


Chapter One

Introduction to Computers

Discovering Computers 2012
Your Interactive Guide to the Digital World



Today is the Tomorrow you worried about Yesterday.

A World of Computers

- Computers are everywhere



Pages 4 - 5
Figure 1-1

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What Is a Computer?

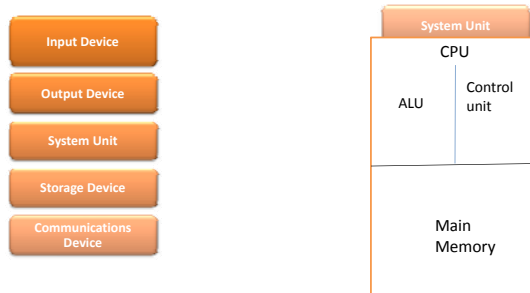
- Define
- Data vs Information
- Information Processing Cycle – what is it?

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The Components of a Computer

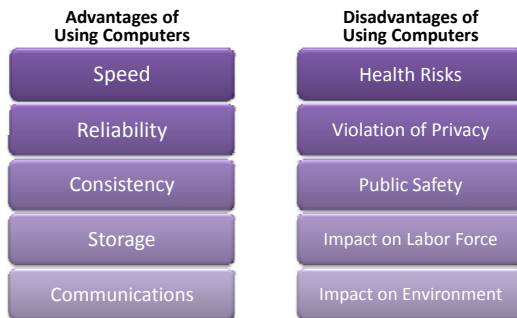


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- Can a computer do anything we can't do?

Advantages and Disadvantages of Using Computers



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Networks and the Internet

- Have we always been able to communicate from one computer to another?



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Figure 1-6

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Networks and the Internet

- What year did the idea of the internet come about?



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Figure 1-7

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Computer Software

- **Software**, also called a **program**, tells the computer what tasks to perform and how to perform them.
- **Two types of software:**



System Software

- Operating system
- Utility program



Application Software

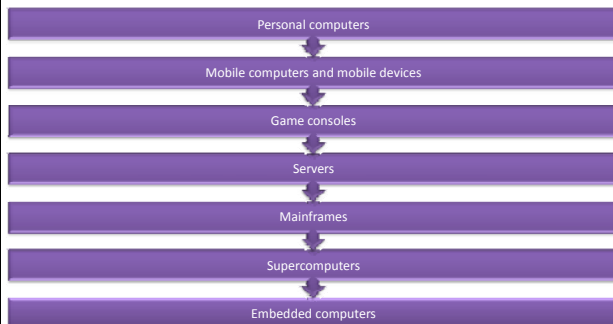
- **Examples?**

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Figures 1-10 - 1-11

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Categories of Computers



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Servers



Mainframe



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Figure 1-25

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Supercomputers

- A **supercomputer** is the fastest, most powerful computer

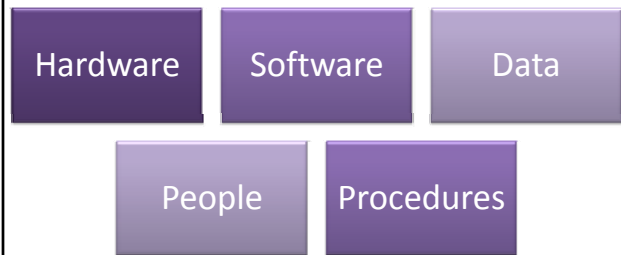


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Elements of an Information System



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Elements of an Information System




- All elements of the system must be present and work together to provide accurate, timely, useful information

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Figure 1-29

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Examples of Computer Usage

| | | |
|---|--|---|
|  |  |  |
| Home User <ul style="list-style-type: none"> • Personal financial management • Web access • Communications • Entertainment | Small Office/Home Office User <ul style="list-style-type: none"> • Look up information • Send and receive e-mail messages • Make telephone calls | Mobile User <ul style="list-style-type: none"> • Connect to other computers on a network or the Internet • Transfer information • Play video games • Listen to music • Watch movies |

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Figures 1-30 – 1-32

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Examples of Computer Usage


| | |
|---|--|
|  |  |
| Power User <ul style="list-style-type: none">• Work with multimedia• Use industry-specific software | Enterprise User <ul style="list-style-type: none">• Communicate among employees• Process high volumes of transactions• Blog |

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Figures 1-33 - 1-34

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Computer Applications in Society

| | |
|---|-------------|
|  | Education |
|  | Finance |
|  | Government |
|  | Health Care |

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Figures 1-36 - 1-39

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Computer Applications in Society

| | |
|---|---------------|
|  | Science |
|  | Publishing |
|  | Travel |
|  | Manufacturing |

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Figures 1-40 - 1-43

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- In your opinion, what is the greatest thing computers do?

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Chapter 1 Complete

