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Cpu performance test linux

Environment	UnixBench 5.1.3 (Mulit)	Dhrystone 2 using register variables (lps)	Double-Precision Whetstone (MWIPS)	Execl Throughput (lps)	Pipe Throughput (lps)	Pipe-based Context Switching (lps)	Process Creation (lps)	Shell Scripts (1 concurrent) (lpm)	Shell Scripts (16 concurrent) (lpm)	Shell Scripts (8 concurrent) (lpm)	System Call Overhead (lps)
Dual Intel Xeon E5-2690	17,542.4	632,526,383	116,011	26,782	44,630,092	6,995,952	94,115	151,942	11,612	29,526	5,075,672
Intel Xeon E3-1270 V3	9,229.1	189,420,444	32,251	20,748	12,273,514	2,274,211	107,872	62,784	4,242	8,496	9,231,221
Intel Xeon E3-1240 V3	8,757.2	179,121,990	30,595	20,979	12,557,107	2,149,462	102,101	59,709	4,039	8,061	8,881,501
Intel Xeon E3-1230 V3	8,498.1	174,291,198	29,475	20,184	12,167,588	2,089,038	98,418	57,990	3,922	7,835	8,641,106
Intel Xeon E3-1220 V3	6,824.2	158,907,562	17,147	16,969	9,947,506	1,685,655	78,880	40,010	2,850	5,697	12,304,807
Intel Xeon E3-1230	7,902.4	158,965,041	29,294	20,310	11,060,315	1,882,923	84,628	51,548	3,399	6,788	9,500,347
AWS m3.xlarge	1,276.7	72,387,447	13,169	3,325	1,146,302	187,749	6,805	8,506	576	1,151	1,309,664
AWS m3.2xlarge	2,370.0	139,760,264	25,432	5,931	2,250,117	358,725	11,717	14,957	997	1,998	2,613,493
Dual Intel Xeon L5530	3,710.9	234,020,820	45,234	34,324	15,872,633	2,545,289	86,849	69,590	4,678	9,342	6,690,664
AMD Opteron 3380	1,884.0	119,721,053	22,162	16,950	5,585,877	918,333	44,191	33,385	2,255	4,503	866,640
Intel Xeon L5630	2,566.4	184,090,986	39,760	28,464	11,429,124	2,168,196	72,543	60,932	4,150	8,521	7,350,952
Dual Intel Xeon E5-2430L	10,661.3	802,561,109	55,532	29,033	21,074,876	3,402,126	86,478	88,712	5,859	11,717	3,760,338
AWS m1.xlarge	1,285.7	80,470,522	9,955	3,932	1,383,502	212,221	6,657	8,175	554	1,105	1,345,757
AWS m1.medium											
AWS m1.large	609.1	40,994,533	4,513	1,640	597,239	95,523	3,413	3,998	269	538	599,655
Rackspace 15GB Dallas	1,503.1	111,558,164	14,907	3,653	1,540,296	249,277	7,224	8,984	604	1,207	1,415,867
Rackspace 30GB Dallas	1,994.1	149,252,994	19,768	4,554	2,028,332	331,246	8,853	11,305	762	1,522	1,819,157
Rackspace 512MB Dallas											
Rackspace 1GB Dallas											
Rackspace 2GB Dallas	548.9	57,137,208	4,976	1,453	510,802	84,424	3,090	5,552	239	477	492,924
Rackspace 8GB Dallas	1,052.5	74,388,423	9,930	2,651	1,095,207	169,211	5,474	6,453	436	871	992,595
Rackspace 4GB Dallas	548.0	37,280,793	4,983	1,469	511,054	84,611	3,024	3,534	238	475	491,446
Intel Xeon L5520	3,928.9	67,751,142	13,706	11,759	5,535,921	873,677	40,986	24,651	1,630	3,258	7,241,884
Dual Intel Xeon L5520	8,579.4	136,014,111	27,398	21,760	10,424,731	1,563,575	64,845	46,798	3,124	6,244	5,579,300
AWS m1.small											
AWS t1.micro											
Intel Atom S1260	216.1	5,828,059	1,286	640	254,430	40,083	1,579	1,325	84	171	388,333
Raspberry Pi											

Linux cpu performance test command line.

We hope you found this read useful and that it helped you in evaluating the performance of the Linux PC. During a stress test, the app will also check whether the system can safely recover from the heavy load and return to its normal stage. Disclaimer: Stress-ng is not a benchmarking app but a stress testing tool. All you have to do is enter the following command: $ sudo apt install sysbench Once the tool is downloaded, you can start benchmarking the CPU performance by entering this command: $ sysbench cpu --threads=2 run Running Sysbench Benchmark In the above command, 'CPU' states the test type, and 'threads' specifies the number of threads that will be created by Sysbench to run the multi-threaded benchmark. How to install and Use GTKStressTesting: GST is available in the Flatpak repository. Some of the tools are specifically designed for stress testing, whereas others are mainly intended for benchmarking performance. September 28, 2021 by Hayden James, in Blog Linux This list of Linux benchmark scripts and tools should prove helpful for quick performance checks of CPU, storage, memory, and network on Linux servers and VPS. Memory totals will be shown (see the other more extensive tools below for memory-specific benchmarks). How to Install and Use Sysbench: If you are running Ubuntu, you can easily install Sysbench from the apt repository. unixbench.sh – Auto install unixbench and test script. However, unlike Stress-ng, GST comes with a GUI to let you control the app and its different features. 7-Zip And for the final entry in our list, we have 7-zip. There are many more commands to help you run different tests on different parts of your system. Check each script before running from the command line. $ stress-ng --cpu 2 Stress-ng CPU Test The above command tells the Stress-ng to stress test the CPU where "2" refers to the number of workers spinning on sqrt(rand()). Once it has finished installing, you can run the tool by entering the following command: $ phoronix-test-suite Setting up the Phoronix Test Suite As you can see, it will first show you all the terms and conditions and ask you whether you agree with them or not. vdbench – generate disk I/O workloads to be used for validating storage performance and storage data integrity. Other Linux Benchmark Tools byte-unixbench – UnixBench is the original BYTE UNIX benchmark suite, updated and revised by many people over the years. Nench – A script loosely based on the established freevps.us/bench.sh. Always verify before running. Benchmarking vs. As such, you get access to all the stress testing features of the CLI tool. All the tests are carried out in a fully automatic manner, starting from execution to reporting. Use this first to install Flatpak on your Linux distro. You can visit this link to see the results. Here is a more detailed look at all the other types of tests and options available under Sysbench. Once the test is complete, Sysbench will show you the results directly in the terminal. Most of these scripts will benchmark the CPU, memory, storage, and network. Bench-sh-2 – System Info + Speedtest IPv4 + Drive Speed. However, for this demonstration, let's look at how you can use the tool to stress your CPU. When using the tool, you should kill all other running apps to ensure there are no anomalies in the stress test. Also, it is not recommended to stress your system for too long as that might lead to a system crash. There is an option to choose the stress test type along with the time duration and a predefined number of workers. In most cases, the CPU Model, frequency, number of cores will be displayed along with a basic CPU performance bench. If you are on any other distro that's not based on Debian, you can visit their official website to download the universal Linux tar file. Best Linux Apps to Benchmark and CPU Stress Test Now that you have a basic understanding of what benchmark and stress test tools do for you let's quickly dive into our list of the best Linux apps for benchmarking and stress testing. Do note that not all the tools mentioned here can be used for both benchmarking and stress testing. Also, GST includes a small benchmark feature, something that is absent in Stress-ng. Other than this, GST can also fetch necessary information about your CPU, RAM, and motherboard, and display the usage metrics on a clean GUI, similar to CPU-Z. Iometer – Iometer is an I/O subsystem measurement and characterization tool for single and clustered systems. As such, if you have missed out on your favorite tool for measuring the performance of your Linux system, then do let us know in the comments. We would love to know which tools and apps you use on your Linux PC. Originally published: December 6, 2017 | Last updated: September 27, 2021 Do you want to push your Linux system to its maximum limits? If this happens, you will need to do a hard reboot to recover your PC. Phoronix Test Suite – The Phoronix Test Suite open-source, cross-platform automated testing/benchmarking software. You can also use Geekbench to stress test your system by simulating real-world scenarios to check how the system stacks up. When you are reading this, if a newer version is available, you can download it by just changing 9.8.0 in the above command to the latest version. VPSbench – A script to run simple and comprehensive benchmarks on CPU and IO performance. How to Install and Use 7-ZIP to Benchmark Performance: Ubuntu users can easily install 7-zip using the apt-get command like this: $ sudo apt-get install p7zip-full Once installed, you can use the following command to run a single-threaded benchmark: Single-Threaded benchmark with 7zip You can also do a multi-threaded benchmark using this command: $ 7z b Multi-Threaded benchmark with 7zip As you can see, all the results are recorded in 'million instructions per second' or MIPS. System storage (SSD, NVMe, etc.) input/output speeds will be tested, and finally, the server's internet connection will be tested by downloading files from common test locations around the world. However, the same steps should apply to any other Linux distros. Geekbench – This tool allows you to use Geekbench 4 from a command prompt and automate it with shell scripts or batch files. Stress-ng builds on top of its predecessor by adding hundreds of advanced tests to put extra load and stress out your system. S – Small collection of programs to measure storage I/O performance. Furthermore, each of the dependencies is very large, some of which can be over 1 GB. List of Phoronix Test Every Phoronix test comes with its own set of dependencies. This is because there are very few apps that can perform both functionalities at a good enough level. But that being said, we have included a couple of apps that comes with decent tools for basic stress testing and benchmarking, if that's all you need. We will use a Ubuntu system to show you the setup process. Stress-ng CLI Tool Stress-ng is an updated implementation of Stress – which itself is a simple command-line utility that can be used to stress test CPU, memory, and even disk input and output speeds. With that being said, there are plenty of other stress testing and benchmarking apps available in the market. Also, if you are interested in keeping an eye on resource consumption and system usage statistics, then we recommend you see our list of the best Linux performance monitoring tools. Once activated, it will start hammering down your CPU so that it continually runs at 100% usage. However, it does come with features that allow you to test and benchmark different parts of your system, including the CPU, memory, and file throughput. A higher Geekbench score means better performance. GTKStressTesting (GST) GST, short for GTKStressTesting, is a feature-rich performance monitoring and stress test tool for Linux PCs. The app is built on top of Stress-ng. Fio – Flexible I/O Tester. With this in mind, we have a list covering some of the best Linux apps to benchmark performance and stress tests. Interbench – Linux Interactivity Benchmark HDparm – get/set ATA/SATA drive parameters under Linux dd – Benchmark Your VPS with dd, how-to guide. Geekbench Windows users might be familiar with Geekbench. $ sudo wget $ sudo tar xf Geekbench-5.2.3-Linux.tar.gz Installing Geekbench Once you have extracted the file, run the following command to launch Geekbench. Check their official download page to see if any newer version is available. It is fully open-source and gives you access to over 100 tests that you can run to get a quantitative as well as a qualitative idea of your system's performance. If you might already know and use this application as a file compression tool – which is its intended use. Also, when the tests are completed, you will get a URL link. You can now compare these results with other CPUs to see where your system ranks. You need to install them on your system before you can run any of the tests. Also, if a new version like Geekbench 6 or 7 comes out, then you will need to replace the last command with "./geekbench5" to "./geekbenchx" where 'x' is the new version number. So if the flavor of Linux you are running supports Flatpak, then you can install GST on your system. Here is the official set up guide for Flatpak. We will also show you how to install and use these tools on your Linux system. Stress Testing: What's the Difference? Next, install the gdebi, which is useful for installing external *.deb packages. If yes, then all you need to do is replace all the above commands having 5.2.3 with the newer version. Also, if you are using it on Ubuntu, you will need to modify the install-ubuntu-packages.sh script to allow Phoronix to download the necessary dependencies. If you wish to use this stress test tool, here is a detailed installation and set-up guide for Phoronix to help you out. Use at your own risk. A Benchmark Tool is used to measure the maximum performance possible by the PC when handling a specific task or function. It is most useful when trying to compare two similar products. But first, let's get a clear understanding of benchmarking and stress testing and the differences between the two. The best part is that each of these tests can be easily reproduced, allowing you to make tweaks, and retest your system to see how that changes the performance. Linux Benchmark Scripts Bench.sh – view system information and test the network, disk of your Linux server. Wrapping Up So these were our picks for the best Linux apps for benchmark and stress test. It will not give you any benchmark score. Enter 'y' for yes, to accept. The tool will then load up all the available tests for you to run on your system. VPS Benchmark – Benchmark disk, CPU, and network. Once you run the command, the tool will begin to sequentially run 70 CPU tests one after the other to stress out the CPU. How to Install and Use Stress-ng: On Ubuntu, you can install Stress-ng straight from the apt repository. Here is our result: Geekbench test results Note: When you are reading this article in the future, a newer version of Geekbench might come out. Bonnie – get/set ATA/SATA drive parameters under Linux. Sysbench – Scriptable database and system performance benchmark. Or are you interested in evaluating your Linux PC in terms of performance? However, the cool thing about 7-zip is that it can perform extreme levels of compression on your files to significantly reduce their size and store them in the 7z archive format. You can use this extreme compression algorithm to measure the CPU performance of your system. IOzone – a filesystem benchmark tool. $ cd Geekbench-5.2.3-Linux && ./geekbench5 Geekbench running tests As you can see, unlike the Windows version, on Linux, Geekbench will automatically start a series of tests that you see from the command-line. You can compare the benchmark scores between the products to see which one offers better performance. If your web host points to the cause of poor application performance as being solely related to WebDev, use these command-line scripts to help verify if hardware (example: disk/storage bottleneck) or network may also be to blame. How to Install and Use Geekbench: For this quick tutorial, we will be installing Geekbench 5.2.3, since it is the latest version. To do this, open the terminal and enter the following command to download and extract the Geekbench 5.2.3 archive file. And it will also give your fellow readers more options to choose from. To do this, enter the following command in the terminal: $ sudo apt install stress-ng Once installed, you can start using the tool to stress-test different parts of your system like CPU, memory, and disk I/O speeds. Either way, benchmark apps and stress tools can give you a quantitative understanding of the performance of your Linux PC. A Stress Test Tool is designed to implement heavy load on the system to see if it fails. You can perform a stress test on different parts of the system, including the processor, memory, network, etc. This type of tool can help you test the stability of the system. Sysbench Sysbench is a free and open-source benchmarking tool based on LuaJIT. It is a scriptable multi-threaded benchmark tool that is most commonly used for database benchmarking. 7-zip comes with a dedicated feature called the LZMA compression benchmark that lets you do just that. Phoronix Test Suite Phoronix Test Suite is one of the most comprehensive performance testing and benchmarking tools for Linux. If you find any broken scripts or issues, please notify me. The benchmark generates and measures a variety of file operations. It is a popular cross-platform benchmark tool with a simple scoring system that shows the results of both single-core and multi-core performance of the system. To evaluate the CPU performance, you can measure and compare the "Events Per Seconds" variable with other systems. How to Install and Use The Phoronix Test Suite: For Ubuntu and Debian users, the Phoronix Test Suite can be easily installed following a few basic steps. First, use the wget command to download the latest version of Phoronix Test Suite like this: $ sudo wget Note: At the time of writing, Phoronix 9.8.0 is the latest version, so we are downloading it. If you want to know more, you can see all the various Stress-ng commands right here. Once done, run this command to install GST: $ sudo flatpak install flathub com.leinardi.gst Installing GTKStressTesting After the installation is complete, run GST by entering this command: $ flatpak run com.leinardi.gst GTKStressTesting App As you can see, the tool presents to you tons of information regarding your system. Looking at the top, you have the stress test settings. To do this, enter the following command: $ sudo apt install gdebi-core Finally, to install the Phoronix Test Suite, enter this command: $ sudo gdebi phoronix-test-suite_9.8.0_all.deb Note: Change 9.8.0 to the newer version of Phoronix if you have downloaded that instead. Linux Bench – STH Linux benchmarking script.

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