

High shi than	(1.0.) or (100 month are office) 22.00 2710
Date/_/_Page_noc_	Date: / / Page nor.
Performance of I of Throughput &	House the pay, for emution a job for
Sing # A B A is faster than B P: Performany	difference of the second
	and a mailing with new processor having
3 not foots (regionant() = r(x)	factor to all a factor process or
not equal for (A) = n P(B)	UK foots TP + 282
$n = \frac{P(A)}{P(B)} = \frac{ET(B)}{ET(A)} = \frac{TP(A)}{TP(B)}$	a miliprogrammy sum renoverst.
On B → 26 S	Contenting any See
to n= 204 = 10 0.8 = 18 = 0.8 Pp to 355 PA Pa is stame	CPU I'M Susy Consent Switching 1 ses. TO \$ 1 ses TO
@ A 9) Couly get have Ano: Po is footh 5 times	TP + 411 F(waiting) > I(Suntling)
Many Spullnight Raight Cassinger	
Million B 1350 4000 132	ADT 1 SES
to= 2.96 h P(A) TP(A) = 2.213 P(B)=2.2 P(A)	Cost tous west no feet, is not good
Job: mile all with a formy	Cost Pais wat no fact, is not good] [multiprograming is good]
(B) = TP(B) - TO(O) howy	The see I waiting time how my yes fall
$P(B) = TP(B) = TP(B) \times TP(B) = 6/0 \times 470 = 1.60$ $P(B) = TP(B) = 7P(B) = 1350 \times 132$	Content Swifting Told & see
Range: (Lust Rejusting 1) (& nucleus)	TP 1 Acc
But then too A > B (Raye)	Ry Convent Switching
B (Rayye)	

HERRI STREET	(Cristia man) 25. day, one group 25. day, one 35. day, one 36. day, on
Date: / Page no:	Dute:
CPU Time: Time required to encente a program.	fetching time - depends on nemony also along
mutical instructions per und time	In single operation if we can take program -
No of cycle required to per instructions program per und time.	In a operation -> n laterny
5 (for Program) duration of cycle Time = 100 cycle / x 10 s / program Time = 100 cycle / x 10 s / program	gor (CPV Time) -1 = Throughput . und = pragramo/time
CPUTime = No of eyels x eyels Terri 1	cycle? - Basis of clark inside computer.
DA1 Sprogram unit: cyclo/pregram to/cycle	CPU Time = No. of instructions x cycles per x cycle time Fox program instruction x word any most and the cycle time of any most
2) A program(306) program inspruction	CPU Time = Instruction × CPI × cych Time of count which time of a cycle.
g let is given (cept) → Standard term CPU Time: No of cycles (cour let.)	ond vice versa
Clock Rate = 1	Cycle Time & 1 & clock fate
Cycle 7; me No of instructions: fine	(an Enstruction count be shanged? Yes, y comp supports diff instruction set
sam type of operation No. of cycle per ; fined.	anchitecture.
Tack: Program Cycle Time: fined.	for instruction Time (ladd") < Time (3add")
Tim to enecute a preserve	Payorname a 1 & Throughput
instruction ward to compare	CPU Time

with the set and set of the set o	Control of the Contro
Auruge = E (cfi) ith x f(ith) & CFI Sing CPI in the Probability of the instruction. 3 9) operature fi CPI; Historialian. ALU 50% J Hix CPI; Load 20% 5 2-2 Store 10% 3	Date // Page 100. 10 10 = instact. X +12 id + 12 (400) 10 10 = X 1.2 'y (400 + 40) 10 = 410 400 = y + 400 = y = 400 New Clark Rats = 800 MH2
Brank 20%, 2 (DAT 9) Clock rate SOMH2 Find enemation time for 1000 instructions by cpi for program 3.5 Sot. (Sot.) (Soundien: 1000 x 3.5 x 50 M= 106 = 70 x 106 = 70 x 106 = 70 x 106 = 70 x 106 Sot. (Sot.) (Sot.	instruction IPC CPI X rycle Trince Trince Clock Cycle tate Trince Ste K Trince Trinc
Serjement = Clock Rati instruction court & CPI in 10 x To ensure a same program in 6 s what set to the Un rate. Note that any invuous in Uk CPI than older one	2 systems course and only

THE REAL PROPERTY.	and send a service	Control of the latest and the control of the latest and the latest
	30/3X.	Mine and land to
-	Date: Page no:	mips are easy to compute lut not thrue Date: / Page nor Andi extor
	1) No. of cycles per second -> Architecture defends "No. of cycles " "No. of cycles"	(Encertian rate) = (ipc) + x (lockrat) + = 0.7 x 100 = 70 mips.
Cit	No of rycles"	= 0,7 × 100 = 70 mips.
	3 Nord cycle x cycle Time = Constant	152) = (19C) x (constrate)
	B No. of cycles × cycle Time = constand even though individually differ There too preformance same	= 0.8 x 100 = 00 mype
	Then too payormana saline	Not a true indicator
		Pentium 200 MH2 < Pentium pro 150MH2
3	I) 2 meening having same instruction set audistructure	ferformen -
MAN A	Marlin A Marlin B	hosses rumary op. takes less time 1/0 operation
	Cloudyle = 10 ns 20 ns	Mund, y of house
(DA)	41:2	Run sam pragram
	Compan their performance	Leas Him
-	sat (Puyn) A . (iPC) x sips) . P	Butur.
2 A	enjoye (cex	But problem. I all with to.
W #	PA = 1.2 PB P CPUTION CPT X Cycleting	
	7	graphics Normal computer
	Q 2 compilers and 1. + 1	
	B) 2 compiler are tested for 100 MMz markines with Huse class of instruction A (1 cycle) B (2 cycle) c (3 cycle) Compiler: 5 M: A	306, A Craphico Gran fester Slaver,
-	Allaga planning elount	
	Mil min (100 of Monutions) office a)	" A program which has all kind of operations
-	Complin 2: 10M; & 1M; B 1M; C	". we need "computer Bernhmank"
	Chuled execution rate of 2 in mips	Standard programs to material computer perform
	Rate Clock Kata ALLENDE TOP	
	100MM2 (3types of instruction)	En deutoped by company then it can be bisand for
	Li Clasti (and	SPEC - developets computer hunhmark. Set of
1	1: crip = 1 (Smillin)	program
4-11	- 10 - 1 + 1 × 1 1 - 5	The state of the s
	12 12 3 100 = 1 instruction emory	

	AND SHE THOUGHT AND	State of the state
		The day of the second s
-	Date/_/Fage no:	AMAD CS. Program
	The same of the state of the same of the s	
	Bomp. Europerates are used to test the performance	Speed up of the System fine - Perg. new Speed up = Order smeeting A = Perg. new -
Siv	of a different making	News enution of A Pay and
	Decemberate is a program or set of program used to	
	cualisate the comp performance.	for single matters Speed up timile of encution
	3 It hots performance of a competer entenainely	Speed up gorthy
- 3	not only to test some pariscular features,	pornin of program
	Small Benchmarks can be casily twitten by computer rundor (Saignetter) but they	Cothurs sam
	computer rundor (Sixignet) Lint their	New execution time = ET (News)
DA	many manne	
	1) SPEC System P wyomname Graduat in	ET (new) = ET(Old) x (France) + Francis (manual) + Francis (manual) -
	It is consortium developed in mid of 908 to	
Q +	lung the common platform to del with stown	2 2n comment party actioned for
	of competer performance.	1 Claridad 10
	It's not arrely a small some level some	armind for 50 % for program
	frigame which are not with in all more	then man Shedup = 02 (tunce)
	of can be livesed.	for complete (Tala St enhanced ()
	3) comp. have account	i gantent la
	3) comp. have aggreed on a set of real programs	fruitional Enhanced -> major park partition
	Ditus grayamo du wentlen in high land language	on whole Sp SU = SVenhamed)
	So it is a valuable indication of H/w and s/w	
	5) Somony	3 A prog. owns in 100 s an a martine militially.
	5) Someone can design its marking instruction supported to	for 80%. How much to run y
	her are using set of pregrams and can dill be alward some	the SU multiplication is we want the program to many the sold multiplication is we want the program to many = 0.8 = 4-0.2
4	alused.	SUE & V = 0 = 0.50 Suin @ CU = 0.21
		Fine factor = 0.8 = 4-0.2 SU= 6 4 = (1-0.8) + 0.8 & Sun \$50.0.21







