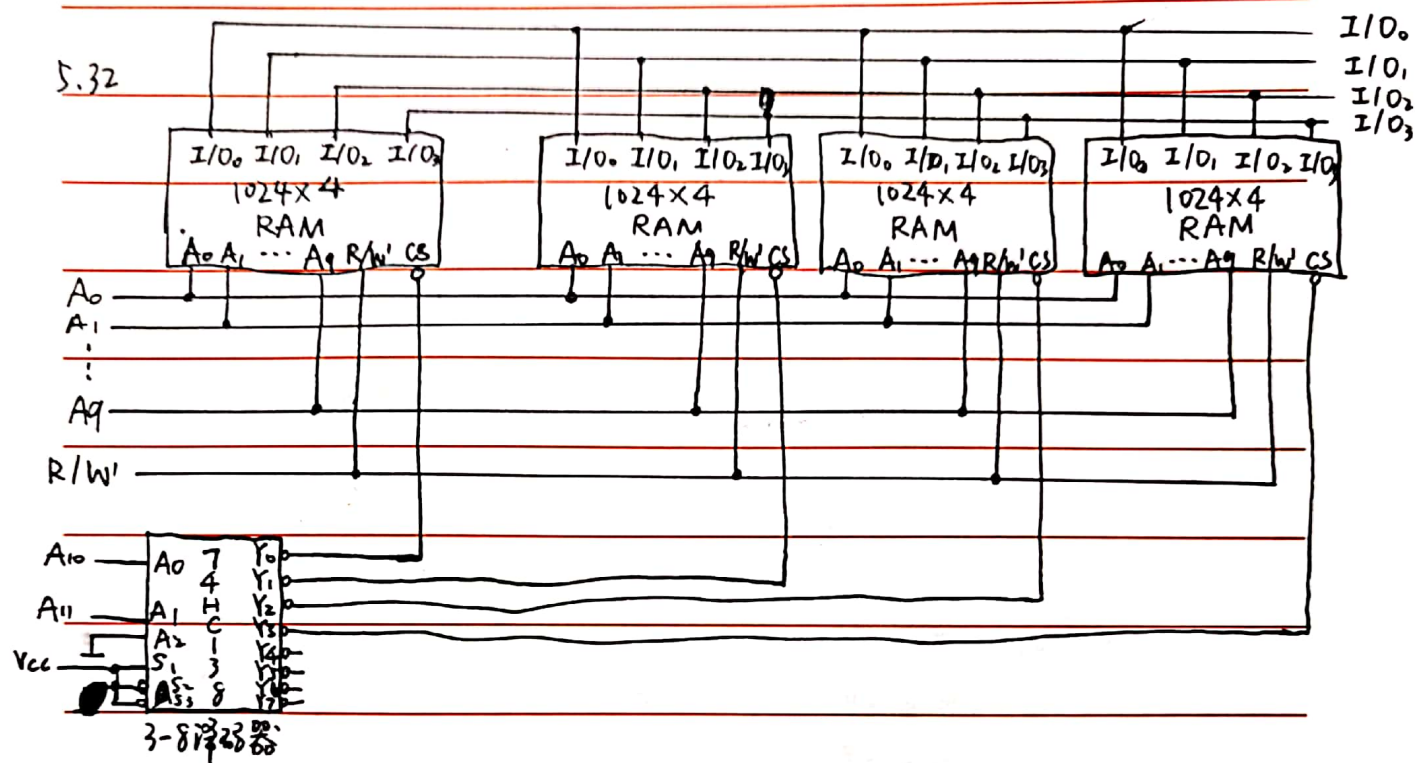




5.28 最大存储量为 $2^{32} \times 16$ bits



5.36 $16 = 2^4$ 有4根地址线 设为 A_1, A_0, B_1, B_0 其中 A_0 与 B_1, B_0 为

待求数 数据表:

	A_1	A_0	B_1 (A_2)	B_0 (A_3)	D_3	D_2	D_1	D_0
	0	0	0	0	0	0	0	0
	0	0	0	1	0	0	0	0
	0	0	1	0	0	0	0	0
	0	0	1	1	0	0	0	0
	0	1	0	0	0	0	0	0
	0	1	0	1	0	0	0	1
	0	1	1	0	0	0	1	0
	0	1	1	1	0	0	1	1
2x1	1	0	0	0	0	0	0	0
2x2	1	0	0	1	0	1	0	0
2x3	1	0	1	1	0	1	1	0
	1	1	0	0	0	0	0	0
3x1	1	1	0	1	0	0	0	0
3x2	1	1	1	0	0	0	0	0
3x3	1	1	1	1	1	0	0	1

$$D_3 = A_0 A_1 B_0 B_1 = m_{15}$$

$$D_2 = A_1 A_0' B_1 B_0' + A_1 A_0' B_1 B_0 + A_1 A_0 B_1 B_0' = m_2 + m_{14} + m_{11}$$

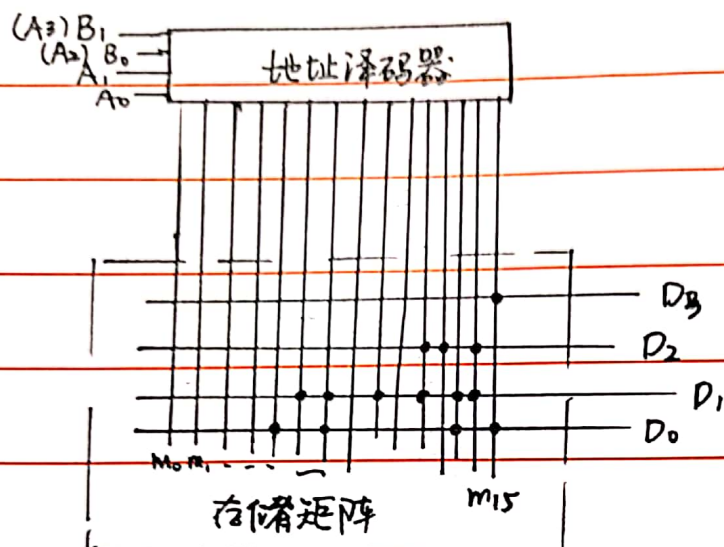
$$D_1 = m_9 + m_{13} + m_6 + m_{14} + m_7 + m_{11}$$

$$D_0 = m_5 + m_0 + m_7 + m_{15}$$





点阵图:



5.38 是 16×4 的 ROM.

数据表:

A	B	C	D	Y_4	Y_3	Y_2	Y_1
0	0	0	0	1			1
0	0	0	1				
0	0	1	0	1	1	1	
0	0	1	1				
0	1	0	0				*
0	1	0	1	1	1		1
0	1	1	0				
0	1	1	1	1	1	1	
1	0	0	0	1		1	
1	0	0	1				●
1	0	1	0	1	1		1
1	0	1	1				
1	1	0	0				
1	1	0	1	1		1	
1	1	1	0				
1	1	1	1	1			1

$$Y_1 = m_0 + m_5 + m_{10} + m_{15}$$

$$Y_2 = m_2 + m_7 + m_8 + m_{13}$$

$$Y_3 = m_7 + m_5 + m_2 + m_{10}$$

$$Y_4 = m_5 + m_7 + m_{13} + m_{15} + m_0 + m_2 + m_8 + m_{10}$$





点阵图：

