2 3 3	14/5	1 6	8 9	10
	9 0 0 1 1 2	1	6 6 7	17 8	10 11 11	12
Λ.	1 2 2 3 3	7 (3)	9 9	9 10		
1-	1 - 5	6677	8 8 1 8			
	6 1 4 19 13					

4096
8. # MinseTLB: Haceros. # EnerhTLB = 4000 - 2500 enerth = 1500 enerth.