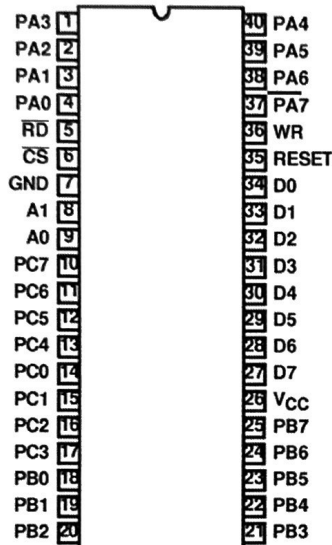


In Lab 2, you worked with the 8254 counter/timer, which expanded the capabilities of the R31JP system. The 8254 is one member in the “8000” series of peripheral chips made by Intel. We’ll look at some of these and other types of peripherals, today.

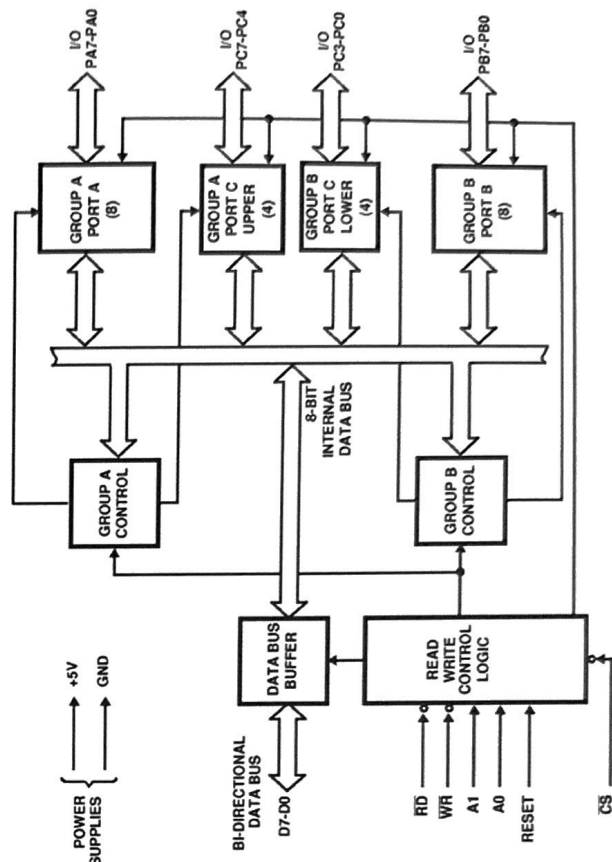
intel.

**Intel® 82C55A**  
**CMOS PROGRAMMABLE PERIPHERAL INTERFACE**

**82C55A (DIP)**  
TOP VIEW

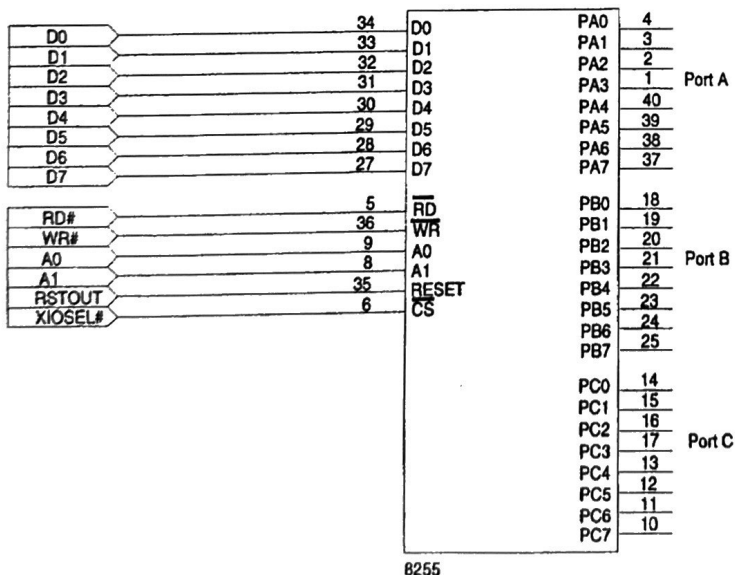


1

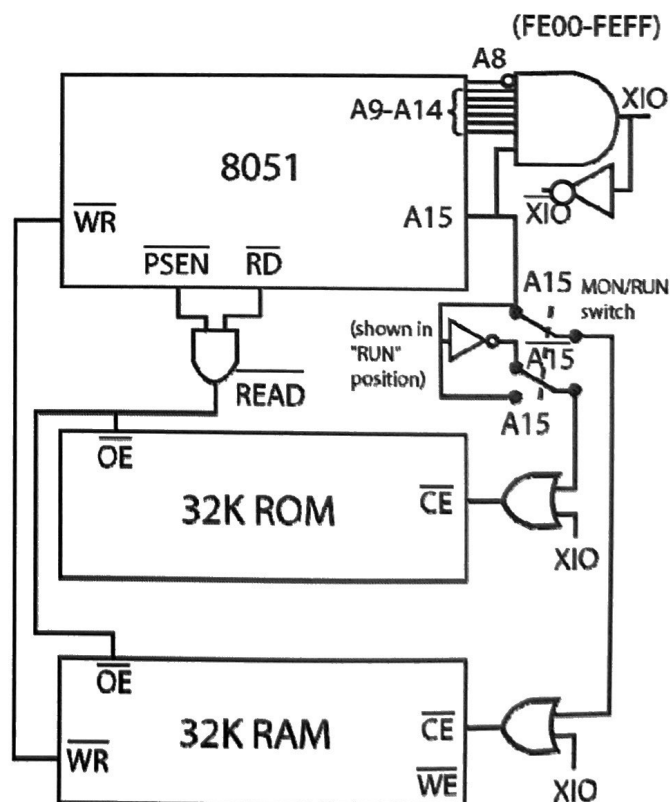


2

Here's the 8255 connection to the R31JP shown in your R31JP manual:



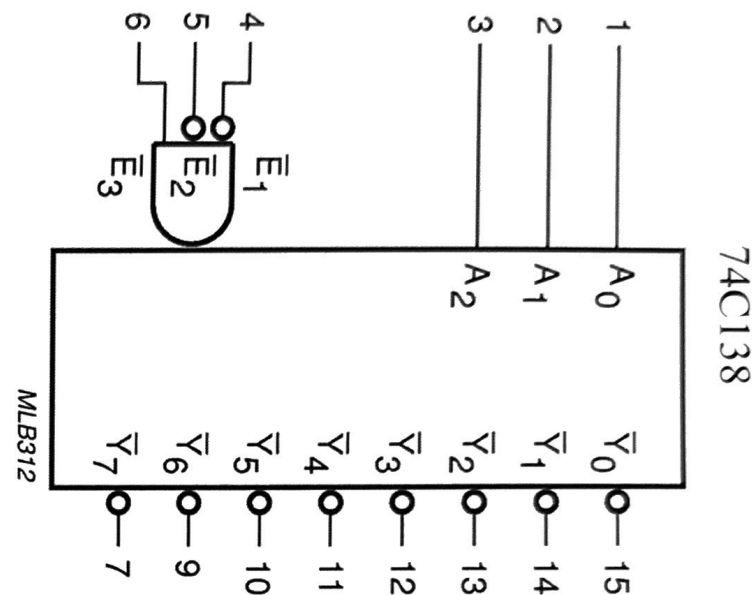
3



4

7

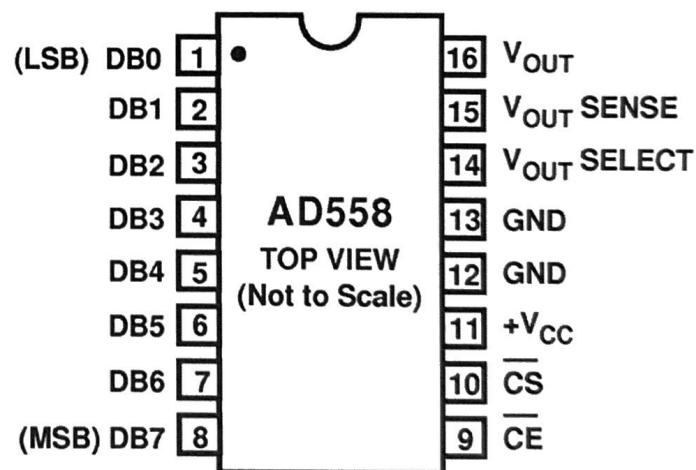
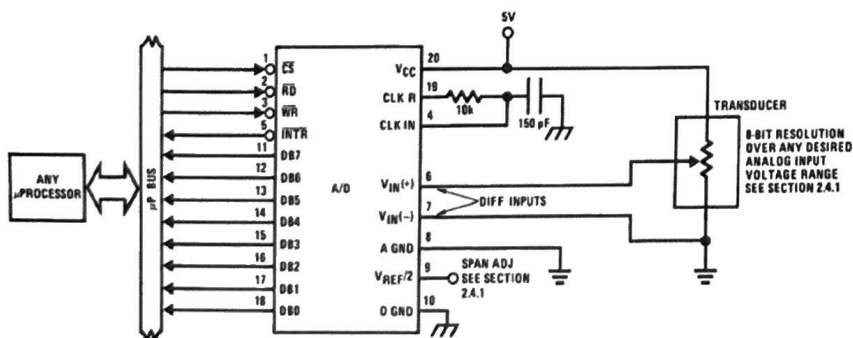
Input Data	$\overline{\text{CE}}$	$\overline{\text{CS}}$	DAC Data	Latch Condition
0	0	0	0	"Transparent"
1	0	0	1	"Transparent"
0	g	0	0	Latching
1	g	0	1	Latching
0	0	g	0	Latching
1	0	g	1	Latching
X	1	X	Previous Data	Latched
X	X	1	Previous Data	Latched



5



## 9



**Figure 1a. AD558 Pin Configuration (DIP)**