



March 13, 1989

Dear Microsoft Windows OEM/Device Driver Writer,

We appreciate your interest in adapting your products to the Windows environment. This Windows/286 2.11 OEM Binary Adaptation Kit provides you with the sources necessary to build all of the appropriate drivers that are being shipped in the Windows/286 Version 2.11 retail product. These driver sources give you a framework on which to develop drivers specific to your device(s). You are also provided with sources to modify the Windows Setup and Installation utility.

We recommend that you take the following steps in developing your device driver(s):

- * If you are updating your existing Microsoft Windows driver, be sure to read the Release Notes provided to determine what is new in this release.**
- * Use the sample sources and documentation provided to develop your device drivers for the Windows environment.**
- * Use Microsoft OnLine technical support service to ask questions/provide feedback during the development of your driver. Phone 800-443-4672 for information on this service.**
- * Test the resulting driver against the test scripts provided.**
- * Register your product in the Windows Hardware and Software Directory. This will give your product exposure to end-users, press analysts, and the entire Microsoft Windows community. You may register in the directory by calling 1-503-245-0905.**

We wish you the greatest success in your adaptation efforts.

Respectfully,

Microsoft Windows Product Marketing

**MICROSOFT PRODUCT SUPPORT SERVICES
OEM/PSS RELEASE MANAGEMENT**

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FOR
WINDOWS/286 2.11 OEM BAK**

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**RELEASE NOTES
FOR
WINDOWS/286 2.11 OEM BAK
MARCH 13, 1989**

Overview

Following is a list of the specific code changes made in the Windows/286 2.11 Retail Release that will *impact* the Windows/286 2.11 OEM BAK. Also included will be a description of the changes and the code and/or binaries that have been effected by this release.

Addition to OEM BAK

A. Printer Fonts Kit

1. Fonts Guide (which covers the following):

- Discussion of Windows screen fonts
- Printer Font Metrics files (PFM)
- Printer Cartridge Metrics files (PCM)
- The PFM Editor utility (PFMEDIT.EXE)
- Using PFM files with Postscript printers
- Using PFM files with PCL / HP LaserJet printers

2. Technical Notes on the PCL Driver (which covers the following):

- Covers HPPCL.DRV versions 3.0, 3.1, and 3.2
- WIN.INI flags
- Using Permanent Soft Fonts
- The SFINSTAL.DIR file
- Using the Soft Font Installer
- How the HPPCL driver generates PFM files

Specific Code Changes

A. Setup

1. Fix setup so that you can setup on a 512K machine.

Setup grew by 3K between the 2.10 releases, and this increase was great enough to prevent setup from executing on a standard 512K machine running DOS 3.3.

This was remedied by removing unused code, discarding code after initialization, and change disk layouts.

2. Allow setting up when device drivers prevent installation of HIMEM.SYS.

Under the 2.10 release of setup, setup terminated when it encountered a device driver which would interfere with Himem.sys.

The new version of setup will instead give the user the options of aborting setup and removing the device driver or continue setup without installing himem.sys.

Code and/or binaries that changed:

Setup Directory

su20d12.inf, su386d72.inf, su20d36.inf, su20d72.inf,
su386d12.inf, su386d36.inf, convlogo.c, sudest.c, sumain.c,
sutest, docu.doc, subinovi.c, sudisk.c, sureadme.c, sutest.c,
graphics.c, sucompat.c, sudriver.c, suscr.c, suwinini.c,
makefile, sucopy.c, sufont.c, susel.c, setup.h, sudata.c, suinf.c,
susource.c

B. Fix VGA and EGA R2_XORPEN.

When using R2_XORPEN on an EGA or VGA with a color display in the range Magenta to Yellow the system would crash. This problem has been corrected.

Code and/or binaries that changed:

Vga-Ega Directory

scanline.asm

C. Update COMM driver to solve hardware handshake problems.

Fixed COMM.DRV to solve handshake problems in Windows/286 and Windows/386 and on IBM PS/2 Model 50zs.

Code and/or binaries that changed:

Comm Directory

ibmint.asm

D. Modify keyboard drivers to disable NMIs under OS/2.

When the keyboard drivers see CTRL+ALT+SYSREQ (CTRL+SYSREQ on the AT keyboard) they generate an NMI which should break into the debugger if one is installed. In the OS/2 compatibility box, however, this causes OS/2 to crash. Therefore, this feature will be disabled when running under OS/2. All keyboard drivers will be effected.

Code and/or binaries that changed:

Keyboard/Common Directory

datacom.asm

E. Update logo to reflect version and copyright change.

Change version number from 2.10 to 2.11 and change copyright from 1988 to 1989.

Code and/or binaries that changed:

Logo Directory

logo.asm

F. Update MSDOS Exec and Control Panel to reflect version and copyright change.

For retail and SAE support version numbers for Control Panel and MSDOS Exec where changed from 2.1 to 2.11 and their copyrights where changed from 1988 to 1989.

Code and/or binaries that changed:

Control Directory

control.rc, control.exe

Msdos Directory
msdos.rc, msdos.exe

G. Update build tools to binary compare with Windows 2.11.

In order to build and binary compare the display drivers that are included with the Windows 2.11 Retail package, the RC compiler has been updated. However, you will still need to use the RC compiler in the resources directory to rebuild the resource if necessary.

Code and/or binaries that changed:

Bldtools Directory
rc.exe, rcpp.exe

Resources Directory
rc.exe, readme.txt

H. Update debug version of Windows/286 with the Windows/286 2.11 binaries.

Update the debugging (slowboot) version of Windows/286 to correspond with the Retail Windows/286 2.11

Code and/or binaries that changed:

Winboot Directory
comm.drv, kernel.exe, keyboard.drv, win.cnf, display.drv,
kernel.sym, msdos.exe

I. Update Readmes to the 2.11 Retail product.

Update those readmes that changed in the Windows Retail 2.11 product.

Code and/or binaries that changed:

Readmes Directory
readme.txt, readmehp.txt, readmeps.txt, readmeto.txt