

# Turbo95

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ver. 1.3

1. INTRODUCTION
  2. WHAT'S NEW
  3. REQUIREMENTS
  4. DESCRIPTION
  5. INTERFACE
  6. NOTE
  7. LEGALESE
  8. SHAREWARE
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## 1. INTRODUCTION

This is a benchmark for your new computer.

It's the result of hard work with Microsoft Visual C++ 4.0, and a lot of test work with our computers.

This software is shareware. Please excuse our very bad english, but think how much harder it would be to read this doc in Italian. Now in this new version Candi Brooks give me a lot of help with this doc.

This software is designed exclusively for Windows95, but we think that it will work with Windows NT.

## 2. WHAT'S NEW

- 1.3 Corrected memory leak bugs.  
Converted multi to single-threaded application.  
Added a modeless status dialog box.  
Changed message chain.  
Changed timer to 10 seconds.  
Better optimized FPU test.  
Results are now not comparable with older version.

- 1.21 Corrected docs

- 1.2 First Initial Public Release

## 1.0 Internal Release

### 3. REQUIREMENTS

Intel Pentium Processor or superior (Recommended), a Graphics Card capable of a minimum 16-bit color mode, a Hard Disk, a cached motherboard.

### 4. DESCRIPTION

CPU Test is based on an algorithm taken from Digital Signal Processing. It's based on bit inversion and covers a lot of instruction. It's main feature is solely to show the performance of the CPU. It doesn't use external cache. This test is expressed in P-Rating, that is a comparison with Intel Pentium Processor performance. P100 means that current computer performs like an Intel Pentium 100MHz.

Cache Test is based on a non-sequential read of a cache line. It's the only part that is written in ASSEMBLER. Tests only Cache on Level 2 (L2 Cache). This test is extremely variable with the conditions of running. This test is expressed in MB/s transferred from L2 cache to CPU.

FPU is based on fractals and all calculations are made in double format (64-bit). It's expressed in MegaFlops, that are Million Floating Point Operations for Seconds.

Disk is a test that executes a low-level read from your hard-disk. It's expressed in MB/s. It can test also Floppy Disk but not CD-ROM.

Svga is a test of your Graphics Card. It shows two pics in rapid flashes. It doesn't test high-level function of your SVGA. It produce a pic and use your blitter to put it to the screen. It's not a simple BitBlit transfer, because the pic is not in the SVGA memory, but is on RAM. This test is projected only to test SVGA bus-memory access time. It is a measure of how a games can run smootly with your card. A test for high-level function is highly influenced by your software drivers. Turbo95 tests only Hardware performance. It's measured in FPS also known as Frame Per Second. NOTE that it is influenced by the number of colors AND REFRESH RATES. I think that it is best that tests are made in 16-bit colors (65535). I have tested SVGA with 1024x768 16-bit 60Hz.

Direct3D is not supported, yet.

### 5. INTERFACE

It is recommended that you not use other programs when you start our test.

It is optimized for Intel Pentium Processor. But should run fine with Cyrix 6x86 processor. If you have one please send us your .T95 file!

You can put a mark on test that you want to execute and press Run Radio Button. Now you have started all tests that you have selected. Now you can wait few seconds and results are shown.

If you leave Run Button Pressed after shown results, all tests are restarted after a 10 seconds delay.

Press Stop when you have a stable result. Now you can save your result to compare with other computers.

Red Bar is the current result. Black Bar is the result loaded from file (.T95) or my computer results.

My Computer is a Pentium 133Mhz, ATI MACH64 264-CT, Motherboard with 256K burst pipeline, Hard Disk Conner 850MB, 32 MB ram. Other computers results are included in this package. If you have a good computer result please send US!

## 6. NOTE

Don't run any other programs when you run this benchmark. Don't move mouse if possibly, wait 2-3 cycles of tests before saving. You can now use the option "open with" from the Windows95 system menu to open a T95 file. You can specify on the command line a file to load on startup of the program.

You can find Turbo95 via <ftp://ftp.aerre.it/pub/utility/turbo95.zip>.

## 7. LEGALESE

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## 8. SHAREWARE

This software is shareware. It's used by some OEM to test configuration. I think that this will work well to help you know if you have purchased a good computer and a balanced system. It's main job is to classify your computer performance.

If you like this software you can send us US \$10 (Cash or world money order) to register your version, you will receive source code of the program, all of the future

versions, and your computer result (.T95) file will become part of all new versions of this package.

Send suggestions, bugs or comments via E-Mail.

Thanks to Candi Brooks for Corrections.

FERRARA FRANCESCO

Via Valenza 49/1

10127 Torino

Italy

E-Mail: [frank@aerre.it](mailto:frank@aerre.it)