

Overview Of Windows “*Chicago*”

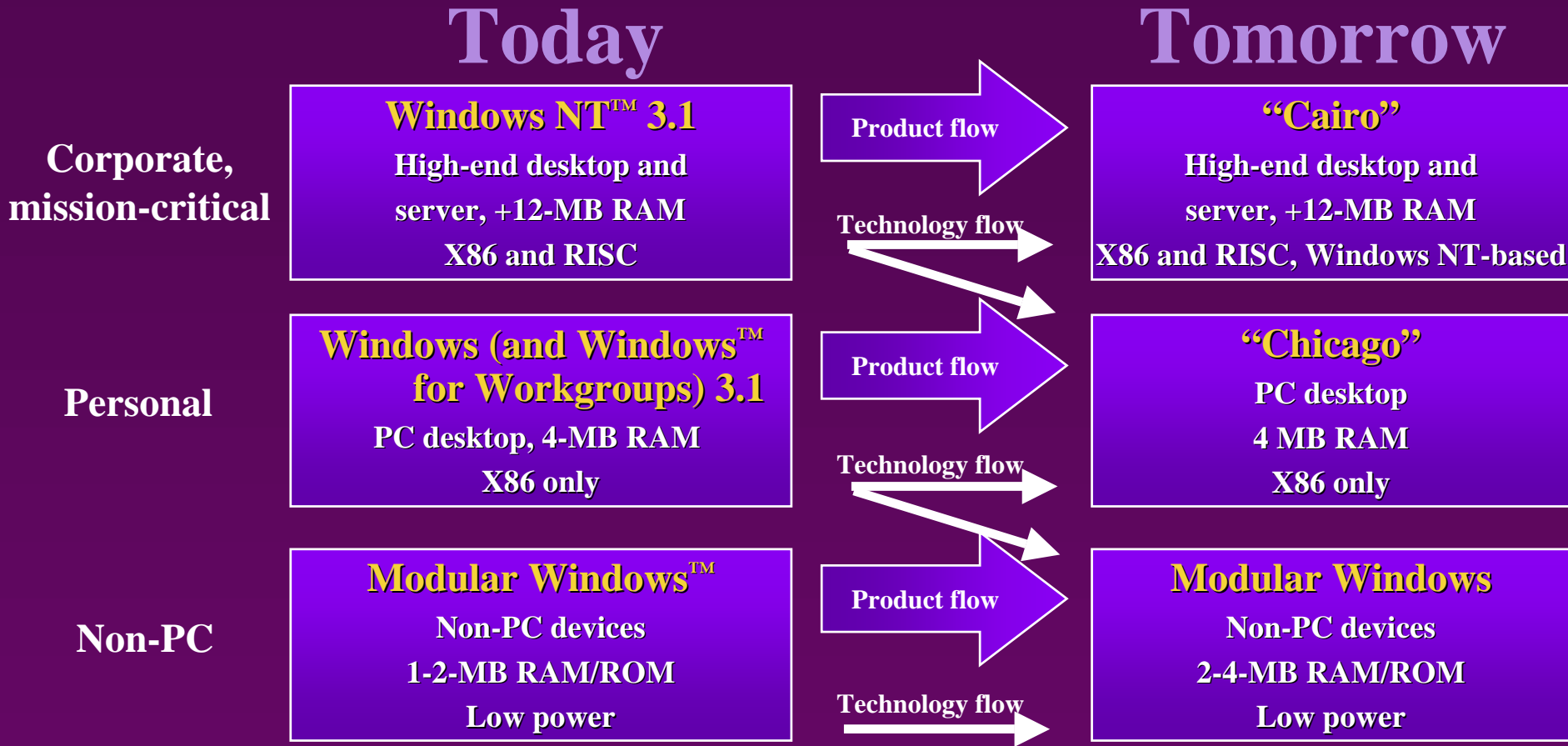


Tammy Steele
Technical Evangelist
Systems Marketing
Microsoft Corporation

Agenda

- ◆ **Product overview**
- ◆ **Product details**
- ◆ **Writing great Win32[®] applications**
- ◆ **Wrap-up**

Windows-Based Products Summary



- ◆ “Chicago” delivers features tuned for personal needs
- ◆ “Cairo” delivers “Chicago” features plus features tuned for corporate needs

Mission For Windows “*Chicago*”

- ◆ **End users**
 - **Make using PCs easy for everyone**
- ◆ **IS managers**
 - **Reduce cost of deployment**
- ◆ **The industry**
 - **A no-compromise standard for PCs**
 - **Great new applications on a mainstream platform**

Key Benefits OF Windows “*Chicago*”

◆ Easy

- Easy to install and configure; Plug and Play
- Easy to use
- Easy to connect and manage

◆ Powerful 32-bit OS

- Complete, bootable OS
- 32-bit APIs, 32-bit OLE 2.0, preemption, threads

◆ Great connectivity

- Integrated, high performance, network-independent
- LAN, WAN, remote; net, mail, fax

Safe, Hassle-Free Upgrade

- ◆ **Compatible**
 - **MS-DOS[®]-based applications and drivers**
 - **Windows 3.x-based applications and drivers**
- ◆ **Performs well on installed base platform**
- ◆ **Easy transition for Windows 3.x-based users**
- ◆ **Reliability improvements throughout**
- ◆ **Replaces Windows 3.1 and Windows for Workgroups**

Performance Goal

**If all a user does is change from
Windows 3.1 to “Chicago”,
performance will be as good or better
than under Windows 3.1***

***On a 386DX with +4-MB RAM**

Schedule

- ◆ **March: limited release to end users for shell/UI feedback**
- ◆ **April/May: broad beta release (M6)**
- ◆ **Second beta release 2-3 months after M6**
- ◆ **Planning “Early Experience” program to get “Chicago” prerelease into lots of users hands**
- ◆ **On target for 2H '94, but will ship when ready**

Plug And Play

◆ Software

- Safe, simple setup
- Easy system configuration

◆ Hardware

- Better configuration of current hardware devices
- Automatic configuration of new devices

Intuitive Interface

◆ New shell

- Great for new and existing users
- Unified manager and desktop
- Drag and drop everywhere
- OLE 2.0-enabled
- Long filenames
- File viewers
- Pen gestures built-in
- Improved printing interface
- Improved MS-DOS applications interface

OLE 2.0

◆ Applications

- Visual Editing
- Drag and drop across applications
- Automation
- Compound Documents

◆ System

- Drag and drop across desktop, tray, cabinet
- Ability to display document properties

◆ Application - system communication

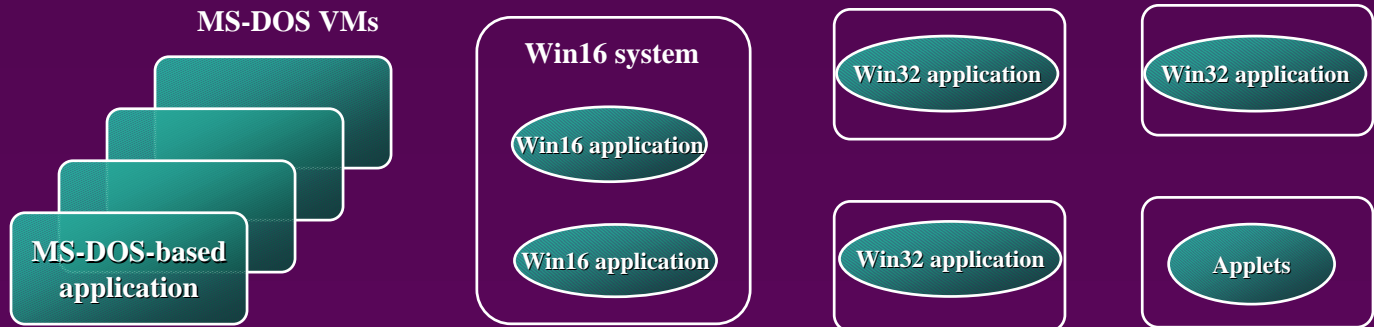
- Drag and drop between applications and system
- Interapplication programming

32-Bit Multitasking Operating System

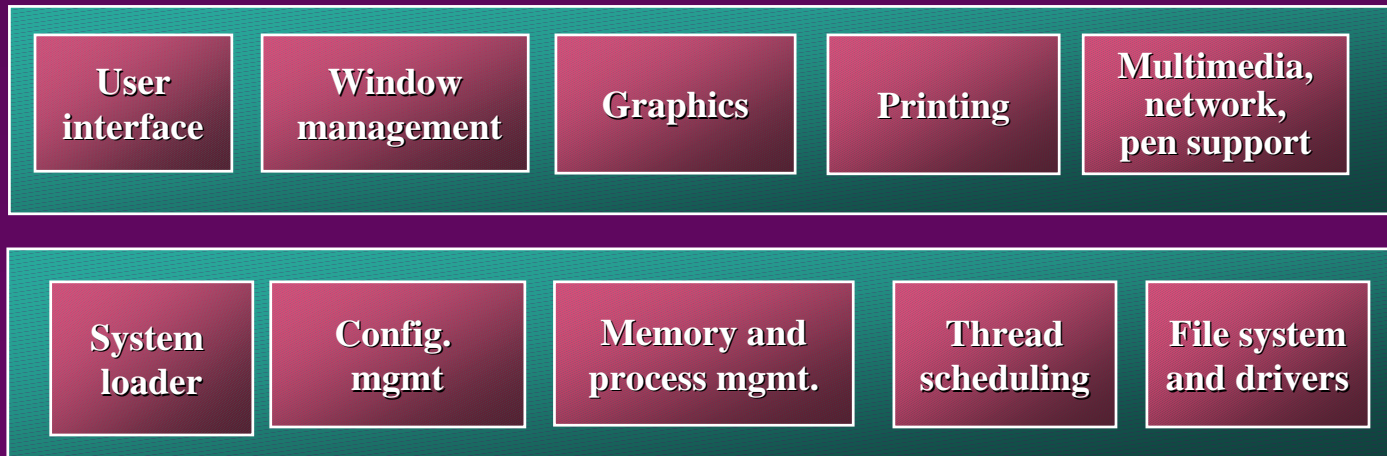
- ◆ **32-bit protect-mode components**
 - **Preemptive multitasking base**
 - **File system**
 - **Communications**
 - **Graphics**
 - **Networking**
 - **Printing**
- ◆ **32-bit API**

Windows "Chicago" Architecture

Applications



Operating system



Hardware



File System

Win16 application

Win32 application

MS-DOS-based
application

Installable File System Manager

VFAT

CD-ROM

Network Redir,
other

Device drivers

Devices

Communications

Win16 application

Win32 application

MS-DOS-based
application

Win16 API

COMM.DRV

VCOMM.386

Port driver VxDs

Win32
API

COMBUFF.386
VCD.386

Port devices
(COM, LPT, etc.)

Graphics

Application

**Graphics
device
interface**

**Image
color
matching**

**Display
minidriver**

**Printer
minidriver**

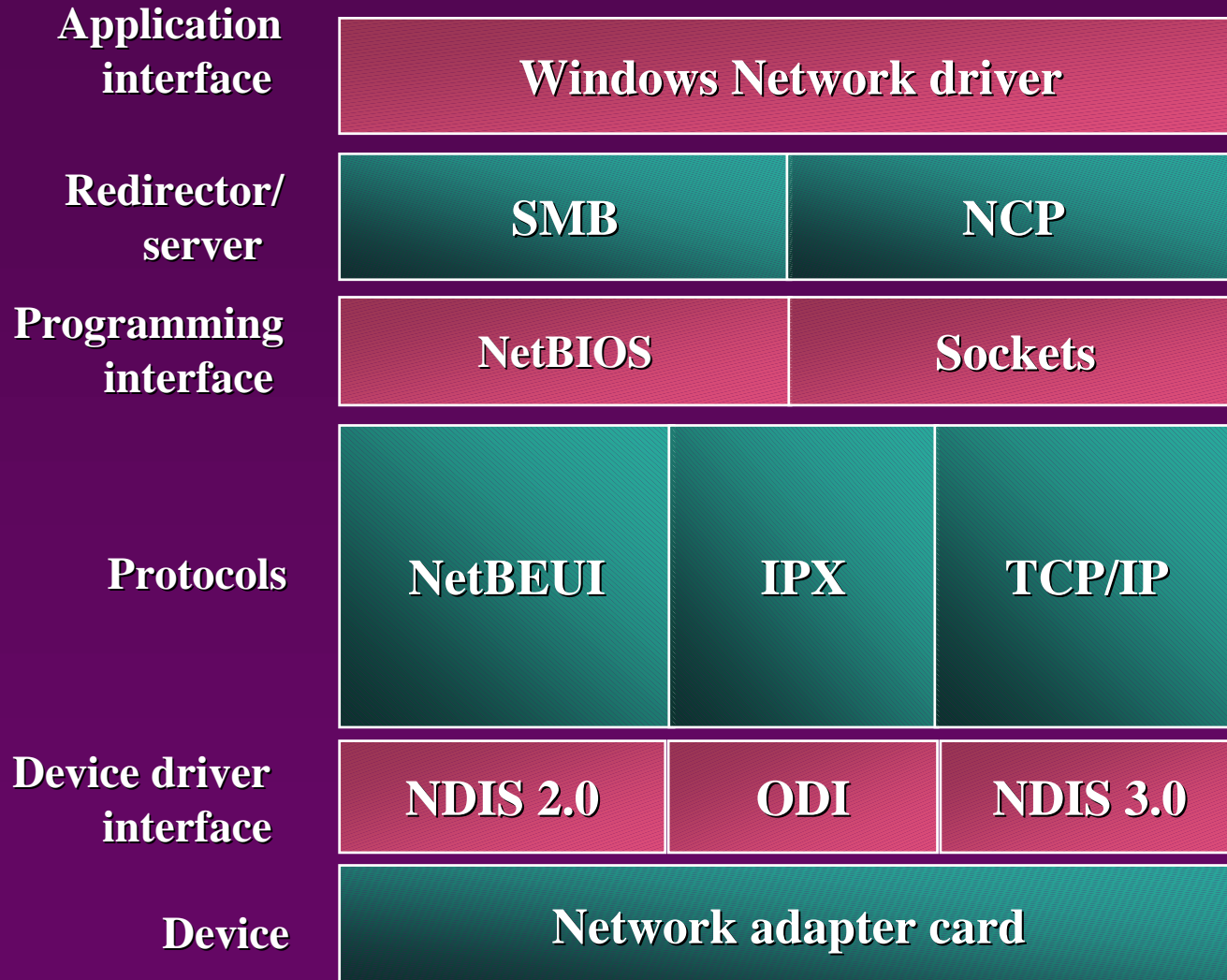
**Universal
printer driver**

Graphics DIB engine

Display

Printer

Networking



Printing

- ◆ **32-bit printing subsystem**
 - **Background printing**
 - **Metafile spooling**
 - **Bidirectional printing device support**

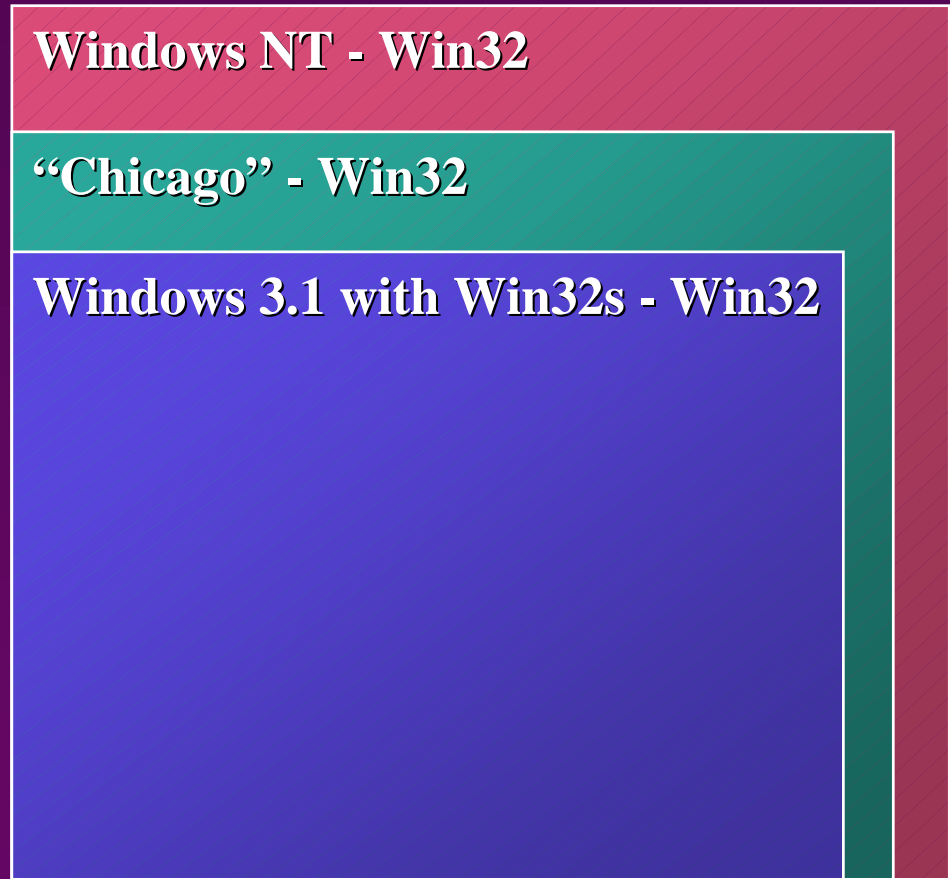
Multimedia

- ◆ **32-bit multimedia subsystem**
 - **Audio, video, image compression services**
 - **MCI for VCR, digital video**
- ◆ **Improved multimedia utilities**
 - **OLE 2.0-enabled**
 - **Better Sound Recorder, Media Player, MIDI applets**
 - **Hand Control Device, Mixer and Volume Control applets**

32-Bit Application Support

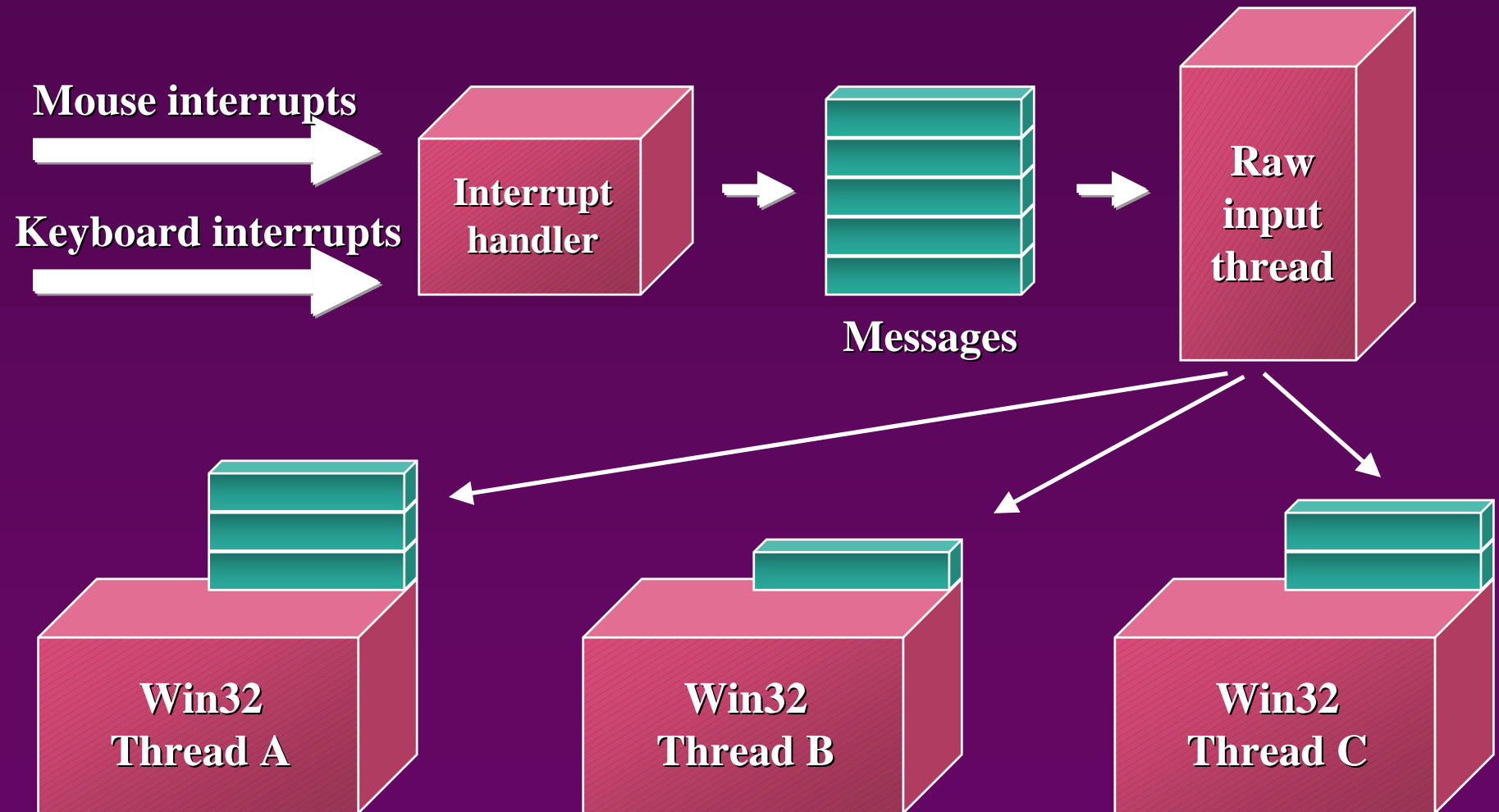
Upward API compatibility

- ◆ **Windows 3.1 - Win32s™**
 - Base 32-bit APIs
- ◆ **“Chicago” - Win32**
 - Base 32-bit APIs
 - Preemptive multitasking
 - Asynchronous input
 - Multithreading
 - Beziers, paths
 - Image Color Matching
 - Modem control
- ◆ **Windows NT - Win32**
 - Complete 32-bit APIs



32-Bit Applications

Asynchronous input model



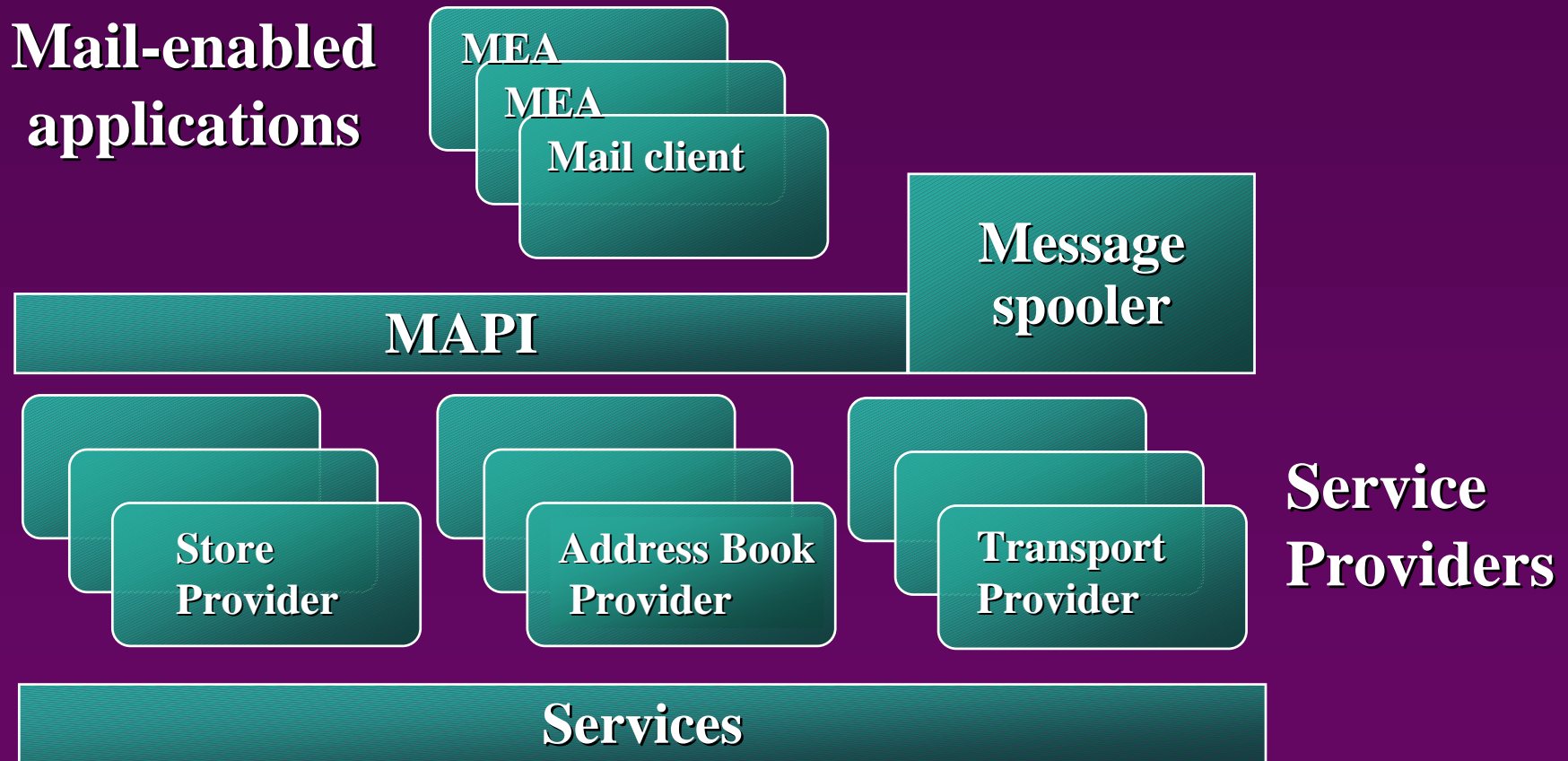
Great Connectivity

Enterprise client

- ◆ **Universal network client**
 - **Easy to connect**
 - **Easy to use**
 - **Easy to administer**
- ◆ **Built-in messaging**
 - **Electronic mail client**
 - **Fax transport**

Great Connectivity

Messaging architecture



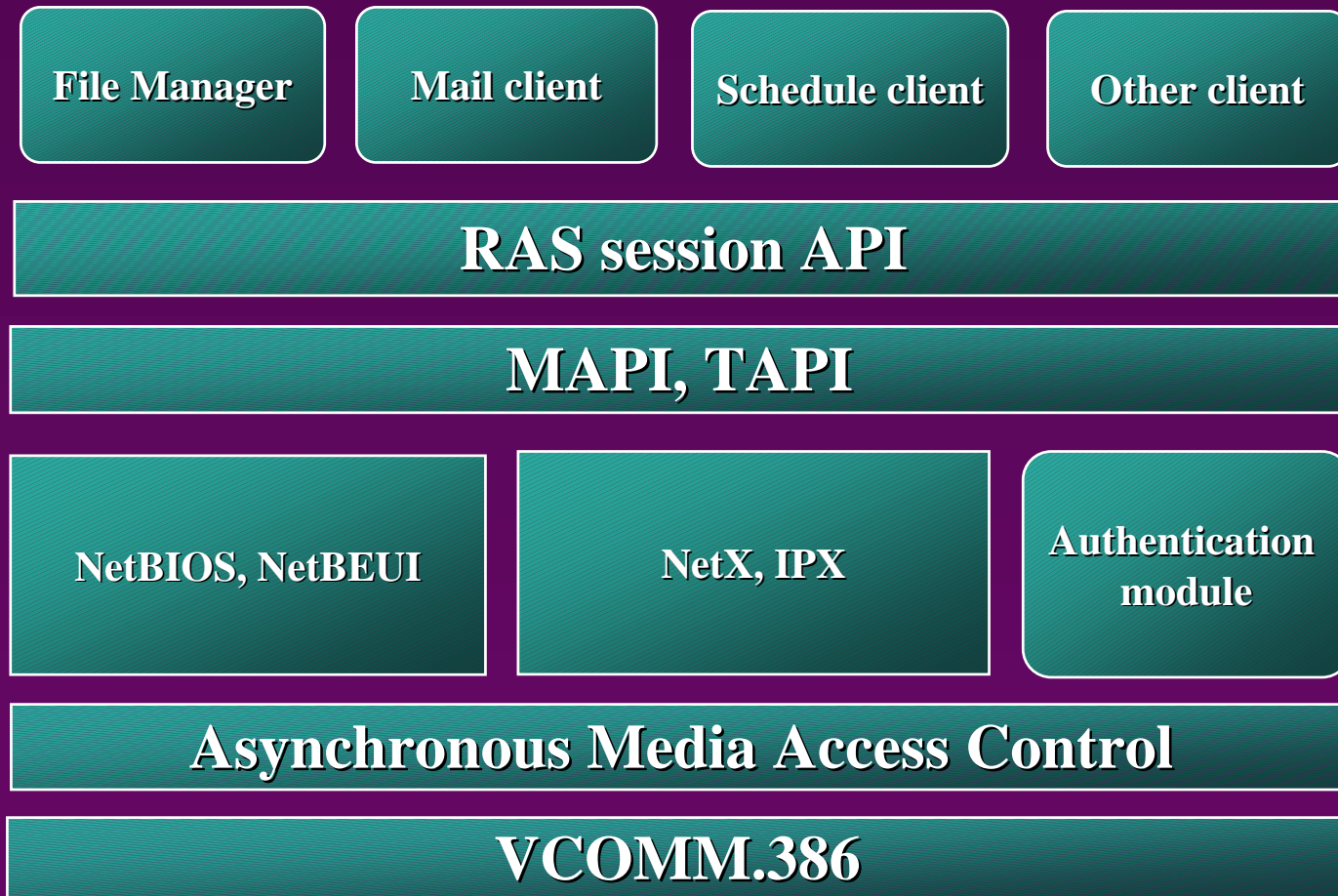
Great Connectivity

Remote services

- ◆ Remote network access
- ◆ Remote electronic mail
- ◆ File synchronization

Great Connectivity

RAS architecture



Great Windows-Based Applications

- ◆ **32 bits - Win32**
- ◆ **OLE 2.0**
 - **Container or object**
 - **Drag-and-Drop feature**
 - **Compound Files with summary information**
 - **Automation**
- ◆ **UI Style Guidelines**
 - **Long filenames, UNC support, register 16x16 icons, 3-D look, common dialogs, hide .3 extensions, support context menu on right mouse button click**
- ◆ **Setup: support Uninstall, use registry**
- ◆ **Plug and Play: messages**
- ◆ **Simple mail-enabled (CMC)**
- ◆ **Test and run on Windows NT “Daytona”**

Technical Strategy

- ◆ **Port your existing applications to Win32**
- ◆ **Attend:**
 - Class: WS 333**
**“The Future of Windows:
Win32 - On The Road to Cairo
and Chicago”**
 - Date: Mar 16, 1994**
 - Time: 1:00-3:00pm**
 - Room: J3 CC**
- ◆ **Test applications on all platforms**

Questions?