Sersió 5 ex.4,5 i7 → Tema 3 (4) (1) Escriptura immediata (Verite thorough). Seuse caracga en car de falada (2) Exceptura quan orcenplacement (Copy back) i carroga en con de fallada. Tamps d'accès a mem. Cache: 10 mg 1. egoriptures: 20%. Y. Clace matificate: 33.33% Temps MP per excrimed was possents; 80 mg taxa d'excert: 0.9 (1) Temper Degia / exercise a MP: 100 mg taxa decreert: 0.85 (2) a) 1000 secresors # Tima = li tea + m. tef (1) Tra = 0.2.80 + 0.8 (0.9.10+0.1(10+100+10)) = 32.8 mg; 32.8.1000 = 32800mg X exx. Territor 1- xax tiva E-proaccis Total policies (2) True = 0.85 · 10 + 0.15 (0.3333(2 · 100 + 2.10) + 0.6666(100+7.10)) = 31.5 mg; 31.5·1000 = 31500 mg 6) L'alternatives 1 pages té més taxa d'encerte. C) Que el tomany d'un bloc sigui mé, gran que el tomany d'ense praula. (5) CPT ideal - 1.5c/i Tc -> 10 mes Nº red (in (mr): 1.6 red/i Cache d'instructione, i dader reporates Cacle dodg and copy back i write allocate a) Trua I = Too + m. Tyl = 1+0.04.10 = 1.4 cicles 6) Trad = Tro + m. Tof = 1+ 0.1 (15.0.8 + 20.0.2) = 2.6 cicles c) True = (1.4.1+ 2.6.0.6)/1.6=1.85 d) Toxec = N. CPI. To mr (True - true) CF Tideal + CPI men CPI mem = (1+0.6) (1.85-1) = 1.36e/s/CPI = 1.5+1.36 = 2.86 c/s Toxec = 1 · 2.86 · 10 = 28.5 mc = 28.6 · 10 - 9 & morel 50, 1. eri p 1000 iteraciones 1 pagina = 8 KB TLB de 4 entrades

for: cupl \$512+1000, 1.00i

x.eax = M[x.ax+ x.ex.4] gge end

(a) mose (1. dex, 1. esi, 4), 1. dox (B) addl 1. eax, 8 * 10 75 (1. dbx, 1. eq, 9) # MI 1. dbx + xex; 4 + 8.1024]=1.000

(C) morel y. eax, 16 + 1024 (y. ebx, y. ai, 4) # MEN. dx + y. ai. 4+ 16.1024] = y. eax 4 occasions a men *1000-4000 occaso addl \$512, y.c.i

B) 3748 11 12 13 18 15 4 5 5 1 1 1 9 10 a) 1 1 1 1 2 2 2 2 3 3 3 2 2 2 2 3 3 3 C) 252 4 5 5 5 3 3 3 3 1 4 4 11 12 13 14 15 16 6) 2500 5 6 7 8 2 3 3 4 5 9 6 6 4 6 7 7 P 8 8 1500