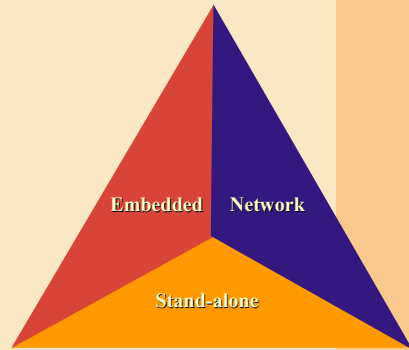


Types of Operating Systems

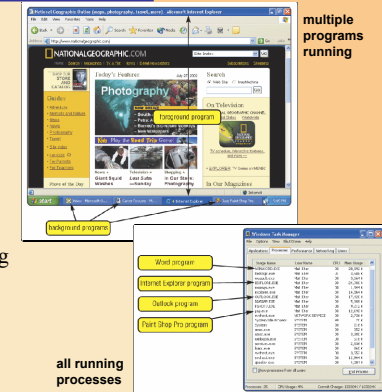
What are three categories of operating systems?



Operating System Functions

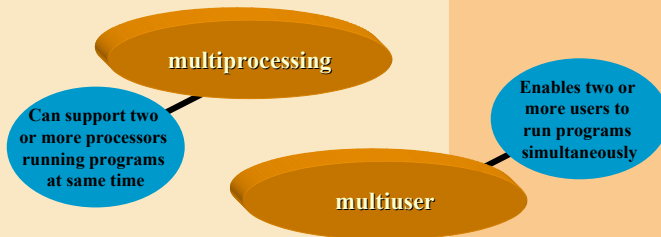
What is **single user/multitasking**?

- Working on two or more programs that reside in memory at same time
 - **Foreground** contains application you are using
 - **Background** contains programs that are running but are not in use



Operating System Functions

What are other program management features of operating systems?



Stand-Alone Operating Systems

What is **DOS (Disk Operating System)**?

Developed in early 1980s for personal computers

Hardly used today because it does not offer GUI

D
O
S

Used command-line interface when first developed, later included menus

Stand-Alone Operating Systems

How do Windows versions compare?

| Windows Version | Year Released |
|----------------------------|---------------|
| Windows 3.x | 1990 |
| Windows NT 3.1 | 1993 |
| Windows 95 | 1995 |
| Windows NT Workstation 4.0 | 1996 |
| Windows 98 | 1998 |
| Windows Millennium Edition | 2000 |
| Windows 2000 Professional | 2000 |
| Windows XP | 2001 |
| Windows XP SP2 | 2004 |

p. 417 Fig. 8-23

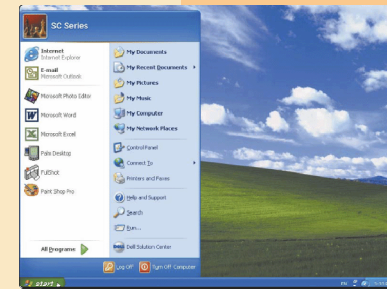
Next ▶

Stand-Alone Operating Systems

What is **Windows XP**?

- Microsoft's current Windows operating system

- Available in five editions:
Home Edition,
Professional Edition,
Tablet PC Edition,
Media Center Edition,
and 64-bit Edition



Stand-Alone Operating Systems

What is **Mac OS X**?

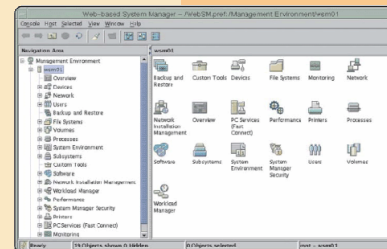
- Available only for computers manufactured by Apple
- Macintosh operating system has been model for most GUIs



Stand-Alone Operating Systems

What is **UNIX**?

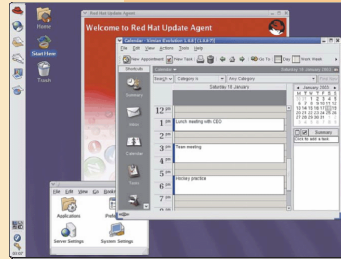
- Used by power users because of its flexibility and power
- Most versions offer GUI
- Both a stand-alone and a network operating system



Stand-Alone Operating Systems

What is **Linux**?

- Popular, free, multitasking UNIX-type operating system
- **Open-source software**—code is available to public
- Both a stand-alone and a network operating system

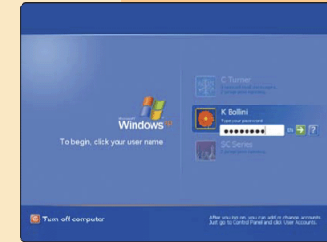


Red Hat provides a version of Linux called Red Hat Linux. The GNOME graphical user interface is shown in this example.

Operating System Functions

What is a **network operating system**?

- Allows users to share printer, Internet access, files, and programs on a network
- Administers security by establishing user name and password for each user

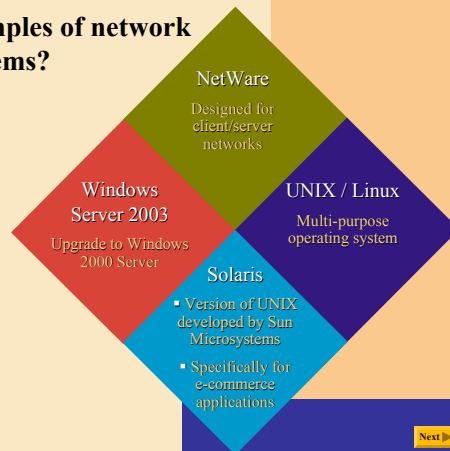


p. 8.14 Fig. 8-14

Next ▶

Network Operating Systems

What are examples of network operating systems?



Click to view Web Link, click Chapter 8, Click Web Link from left navigation, then click NetWare below Chapter 8

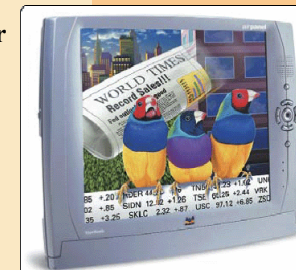
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Embedded Operating Systems

What is an **embedded operating system**?

- OS resides on a ROM chip
- Found on most mobile computers, PDAs, and other small devices
- **Windows CE** is scaled-down version of Windows



Embedded Operating Systems

What are two operating systems for PDAs?

- Windows Pocket PC 2003 or Windows Mobile for Pocket PC
- Palm OS for Palm, Visor, and CLIE



Click to view Web Link, click Chapter 8, Click Web Link from left navigation, then click Windows Mobile below Chapter 8



Click to view Web Link, click Chapter 8, Click Web Link from left navigation, then click Palm OS below Chapter 8
p. 423 - 424 Figs. 8-31-8-32



Next ▶

Embedded Operating Systems

What is Symbian OS?

- Open-source, multitasking operating system designed for smart phones
- Make telephone calls, save appointments, browse Web, send and receive e-mail and faxes, and more



p. 425 Fig. 8-34

Next ▶

Operating Systems

What is a **cross-platform application**?

- Runs identically on multiple operating systems
 - Operating system that computer uses is sometimes called the **platform**

