

## Chapter 5 – The Memory System

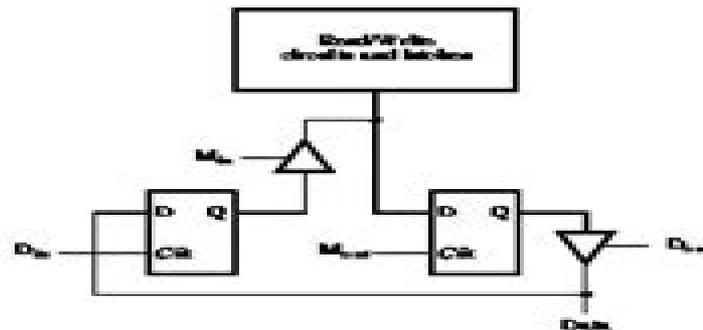
5.1. The block diagram is essentially the same as in Figure 5.10, except that 16 rows (of four  $512 \times 8$  chips) are needed. Address lines  $A_{23-9}$  are connected to all chips. Address lines  $A_{22-19}$  are connected to a 4-bit decoder to select one of the 16 rows.

5.2. The minimum refresh rate is given by

$$\frac{50 \times 10^{-18} \times (4.5 - 3)}{9 \times 10^{-13}} = 8.33 \times 10^{-6} \text{ s}$$

Therefore, each row has to be refreshed every 8 ns.

5.3. Need control signals  $M_{in}$  and  $M_{out}$  to control starting of data into the memory cells and to gate the data read from the memory onto the bus, respectively. A possible circuit is



5.4. (a) It takes  $5 + 8 = 13$  clock cycles.

$$\text{Total time} = \frac{13}{(1593 \times 10^9)} = 0.008 \times 10^{-9} \text{ s} = 8 \text{ ns}$$

$$\text{Latency} = \frac{5}{(1593 \times 10^9)} = 0.003 \times 10^{-9} \text{ s} = 3 \text{ ns}$$

(b) It takes twice as long to transfer 64 bytes, because two independent 32-byte transfers have to be made. The latency is the same, i.e. 3 ns.

# Chapter 5 Instructor Manual

**Xiang Xie**



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