

From: Tammy Steele
To: Tammy Steele
Subject: First Wave: Chicago Status Update
Date: Wednesday, June 15, 1994 8:48AM
Priority: High

Hi First Wave ISV!

As a part of the First Wave program, you will be receiving monthly updates concerning the status of Chicago. These updates will be sent to you via email (provided we have email access to you,) or via fax. These reports will come somewhere around the 15th of each month and will include a message from Brad Silverberg, Vice President of Personal Operating Systems, an update of Chicago status, as well as any pertinent development issues or news.

Please refer additional technical questions to the Chicago beta forum or to your Technical Envoy. If you have comments about the actual update, please feel free to reply to me (tammyst@microsoft.com).

Thanks,
Tammy

MESSAGE FROM THE VICE PRESIDENT

Dear First Wave Technical Liaisons,

As the Vice President of the Personal Operating Systems Division, I would formally like to welcome you to the First Wave Program. The objective of this program is to help you have great Windows Chicago applications when we ship Windows Chicago. I am very pleased to have the opportunity for our team to work closely with you, to achieve this objective together.

Each month we will be sending out updates to you. In these updates we will communicate the status of the Chicago project, and provide you with detailed information regarding the project.

The information contained in the enclosed report should be kept company confidential. It can only be distributed in accordance with your beta agreement. Your cooperation in keeping this material from going outside your company is appreciated and is critical to the continuation of this flow of information.

You will have many opportunities to discuss Windows Chicago with customers and partners in the coming months. It is important that you understand what material you can discuss, and what material is restricted by your beta agreement. The basic rule of thumb is this: Anything that Microsoft has discussed publicly you are free to discuss. To help you keep track of what we are saying publicly, we have established several electronic distribution points. We will post all public information on the Windows Chicago project in these locations. Please check these locations on a regular basis to get the latest and greatest public updates.

Here are the locations of the servers:

- (1) The Microsoft FTP server contains all of these files. Customers can connect to ftp.microsoft.com to retrieve them from the \peropsys\win_news\chicago directory.
- (2) The Microsoft WWW server contains many, but not all, of these files in hypertext form accessible to Mosaic users and other users of the internet WWW server. Connect to http://www.microsoft.com
- (3) The Microsoft Download Service also contains a complete listing of these files.
- (4) CompuServe GO WINNEWS.
- (5) Bulletin Board Networks -- FIDO*Net, Canada Remote Systems, and Windows Online may also contain complete sets of these files.

Our first wide scale beta internally known as Milestone 6 (M6) will ship in mid June, to over 15,000 sites. Your team should receive this the week of June 20. As you have already seen, in the Pre Beta release that we recently sent you, many things have improved since M5. Your feedback and interaction with our team will allow us to make another great leap when we release M7 in the September time frame. We are currently on track for a 1994 release to manufacturing.

As part of our ongoing efforts to educate the world about Windows Chicago, we held a Reviewers Workshop here in Redmond in late May. At this workshop we presented 2 full days of Chicago overview for over 150 editors and key analysts from around the world. This event represented the beginning of the review process for Chicago, and you will begin to see shortly the first major articles in the press on the Windows Chicago project. As part of this event we created a Reviewer's guide that will be sent to you shortly. It covers in detail all the exciting work done throughout Chicago: the Base Architecture, Device Support, Printing, Systems Management, Multimedia, UI, Plug & Play, Mobile Services, the Shell, Networking, Compatibility, Ease of Use, Power Features, and Performance. All of the information in the Reviewer's Guide is public. If you are in a hurry to see it, you can download it from one of the sites listed above.

The Windows Chicago Project is about much more than the next release of Windows. It represents a major milestone in the history of personal computing, and will affect the entire industry. 60 million existing Windows users represents a huge opportunity for new 32bit Windows Chicago exploitive applications. But the software industry is not alone, the vast array of new Plug and Play aware devices, and computers will forever change the way that people think about personal computers. I personally believe that a shift for the entire industry is about to unfold, and the opportunities are yours for the taking.

I know that many of you have already been hard at work on your

applications for Windows Chicago. It's hard for you to get the full gist of my enthusiasm in a letter, so let me just say that I am really looking forward to the opportunity to promote your efforts and hard work. You will get to see this first hand as we move closer to the launch of Windows Chicago.

Sincerely,
Brad Silverberg
Vice President - Personal Operating Systems Division

CHICAGO STATUS

Schedule Update:

M6: (Beta 1) is scheduled to release next week.

M7: (Beta 2) scheduled for September.

Milestone News (ie what's cool in M6):

Shell:

M6 includes a much more finalized shell design/implementation. Most components are now nearly complete, including the desktop and object namespace, folder views, the Explorer, extensibility mechanisms, and controls. A few changes and additions will still occur in the *next* beta, especially noteworthy: radio buttons will become circular, we will be adding a Wastebasket, our new Printing commdigs will be available, Wordpad & Paint will become 32-bit, and the shell will support OLE drag/drop.

Look for accessibility improvements in M6 including Sticky Keys, MouseMove, etc.) Sticky Keys come in handy for physically challenged people who may have a hard time pressing more than one key at a time.

This is activated by hitting the shift key five times which puts the keys into single access mode. Additionally, a high contrast screen is available via alt-shift-printscreens for people who are visually challenged. And, MouseMove allows the cursor keys to act as the mouse.

More information on the accessibility improvements can be found in the M6 release notes.

Core:

M-6 supports both DoubleSpace and DriveSpace drives, and MS-DOS 6.22 upgrades with DriveSpace have just become available. M-6 doesn't have the protected mode drivers, but M7 will have protected mode DriveSpace drivers.

Significant speed enhancements over the M4 and M5 releases. Even though there is a lot of new and added code, the system is much faster than the M5 PDK we sent out.

New fonts folder applet available through the Start menu in the Settings, Fonts menu item. This allows you to visually see all of the fonts that you have installed in the actual font itself. Also

has properties for fonts, and allows you to print out a nice sample page for the selected font.

Font smoothing. Enable this from the Desktop Setting tab to get anti-aliased fonts from any existing TrueType font. This increases the apparent resolution of the fonts to make them appear smoother. This only works on 256 color (and higher) video cards.

Multilingual font support. Several of the fonts that we ship in M6 contain many, many extra characters for international language support. To enable this dynamic keyboard layout (and language) switching, look under the "Language" tab of the Keyboard control panel icon. Some apps might not work transparently with this yet, but the WordPad applet that we ship does.

New application termination/fault user-interface for Ctrl-Alt-Del.

SDK/DDK:

New 32-bit rich text edit control that replaces the old 16-bit edit control, removes its limitations and adds a lot of new functionality.

Many more Win32 APIs implemented over the M5 PDK. See the win32api.csv spreadsheet in the SDK for more details.

New Thunk Compiler lets you build your own 16->32 or 32->16 bit thunks for your own DLLs. This is a very fast method (both in terms of execution speed and coding time) to produce mixed-model code.

PnP:

M-6 includes 32bit protect mode PCMCIA support. The Chicago PCMCIA drivers will detect and auto install many modems, hard drives and several network cards. An "add new device" wizard is included to guide users through installation of legacy devices. The System applet provides detailed information about the installed devices and their resource utilization.

Docking support for Plug and Play portable systems as well as legacy Compaq, Toshiba, TI and NEC is included as well. Chicago will automatically detect docked and undocked states and load only the appropriate drivers.

A new Registry Editor tool and enhanced power management support are included as well. A battery meter will appear on the tray on APM enabled systems and VESA power aware screen savers will automatically power down VESA compatible monitors.

Other:

M6 will contain 32-bit OLE in this beta release and is highly functional and usable for developing 32-bit applications using OLE (version 2.01-level functionality) technology. Interoperability between 32-bit OLE 2.0 and 32-bit OLE 1.0 applications is not supported.

The new help compiler provides full text search, 24-bit bitmap support, multiple content layout, and multimedia support.

Performance Numbers:

Launch Word (seconds, lower is better)

WFW 32/16 = 32-bit disk access, 16-bit file access (same as Win 3.1)
 WFW 32/32 = 32-bit disk access, 32-bit file access (new w/WFW 3.11, similar to Chicago and much faster)
 OS/2 FW = OS/2 for Windows

	4 MB	8 MB	16 MB	6 MB
WFW 3.11 32/16		9.3	6.7	6.8
WFW 3.11 32/32		10.4	6.1	5.9
Chicago (114)	14.4	7.3	6.1	
OS/2 FW 2.99 (fs,fl)	46.0	19.8	13.6	24.0
OS/2 FW 2.99 (fs)	47.0	20.7	16.0	25.5
OS/2 FW 2.99 (w,fl)	55.0	12.0	8.4	16.0
OS/2 FW 2.99 (w)	73.0	20.7	14.1	28.0
OS/2 FW 2.99 (w,ss)	76.0	20.9	14.4	27.2
OS/2 FW 2.99 (w,ss,fl)	102.0	20.5	13.8	27.0
OS/2 FW 2.11 (w)	102.6	23.5	15.0	32.5
OS/2 FW 2.11 (w,ss)	104.0	24.0	15.0	32.1
OS/2 FW 2.11 (fs)	104.0	24.0	15.5	28.5

Launch Excel

	4 MB	8 MB	16 MB	
WfW 3.11 32/16		6.5	4.4	4.4
WfW 3.11 32/32		7.5	4.0	4.0
Chicago (114)	12.0	5.3	4.5	
OS/2 FW 2.11 (w)	101.0	25.0	12.8	
OS/2 FW 2.11 (w,ss)	103.0	24.0	12.5	
OS/2 FW 2.11 (fs)	103.0	21.0	12.8	

- SS = Separate session (OS/2's option for running Win16 apps in separate VDM, in a window)
- FL = Fast Load (OS/2 2.99 beta's option for preloading a Windows session for faster app startup)
- W = Windowed (OS/2's default of running Win16 apps in window on the OS/2 desktop)
- FS = Full screen
- FW = For Windows

OTHER DEVELOPMENT NEWS

You will receive a third party tools CD that will include tools from the following vendors:

Borland's BC++

MetaWare's High C/C++
Stirling's InstallSHEILD (setup)
Genesis's Resource Assistant (resource editor)
Vireo's VToolsD (VxD's in C)
Nu-Mega's Bounds Checker for Chicago
Hamilton's C Shell+tools
Summit's BasicScript (VBA clone)

Check out the setup guidelines available with the M6 SDK for more information about install/uninstall issues for your Win32 application.

An updated version of the UI Style guide is available with the M6 SDK.

In the samples section of the M6 SDK, there are several (20 or so) cool sample apps that show how to take advantage of the new controls.

* NOTE: Win32 applications using CRTDLL from the Daytona beta will not run on Chicago M6 beta or on Win32s 1.15 or earlier. CRTDLL contains a new entry point. If CRTDLL is not used then the application will run on all platforms. This will be fixed for M7 and Win32s 1.15a.

* NOTE: The Win32 header files are not yet sync'd between the Windows NT 3.5 beta (Daytona) and the Chicago beta M6. These files will be sync'd for M7.

* IMPORTANT NOTE: READ THE INSTALL NOTES BEFORE INSTALLING M6. IT WILL NOT INSTALL OVER PREVIOUS BUILDS OF CHICAGO.

LOOKING AHEAD

For M7, look for the following functionality:

- >> Wastebasket support
- >> Circular Radio buttons
- >> New Printing cmdmgl available
- >> Shell will support OLE drag/drop
- >> 32-bit versions of WordPad and MSPaint
- >> Protected mode DriveSpace drivers

OLE functionality available in M7:

- >> Interoperability between 16-bit OLE 2.01 and 32-bit OLE (version 2.01 level functionality) applications.
- >> Enhanced metafiles and DIBs/Bitmaps.
- >> Object conversion/emulation.
- >> CoCreateGuid.
- >> Filenames over 200 characters in length.
- >> Canceling OLE calls; that is, if your application supports IMessageFilter, the MessagePending method is not allowed to return PENDINGMSG_CANCELCALL.

Plus more exciting features to come!

Thank you for your participation,

Your First Wave Technical Envoys