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C SE 331.3

BSR mode and Mode O of 8255 PPI with 8085 and 8086

Task (i):

Find the port addresses of 8255 for intenfacing with 8086.

3) Port address for 8255 and 8086 intenfacing.

cs'	A15-	Aig	A ₁₃ A ₃	Az	A,	A.	Selection	Addness
0	ı	0	00	0	0	0	Pont A	(8000 H)
0	ı	0	06	0	0	1	Pont B	8001 H
D	,	0	00	0	ı	0	Pont C	8002 H
0	`	0	00	0	(1	Bontnol Registen	8003 H
1	×	×	¥×	×	×	X	No Selection	×

Task (ii):
What will be the CW in a 16-bits Control Word Register under mode o to make: Pont Al Pont-C-Upper as input pont and Pont B & Port C-Lower as output pont?

=>

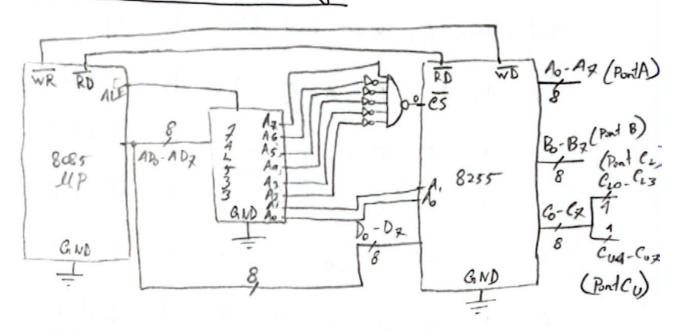
D ₇	D6	D5-	Dq	D_3	D ₂	D,	Do
1	Q	0	1	1	0	0	0
	mod	e-0	I/P 68 A	I/P of Cv	Mo	% of B	0/p of C

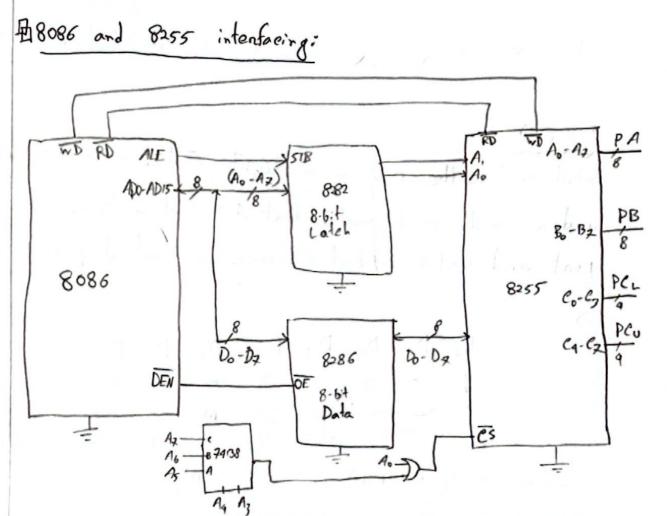
:. CW in 16-bit CWR is: (00 98 H)6

Tosk (ii):
Mode o of 8255 PPI with 8085 and 8086.

Q. Wnite both 8085 and 8086 connection diagram.

\$ 8085 and 8255 intenfacing:





Task (iv):

OTransfer data from Port A to B. DTransfer data from lower pont C to Uppen pont C.

Solutions:

Fon 8085:

OUT 83H // CR IN 80H / Read A OUT 81 H // WRITE TO B IN 82H // READ C, RRC 4 Shift Right 1 time RRC // 4 4 2 4 RRC // " " 3" ANI A, OF H OUT 82 H // WRITE TO CU HLT

HLT

MVI A, 98H // Read; CW Fon JO MOV AL 008H ; LOAD TO AL OUT DOB3H ; DISPLAY AL IN 00831.AL ; Output to pont IN AL, 8080H; IMNI FROM 0080H OUT 0081 H, AL ; OUT TO PORT B IN AL,0082H ; READ CL SHR AL, 4; Shiff Right 4-byte. AND AL, OFH. AND AL, OOOFH MOV AH, AL; MOVE TOAH OR AH, DOOFH OUT DX, Alt ; OUT FIROM CU