LECTURE 15

Digital Logic Families

- Sequential circuits all depend upon the presence of memory.
 - A flip-flop can store one bit of information.
 - A register can store a single "word," typically 32 or 64 bits.
- Memory allows us to store even larger amounts of data.

Sequential Memories

Shift Registers

Charge Coupled Devices (CCD)

- Read Only Memory (ROM)
- ROM
- PROM
- EPROM
- EAROM
- Random Access Memory (RAM)
 - Static RAM (SRAM)
 - Dynamic RAM (DRAM)

Memory

Advantages

- Small Size
- High speed
- Better Reliability
- Low Cost
- Ease of Expansion of memory
- One flip flop is one bit memory cell.

