

## **WINBENCH® 96 VERSION 1.0 README.WRI**

This is the **README.WRI** file for WinBench® 96 Version 1.0. You can view this file from the Windows® Write program. This file contains the WinBench 96 license agreement, installation instructions, and important notes about WinBench 96. Before you run WinBench 96, you must first read and agree to the license agreement.

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- A. Identify Ziff-Davis, the name and version number of the benchmark Software used (i.e., Ziff-Davis' WinBench® 96 ver. 1.0);
- B. Identify the specific WinBench 96 score(s) being reported (i.e., Ziff-Davis' WinBench® 96 ver. 1.0 Graphics WinMark™ 96);
- C. Identify the exact name, processor speed and type, amount of RAM, amount of secondary RAM cache, if any, hard disk model, type of hard disk controller, and size of hardware hard disk cache, if any, of the PC used for the test (e.g., WXY Corp. Model 466 with 66-MHz Intel® 486DX2-66 CPU, 8MB of RAM, 64KB RAM cache, 200MB hard disk, IDE controller, and no hardware disk cache);

- D. Identify the exact graphics adapter name, amount and type of RAM on it, graphics driver name and date, refresh rate, Microsoft® Video for Windows® version, and CODEC version that produced the result (e.g., XYZ Corp. XYZ Graphics adapter with 2MB VRAM with XYZ.DRV version 1.1 driver, a refresh rate of 72 Hz, Microsoft Video for Windows version 1.1e, and Intel Indeo™ Video version 3.2 CODEC);
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## **INSTALLING WINBENCH® 96 VERSION 1.0**

To install WinBench 96 from the CD-ROM, run **SETUP.EXE** from the **\ZDBENCH\WB96** directory on the CD-ROM.

NOTE: If you received WinBench 96 on CD-ROM, that CD-ROM may contain the Ziff-Davis PC Benchmarks Installer program. With this installer program, you can install both WinBench 96 and Winstone 96, as well as other programs WinBench 96 requires, at one time. If you're running Windows 95, the installer program starts automatically if the CD-ROM is in the CD-ROM drive. If you need to start the installer program, execute **INSTALL.EXE** from the CD-ROM's root directory using the **File | Run** command under Windows.

If you're installing WinBench 96 from diskettes, **SETUP.EXE** is in the top-level directory on DISK 1.

WinBench 96's **SETUP.EXE** program lets you specify the drive and directory where you want to install WinBench 96. The default directory is **C:\ZDBENCH\WB96**. We suggest you use this default directory to make it simpler for you to install and use other Ziff-Davis benchmarks.

NOTE: If you're using Windows (version 3.1 or 3.11) or Windows for Workgroups (version 3.1 or 3.11) or OS/2® Warp, you must also install the Video for Windows and Win32s subsystems **before** you run WinBench 96.

You need Video for Windows to run any of the video playback tests. Execute **SETUP.EXE** from the **\VFW11E** directory on the CD-ROM.

You need Win32s to run the *Processor/32-bit* test or the *CPUmark<sub>32</sub>*. (You don't need to install these subsystems if you're using Windows 95 or Windows NT™.) The version of Win32s you install depends on the operating system running on the test PC.

**If the PC is running:**

**Execute SETUP.EXE from:**

OS/2

**\WIN32S\111\DISK1**

Windows 3.1 or 3.11 or

Windows for Workgroups 3.1 or 3.11

**\WIN32S\125\DISK1**

After you install WinBench 96, choose its icon from the Ziff-Davis Benchmarks program group to open the main window. You can also run WinBench 96 in batch mode. See the WinBench 96 documentation or the **RUNWB.INI** file for information on how to use batch mode. (You'll find the **RUNWB.INI** file in WinBench 96's installation directory.)

The first time you run WinBench 96, the licensing and registration windows will appear. You must agree to the license and register your copy of the software before you can run any tests.

NOTE: For more information on installing and running WinBench 96, see the WinBench 96 documentation. The section "On-Line Documentation" later in this file tells you about the WinBench 96 documentation.

## **IMPORTANT WINBENCH 96 NOTES**

**The following list provides information you need to know BEFORE you run WinBench 96. Read these notes before running the software.**

1. You must read and agree to the license information listed at the beginning of this file before you run WinBench 96. The same information appears on your PC's screen when you first run WinBench 96. If you don't agree to the licensing information, delete all copies of WinBench 96 in your possession or under your control (or cease its use and delete all local copies if you received it as part of a collection of software) and return the media on which you received WinBench 96 and all accompanying materials (including any documentation) to the Ziff-Davis Benchmark Operation (ZDBOp) at the following address:

Ziff-Davis Benchmark Operation  
1001 Aviation Parkway, Suite 400  
Morrisville, North Carolina 27560

2. WinBench 96's minimum hardware and software requirements include:

- MS-DOS® 5.0 or later, Novell® DOS 7, or OS/2 Warp
- Microsoft® Windows 3.1 or later, Windows for Workgroups 3.1 or later, or Windows NT 3.5 or later
- An 80386 (or compatible) or higher processor
- 8MB of RAM, when used with DOS and Windows 3.1, more for other configurations
- 6MB of free disk space for installation
- 58MB plus the size of RAM on the PC as additional free disk space for the Disk WinMark™ 96 tests
- A CD-ROM drive if you're planning to run the CD-ROM or video tests
- A VGA resolution (640x480) or higher graphics adapter
- The Microsoft CD Extension software or equivalent.
- A sound card
- Video for Windows (Windows, Windows for Workgroups, and OS/2 Warp PCs only)
- Win32s (version 1.25 for Windows and Windows for Workgroups; version 1.1 for OS/2 Warp)

WinBench 96 will run in less RAM, but it may produce invalid results due to paging activity.

Under OS/2 Warp, WinBench 96 will only run in an "enhanced mode" Win-OS/2 session.

3. WinBench 96 is the most recent release of this product. This release differs from previous releases in many important ways. As a result, you can meaningfully compare WinBench 96 results only with other WinBench 96 results. Don't attempt to compare results from WinBench 96 with results from earlier versions of WinBench.
4. You can interrupt an executing test or group of tests by pressing the ESC key. If the executing test is a disk, CD-ROM, or video test, WinBench 96 will halt the test fairly quickly. If the executing test is a graphics or processor test, WinBench 96 must finish the currently executing test. Once that test ends, though, WinBench 96 won't execute any of the remaining tests in the group.

A graphics or processor test can take several minutes to complete. The only way to immediately terminate one of these tests is to use the Ctrl-Alt-Del key combination. If you interrupt WinBench 96 using Ctrl-Alt-Del, you should restart Windows as soon as

possible.

5. **SETUP.EXE** also installs a **RESULT96.ZDB** database directory if one does not already exist. We've included sample results from a few machines in our research center in this database.
6. You can now use the following command line options to disable WinBench 96's automatic detection of some disclosure fields.
  - The **NOCPUCHECK** option prevents WinBench 96 from detecting the CPU type and speed and the FPU type.
  - The **NOVIDCHECK** option prevents WinBench 96 from detecting the display refresh rate and display adapter types.
  - The **NOREGCHECK** option prevents WinBench 96 from gathering information from the Windows 95 or Windows NT registry.
  - The **NOSYSCHECK** option disables nearly all detection.

You should use these options if WinBench 96 fails with a General Protection Fault (GPF) during initialization. Use the **NOVIDCHECK** option if the display on the PC appears corrupted once WinBench 96 initializes.

7. WinBench 96 remembers any changes you make to the Disclosure Questionnaire and displays those changes in **bold** type. You can remove any changes you've made to the questionnaire using the Automatic Detection button in the Disclosure Questionnaire. Choosing this button replaces all fields in the questionnaire with the values WinBench 96 determined at initialization.

## **KNOWN PROBLEMS IN WINBENCH 96 VERSION 1.0**

The following is a list of known problems in WinBench 96 Version 1.0:

1. WinBench 96 incorrectly reports that COMPAQ® DESKPRO® 66M systems with 24MB of RAM only contain 16MB. This problem isn't unique to WinBench 96; other programs also report only 16MB in COMPAQ DESKPRO 66M systems.
2. If you run the WinBench 96 disk tests repeatedly on a PC that uses Norton Desktop for Windows 2.2 as a shell, the **NWIN2.DLL** library appears to slowly consume more and more memory. Eventually, this causes WinBench 96 to fail, usually with an allocation or creation error. You can avoid this problem by changing the Int21hHook setting in the [NHookSettings] section of **NDW.INI** from 1 to 0. For example:

```
[NHookSettings]
Int21hHook=0
```

The file **NDW.INI** is in the **\WINDOWS** directory.

3. When you're running in demo mode, WinBench 96 doesn't trap key strokes when it displays the Chart of Results or the Table of Results. This means that, if you want to halt demo mode, you should wait until a demo mode test is running. Otherwise, if you press Esc to stop demo mode, WinBench 96 won't display the query "Do you want to

terminate the running tests" even though it will let you halt demo mode at that point by clicking a mouse button. However, when a demo mode test is running, WinBench 96 will let you interrupt demo mode using either keystrokes or mouse clicks.

4. The Shift-F1 help feature does not work correctly when a common dialog box is active (for example, when you use a dialog box to specify a file name).
5. WinBench 96 will identify Windows for Workgroups 3.10 as Windows 3.10 if you haven't enabled the network software in Windows for Workgroups 3.10. You can use the Questionnaire to correct the Windows System field in the Disclosure.
6. Reinstalling WinBench 96 without first deleting the WinBench 96 icons in the Ziff-Davis Benchmarks group will result in two Uninstall icons. Run uninstall, then delete both icons before reinstalling WinBench 96.
7. WinBench doesn't always restore correctly the thick border around a button that indicates it's the default button for a dialog box. This problem occurs when WinBench returns to the dialog box from a spawned modal dialog (for example, the Edit button in the Disclosure window). (A modal dialog box is one where you must supply an answer, such as click on OK, before it does something.)
8. The Video for Windows task **MMTASK** may GPF if you run many of WinBench 96's video tests without restarting Windows. We are investigating the problem.
9. WinBench 96 will sometimes fail during its graphics tests. A majority of these failures are the result of problems in graphics adapter drivers. The most common problems are GPFs in the graphics driver and drawing outside of the test screen that corrupt the title, menu, or status bars.
10. If you're testing WinBench 96 on notebook or green computers, you should disable any power-saving features for best results.
11. WinBench 96 incorrectly reports that file sharing is enabled in the *SHARE Information* disclosure field even when **SHARE.EXE** and **VSHARE.386** are not loaded.

## **ON-LINE DOCUMENTATION**

WinBench 96 Version 1.0 comes with the following on-line documentation.

### **README.WRI**

This is the Windows Write file you're reading right now. In this file, you'll find the WinBench 96 license agreement and any late-breaking information that didn't make it into the WinBench 96 manuals or on-line help. You should read this information before you install or run WinBench 96. You'll find this file in the **\ZDBENCH\WB96** directory on the CD-ROM and in the root directory on DISK 1.

### ***WinBench® 96 Version 1.0 Tester's Handbook***

The tester's handbook contains the minimum information you need to install WinBench 96, run the main tests, and analyze the results. (You can view much of the same manual on-line from the WinBench 96 Help facility.) Space permitting, the CD-ROM includes this handbook in Word for Windows (**.DOC**) format, Rich Text Format (**.RTF**) format, and ASCII text (**.TXT**) format. You'll find

these files in the \ZDBENCH\DOCS\WB96\HANDBOOK directory.

You can download a Microsoft Word 6.0c for Windows copy of the tester's handbook from the Ziff-Davis Benchmark Operation forum on ZD Net™/CompuServe® Edition (GO ZDBENCH). Just download the self-extracting file **WBD0C.EXE**. Then execute **WBD0C.EXE** to get the **WB96HBK.DOC** file. (**WBD0C.EXE** also contains the WinBench 96 reference manual.)

### ***Understanding and Using WinBench® 96 Version 1.0***

The reference manual explains in detail the ins and outs of the benchmark program, including information on how we developed the benchmark tests. Space permitting, the CD-ROM includes this manual in Word for Windows (.DOC) format, Rich Text Format (.RTF) format, and ASCII text (.TXT) format. You'll find these files in the \ZDBENCH\DOCS\WB96\REF directory.

You can download a Microsoft Word 6.0c for Windows copy of the reference manual from the Ziff-Davis Benchmark Operation forum on ZD Net/CompuServe Edition (GO ZDBENCH). Just download the self-extracting file **WBD0C.EXE**. Then execute **WBD0C.EXE** to get the **WB96REF.DOC** file. (**WBD0C.EXE** also contains the WinBench 96 tester's handbook.)

### **WinBench 96 on-line help**

You can access on-line Help from the main window once you start WinBench 96 and from many of the WinBench 96 screens and windows as you use the software. The on-line help contains most of the tester's handbook.

## **CONTACTING ZDBOP**

If you have problems installing or running WinBench 96, please contact the Ziff-Davis Benchmark Operation (ZDBOp). You'll find a Problem Report form at the back of each WinBench 96 manual and in the on-line help file. You can use this form for reporting your problem.

To submit a report, you can:

- Post a message about the problem on the ZD Benchmark forum on ZD Net/CompuServe Edition (GO ZDBENCH). Access to CompuServe is available for a fee.
- Fax the form directly to WinBench 96 Technical Support (919-380-2879).
- Mail the form to us at the following address:

Ziff-Davis Benchmark Operation  
1001 Aviation Parkway, Suite 400  
Morrisville, North Carolina 27560

Attn.: WinBench 96 Technical Support

If you want a quicker response, please include your Internet e-mail address or fax number.

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