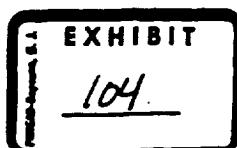# What is Chicago?

- Next high volume release of Windows
- Targets mainstream desktop market, 4 meg 386
- Enables great mobile computing platform
- Windows & new MS-DOS packaged together
- Easy upgrade for Windows 3.1 user base

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Key Chicago Improvements

- Easy setup and configuration, "plug and play"
- New shell & user interface; OLE 2.0
- Integrated/complete protect mode operating system
- Great workgroup environment
- 32-bit app support

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Key Chicago Requirements

- Compatible with MS-DOS and Windows apps and drivers
- Great 4 meg system
- High performance
- Robust, never crashes when apps are bad
- On schedule, available 1Q94

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Chicago Target Schedule

- Developer beta March 93
- End user beta June 93
- Available 1Q94
- Chicago team is "self-hosted" today

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Improvement: Plug and Play

- Great setup
- Easier to configure system parameters
- Define "friendlier" hardware
- Improved install/uninstall/config of hardware
  - Assist user in installing existing class of hardware
  - Automated install for friendly hardware
  - Defines framework for non-ISA solutions as well

Improvement: New Shell & UI

- Desktop model based on Cairo UI
- New visuals
- OLE 2.0 enabled
- Improved print manager UI
- Improved control panel for plug and play
- Mail UI integrated into the shell
- File Viewers
- Help from Windows 3.1

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Improvement: Integrated/Complete Protect Mode System

- Protect mode file system and IFS
- New driver model for
  - High performance async disk I/o
  - Mix and match SCSI devices/controllers
- New ring 3 print spooling system
- Loadable/unloadable and pagable VxDs
- MS-DOS utilities integrated into Windows
- Long file names
- Better VM UI
- Easier configuration (no more PIFs)

Improvement:
Great Workgroup Envrinoment

- Based on Window for Workgroups x.1 feature set
- Great network client and peer server
- Multi-network support
- Improved Mail (MAPI), small/fast
- Improved Schedule (Sched+ libraries, not "CAPI")
- Remote administration
- Document management

Improvement:
32-bit App support

- Called "Win32/Chicago" internally
- Small/fast Win32s API implementation
- Preemptive scheduling
- Asynchronous input model
- Threads, reentrant APIs
- Paths, beziers, enhanced (NT) metafile format
- Some of NT registry
- Separate address spaces

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Requirement:
Compatibility with MS-DOS and Windows

- Great MS-DOS app support; robust, toolbars, etc
- Runs all Windows 3.1 applications
- Runs Win32s apps that also run on NT
- Supports existing real mode MS-DOS device drivers
- Supports existing Windows device drivers

Requirement:
Great 4 meg System

- Works great with 2 business apps, plus Mail, and peer server running

Requirement: High Performance

- New protect mode disk i/o driver model
- Metafile print spooling for quick return to app time
- Remove USER and GDi heap limits
- DIB driver, high performance display
- Outperform Windows 3.1 for tbd end-user scenarios

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Requirement: Robust

- Complete parameter validation
- Win32/Chicago apps vs. Win16 apps
- GDI object ownership
- Common display driver code
- VM changes

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Requirement: On schedule

- Developer beta March 93
- End user beta June 93
- Available 1Q94
- Chicago team is "self-hosted" today

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What Microsoft Recommends

- **"Must Do"**
    - Target 4 meg 386
    - Support long file names
    - Update UI to match new visuals
    - Help test existing apps for compatibility
    - OLE 2.0
    - Exploit workgroup features as appropriate
    - Use Win32/Chicago APIs
- **"Should Do"**
    - Use enhanced metafiles
    - Workgroup enable apps
    - Test apps under debug Windows