

Computer speed check

There are several computer speed check downloads available on the Internet. These tools are used for checking the speed of the CPU in your PC. You can either choose to download a freeware or shareware version of the tool to check the speed parameters governing the overall performance of your PC. You may also choose the web-based tools which you do not need to install in your computer. There are two types of speed checks that are generally done on PC's, one which checks the speed of the different components in your PC, such as, the CPU clock speed, the data transfer speed, etc. and the other where the bandwidth speed of your Internet is checked vis-a-vis the speed of your PC.

Computer speed check tools measure the actual performance speed of the CPU in your computer. Typical computer speed check software would indicate various aspects of your CPU speed parameters, such as, whether the CPU in your PC is over-clocked with your CPU clock speed running at a higher rate than specified. It would also indicate if the CPU is running faster than what it is rated, and whether the CPU is operating in its usual normal range.

Generally, the speed at which your CPU runs is available in your computer, especially that of Pentium 4 or later versions. Your computer should be performing at this speed or below the speed as specified by the manufacturer. A detailed description of the three levels of caches, as supported by the CPU in your PC, is also made available by the computer speed check tool. The larger the cache size, the computer becomes that much faster. Some of the speed check tools feature memory speed checks which provide information about the speed at which your data transfers take place between the CPU and the memory. This information is usually given in megabytes per second. The speed of data transfer is measured by execution of large memory to memory transfer. The transfer rate determines how fast your computer is.

Computer speed check utilities do more than just check the speed of your PC. They have the feature to check your entire computer system, including network speed and your Internet access speed. Sophisticated computer speed check software provides you with a main control panel. There could be a separate window with graphical display showing your CPU speed and other parameters. The control panel is typically used to vary the testing parameters, the results of which are reflected on the graph.

CPU and memory timings depend on the BIOS setting of your computer. There could be several reasons why you notice your PC getting slow; your CPU speed has somehow become low or there is something wrong with your memory timings. Computer speed check software measures the actual speed of your computer and provides you with other functioning details of your PC which are related to your computer speed. The report generated by the software could be utilized to find out if your CPU is running slow.

The type of CPU in your computer is automatically detected by the BIOS in your system. The BIOS also sets the clock speed of the CPU which can be adjusted by setting the multiplier factor in the BIOS. The overall functioning of your computer depends on the CPU clock speed, the multiplier factor, and the bus speed of your PC. The bus timings in your PC determine the speed at which data is transferred. If the rate at which the data is transported gets to be low, the performance of your computer degrades accordingly. Computer speed check utilities offer several features, and you can choose the one which is right for you. There are basic tools which just check the CPU speed, others provide detailed analysis of the speed related components in your PC.

The clock speed of your CPU could be set from your BIOS. This is done basically by setting the multiplier, which determines the overall CPU clock speed. Take the example of a processor having a speed of 550 MHz with a front side bus speed of 100 MHz. This would mean that the multiplier has been set to 5.5 times the speed of the front side bus, which in effect makes the processor work at 550 MHz. Before you set the CPU speed through your BIOS, you need to find out the various parameter values that are governing the speed factor in your PC. Computer speed check software provides you with all the information that you require for setting the CPU speed correctly in your PC.

About the Author

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