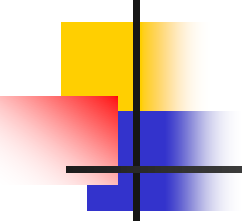


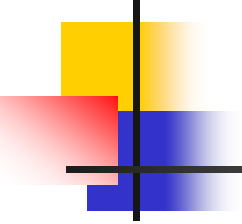
## 3.7. Programmable Peripheral Interface (82C55)



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- The 82C55 is a popular interfacing component.
- It can interface any TTL compatible I/O device to the microprocessor.
- It is used to interface the keyboard and a parallel printer port in PCs.
- It requires insertion of wait states if used with a microprocessor using higher than an 8 MHz clock.

# 3.7. Programmable Peripheral Interface (82C55)



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- PPI has 24 I/O pins that are programmable in groups of 12 pins.
- It has three distinct modes of operation.
  - Mode 0: is the basic input/output mode.
  - Mode 1: is the strobed operations
  - Mode 2: is a bidirectional mode of operations.

# 3.7.1. Pinout of the 82C55 PPI



## Group A

Port A (PA7-PA0) and upper half of port C (PC7 - PC4)

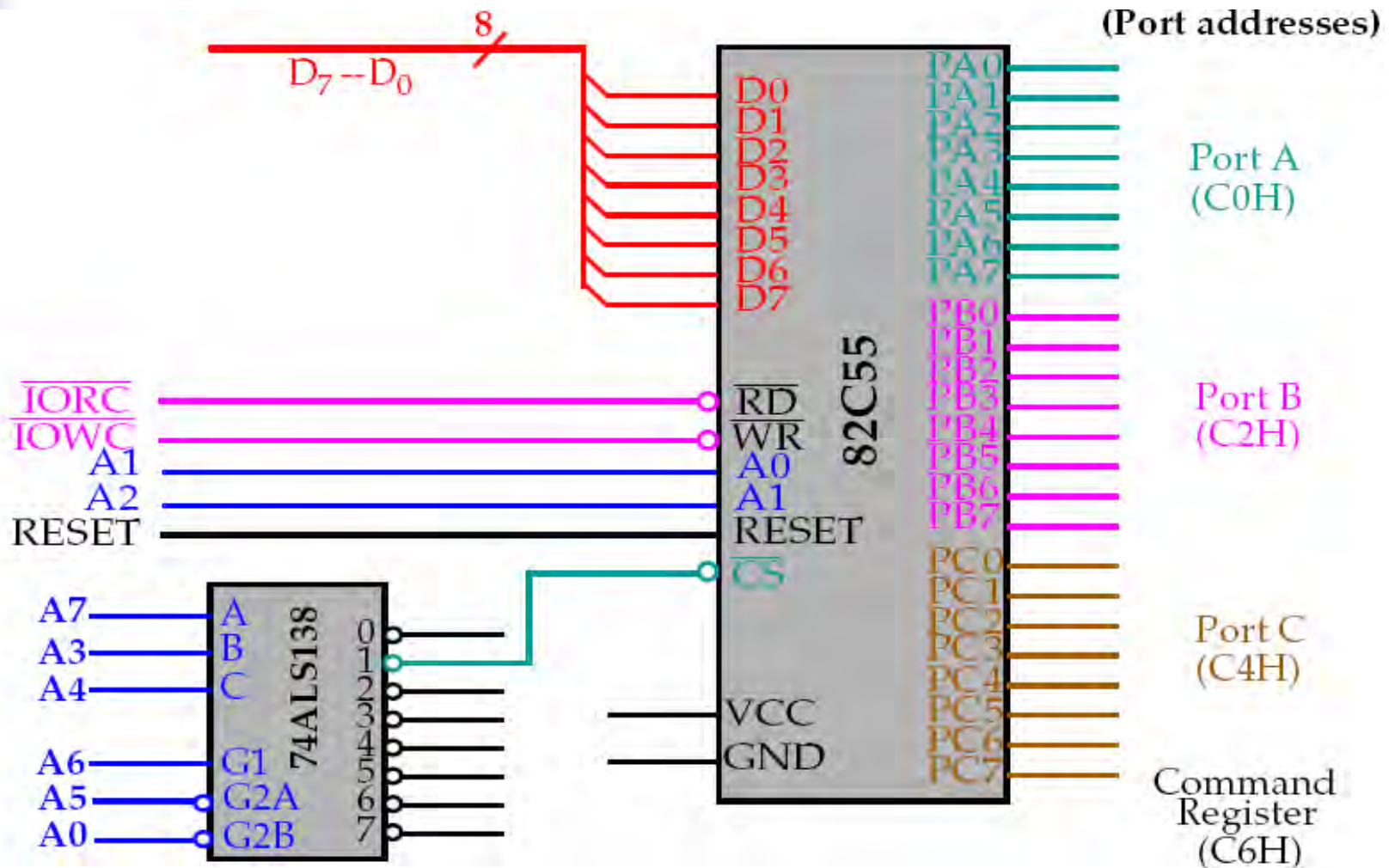
## Group B

Port B (PB7-PB0) and lower half of port C (PC3 - PC0)

## I/O Port Assignments

A <sub>1</sub>	A <sub>0</sub>	Function
0	0	Port A
0	1	Port B
1	0	Port C
1	1	Command Register

# 3.7.2. Interfacing the 82C55 PPI



# 3.7.3. Programming the 82C55 PPI

