	CSCT 113	Assignment 3	
Contractor	comp C1: flock rate = 700 M42		
	comp C2: clack rate: 800 MHz		
	run 1000 7	an C1: 10 sec on C2: 15 sec	
		on C1: 6 sec on C2: 8 sec	
		done C1: 400 mill	
	7, 7, 7, 1	C2: 500 mill	
	01	C1	
	700 M4	800 MH2 700MH2 802MH2 (C1-CPT-1 x400000 = 10.5	
	P2 10 Sec	600	
	400 mil	K2 COT: 1 6= 12 8	
(CPI = 17.5	24 10.5 12.8	
	CPU exe =	IC * CPI * CCT	
	Cpl = CO	*T(10	
	Cici	*IC (PI = 1 * 40x16 = 0.5714 = 17.5	
	Prog	1 /	
/ 2	*	$C2: CPI = \frac{15}{8 \times 10^{3}} \times 500 \times 10^{2} = 0.625 = 24$	
	9		
2)	<u>c1</u>	(1	
	700 MHz	800 MH2	
	6 sec	8 Sec	
(PI: 17.5	24	
TC =	240 mill	266 mill)	
(30		and the same of th	
	Cpvere -	I (* CPI * CCT Puere I * CCT 6 6	
	IC = CI	1 * CCT	
		C1: IC = 17.5 x (1x10) = 2.5 x 10 = 240 million	
		60 5 T = - 8 = - 2 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
/		C2: Ic = 24x(1/8x18) = 3x10-8 = 266 million	

· 3) C1: Clock rate: 600 MHz
CPI A: 2 CPI B: 2 CPI C: 3 CPI P: 4
Cz: clack rate = 700 MHz
CPIA: 2 CPIB: 2 CPIC: 4 CPID: 3
Find peak performances as instructions per second, usp MIPS rate
MIPS = Clock rate CPT x106
600 m H7 6X10
$C1: MIPS = \frac{600 \text{ M/L}}{1 \times 10^6} = \frac{6 \times 10^6}{1 \times 10^6} = \frac{6 \times 10^6}{1 \times 10^6} = \frac{600 \text{ MIPS}}{1 \times 10^6}$
C2: MIPS = 700 mb = 7×10 = 350 MIPS
CL. MIPS = 2x106 - 2x106 - 350 MIPS
Y) A modern of the contract of
4) A oach version gets 25% of the total # of instructions done (je)
CPU exe_c1 = I(*(0,25*1+0,25*2+0.25*3+0.25*3)*600442 CPU exe_c2 = I(*(0.25*2+0.25*2+0.25*3+4+0.25*3)*200042
CPUI PRI _CI - I C . (U. 1) * [1 0.1] * 2 + U. [) * 4 1 0.1] * 3 * 700 MHz
C1: IC *(2.5)*6x08 I (*(2.5)*6x08 - 4.167x109 - (1.0606)
C2: I(*(2.x)*\frac{1}{2.75}\#\frac{1}{1108} 3.931109
Computer C2 is 1.606 times faster than C1
5) CPU exe C1 = IC * CPI * clock rate CPU exe C2 = IC * CPI * clack rate
Part of the state
IC. * CPI, * clock nate = I/C * CPI, * clock nateg
2.75 * 7x108 - 2.5 * clock rate - 2.75 x108 - 2.75
63575 253 CCC
Charles and the section of the contract of the

6)	comp C1: CCT= 2.0 GHz CPU exe = 20 sec
	comp C2 is double C1's performance
	CCT = COURSE CZ
	Cler covered
	Clock Cyclect = CPV time x Clock ratect
	= 10 × 2 GHz
	$\frac{1.4 \times 40 \times 10^{9}}{10} = \frac{1.4 \times 40 \times 10^{9}}{10} = \frac{5.6 \times 10^{9}}{10} = 5.6 \times 10$
	Clack rate = 10 = 3.6×10 = 5.6 6H2
8	