

COMPUTER HARDWARE

2.1 Hardware

The physical parts of the computer are called hardware. The user can see and touch the hardware. Different types of hardware components are as follows:

- Input devices such as keyboard, mouse, joystick etc.
- The Central Processing Unit (CPU)
- Output devices such as printer, monitor etc.
- Storage devices such as disc drive, hard drive etc.
- Memory chips such as RAM, ROM etc.

2.2 Basic Computer Architecture

A computer is a combination of many components. These components perform different functions. All components work together and communicate with one another. The way in which computer components are connected with one another is called computer architecture. Different components of computer architecture are as follows:

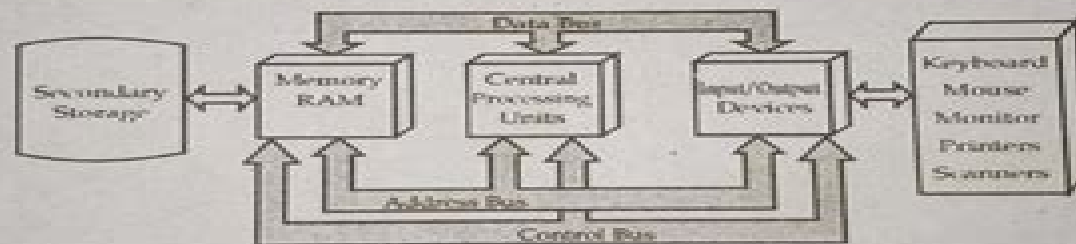


Figure: Basic Computer Architecture

Central Processing Unit

Central processing unit is the brain of the computer. It carries out most of the work of a computer. It performs all operations on data according to the given instructions. It executes instructions and tells other parts of computer what to do. It controls and coordinates all activities of computer system. A computer cannot work without CPU.

Main Memory

Main memory is an important component of computer system. It is used to store program and data that are being executed. It is also called working area of computer system.

I/O Unit

I/O unit controls processor's communication with peripheral devices such as monitor, disk drive and printer connected to the computer system.

Basic Computer Hardware Solution Manual

Charles R. Hadlock



Basic Computer Hardware Solution Manual:

Solutions and Instructor's Resource Manual to Accompany Fundamentals of Structured COBOL Programming Carl Feingold,1978 **Computer HardWare** Pavel Bartoš,1991 When writing this book we tried to create a material that would serve as a comprehensive guide to the world of computer hardware Our goal was to offer readers not only theoretical knowledge but also practical skills that can be used in real situations We believe that this textbook will be useful not only for high school students but also for the general public who are interested in technologies and their applications When creating the content we were based on many years of experience in education and practice in the field of information technology We tried to cover a wide range of topics from basic components of a personal computer to more complex issues such as overclocking microprocessors or configuring RAID systems Each topic is supplemented with practical examples and exercises that help to better understand the given issue *Sensors and Actuators* Clarence W. de Silva,2015-07-30 This introductory textbook on engineering system instrumentation emphasizes sensors transducers actuators and devices for component interconnection The book deals with instrumenting an engineering system through the incorporation of suitable sensors actuators and associated interface hardware including filters amplifiers and other signal modifiers In view of the practical considerations design issues and industrial techniques that are presented throughout the book and in view of the simplified and snap shot style presentation of more advanced theory and concepts it also serves as a useful reference for engineers technicians project managers and other practicing professionals in industry and in research laboratories Catalog of Copyright Entries. Third Series Library of Congress. Copyright Office,1979 *Methods of Model Based Process Control* R. Berber,1995-05-31 Model based control has emerged as an important way to improve plant efficiency in the process industries while meeting processing and operating policy constraints The reader of *Methods of Model Based Process Control* will find state of the art reports on model based control technology presented by the world s leading scientists and experts from industry All the important issues that a model based control system has to address are covered in depth ranging from dynamic simulation and control relevant identification to information integration Specific emerging topics are also covered such as robust control and nonlinear model predictive control In addition to critical reviews of recent advances the reader will find new ideas industrial applications and views of future needs and challenges Audience A reference for graduate level courses and a comprehensive guide for researchers and industrial control engineers in their exploration of the latest trends in the area **GIS** David R. Green,2018-10-08 In a relatively short time Geographic Information Systems GIS have spread from being primarily a research tool to higher and subsequently secondary education and from the researcher to the user GIS A Sourcebook for Schools is an easily accessible guide to GIS at an elementary level and provides sufficient background in GIS to ensure a comprehensive working knowledge of the subject It is written specifically for schoolteachers looking to incorporate GIS into the secondary school curriculum and will be the essential textbook for all those wishing to gain an

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fundamental principles and concepts

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