260 HW 7 pipelining Assume No read and write same time, no bypass, Imem unit no the same time CPT: Eycles = (17 cycles per loop) 100 1000 executions + 2 cycles = 339 CPT (5 loop instautions) 100 loops + 2 instauctions 2) Assume R': W register, no bypass, I men unit no else same time CPT = 6/T = 16.100 + 2 = 3.19 ary CPT 5.100 + 2 3) Assume Rink, no bypass, Mem can I'w same time CPT = 6/T = 14(100)+2 = 2.79 avg CPT 5(100)+2 4) Asume R': W regs bypass, mem r/w same time CPT = C/I: 12 (100)+2 = 2.39 arg CPT 502 5) Assume code executed on 2642 processor. What is execution time? Can code be changed to be faster? time = Ang CRI. IC 12.39 Acor 10.507 - 509,0 ps = .6 ns time = ary CPI. IC. Cycle-time (1/2-100) = 599,89 Code can be faster by Switching add and add to avoid a memory problem (add) and Sh use \$51)