

## HOW TO RUN WINOS2 UNDER BOTH DOS AND OS/2 2.1 GA

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This document describes how to set-up a common set of WINOS2 and Windows files which run under both OS/2 2.1 GA and DOS. This will allow WINOS2 when run under DOS to execute programs which use Windows VxDs (I have tested Visual C++ 1.0 but no others). Essentially you do not have to maintain a separate set of Windows files into order to run the few programs which require VxDs. This setup runs WINOS2 under DOS in contrast with "OS/2 for Windows" which runs Windows under OS/2. The set-up procedure copies several (many) files from Microsoft Windows to your WINOS2 directory.

I have described the process in 8 steps which are detailed below. It is assumed that you have WINOS2 installed and it is fully operational. It is also assumed that Microsoft Windows is installed in directory C:\WINDOWS and WINOS2 is installed in directory D:\OS2\MDOS\WINOS2. Substitute the drive and directory names to match your particular set-up. Backup up your WINOS2 directories before you start.

DISCLAIMER: This procedure works for me (and several colleagues) but if it does not work for you, it is your problem - not mine. I bear no responsibility what-so-ever. Nothing. Zilch.

Anyway if you do have problems or suggestions send Internet mail to John Muir at MUIR@DSTOS3.DSTO.GOV.AU and I will try to help.

### STEP 1 - INSTALL WINDOWS UNDER DOS

It is best to do all these changes under real DOS. Boot real DOS and install Microsoft Windows 3.1 to directory C:\WINDOWS. A minimum install is sufficient.

### STEP 2 - CREATE DIRECTORIES TO HOLD DOS AND WINOS2 VERSIONS FILES

Under the D:\OS2\MDOS\WINOS2\SYSTEM directory create a directory called MSDOS and another directory called OS2 as follows.

```
md d:\os2\mdos\winos2\system\msdos
md d:\os2\mdos\winos2\system\os2
```

### STEP 3 - COPY WINDOWS FILES TO WINOS2 DIRECTORY

Copy Windows files from C:\WINDOWS to D:\OS2\MDOS\WINOS2 as shown below (renaming them as indicated - each command is on a single line not two as some are shown). It is assumed that your mouse driver for both Windows and WINOS2 is called MOUSE.DRV (ie Microsoft). If it is something else it is best to rename the Windows mouse driver to have the same name as the WINOS2 mouse driver and then modify all references to MOUSE.DRV in this document to have the WINOS2 mouse driver name.

```
rename d:\os2\mdos\winos2\system\user.exe
                                d:\os2\mdos\winos2\system\os2user.exe
copy c:\windows\system\user.exe  d:\os2\mdos\winos2\system\user.exe
copy c:\windows\system\krnl386.exe d:\os2\mdos\winos2\system\krnl386.exe
copy c:\windows\system\krnl286.exe d:\os2\mdos\winos2\system\krnl286.exe
```



```
call=d:\os2\xcopy.exe d:\os2\mdos\winos2\system\os2\os2main.cpl
                        d:\os2\mdos\winos2\system\main.cpl
```

#### **STEP 6 - EDIT DOS AUTOEXEC.BAT**

Edit the DOS AUTOEXEC.BAT and add the following lines. Starting DOS will now restore the original Windows files that are required for WINOS2 to run under DOS.

```
copy d:\os2\mdos\winos2\system\msdos\dosmouse.drv
                        d:\os2\mdos\winos2\system\mouse.drv
copy d:\os2\mdos\winos2\system\msdos\doswin.com
                        d:\os2\mdos\winos2\win.com
copy d:\os2\mdos\winos2\system\msdos\dosgdi.exe
                        d:\os2\mdos\winos2\system\gdi.exe
copy d:\os2\mdos\winos2\system\msdos\doscomm.drv
                        d:\os2\mdos\winos2\system\comm.drv
copy d:\os2\mdos\winos2\system\msdos\dosmain.cpl
                        d:\os2\mdos\winos2\system\main.cpl
```

Additionally, modify the DOS PATH= statement to include D:\OS2\MDOS\WINOS2 instead of C:\WINDOWS.

#### **STEP 7 - INSTALL WINDOWS VIDEO DRIVER**

Reboot the machine under DOS, making sure the changes made in step 6 are executed correctly. Change to the D:\OS2\MDOS\WINOS2 directory and run SETUP.EXE. Reinstall the Windows video driver (the resolution can be different to that of your OS2 Desktop) using your original Windows disks.

This process rebuilds the Windows WIN.COM, so issue the following command to ensure there is a copy to restore when DOS is booted.

```
copy c:\windows\win.com d:\os2\mdos\winos2\system\msdos\doswin.com
```

#### **STEP 8 - TESTING**

You should now be able to run WINOS2 under DOS with the command WIN.COM. Both standard and enhanced modes should work.

Boot OS/2 and make sure the CALL= statements added in step 5 are executed correctly. WINOS2 should run in both enhanced and standard modes and full screen and seamless modes.

#### **ADDITIONAL NOTES**

WINOS2 does not include some Windows applets such as TERMINAL and RECORDER. Use the set-up applications options in the WIN-OS2 Set-up applet (which is now really Windows Set-up) to add the optional Windows components. You will have to manually move PIFEDIT.EXE, DOSPROMPT.PIF and \_DEFAULT.PIF from C:\WINDOWS and create program objects for PIFEDIT and DOSPROMPT.

Note that the OS/2 Migrate Applications program assumes that you have WIN-OS2 Main and WIN-OS2 Accessories groups under Windows Program Manager. Therefore move any programs in the standard Main and Accessories groups created by Windows Set-up to their corresponding WIN-OS2 groups.

If you experience jerky mouse movement when running WINOS2 full screen try setting IDLE\_SECONDS to 3.

Originally I had determined how to run Windows under OS/2 just like "OS/2 for Windows" (see file OS2WIN31.WRI also contained in the archive). However it is more complex than the method described here and the Migrate Applications will not migrate the Windows Main and Accessories groups correctly. The method presented here has no known problems ( fingers crossed :- ) ).