Phoronix Test Suite

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What is the Phoronix Test Suite?

The Phoronix Test Suite (PTS) is a free and open-source application for testing and benchmarking computers. There are packages for Linux, Mac OS X, FreeBSD, and OpenSolaris. The current version is 1.6.

http://www.phoronix-test-suite.com/

Installation

1. Download the software from:

http://www.phoronix-test-suite.com/?k=downloads

or from the command line:

```
wget http://www.phoronix-test-suite.com/download.php?file=phoronix-test-suite-1.6.0
```

2. Extract the downloaded source file using either a GUI application or from the command line:

```
tar -xzvf phoronix-test-suite-1.6.0.tar.gz
```

3. From a terminal session, navigate to the extracted source folder

4. As root, run

./install.sh

The installation is very quick. It will be installed to /usr/bin/.

5. Install PHP5 since the CLI components are needed by PTS.

Using PTS

PTS uses different applications (referred to as tests) for generating the benchmark numbers. These tests are individually downloaded and installed as needed.

The test results can be saved to disk to be viewed locally and, optionally uploaded to Phoronix. If a test result is uploaded, you can perform the same test on another computer and view the results side-by-side.

List Installable Tests

```
phoronix-test-suite list-tests
```

This will give of list of the tests that can be installed.

Install a Test

`phoronix-test-suite install` *`test`*

Note: *test* is the name of a test, e.g., ramspeed.

Run a Test

`phoronix-test-suite run *test*`

Some tests have prerequisites and you will be prompted to install them if they are not installed.

If you want to save the results, you will be prompted for a name. The test results are stored at `/home/*user*/.phoronix-test-suite/test-results/*name*/`.

You will be prompted to view the results in a browser.

Listing Installed Tests

```
phoronix-test-suite list-installed-tests
```

View Results

Sample test results viewed in a browser:

RAMspeed 2.5.2 Type: Copy - Benchmark: Integer - Length: 3 Times MB/s
HIB BAR_GRAPH ramspeed COPY -b 3 -l 3 ramspeed-run1 2898.37
Processor: AMD Athlon 64 X2 Dual Core 5600+ @ 2.80GHz (Total Cores: 2),
Motherboard: ASUSTeK CROSSHAIR, Chipset: Unknown, System Memory: 2005MB,
Disk: 20GB, Graphics: GeForce 7900 GS 256MB (480/700MHz), Screen
Resolution: 1280x1024 OS: SUSE LINUX 11.1, Kernel: 2.6.27.7-9-default
(x86_64), X.Org Server: 1.5.2, OpenGL: 2.1.2 NVIDIA 180.22, Compiler:
GCC 4.3, File-System: ext2/ext3 January 28, 2009 04:14 AM AMD Cool n
Quiet was enabled 1.4.2 ramspeed-run1 ramspeed-test-1-neo ramspeed
1.1.0 This benchmark tests the system memory (RAM) performance. Memory

Upload Results

Finally, you will be prompted if you want to anonymously upload the results to Phoronix's website.

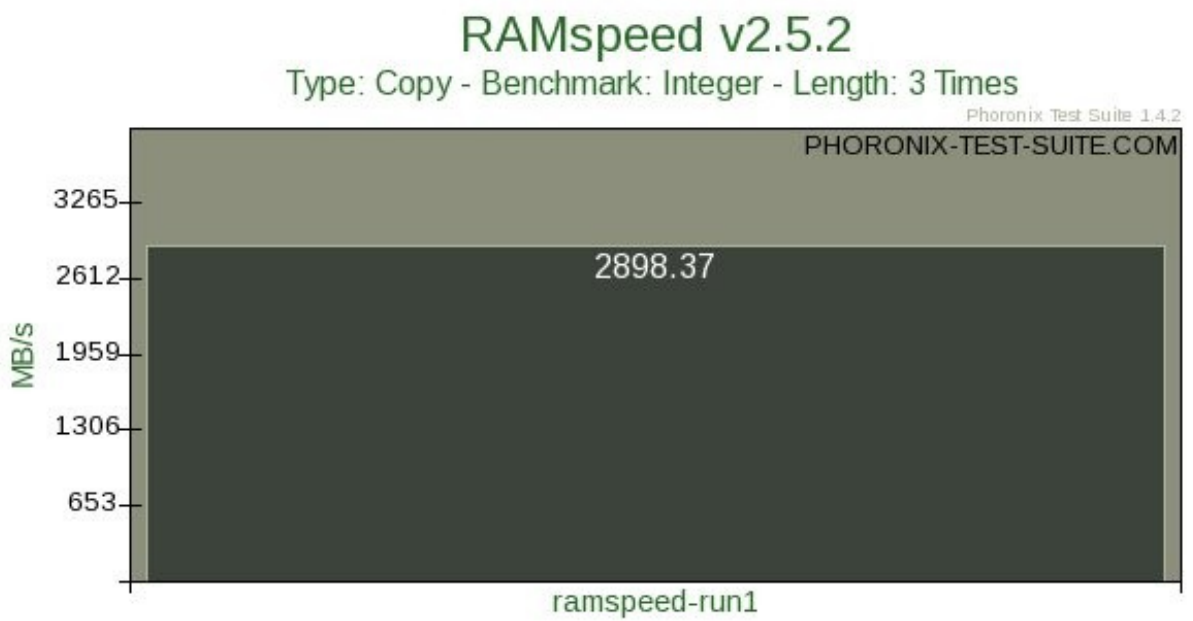
If you do, you can view the results from a link like this:

http://global.phoronix-test-suite.com/index.php?k=profile&u=anon-32225-28335-13449

View Uploaded Results

Test Results

RAMspeed 2.5.2
Type: Copy - Benchmark: Integer - Length: 3 Times



Compare these results against your Linux PC. Run **phoronix-test-suite benchmark anon-32225-28335-13449** and wait for the results (with comparative numbers) to appear. It's as easy as that!

Global ID: anon-32225-28335-13449

Benchmarking

`phoronix-test-suite benchmark` *`id`*

Note: *`id`* is the unique global identification number of a previously run test.

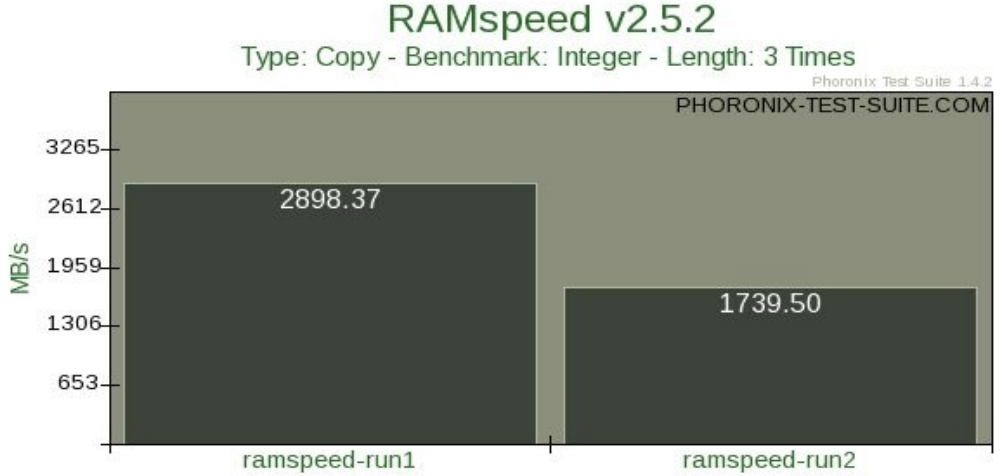
Viewing Benchmark Results

Here is an example of a benchmark comparison:

http://global.phoronix-test-suite.com/index.php?k=profile&u=anon-22165-25246-985

Test Results

RAMspeed 2.5.2
Type: Copy - Benchmark: Integer - Length: 3 Times



Compare these results against your Linux PC. Run **phoronix-test-suite benchmark anon-22165-25246-985** and wait for the results (with comparative numbers) to appear. It's as easy as that!

Global ID: anon-22165-25246-985