11-type -> 50×106 instructions, 2 cycles 1-type -> 30×106 instructions, 4 cycles J-type -> 20×106 instructions, 3 cycles Total ance numbers à 12-type: 50×106 x 2 = 100×106 I-type: 30×106 × 4 = 120×106 ) 280×106 total J- type: 10 x 10 x 3 = 60 x 106 I-type takes the most time, so we should improve , , , New Hal age runder: 120 × 10 × 50 + (280×106-120×106) = 220×106 cycls (280-220) ×100 = %21,42 impoverent 280×106