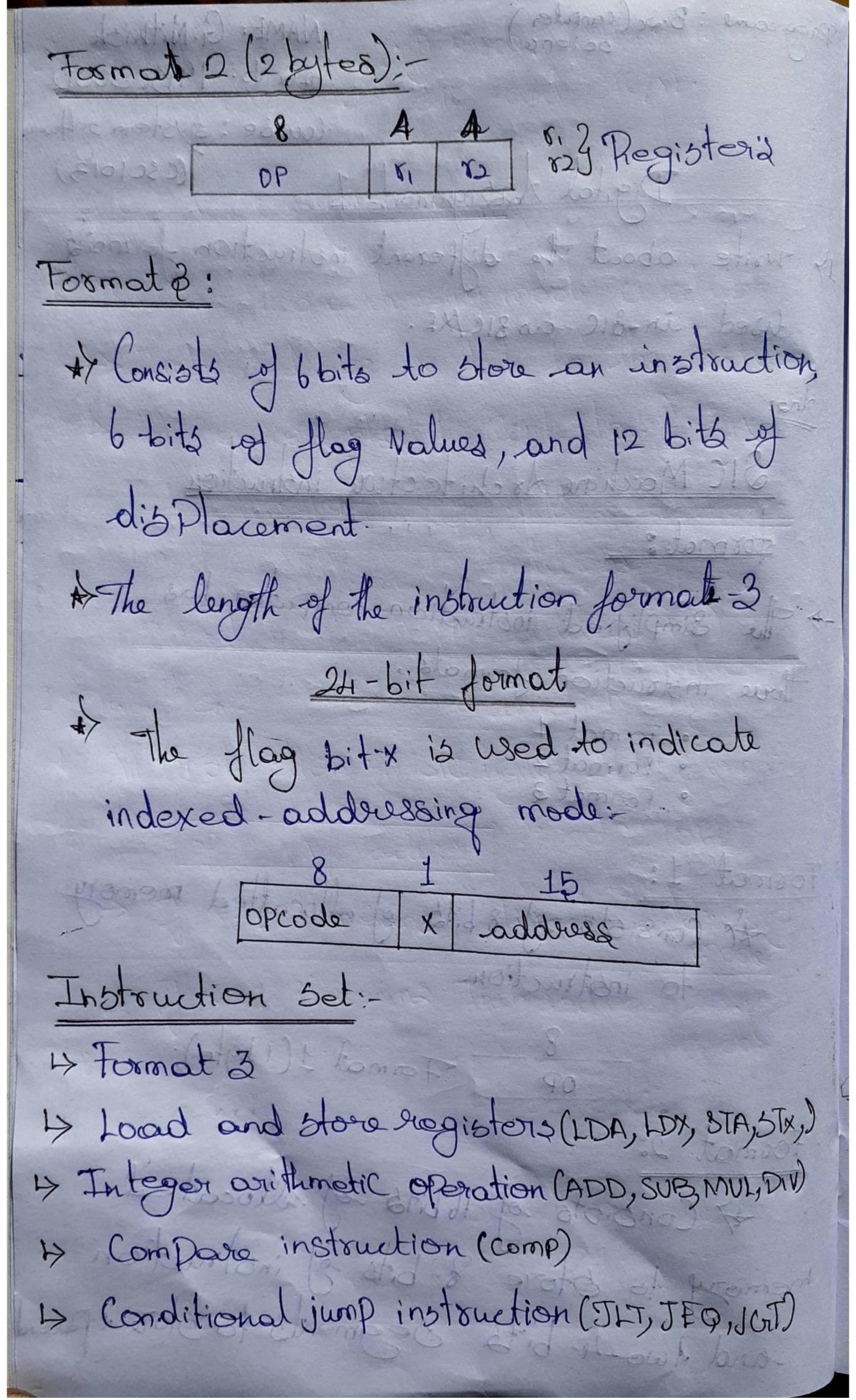
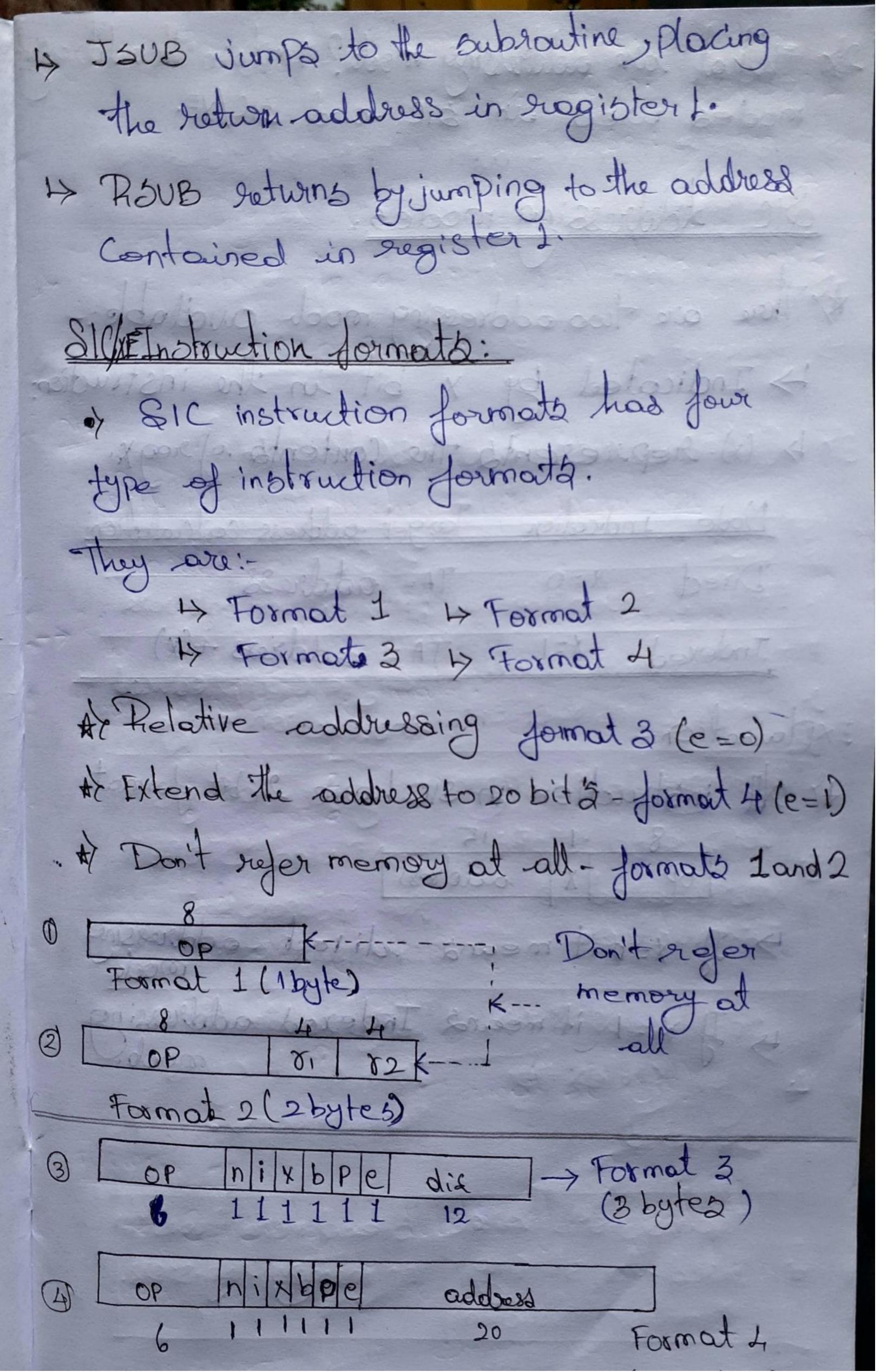
NAME: G. Nithish Programe: B.Sc (computer) HEG NO: 19BCS0012 Course: System software (CSC1013 Assignment- I write about the different instruction formails Used in SIC an SIC/XE. ied instruction computer has Hure instruction formaté. · Format 1 · Format 2 · Format 2 Format 1: Ar Consists of 8 bits of allocatted memory to instruction. Format 1 (1 byte); OP to Consists of 16 bits of allocated memory to store 8-bits of instruction and two-4-bits segments to store oferend





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24 what are addressing mode? Explain the addressing modes used in SIC and SICIXE.		
Sic Addressing modes:		
At there are two addressing mode available:		
1> Indicated by x bit in the instruction. 1> (x) represents the Contents of regx.		
Mode Indication Target address calculation:		
Direct N=0 TA= address  Indexed N=1 TA= address +(x)		
Explaination:		
instruction in sic have 24 bit format		
op x address		
> If x=pit means direct addressing		
15 J X=1 it means Indexed addressing mode.		
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## SICIXE Addressing 4 hixbpe n=0, i=0 (SIC) on n=1, i=1 4 Simple TA = Valus n=0, i=1 4 Immediate TA=(operand) n=1,i=0 > Indirect TA=(B)+disp 45 Base relative b=1,P=0 01 = disp 1= 4095 TA= | PU)+disp 1) Pe relative b=0,P=1 -2048L= disp L=204. Explaination de Jours de la constant de ·> If b=1, P=0 then it is Base relative and the target address calculation T(A) = (B) + disp (0 ± disp ± 4095 ) If b=0, P=1 then it is program counter relative and the tourget address TA)=(PC) +dis. C-2048 & disp < 2047) 4) Direct 6=0, P=0 Ta) = disp 4 Index+

X=1,b=1,P=0

Bouse relative

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> Index X=1	TAnew = TAOID + (A)	
> Indext X=1,600,P=1 TA=(Pi)+disp+(x) Pc relative		
-> Findent Direct X=1,b=0,P=0		
>> Format 4 e=1		
37 Compare Cisc and RISC (5 Points)		
Emphasis on Hordware	Prioc Fall-1000	
Fredudes multi-clock 2 Complex instructions.		
Memory to Memory	Register to Register "LOAD'and "STORE"	
Instruction.	the independent In struction.	
A High Cycles Por	Longe rode 5izes, Low clock cycles	
Second.	Per se cond.	
Transistors are used for storing	5 pend more transist	
ti used for storing complex instruction	on memory registers.	