جـامعة المستقبـل
كـليـة العلـوم

Computer - S1

Lecture 2

Computer Software Part 1

By

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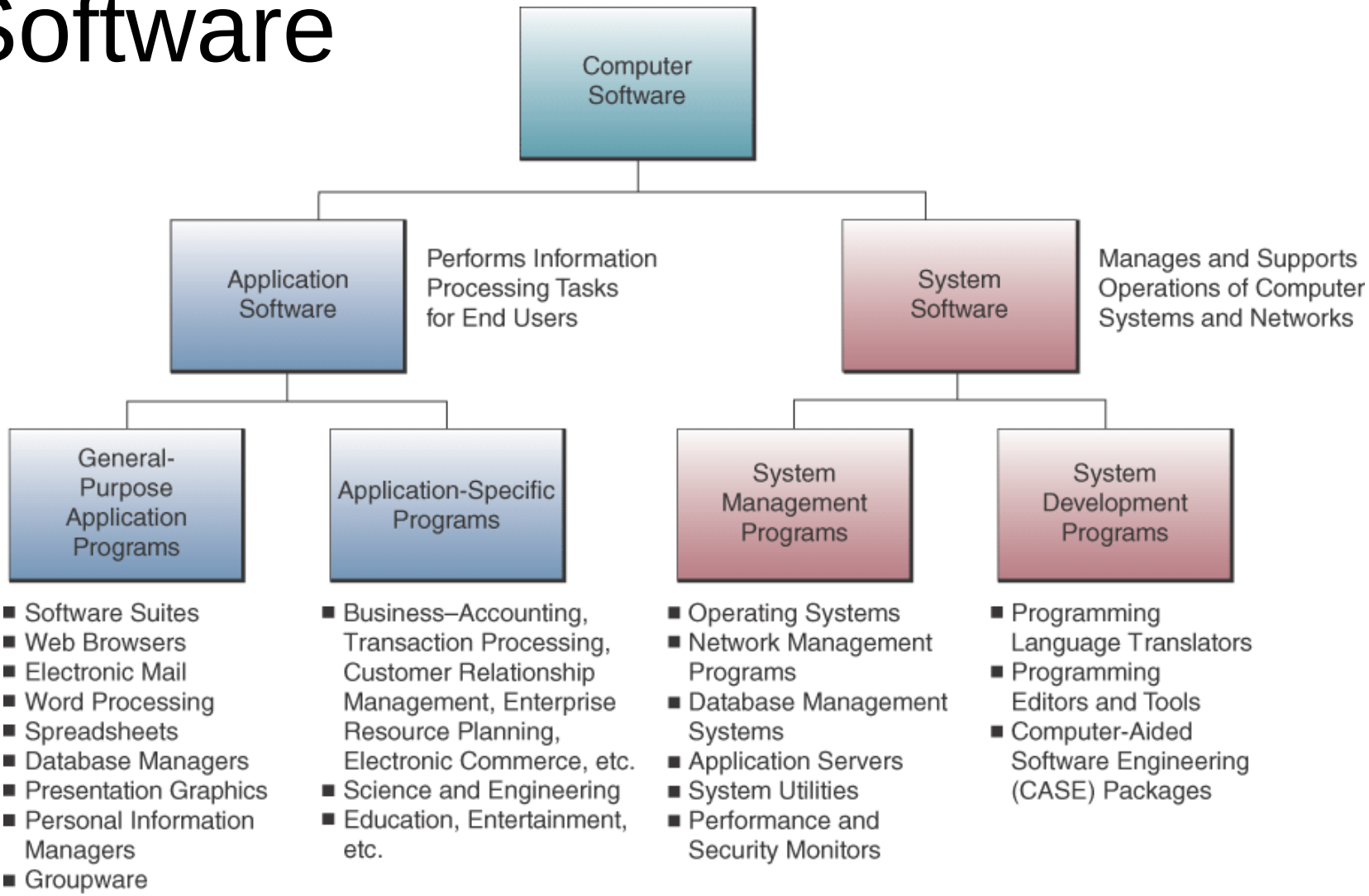
Types of Application & System Software



Application Software

- General Purpose
  - Programs that perform common information processing jobs for end users; e.g., word processing, spreadsheet
  - Also called productivity packages
- Custom Software
  - Software applications developed within an organization for use by that organization
- Commercial Off-the-Shelf (COTS)
  - Many copies sold
  - Minimal changes beyond scheduled upgrades
  - Purchasers have no control over specifications, schedule, or evolution, and no access to source code or internal documentation
  - Product vendor retains the intellectual property rights of the software

Software Suites, Integrated Packages

- Most widely used productivity packages are bundled together as software suites
- Advantages
  - Cost less than buying individual packages
  - All have similar GUI
  - Work well together
- Disadvantages
  - All features not used
  - Takes a lot of disk space (bloatware)

Application Software

- Open-source Software
  - Developers collaborate on the development of an application using programming standards which allow anyone to contribute to the software
  - As each developer completes a project, the application code becomes available and free to anyone who wants it

Business Application Software

- Function-Specific Application Software
  - Thousands of these packages support specific applications of end users
  - **Examples**: customer relationship management, enterprise resource planning, supply chain management, Web-enabled electronic commerce

Components of Top Software Suites

Programs	Microsoft Office	Lotus SmartSuite	Corel WordPerfect Office	Sun StarOffice
Word Processor	Word	WordPro	WordPerfect	Writer
Spreadsheet	Excel	1–2–3	Quattro Pro	Calc
Presentation Graphics	PowerPoint	Freelance	Presentations	Impress
Database Manager	Access	Approach	Paradox	Base
Personal Information Manager	Outlook	Organizer	Corel Central	Schedule

Integrated Packages

- Integrated packages combine the functions of several programs into one package
  - E.g., Microsoft Works, AppleWorks
- Advantages
  - Many functions for lower price
  - Uses less disk space
  - Frequently pre-installed on microcomputers
- Disadvantages
  - Limited functionality

Web Browsers

- Software applications that support navigation through the point-and-click hyper-linked resources of the Web
- Becoming the universal platform from which end users launch…
  - Information searches
  - E-mail
  - Multimedia file transfer
  - Discussion groups
  - Other Internet-based applications

Search Engines

- Browsers are used to gain access to Internet search engines
  - Google, Ask Jeeves, Look Smart, Lycos, Overture, Yahoo!
- Using search engines to find information has become an indispensable part of Internet, intranet, and extranet applications

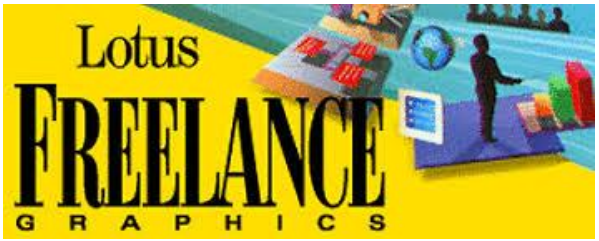
E-mail, Instant Messaging, and Weblogs

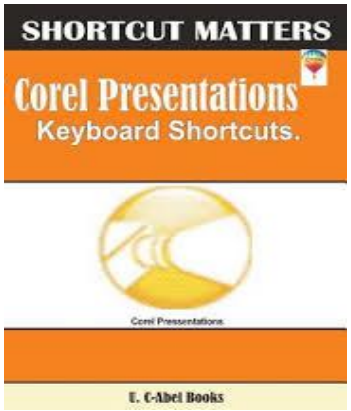
- E-mail
  - Software to communicate by sending and receiving messages and attachments via the Internet, intranet, or extranet
- Instant messaging (IM)
  - Receive electronic messages instantly
- Weblog or blog
  - A personal website in dated log format
  - Updated with new information about a subject or range of subjects

Word Processing/Desktop Publishing

- Word Processing
  - Create, edit, revise, and print documents
  - Example: Microsoft Word, Lotus WordPro, Corel WordPerfect
- Desktop Publishing
  - Produce printed materials that look professionally published
  - Example: Adobe PageMaker, Microsoft Publisher, QuarkXPress

Microsoft®
Word



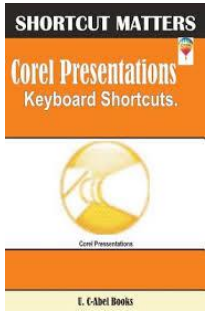


Electronic Spreadsheets

- Used by virtually every business for…
  - Analysis, planning, modeling
- Electronic Spreadsheet
  - Worksheet of rows and columns
  - Can be stored on local computer or on network
  - Requires designing format and developing the relationships (formulas)
  - Most help you develop charts and graphic displays of spreadsheet results
  - Supports what-if questions

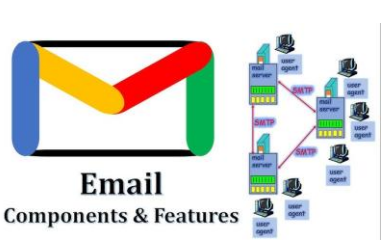
Presentation Graphics

- Common presentation graphics packages…
  - Converts numeric data into graphics displays
  - Used to create multimedia presentations of graphics, photos, animation, and video clips
  - E.g., Microsoft PowerPoint, Lotus Freelance, Corel Presentations
  - Top packages can tailor files for transfer in HTML format to websites



Personal Information Managers

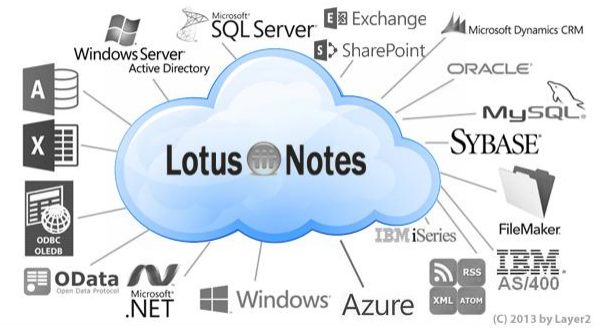
- Software for end user productivity and collaboration
  - Stores information about clients
  - Manages schedules, appointments, tasks
  - Most include ability to access the Web and provide e-mail capabilities
  - Some support team collaboration by sharing information with other PIM users
  - Example: Lotus Organizer, Microsoft Outlook



Groupware

- Software that helps workgroups collaborate on group assignments
  - E-mail, discussion groups, databases, video conferencing
  - Example: Lotus Notes, Novell GroupWise, Microsoft Exchange
  - Windows SharePoint Services and WebSphere both allow teams to create websites for information sharing and document collaboration

IBM Lotus Notes Integration via Layer2 Cloud Connector



www.layer2solutions.com

Novell GroupWise

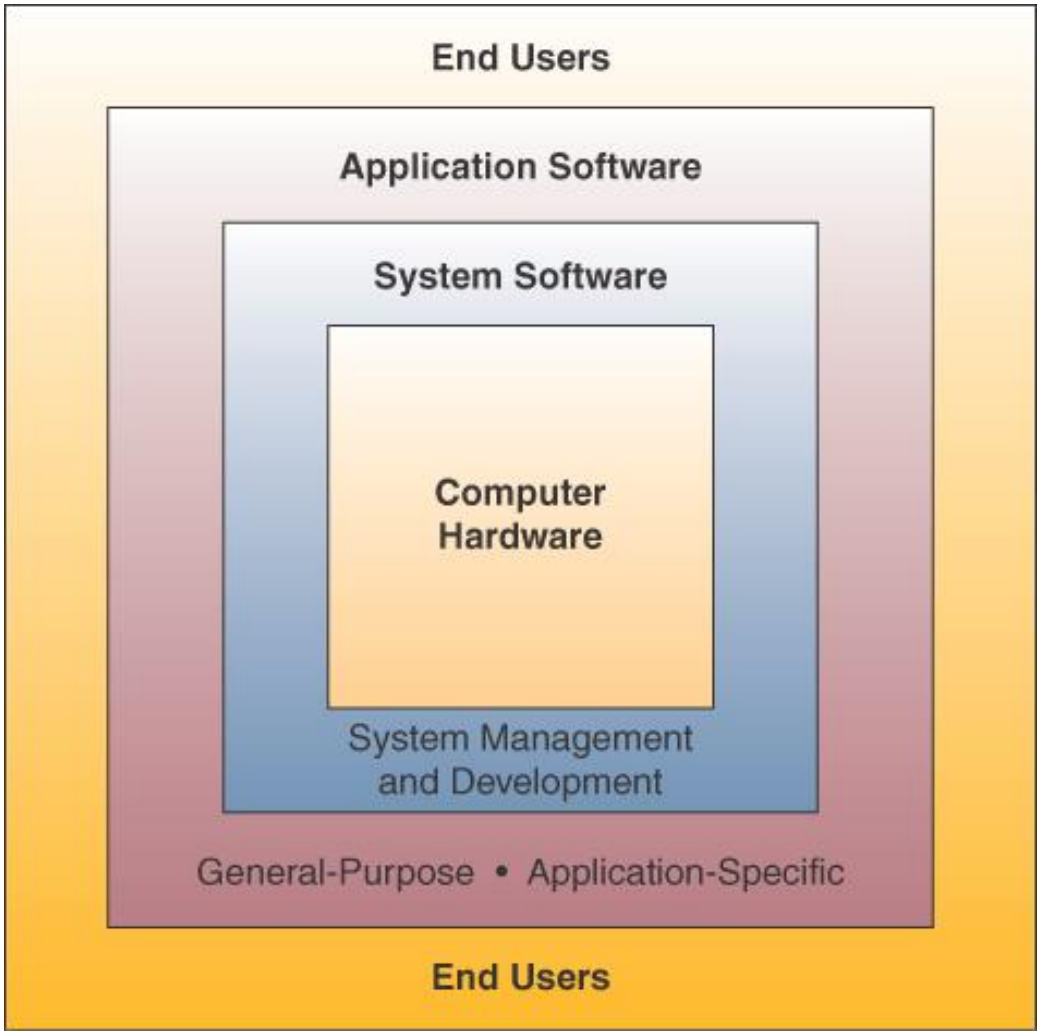
Software Alternatives

- Outsourcing development and maintenance of software
- Application service providers (ASPs)
  - Companies that own, operate, and maintain application software and computer system resources
  - Use the application for a fee over the Internet
  - Pay-as-you-go
  - Use expected to accelerate in the coming years

Software Licensing

- All COTS and ASP software is licensed
  - Involves the underlying..
    - Intellectual property rights
    - Copyright
    - Trademark
    - Trade secrets
  - Also involves traditional contract law, including Uniform Commercial Code (UCC)
- You don’t buy software
  - You buy a license to use the software
  - Licensed to protect the vendor’s property rights

Interface Between End Users and Computer



Thank you