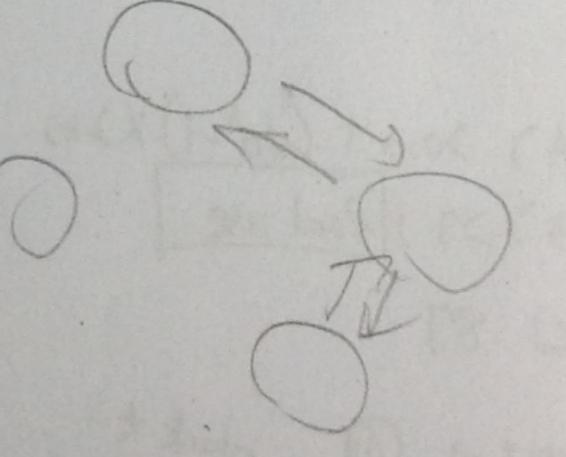
戏嘉駁 計組 2010 CA) F (B) F (C) T (D) T (E) F (F) F (G) F (H) F (I) T (J) F (A) 1120 ps = 1-Man + Reg. Read + ALU + Reg. Write (4) 2120PS 5煙都要 61W. (C) lw, 2120ps ::有1W:主加. (0) lw、sw (2120×35%+116×15%) 用到 data memory 的非計算 3 lw、sw (E) 2w. <u>120</u> 1900 時間: Iw全部都要 = 2120 1920 0-Mem: 1000×0.8=800 時間: Iw全部都要 = 2120 500+220+180+800+220=1920. TW不需要 Reg. Write = 1900 了 = 2120×35% + [400×15% of the property o forwarding可省—1回bubble. control = branch prediction (B) data + Thistraction scheduling (c) data - forwarding co) structural & increasing availability of po-functional units TTTNTNTTTNTNTTN NTTTNTNTTTNTNT 177

(B) TITINT NT NT NT NT NT NT N

10ns+ (N+Nf-1) x 2ns



TTTNTNTTTNTNTN NTTTNTNTNTNTNT

TTTWTWTTTWTWT