

8 stress test tools useful for CPU

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When performing stress test CPU, it means that you are checking the stability and reliability of the hardware to be able to overclock the CPU for example. Computer performance depends on the speed of the processor that can easily perform difficult tasks.

The tools in this article are very useful in stress testing CPU tests. Before doing so, you need to know that these tests are at the highest load that can cause the machine to heat up.

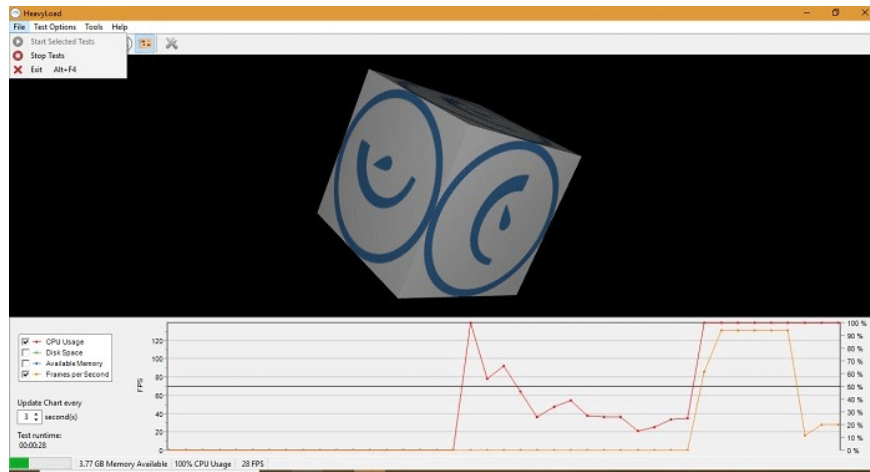
Tool to test stress test CPU

1. HeavyLoad
2. AIDA64 Extreme
3. Stress-Ng
4. Geekbench 4 (Mac)
5. CPUX
6. Overclock Checking Tool
7. Prime95
8. Novabench

1. HeavyLoad

1. Download HeavyLoad for Windows

HeavyLoad from Jam Software developer can make the computer work at full capacity so you can evaluate the computer components better.

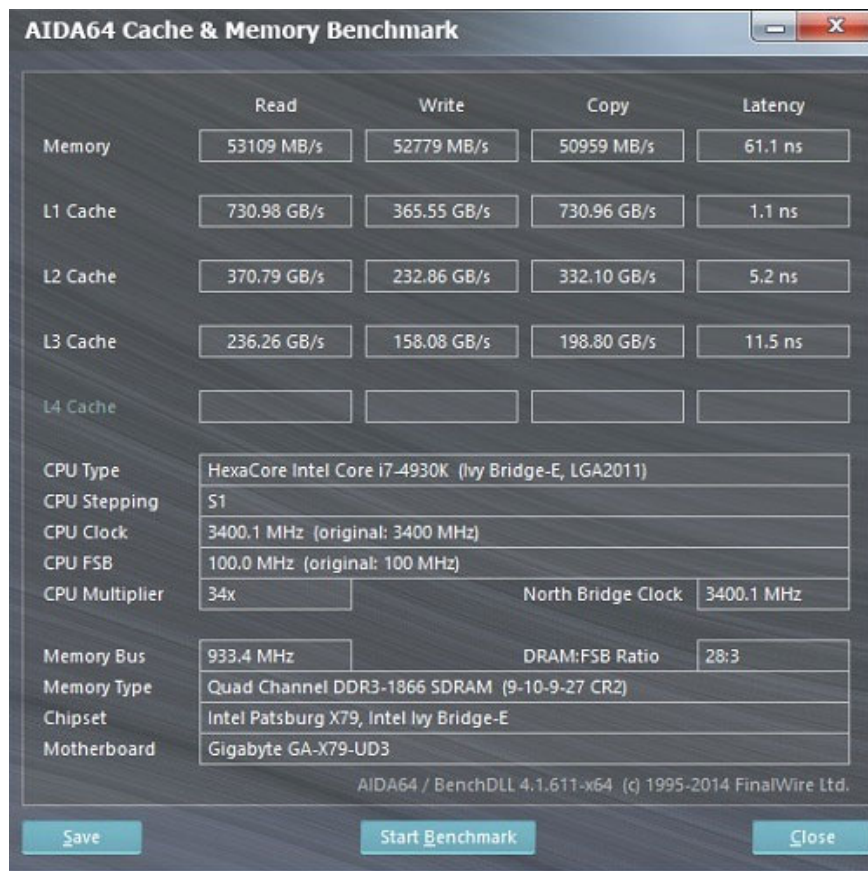


You should try different applications, programs, and browsers at the same time. You will quickly know which components should not be used when opening too many windows.

2. AIDA64 Extreme

1. Download AIDA64 Extreme for Windows

AIDA64 is a very powerful tool, compatible with all Microsoft systems from 95/98 to Windows Server 2016. It can perform multi-threaded memory analysis and cache performance testing.



The software has additional tests on voltage, fan speed, temperature and more. This is a complete diagnostic tool.

3. Stress-Ng

Linux users can depend on this reliable tool to perform load test tests on Linux distributions. Specific CPU test stress tests include testing the ability to handle (floating point), integer, bit manipulation and control flow.

For Debian, you can install Stress with the following command:

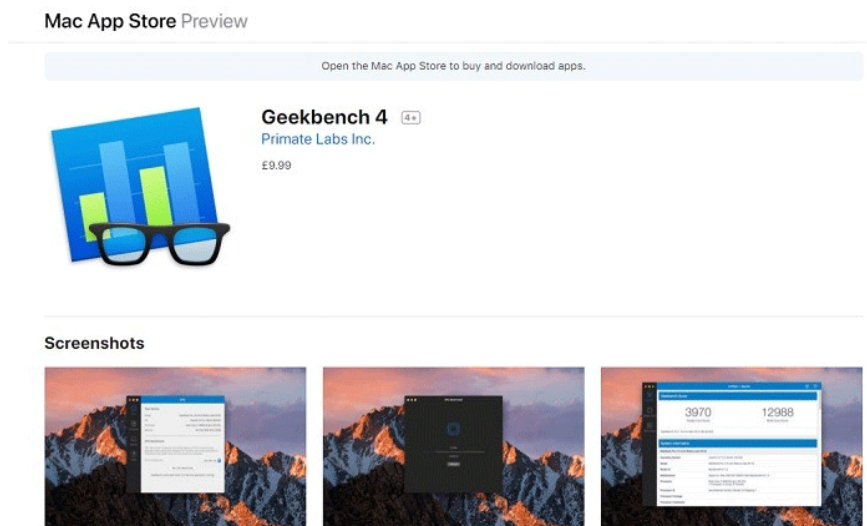
```
sudo apt-get install stress-ng
```

With Stress-ng, you can specify specific CPU mode, timeout, number of supported operations.

```
stress-ng --cpu 8 - io 2 --timeout 30s --metrics.
```

4. Geekbench 4 (Mac)

1. Download Geekbench 4 for Mac

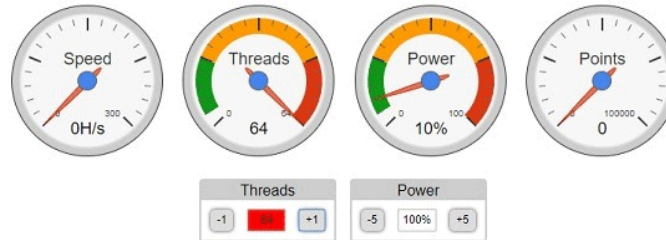


Like the Windows Taskbar, the Mac's Activity Monitor provides a complete table of all existing CPU processes. But to carry out the stress test, you need to download an application called Geekbench 4. It performs a series of load test tests for you.

5. CPUX

<https://cpux.net/cpu-stress-test-online>

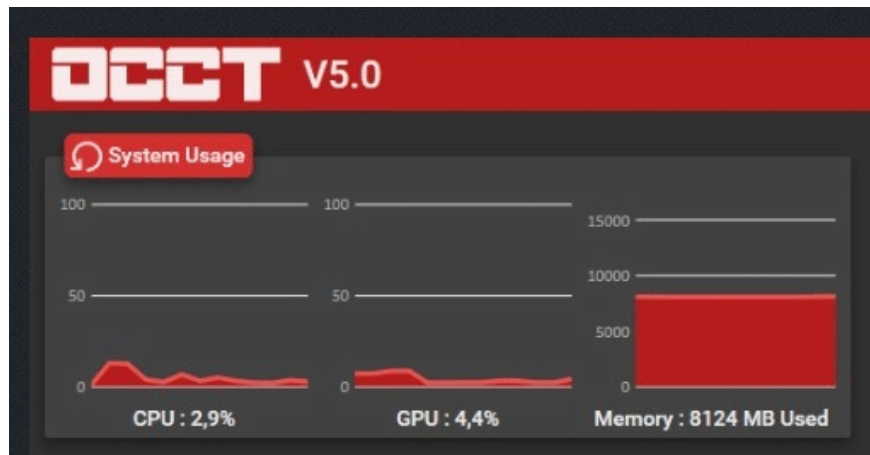
"CPU Stress Test Online" or simply "CPU Load Test" is a processor performance test allowing you to check online your processor at heavy load. Unlike the "CPU Benchmark Online", here you can manually set the required load, as well as stop or resume testing at any time. However, your results will not be stored in the "CPUs Rank", and you will not be able to compare your processor to the other ones. On the other hand, here you can find out the limits of your processor's performance.



Don't like downloading any software to your computer? CPUX will provide you with a powerful stress test and evaluation and rating of your system. If you enter a good number of threads (64) and with the highest capacity (100%), your computer may face a few problems and take a long time to fix it. Therefore, you should not stress test with this parameter.

6. Overclock Checking Tool

<https://www.ocbase.com/>



This Windows software is very popular for CPUs and a series of tests since 2003. As its name suggests, this tool tests overclocking among other tests. Instead of combining all the results into one, each test is done separately.

7. Prime95

<https://www.mersenne.org/download/#stresstest>

```
Prime95
Test 648 Advanced Options Window Help

Main Thread
[Main thread Mar 13 11:20] Mersenne number primality test program version 28.10
[Main thread Mar 13 11:20] Optimizing for CPU architecture: Core i3/i5/i7, L2 cache size: 256 KB, L3 cache size: 6 MB
[Main thread Mar 13 11:20] Starting workers.

Worker #1 - Self-Test
[Mar 13 11:20] Worker starting
[Mar 13 11:20] Setting affinity to run worker on logical CPU #1
[Mar 13 11:20] Beginning a continuous self-test on your computer.
[Mar 13 11:20] Please read stress.txt. Choose TestStop to end this test.
[Mar 13 11:20] Test 1, 44000 Lucas-Lehmer iterations of M7471105 using AOC FFT length 384K, Pass1=384, Pass2=1K.

Worker #2 - Self-Test
[Mar 13 11:20] Worker starting
[Mar 13 11:20] Setting affinity to run worker on logical CPU #2
[Mar 13 11:20] Beginning a continuous self-test on your computer.
[Mar 13 11:20] Please read stress.txt. Choose TestStop to end this test.
[Mar 13 11:20] Test 1, 44000 Lucas-Lehmer iterations of M7471105 using AOC FFT length 384K, Pass1=384, Pass2=1K.

Worker #3 - Self-Test
[Mar 13 11:20] Worker starting
[Mar 13 11:20] Setting affinity to run worker on logical CPU #3
[Mar 13 11:20] Beginning a continuous self-test on your computer.
[Mar 13 11:20] Please read stress.txt. Choose TestStop to end this test.
[Mar 13 11:20] Test 1, 44000 Lucas-Lehmer iterations of M7471105 using AOC FFT length 384K, Pass1=384, Pass2=1K.

Worker #4 - Self-Test
[Mar 13 11:20] Worker starting
[Mar 13 11:20] Setting affinity to run worker on logical CPU #4
[Mar 13 11:20] Beginning a continuous self-test on your computer.
[Mar 13 11:20] Please read stress.txt. Choose TestStop to end this test.
[Mar 13 11:20] Test 1, 44000 Lucas-Lehmer iterations of M7471105 using AOC FFT length 384K, Pass1=384, Pass2=1K.

For Help, press F1
```

This stress test software has been around since 1995. Prime95 supports a variety of operating systems such as Windows, Linux, Mac and FreeBSD. It can do a lot of work and give great results.

8. Novabench

1. Download Novabench for Windows

Novabench is a tool commonly used by large IT groups to implement heavy load CPU tests. It gives quick results in just minutes.

Many online diagnostic tools perform stress tests that test not only CPU but also RAM, graphics card and GPU. Such combined results cannot provide accurate information. The only question you need to answer is your computer's download level without causing overheating.

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