

- 7.1 Introduction
- 7.2 I/O and Performance
- 7.3 Amdahl's Law
- 7.4 I/O Architectures
 - 7.4.1 I/O Control Methods
 - Programmed I/O
 - Interrupt-Driven I/O
 - Memory-Mapped I/O
 - Channel I/O
 - 7.4.2 Character I/O Versus Block I/O
- 7.5 Data Transmission Modes
- 7.6 Magnetic Disk Technology
- 7.7 Optical Disks
- 7.8 Magnetic Tape
- 7.9 RAID
- 7.10 The Future of Data Storage

- Data storage and retrieval is one of the primary functions of computer systems.
 - One could easily make the argument that computers are more useful to us as data storage and retrieval devices than they are as computational machines.
- All computers have I/O devices connected to them, and to achieve good performance I/O should be kept to a minimum!
- In studying I/O, we seek to understand the different types of I/O devices as well as how they work.