3/2	0
	_

1. Performance = 1 Execution time n

?. Let, Performance x > performance y

Execution timen > Execution timey

Execution timey > Execution timex

performancey = Execution time y

Execution time y

3. Sequence of eyeles

seconds = eyeles seconds program (yele)

Clock rate

Clock rate

Clock cycle time

(Hz, MHz, GeHz)

Cycle time

(seeonds per cycle)

1 MHz = 106 Hz

1 Hz = 10-6 MHz

1 GeHz = 109 Hz

1 Hz = 10-6 GeHz

I se cond = 10 nanos econds | I see = 10 Millisecond 200MHz = 1 seconds per eycle

clock rate cycle time

4. Performance Equation 1: cpv dock egdes for a perogram x clock cycle time CPU execution time = for a program Cycle time CPU times Lock eyeles execution time cru dock eyeles clock rate 5. CPV clock eyeles = Instructions for X Average clock lydes per Instruction Total number of instruction CPI 6. Performance £923 Instruction performance Mix of 4,534 CPU time = Instruction court XCPI × clock cycle Time eloek eyeles - Instruction count XCPI clock nate. CPV dock eyeles F. CPT = Instruction count.