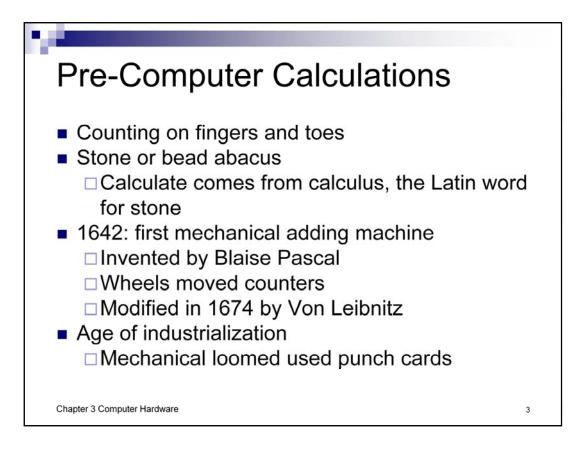
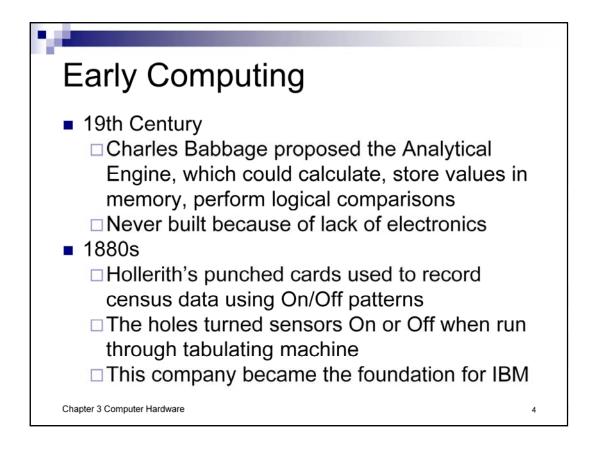
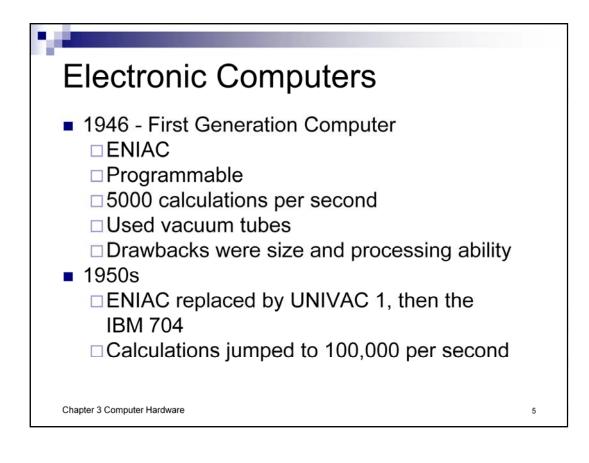
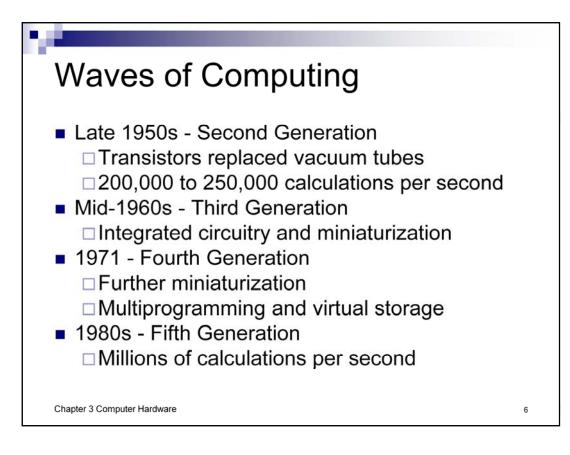


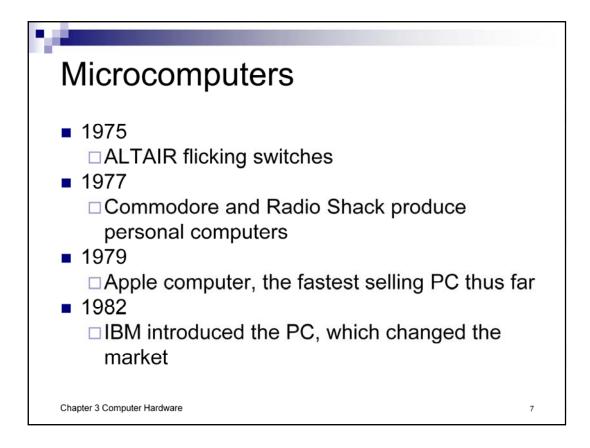
11 Mar 400 Mar	z1 answer		
ypes of Inform		1	
Drag each label	to its matching description.		
People	Developers and Programmers Developers, managers, and users of the system		
Information Technology	Computers The hardware, software, and network components		
Procedure	Data Entry How people interact with the system		
Data	Information		
	Including text, images, sounds, and video		
	sounds, and video		

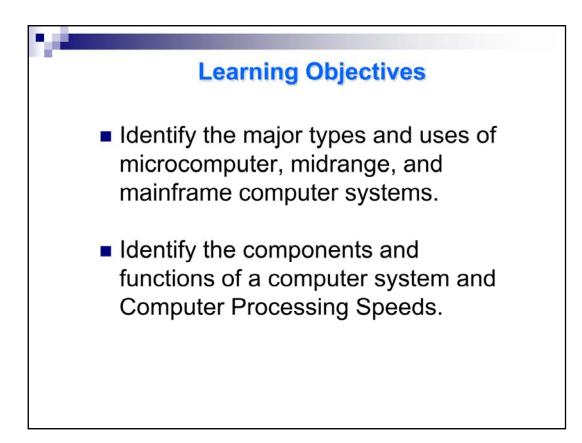


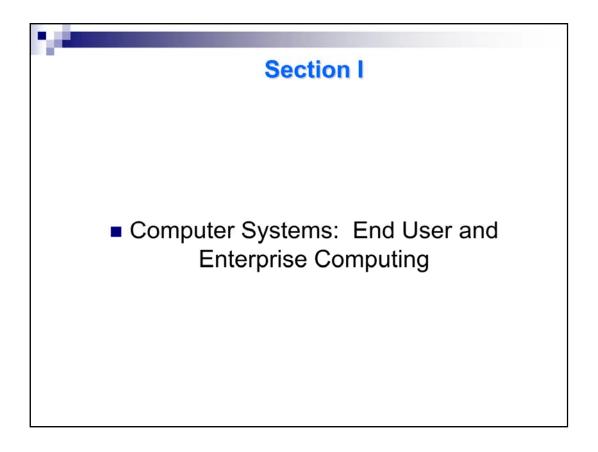


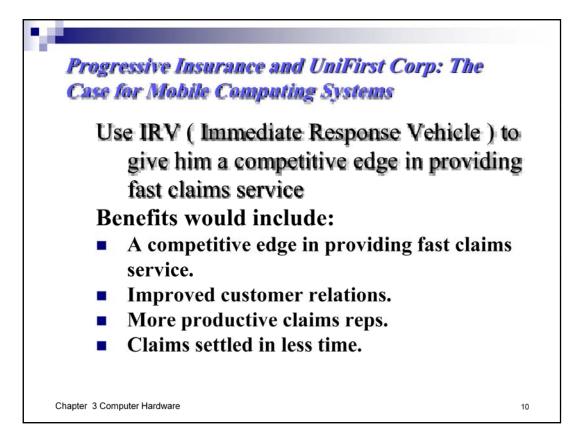


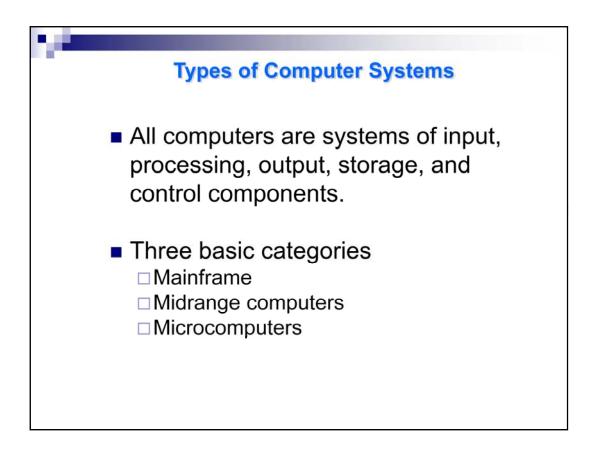










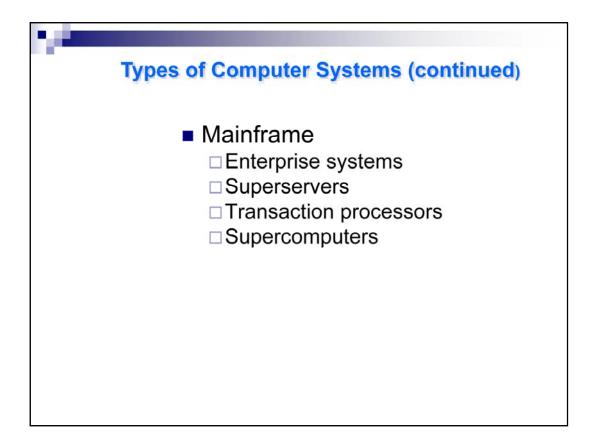


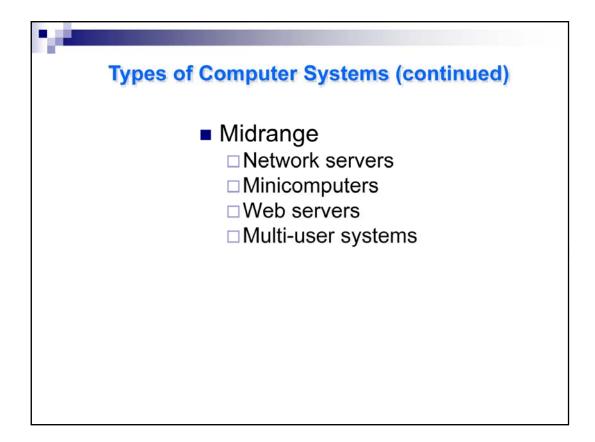
Computer systems are typically classified as microcomputers, midrange computers, and mainframe computers. These distinctions are not so clear as they once were. Improvements in technology make microcomputers more powerful than ever and both minis and mainframes have lower and higher end versions. Within these parameters, the following are generally true:

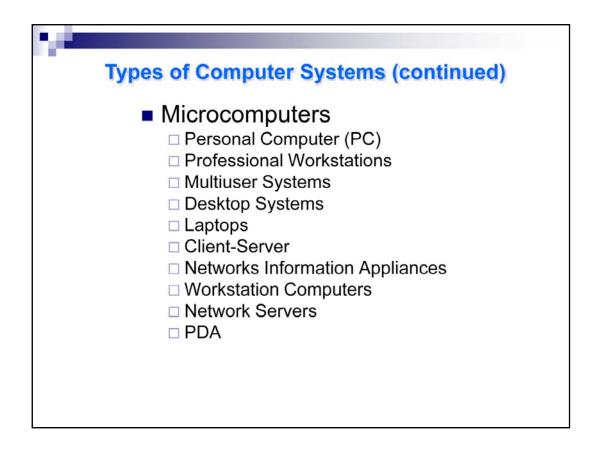
<u>Microcomputers</u>. These are the smallest computer systems, ranging in size from handheld personal digital assistants (PDAs) to laptops to desktop personal computers. Most microcomputer are designed for single-user application but can be linked via telecommunications to network servers.

Midrange. Midrange or minicomputers are larger and more powerful that most microcomputers but smaller and less powerful than most large mainframes. Midrange systems are often used in business and scientific research. They are especially well suited for specialized tasks, usually so as to dedicate computing power to a specific function (such as back room order processing) without having to share time on an organization's larger mainframe. Of course, many small and medium-sized organizations use such computer for their whole operations.

<u>Mainframes</u>. These are large, powerful computers (often filling an entire room) with very large primary storage capacities (from 64 megabytes to several gigabytes of RAM). This feature helps mainframes process information very quickly (at 10 to 200 million instructions per second - MIPS).







A personal computer, or PC, or microcomputer is much more than a small computer for use by an individual. The computing power of microcomputers now exceeds that of the mainframes of previous computer generations at a fraction of their cost. Thus, they have become powerful networked professional workstations for business professionals.

•**Notebook computer** - A computer that is designed for those who want a small portable PC for their work activities.

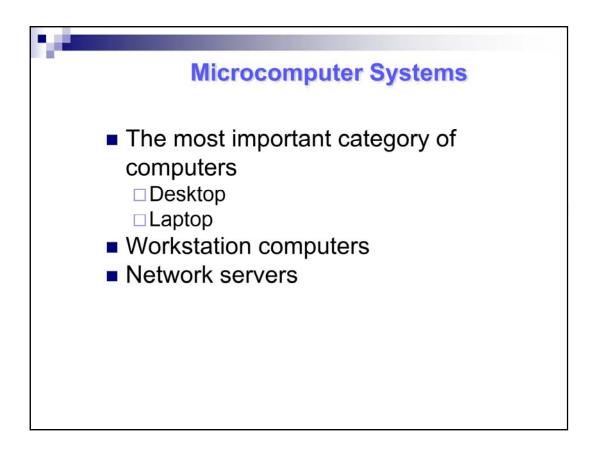
•Desktop computer - A computer that is designed to fit on an office desk.

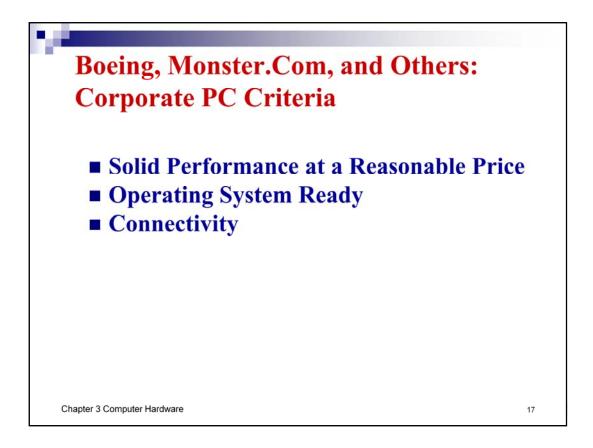
•Workstation - (1) A computer system designed to support the work of one person. (2) a high-powered computer to support the work of professionals in engineering, science, and other areas that require extensive computing power and graphics capabilities.

•<u>Network Servers</u> - These powerful microcomputers are used to coordinate telecommunications and resource sharing in small local area networks and Internet and intranet websites.

Recommended features for PC					
Business Pro	Multimedia Heavy	Newcomer			
 To track your products, customers, and performance, you'll need more than just a fast machine: 2-3 Gigahertz processor 512MB RAM 80GB hard drive 18-inch flat-panel display CD–RW/DVD drive or portable hard drives for backup Network interface card (NIC) 	Media pros and dedicated amateurs will want at least a Mac G4 or a 2–3GHz Intel chip, and: 512MB RAM 120GB hard drive or more 18-inch or larger CRT, flat-panel LCD, or plasma display High-end color printer CD–RW/DVD+RW drive Deluxe speaker system	Save money with a Celeron processor in the 1–2GHz range. Also look for: • 256MB RAM • 40GB hard drive • Internal 56K modem • CD–RW/DVD drive • 17-inch CRT or 15-inch flat panel LCD • Basic inkjet printer			

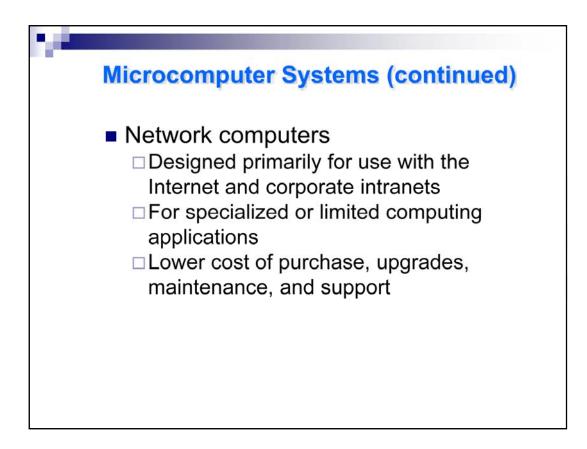
Check www.dell.com and www.gateway.com for the latest PC features available





The Boeing, Monster.com, and others Case demonstrates how a standardized criteria for PC purchases can lead to solid performance at reasonable prices

The emphasis was based upon an operating system that was ready to go and effective network connectivity

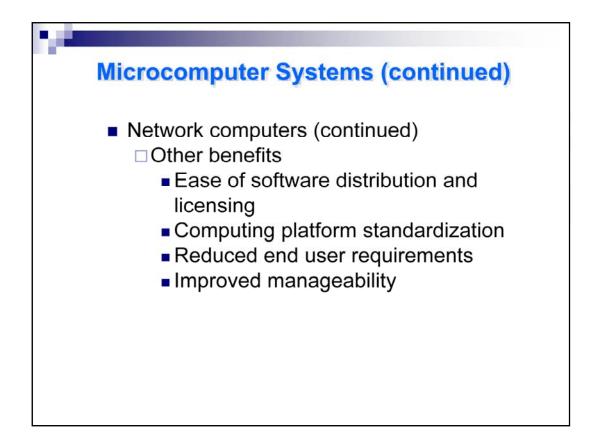


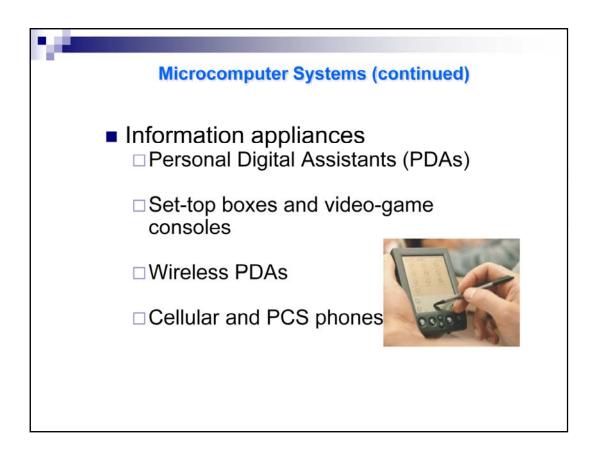
Network computers and terminals are emerging as the serious business-computing platform.

Network Computers. Network computers (NC) are a microcomputer category designed primarily for use with the Internet and corporate Intranets by clerical workers, operational employees, and knowledge workers. NCs are low cost, sealed networked microcomputers with no or minimal disk storage. As a result they depend on Internet and Intranet servers for their operating system and web-browser, Java-enabled application software, and data access and storage.

NC benefits include:

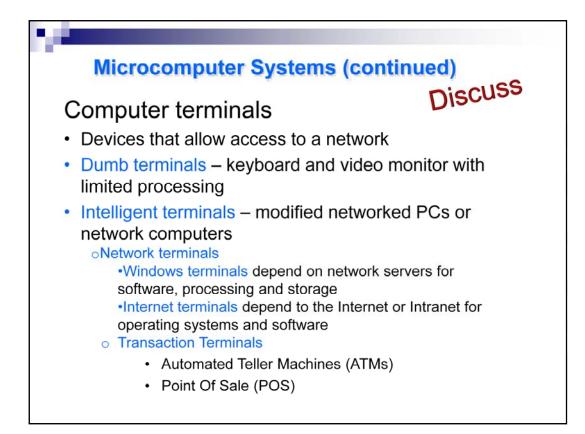
- Lower purchase cost
- •Easier maintenance
- •Easier software distribution and licensing
- •Computer platform standardization
- •Reduced end user support requirements
- Improved manageability



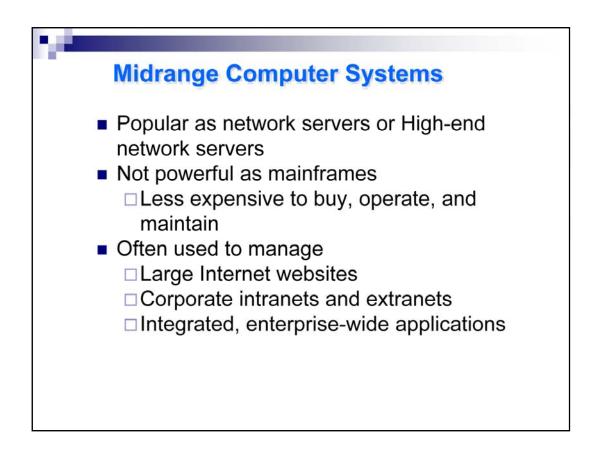


•<u>Smart Gadgets</u> - Small Web-enabled microcomputer devices with specialized functions, such as hand-held PDAs, games, cellular phones and pagers, and other Web-enabled home appliances.

•**PDA** - is a hand-held microcomputer device that enable you to manage information such as appointments, to-do lists, and sales contacts, send and receive E-mail, access the Web, and exchange such information with your desktop PC or network server.

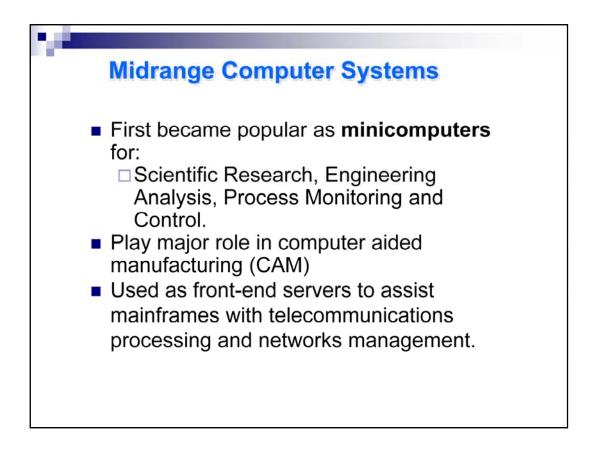


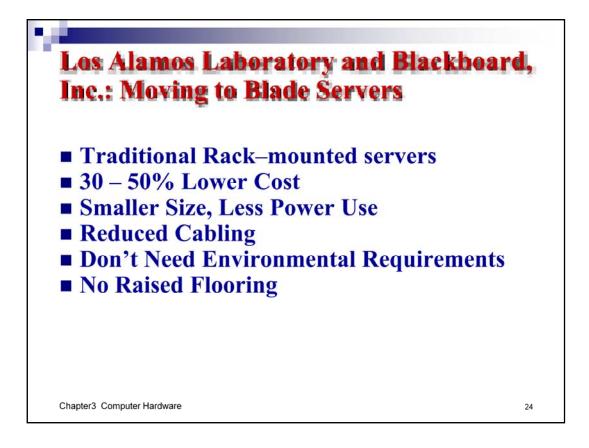
Give examples of the above computer terminal types and cite the advantages each play in their respective uses



Give examples of midrange systems being used in the above settings

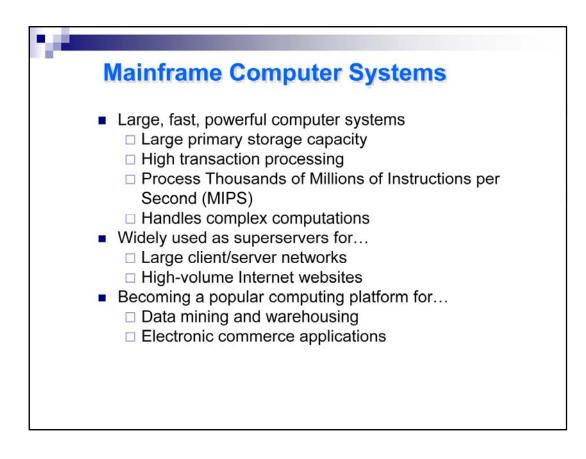
Emphasize any cost saving measures a midrange system provides in these applications





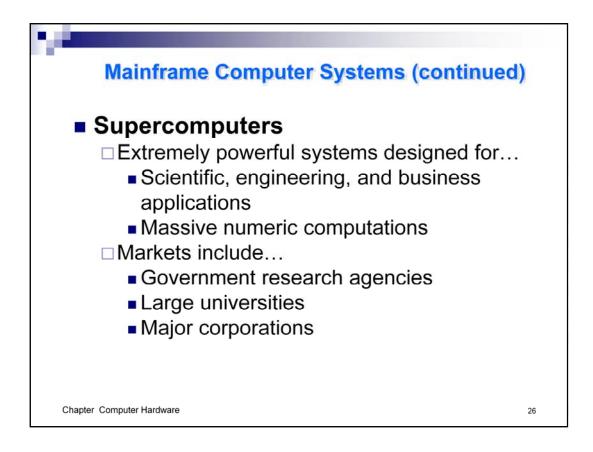
The Los Alamos Laboratory and Blackboard, Inc. Case demonstrates how newer technological change makes possible the use of hardware that out performs older methods at a fraction of the cost.

They moved to Blade Servers-a rack system of slide-ins that were substantially less expensive and made less infrastructure demands.

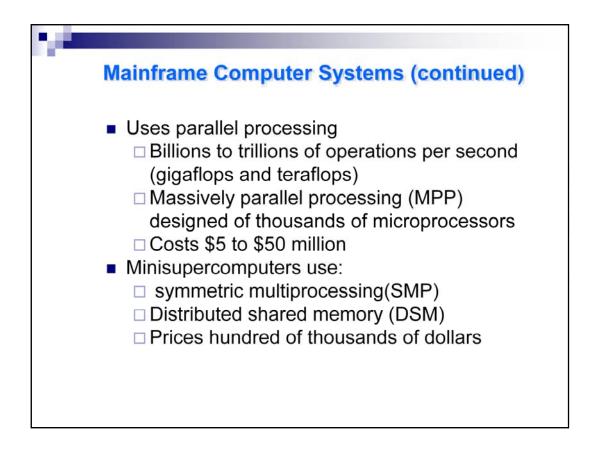


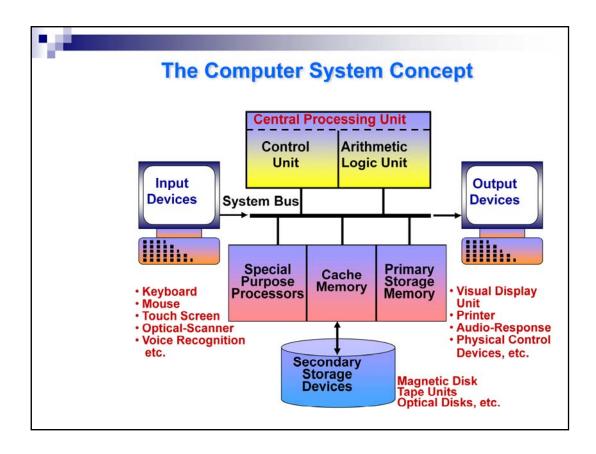
Explain how large-scale systems would be needed to manage very large client-server networks.

Get examples of the huge volume output requirements for mainframe systems that do significant data warehousing and mining operations.



Give real world examples of the use of supercomputers in actual practice for example, scientific research, graphic modeling, and quantum physics





PATIENTLY ALLOW TIME FOR ANIMATIONS TO WORK

A computer system is an interrelated combination of components performing specialized basic functions to provide end users with a powerful information processing tool. Key functions include:

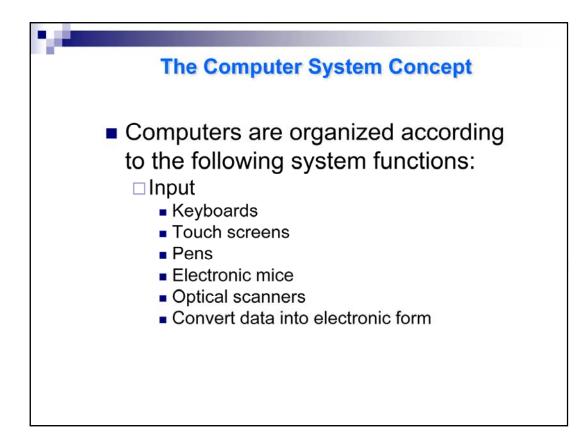
Input. A wide variety of devices.

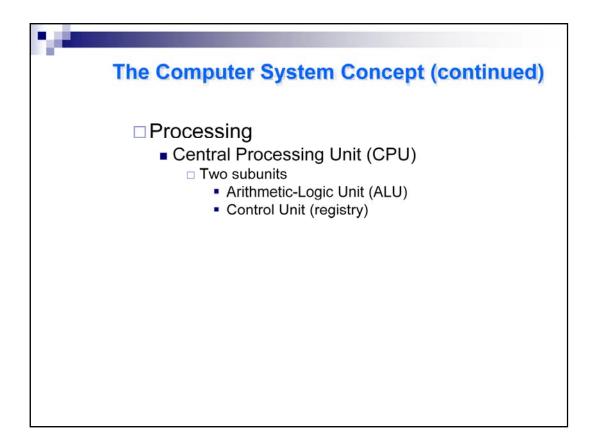
<u>Processing</u>. The *central processing unit* (CPU) is the main processing component of a computer system. A key component of the CPU is the *arithmetic-logic unit* (ALU), which performs the arithmetic and logic functions required in computer processing.

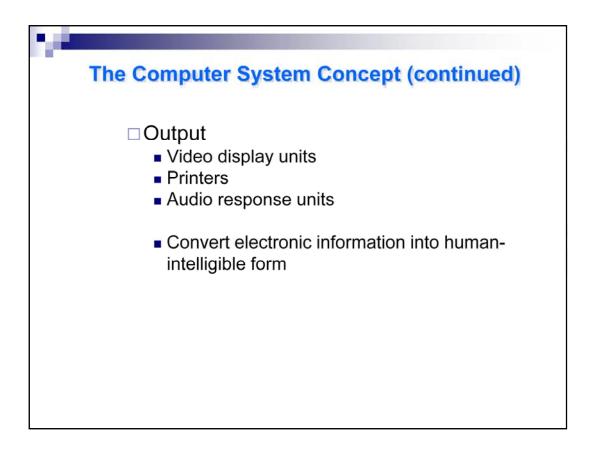
<u>Output</u>. Output devices convert the electronic information produced by the computer system into human-intelligible form for presentation to end users. Output devices include video display units, printers, audio response units, and other peripheral hardware components specialized in this function.

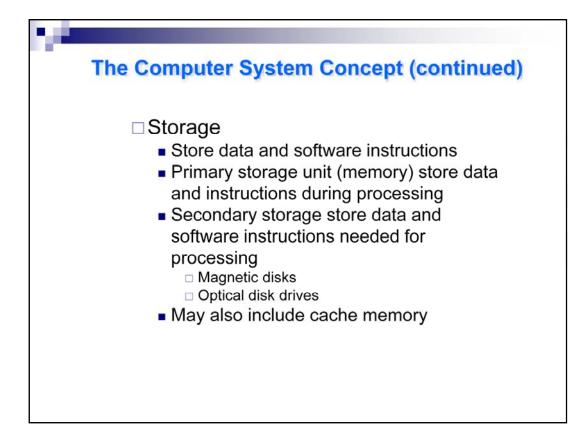
<u>Storage</u>. Storage devices store data and programs instructions needed for processing. A computer's *primary storage* or memory is used to hold key information needed to run the computer while *secondary storage* hold larger parts of programs used less frequently and the content files created by end users.

<u>Control</u>. The control unit of the CPU interprets computer program instructions and transmits directions to the other components of the computer system.







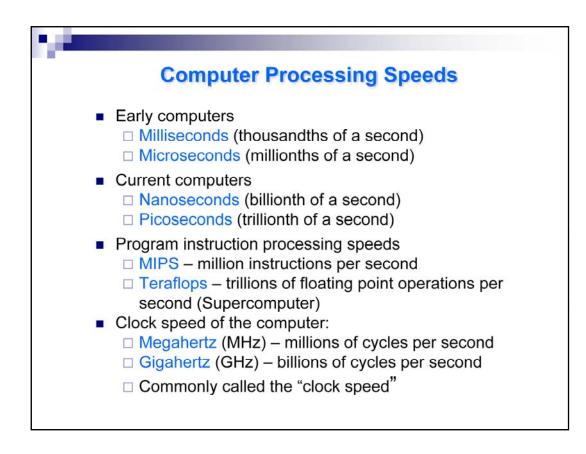


The Computer System Concept (continued)

Control

•

 The registers and other circuits of the control unit interpret software instructions and transmit directions to the other components of the computer system



Explain why extremely fast internal clock speeds demands smaller fractions of time definitions for cycle measurement.

Explain the role of registers and caches and how they speed up the measure of output.

