

Phoronix ~ José Santos Salvador

Phoronix es una plataforma que te permite ejecutar benchmarks bajo openbenchmarking.org.

Instalación Ubuntu

Para la instalación de Phoronix en Ubuntu he usado este comando que se baja de una url el archivo

```
wget http://phoronix-test-suite.com/releases/repo/pts.debian/files/phoronix-test-suite_10.0.1_all.deb
```

Tal y como hice en la práctica anterior, uso la terminal de mi equipo y me conecto mediante ssh a la maquina virtual, para así copiar y pegar los comandos.

```
sasaj@sasaj:~$ wget http://phoronix-test-suite.com/releases/repo/pts.debian/files/phoronix-test-suite_10.0.1_all.deb
--2020-11-25 22:44:08--  http://phoronix-test-suite.com/releases/repo/pts.debian/files/phoronix-test-suite_10.0.1_all.deb
Resolving phoronix-test-suite.com (phoronix-test-suite.com)... 192.211.48.82
Connecting to phoronix-test-suite.com (phoronix-test-suite.com)|192.211.48.82|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1037684 (1013K) [application/x-debian-package]
Saving to: 'phoronix-test-suite_10.0.1_all.deb'

phoronix-test-suite_10.0 100%[=====] 1013K  1.25MB/s   in 0.8s
2020-11-25 22:44:09 (1.25 MB/s) - ‘phoronix-test-suite_10.0.1_all.deb’ saved [1037684/1037684]
sasaj@sasaj:~$
```

Ahora para instalar el paquete que hemos descargado, usamos dpkg que es una herramienta para instalarlos [1](#).

```
sudo dpkg -i phoronix-test-suite_10.0.1_all.deb
```

```
sasaj@sasaj:~$ sudo dpkg -i phoronix-test-suite_10.0.1_all.deb
[sudo] password for sasaj:
Selecting previously unselected package phoronix-test-suite.
(Reading database ... 120120 files and directories currently installed.)
Preparing to unpack phoronix-test-suite_10.0.1_all.deb ...
Unpacking phoronix-test-suite (10.0.1) ...
Setting up phoronix-test-suite (10.0.1) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
sasaj@sasaj:~$
```

Siguiendo la referencia [2](#), lanzo un comando para listar los test suites disponibles para su uso de phoronix.

```
/usr/bin/phoronix-test-suite list-available-suites
```

```
sasa@asusj:~$ /usr/bin/phoronix-test-suite list-available-suites

NOTICE: The following PHP extensions are OPTIONAL but recommended:
Bzip2   The bzcompress/bzip2 support can be used for greater file compression.
SQLite3  SQLite3 is required when running a Phoronix server.
CURL    CURL is recommended for an enhanced download experience.

Phoronix Test Suite v10.0.1
User Agreement

Phoronix Test Suite User Agreement / Notices:

- The Phoronix Test Suite is open-source and licensed under the GNU GPLv3. A copy of the GPLv3
  license is included with this software or can also be found at
  https://www.gnu.org/licenses/gpl-3.0.en.html. However, some tests supported by the Phoronix Test
  Suite are not open-source software or require commercial software packages.

- The Phoronix Test Suite contains tests which may stress your system and in some cases could
  exhibit stability problems of the system's hardware or software configuration. The Phoronix Test
  Suite is provided WITHOUT ANY WARRANTY. In no event shall OpenBenchmarking.org, Phoronix,
  Phoronix Media, the Phoronix Test Suite, or any associated stakeholder be liable to any party for
  any direct or indirect damages for any use of OpenBenchmarking.org -- including, without
  limitation, any lost profits, business interruption, loss of programs, loss of programmed data,
  or otherwise.

- If you opt to submit your test results to OpenBenchmarking.org, the final results as well as
  basic hardware and software details (what is shown in the results viewer) will be shared and
  publicly accessible through https://www.openbenchmarking.org/ and optionally relevant system
  details like dmesg and /proc/cpuinfo.

- Anonymous usage reporting / statistics: If enabling the anonymous usage reporting / statistics
  feature, some information about the Phoronix Test Suite runs will be submitted to
  OpenBenchmarking.org for analytical purposes. Including the determining
  most popular tests / profiles and calculating average times for different test profiles.
  The test results are not reported in this process nor the installed software / hardware
  information, but ambient information about the testing process. This information is stored
  anonymously. More information on this feature is available with the included documentation.

- Community support / public bug reports, feature requests, and other issues can be brought up
  via GitHub: https://github.com/phoronix-test-suite. For enterprise/commercial support,
  sponsorship, or other professional inquiries, contact commercial@phoronix-test-suite.com.

For more information on the Phoronix Test Suite and its features, visit
https://www.phoronix-test-suite.com/, https://github.com/phoronix-test-suite/phoronix-test-suite
or view the included documentation or by contacting support@phoronix-test-suite.com. Commercial
support, custom engineering, and other services are available by contacting us.

Do you agree to these terms and wish to proceed (y/n): y
Enable anonymous usage / statistics reporting (y/n): n

Updated OpenBenchmarking.org Repository Index
pts: 428 Distinct Tests, 1639 Test Versions, 49 Suites
Changes Since 21 October To 25 November
```

Tras hacerlo te pide que responder a dos cuestiones y en algunos suites me da error.

```
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/numpy-1.2.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/geekbench-1.2.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/geekbench-1.2.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/phpbench-1.1.6.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/embree-1.1.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/ravite-1.4.0.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/asmfslsh-1.1.2.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/gromacs-1.4.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/redis-1.3.0.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/redis-1.3.0.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/phpbench-1.1.6.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/brl-cad-1.1.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/numpy-1.2.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/espeak-1.6.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/redis-1.3.0.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/phpbench-1.1.6.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/brl-cad-1.1.1.zip. Install PHP ZIP support or the unzip utility.
* pts/single-threaded           - Single-Threaded          System
  pts/speech                  - Speech                  System
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/espeak-1.6.1.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/unigine-heaven-1.6.5.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/unigine-super-1.0.7.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/unigine-super-1.0.7.zip. Install PHP ZIP support or the unzip utility.
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/unigine-super-1.0.7.zip. Install PHP ZIP support or the unzip utility.
  pts/unigine                 - Unigine Test Suite      Graphics
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/ravite-1.4.0.zip. Install PHP ZIP support or the unzip utility.
  pts/video-encoding          - Video Encoding          System
  pts/vulkan-compute          - Vulkan Compute          Graphics
[PROBLEM] Failed to find ZIP support for extracting file: /home/sasa]/.phoronix-test-suite/openbenchmarking.org/pts/brl-cad-1.1.1.zip. Install PHP ZIP support or the unzip utility.
* Indicates a partially supported suite.

sasa@asusj:~$
```

Al leer las primeras líneas te dice que se recomienda tener instalado Bzip2, SQLite3 y CURL. Este error en concreto es a la hora de descomprimir, así que instalando Bzip2 se solucionaría pero instalé los tres.

Al intentar instalar bzip2, me da un error porque necesita initramfs-tools. Entonces las instalé y volví a probar con bzip2

```
sudo apt-get install initramfs-tools
```

```
sasaj@sasaj:~$ sudo apt-get install bzip2
Reading package lists... Done
Building dependency tree
Reading state information... Done
bzip2 is already the newest version (1.0.8-2).
bzip2 set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 101 not upgraded.
1 not fully installed or removed.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Setting up initramfs-tools (0.136ubuntu6.2) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for initramfs-tools (0.136ubuntu6.2) ...
update-initramfs: Generating /boot/initrd.img-5.4.0-53-generic
I: The initramfs will attempt to resume from /dev/dm-3
I: (/dev/mapper/vg0_lv--0--swap)
I: Set the RESUME variable to override this.
Error 24 : Write error : cannot write compressed block
E: mkinitramfs failure cpio 141 lz4 -9 -l 24
update-initramfs: failed for /boot/initrd.img-5.4.0-53-generic with 1.
dpkg: error processing package initramfs-tools (--configure):
 installed initramfs-tools package post-installation script subprocess returned error exit status 1
Errors were encountered while processing:
 initramfs-tools
E: Sub-process /usr/bin/dpkg returned an error code (1)
sasaj@sasaj:~$ sudo apt-get install initramfs-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
 initramfs-tools-bin initramfs-tools-core
The following packages will be upgraded:
 initramfs-tools initramfs-tools-bin initramfs-tools-core
3 upgraded, 0 newly installed, 0 to remove and 98 not upgraded.
1 not fully installed or removed.
Need to get 71.4 kB of archives.
After this operation, 1024 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 initramfs-tools all 0.136ubuntu6.3 [9220 B]
Get:2 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 initramfs-tools-core all 0.136ubuntu6.3 [47.7 kB]
Get:3 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 initramfs-tools-bin amd64 0.136ubuntu6.3 [14.4 kB]
Fetched 71.4 kB in 1s (138 kB/s)
(Reading database ... 125709 files and directories currently installed.)
Preparing to unpack .../initramfs-tools_0.136ubuntu6.3_all.deb ...
Unpacking initramfs-tools (0.136ubuntu6.3) over (0.136ubuntu6.2) ...
Preparing to unpack .../initramfs-tools-core_0.136ubuntu6.3_all.deb ...
Unpacking initramfs-tools-core (0.136ubuntu6.3) over (0.136ubuntu6.2) ...
Preparing to unpack .../initramfs-tools-bin_0.136ubuntu6.3_amd64.deb ...
Unpacking initramfs-tools-bin (0.136ubuntu6.3) over (0.136ubuntu6.2) ...
Setting up initramfs-tools-bin (0.136ubuntu6.3) ...
Setting up initramfs-tools-core (0.136ubuntu6.3) ...
Setting up initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: Generating /boot/initrd.img-5.4.0-53-generic
I: The initramfs will attempt to resume from /dev/dm-3
I: (/dev/mapper/vg0_lv--0--swap)
I: Set the RESUME variable to override this.
```

```
sudo apt-get install bzip2
```

```

E: Sub-process /usr/bin/dpkg returned an error code (1)
sasaj@sasaj:~$ sudo apt-get install bzip2
Reading package lists... Done
Building dependency tree
Reading state information... Done
bzip2 is already the newest version (1.0.8-2).
0 upgraded, 0 newly installed, 0 to remove and 98 not upgraded.
1 not fully installed or removed.
After this operation, 0 B of additional disk space will be used.
Do you want to continue? [Y/n] Y
Setting up initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: Generating /boot/initrd.img-5.4.0-53-generic
I: The initramfs will attempt to resume from /dev/dm-3
I: (/dev/mapper/vg0-lv--0--swap)
I: Set the RESUME variable to override this.
Error 24 : Write error : cannot write compressed block
E: mkinitramfs failure cpio 141 lz4 -9 -l 24
update-initramfs: failed for /boot/initrd.img-5.4.0-53-generic with 1.
dpkg: error processing package initramfs-tools (--configure):
 installed initramfs-tools package post-installation script subprocess returned error exit status 1
Errors were encountered while processing:
 initramfs-tools
E: Sub-process /usr/bin/dpkg returned an error code (1)
sasaj@sasaj:~$ apt-get auto-remove && apt-get clean && apt-get update && apt-get upgrade
E: Could not open lock file /var/lib/dpkg/lock-frontend - open (13: Permission denied)
E: Unable to acquire the dpkg frontend lock (/var/lib/dpkg/lock-frontend), are you root?
sasaj@sasaj:~$ sudo apt-get auto-remove && apt-get clean && apt-get update && apt-get upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
0 upgraded, 0 newly installed, 0 to remove and 98 not upgraded.
1 not fully installed or removed.
After this operation, 0 B of additional disk space will be used.
Setting up initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: deferring update (trigger activated)
Processing triggers for initramfs-tools (0.136ubuntu6.3) ...
update-initramfs: Generating /boot/initrd.img-5.4.0-53-generic
I: The initramfs will attempt to resume from /dev/dm-3
I: (/dev/mapper/vg0-lv--0--swap)
I: Set the RESUME variable to override this.
Error 24 : Write error : cannot write compressed block
E: mkinitramfs failure cpio 141 lz4 -9 -l 24
update-initramfs: failed for /boot/initrd.img-5.4.0-53-generic with 1.
dpkg: error processing package initramfs-tools (--configure):
 installed initramfs-tools package post-installation script subprocess returned error exit status 1
Errors were encountered while processing:
 initramfs-tools
E: Sub-process /usr/bin/dpkg returned an error code (1)
sasaj@sasaj:~$ dpkg --configure
dpkg: error: requested operation requires superuser privilege
sasaj@sasaj:~$ sudo dpkg --configure
+dpkg: error: --configure needs at least one package name argument

Type dpkg --help for help about installing and deinstalling packages [*];
Use 'apt' or 'aptitude' for user-friendly package management;
Type dpkg -Dhelp for a list of dpkg debug flag values;
Type dpkg --force-help for a list of forcing options;

```

Estuve probando y seguía fallando initramfs-tools, por lo tanto lo borré y lo reinstale [3](#). Aunque bzip2 se había instalado de forma correcta aunque me diese ese error con initramfs-tools, ya que lo que ha fallado es la post-instalación y su script (" installed initramfs-tools package post-installation script subprocess returned error exit status 1 Errors were encountered while processing:") [4](#). Este tiene herramientas para crear initramfs para imágenes preempaquetadas del kernel de linux.

```
#Distro: sasaj@sasaj:~$ sudo apt remove initramfs-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  cryptsetup cryptsetup-bin cryptsetup-run kpartx libsgutils2-2 liburcu6 sg3-utils
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  cryptsetup
Suggested packages:
  keyutils
Recommended packages:
  cryptsetup-initramfs
The following packages will be REMOVED:
  cloud-initramfs-copymods cloud-initramfs-dyn-netconf cryptsetup-initramfs initramfs-tools multipath-tools overlayroot sg3-
The following packages will be upgraded:
  cryptsetup
1 upgraded, 0 newly installed, 8 to remove and 95 not upgraded.
1 not fully installed or removed.
Need to get 159 kB of archives.
After this operation, 1716 kB disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 cryptsetup amd64 2:2.2.2-3ubuntu2.3 [159 kB]
Fetched 159 kB in 1s (258 kB/s)
Preconfiguring packages ...
(Reading database ... 125709 files and directories currently installed.)
Removing cryptsetup-initramfs (2:2.2.2-3ubuntu2.2) ...
update-initramfs: deferring update (trigger activated)
update-initramfs: deferring update (trigger activated)
Removing ubuntu-server (1.450.1) ...
Removing multipath-tools (0.8.3-1ubuntu2) ...
Warning: Stopping multipath-tools.service, but it can still be activated by:
  multipathd.socket
Removing sg3-utils-udev (1.44-1ubuntu2) ...
update-initramfs: deferring update (trigger activated)
Removing cloud-initramfs-copymods (0.45ubuntu1) ...
Removing cloud-initramfs-dyn-netconf (0.45ubuntu1) ...
Removing overlayroot (0.45ubuntu1) ...
Removing initramfs-tools (0.136ubuntu6.3) ...
(Reading database ... 125554 files and directories currently installed.)
Preparing to unpack .../cryptsetup_2%3a2.2.2-3ubuntu2.3_amd64.deb ...
Unpacking cryptsetup (2:2.2.2-3ubuntu2.3) over (2:2.2.2-3ubuntu2.2) ...
Setting up cryptsetup (2:2.2.2-3ubuntu2.3) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
sasaj@sasaj:~$ sudo dpkg --configure -a
sasaj@sasaj:~$ █
```

```
sasaj@sasaj:~$ sudo apt remove initramfs-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  cryptsetup cryptsetup-bin cryptsetup-run kpartx libsgutils2-2 liburcu6 sg3-utils
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  cryptsetup
Suggested packages:
  keyutils
Recommended packages:
  cryptsetup-initramfs
The following packages will be REMOVED:
  cloud-initramfs-cryptmods cloud-initramfs-dyn-netconf cryptsetup-initramfs initramfs-tools multipath-tools overlayroot sg3-
The following packages will be upgraded:
  cryptsetup
1 upgraded, 0 newly installed, 8 to remove and 95 not upgraded.
1 not fully installed or removed.
Need to get 159 kB of archives.
After this operation, 1716 kB disk space will be freed.
Do you want to continue? [Y/n] Y
Get:1 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 cryptsetup amd64 2:2.2.2-3ubuntu2.3 [159 kB]
Fetched 159 kB in 1s (258 kB/s)
Preconfiguring packages ...
(Reading database ... 125709 files and directories currently installed.)
Removing cryptsetup-initramfs (2:2.2.2-3ubuntu2.2) ...
update-initramfs: deferring update (trigger activated)
update-initramfs: deferring update (trigger activated)
Removing ubuntu-server (1.450.1) ...
Removing multipath-tools (0.8.3-1ubuntu2) ...
Warning: Stopping multipath-tools.service, but it can still be activated by:
  multipathd.socket
Removing sg3-utils-udev (1.44-1ubuntu2) ...
update-initramfs: deferring update (trigger activated)
Removing cloud-initramfs-cryptmods (0.45ubuntu1) ...
Removing cloud-initramfs-dyn-netconf (0.45ubuntu1) ...
Removing overlayroot (0.45ubuntu1) ...
Removing initramfs-tools (0.136ubuntu6.3) ...
(Reading database ... 125554 files and directories currently installed.)
Preparing to unpack .../cryptsetup_2%3a2.2.2-3ubuntu2.3_amd64.deb ...
Unpacking cryptsetup (2:2.2.2-3ubuntu2.3) over (2:2.2.2-3ubuntu2.2) ...
Setting up cryptsetup (2:2.2.2-3ubuntu2.3) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
sasaj@sasaj:~$ sudo dpkg --configure -a
sasaj@sasaj:~$ sudo apt-get install initramfs-tools
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  cryptsetup cryptsetup-bin cryptsetup-run kpartx libsgutils2-2 liburcu6 sg3-utils
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  initramfs-tools
0 upgraded, 1 newly installed, 0 to remove and 95 not upgraded.
Need to get 0 B/9220 B of archives.
```

```
sasaj@sasaj:~$ sudo dpkg --configure -a
sasaj@sasaj:~$ sudo apt-get install bzip2
Reading package lists... Done
Building dependency tree
Reading state information... Done
bzip2 is already the newest version (1.0.8-2).
The following packages were automatically installed and are no longer required:
  cryptsetup cryptsetup-bin cryptsetup-run kpartx libsgutils2-2 liburcu6 sg3-utils
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 95 not upgraded.
sasaj@sasaj:~$
```

```
sudo apt-get install sqlite3
sudo apt-get install curl
```

Al final no era eso y me seguí dando error al lista los test suites de phonorix y decidi instalar zip y unzip [5](#)

```
sasaj@sasaj:~$ /usr/bin/phoronix-test-suite list-available-suites
```

Phoronix Test Suite v10.0.1 Available Suites

pts/audio-encoding	- Audio Encoding	System
pts/av1	- AV1	System
pts/bioinformatics	- Bioinformatics	System
pts/browsers	- Web Browsers	System
pts/chess	- Chess Test Suite	Processor
pts/compilation	- Timed Code Compilation	System
pts/compiler	- C/C++ Compiler Tests	Processor
pts/compression	- Compression Tests	Processor
pts/creator	- Creator Workloads	System
pts/cryptography	- Cryptography	Processor
pts/database	- Database Test Suite	System
pts/desktop-graphics	- Desktop Graphics	System
pts/disk	- Disk Test Suite	Disk
pts/hpc	- HPC - High Performance Computing	System
pts/imaging	- Imaging	System
pts/java	- Java	System
pts/kernel	- Common Kernel Benchmarks	System
pts/linear-algebra	- Linear Algebra	System
pts/machine-learning	- Machine Learning	System
pts/memory	- Memory Test Suite	Memory
pts/molecular-dynamics	- Molecular Dynamics	System
pts/mpi	- MPI Benchmarks	System
pts/multicore	- Multi-Core	Processor
pts/network	- Networking Test Suite	Network
pts/nvidia-gpu-compute	- NVIDIA GPU Compute	Graphics
pts/ocr	- OCR	System
pts/oneapi	- Intel oneAPI	System
pts/opencl	- OpenCL	System
pts/productivity	- Productivity	System
pts/python	- Python	System
pts/quantum-mechanics	- Quantum Mechanics	System
pts/raytracing	- Raytracing	System
pts/renderers	- Renderers	Processor
pts/scientific-computing	- Scientific Computing	System
pts/server	- Server	System
* pts/single-threaded	- Single-Threaded	System
pts/speech	- Speech	System
pts/texture-compression	- Texture Compression	System
pts/unigine	- Unigine Test Suite	Graphics
pts/video-encoding	- Video Encoding	System
pts/vulkan-compute	- Vulkan Compute	Graphics

* Indicates a partially supported suite.

```
sasaj@sasaj:~$ █
```

Instalación Centos

Seguí para la instalación la referencia [6](#), en ella al igual que en Ubuntu necesitamos wget para descargar de la página el programa de Phoronix, bzip2 (tal y como me pasó en Ubuntu, es necesaria esta herramienta ya

que es una dependencia).

```
yum install wget php-cli php-xml bzip2
```

```
Archivo Máquina Ver Entrada Dispositivos Ayuda
wget           x86_64      1.19.5-8.el8_1.1          AppStream      735 k
Instalando dependencias:
libxslt        x86_64      1.1.32-4.el8          BaseOS        249 k

Resumen de la transacción
=====
Instalar 3 Paquetes

Tamaño total de la descarga: 1.1 M
Tamaño instalado: 4.1 M
[Está de acuerdo [s/N]?: s
Descargando paquetes:
(1/3): libxslt-1.1.32-4.el8.x86_64.rpm      1.2 MB/s | 249 kB   00:00
(2/3): php-xml-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64.rpm 350 kB/s | 188 kB   00:00
(3/3): wget-1.19.5-8.el8_1.1.x86_64.rpm       1.0 MB/s | 735 kB   00:00
Total                                         1.1 MB/s | 1.1 MB   00:01

Ejecutando verificación de operación
Verificación de operación exitosa.
Ejecutando prueba de operaciones
Prueba de operación exitosa.
Ejecutando operación
  Preparando :                                                 1/1
  Instalando  : libxslt-1.1.32-4.el8.x86_64                1/3
  Instalando  : php-xml-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64 2/3
  Instalando  : wget-1.19.5-8.el8_1.1.x86_64               3/3
  Ejecutando scriptlet: wget-1.19.5-8.el8_1.1.x86_64      3/3
  Verificando : php-xml-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64 1/3
  Verificando : wget-1.19.5-8.el8_1.1.x86_64               2/3
  Verificando : libxslt-1.1.32-4.el8.x86_64               3/3

Instalado:
  libxslt-1.1.32-4.el8.x86_64      php-xml-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64
  wget-1.19.5-8.el8_1.1.x86_64

¡Listo!
[sasa.j@localhost ~]$
```

Añadir que intente hacerlo con dpkg -s como en Ubuntu, usando otros comandos similares [7](#) pero no me terminó de salir (creo que en parte porque el archivo que me bajaba no era el indicado para hacerle rpm -q en Centos).

Tras eso me bajé del repositorio phoronix como con Ubuntu.

```
wget http://phoronix-test-
suite.com/releases/repo/pts.debian/files/phoronix-test-suite_10.0.1_all.deb
```

Me di cuenta de que siguiendo la referencia [6](#) lo que necesitabas era el archivo .tar, entonces cambie la orden

```
wget http://phoronix-test-
suite.com/releases/repo/pts.debian/files/phoronix-test-suite_10.0.1.tar.gz
```

```
sasaj@localhost ~]$ wget https://phoronix-test-suite.com/releases/phoronix-test-suite-10.0.1.tar.gz
--2020-12-01 16:22:03-- https://phoronix-test-suite.com/releases/phoronix-test-suite-10.0.1.tar.gz
Resolviendo phoronix-test-suite.com (phoronix-test-suite.com)... 192.211.48.82
Conectando con phoronix-test-suite.com (phoronix-test-suite.com)[192.211.48.82]:443... conectado.
Petición HTTP enviada, esperando respuesta... 200 OK
Longitud: 1884492 (1,8M) [application/x-gzip]
Grabando a: "phoronix-test-suite-10.0.1.tar.gz"

phoronix-test-suite-10.0 100%[=====] 1,80M 1,86MB/s en 1,0s

2020-12-01 16:22:04 (1,86 MB/s) - "phoronix-test-suite-10.0.1.tar.gz" guardado [1884492/1884492]

[sasaj@localhost ~]$
```

Ahora si puedes decomprimirllo con tar

```
tar xvfz phoronix-test-suite-10.0.1.tar.gz
```

Despues nos cambiamos al directorio que se ha generado al extraer cd phoronix-test-suite

```
sasaj@localhost:~/phoronix-test-suite]$ ls
mon_raid.py      phoronix-test-suite_10.0.1_all.deb
phoronix-test-suite phoronix-test-suite-10.0.1.tar.gz
[sasaj@localhost ~]$ cd phoronix-test-suite/
[sasaj@localhost phoronix-test-suite]$
```

Llamamos al script de instalación.

```
./install-sh
```

```
sasaj@localhost:~/phoronix-test-suite
```

Verificando	: autoconf-2.69-27.el8.noarch	1/15
Verificando	: automake-1.16.1-6.el8.noarch	2/15
Verificando	: gcc-c++-8.3.1-5.el8.0.2.x86_64	3/15
Verificando	: libstdc++-devel-8.3.1-5.el8.0.2.x86_64	4/15
Verificando	: libtool-2.4.6-25.el8.x86_64	5/15
Verificando	: perl-Thread-Queue-3.13-1.el8.noarch	6/15
Verificando	: php-devel-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64	7/15
Verificando	: php-pear-1:1.10.5-9.module_el8.2.0+313+b04d0a66.noarch	8/15
Verificando	: php-process-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64	9/15
Verificando	: emacs-filesystem-1:26.1-5.el8.noarch	10/15
Verificando	: m4-1.4.18-7.el8.x86_64	11/15
Verificando	: pcre-cpp-8.42-4.el8.x86_64	12/15
Verificando	: pcre-devel-8.42-4.el8.x86_64	13/15
Verificando	: pcre-utf16-8.42-4.el8.x86_64	14/15
Verificando	: pcre-utf32-8.42-4.el8.x86_64	15/15

Instalado:

```
autoconf-2.69-27.el8.noarch  
automake-1.16.1-6.el8.noarch  
emacs-filesystem-1:26.1-5.el8.noarch  
gcc-c++-8.3.1-5.el8.0.2.x86_64  
libstdc++-devel-8.3.1-5.el8.0.2.x86_64  
libtool-2.4.6-25.el8.x86_64  
m4-1.4.18-7.el8.x86_64  
pcre-cpp-8.42-4.el8.x86_64  
pcre-devel-8.42-4.el8.x86_64  
pcre-utf16-8.42-4.el8.x86_64  
pcre-utf32-8.42-4.el8.x86_64  
perl-Thread-Queue-3.13-1.el8.noarch  
php-devel-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64  
php-pear-1:1.10.5-9.module_el8.2.0+313+b04d0a66.noarch  
php-process-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64
```

;Listo!
[sasaj@localhost phoronix-test-suite]\$

Cuando intenté lanzar phoronix, me devolvió un error con dependencias. Me pedía que instalase una extensión de PHP para JSON (formato sencillo de texto para el intercambio de datos).

```
sasaj@localhost:~/phoronix-test-suite
[sasaj@localhost phoronix-test-suite]$ phoronix-test-suite
The following PHP extensions are REQUIRED:
JSON      JSON support is required for OpenBenchmarking.org.

The following PHP extensions are OPTIONAL but recommended:
GD        The GD library is recommended for improved graph rendering.
POSIX    POSIX support is highly recommended.

[sasaj@localhost phoronix-test-suite]$
```

Tras esto me puse a instalar la extensión de php y me encontré con que no era un extensión que se continuase mucho a día de hoy y usando la referencia [8](#) no pude instalarla porque mi versión de PHP era superior a lo que se me pedía

```
sasaj@localhost:~/phoronix-test-suite
[sasaj@localhost phoronix-test-suite]$ sudo pcl dowload json
sudo: pcl: command not found
[sasaj@localhost phoronix-test-suite]$ sudo pecl dowload json
Command 'dowload' is not valid, try 'pecl help'
[sasaj@localhost phoronix-test-suite]$ sudo pecl download json
WARNING: "pear/json" is deprecated in favor of "channel://http://www.php.net/json/json"
WARNING: channel "pear.php.net" has updated its protocols, use "pecl channel-update pear.php.net" to update
downloading json-1.2.1.tgz ...
Starting to download json-1.2.1.tgz (17,780 bytes)
.....done: 17,780 bytes
File /home/sasaj/phoronix-test-suite/json-1.2.1.tgz downloaded
[sasaj@localhost phoronix-test-suite]$ sudo pear install json-1.2.1.tgz
pear/json requires PHP (version >= 4.3.0, version <= 6.0.0), installed version is 7.2.24
No valid packages found
install failed
[sasaj@localhost phoronix-test-suite]$
```

Por lo tanto decidí instalarlo como en el primer paso de la instalación de dependencias de Phoronix

```
sudo yum install php-json
```

```

[A] ~
php-pear-1:1.10.5-9.module_el8.2.0+313+b04d0a66.noarch
php-process-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64

;Listo!
[sasaj@localhost phoronix-test-suite]$ clear
[sasaj@localhost phoronix-test-suite]$ sudo pcl dowload json
sudo: pcl: command not found
[sasaj@localhost phoronix-test-suite]$ sudo pecl dowload json
Command 'dowload' is not valid, try 'pecl help'
[sasaj@localhost phoronix-test-suite]$ sudo pecl download json
WARNING: "pear/json" is deprecated in favor of "channel://http://www.php.net/json/json"
WARNING: channel "pear.php.net" has updated its protocols, use "pecl channel-update pear.php.net" to
downloading json-1.2.1.tgz ...
Starting to download json-1.2.1.tgz (17,780 bytes)
.....done: 17,780 bytes
File /home/sasaj/phoronix-test-suite/json-1.2.1.tgz downloaded
[sasaj@localhost phoronix-test-suite]$ sudo pear install json-1.2.1.tgz
pear/json requires PHP (version >= 4.3.0, version <= 6.0.0), installed version is 7.2.24
No valid packages found
install failed
[sasaj@localhost phoronix-test-suite]$ phoronix-test-suite

The following PHP extensions are REQUIRED:

JSON      JSON support is required for OpenBenchmarking.org.

The following PHP extensions are OPTIONAL but recommended:

GD       The GD library is recommended for improved graph rendering.

[sasaj@localhost phoronix-test-suite]$ yum install php-json
Error: Este comando debe ejecutarse como usuario root.
[sasaj@localhost phoronix-test-suite]$ sudo yum install php-json
Última comprobación de caducidad de metadatos hecha hace 0:09:59, el mar 01 dic 2020 16:26:41 CET.
Dependencias resueltas.
=====
Paquete      Arquitectura  Versión          Repositorio   Tam.
=====
Instalando:
php-json      x86_64        7.2.24-1.module_el8.2.0+313+b04d0a66   AppStream     73 k

Resumen de la transacción
=====
Instalar 1 Paquete

Tamaño total de la descarga: 73 k
Tamaño instalado: 44 k
¿Está de acuerdo [s/N]?: s
Descargando paquetes:
php-json-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64.rpm           124 kB/s | 73 kB   00:00
Total                                         60 kB/s | 73 kB   00:01

Ejecutando verificación de operación
Verificación de operación exitosa.
Ejecutando prueba de operaciones
Prueba de operación exitosa.
Ejecutando operación
  Preparando          :                               1/1
  Instalando         : php-json-7.2.24-1.module_el8.2.0+313+b04d0a66.x86_64           1/1

```

Y con la depedencia resuelta, lancé el comando para ver los test disponibles e instalarlos

```
phoronix-test-suite list-available-suites
```

```
[A] ~
remove-result [Test Result]
remove-result-from-result-file [Test Result]
remove-results-from-result-file [Test Result]
remove-run-from-result-file [Test Result]
rename-identifier-in-result-file [Test Result]
rename-result-file [Test Result]
reorder-result-file [Test Result]
result-file-raw-to-csv [Test Result]
result-file-to-csv [Test Result]
result-file-to-json [Test Result]
result-file-to-pdf [Test Result]
result-file-to-text [Test Result]
show-result [Test Result]
workload-topology [Test Result]

OTHER
commands
debug-dependency-handler
debug-render-test
debug-self-test
help
version

RESULT ANALYSIS
analyze-all-runs [Test Result]
executive-summary [Test Result]
result-file-confidence [Test Result]
result-file-stats [Test Result]
wins-and-losses [Test Result]

MODULES
auto-load-module
list-modules
module-info [Phoronix Test Suite Module]
module-setup [Phoronix Test Suite Module]
test-module [Phoronix Test Suite Module]
unload-module

USER CONFIGURATION
enterprise-setup
network-info
network-setup
user-config-reset
user-config-set

PHOROMATIC
start-phoromatic-server

RESULT VIEWER
start-result-viewer

[sasaj@localhost phoronix-test-suite]$
```

Benchmark en Centos

pts/amg

Decidí lanzar el test **pts/amg** (Algebraic multi-grid benchmark; parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids) en la cpu

phoronix-test-suite benchmark pts/amg

ISE_CENT (Ansible ping) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver **Entrada** Dispositivos Ayuda

Current Description: Oracle VMware testing on CentOS Linux 8 via the Phoronix Test Suite.

New Description: amg test

Algebraic Multi-Grid Benchmark:

pts/amg-1.0.1

Test 1 of 1

Estimated Trial Run Count: 3

Estimated Time To Completion: 6 Minutes [18:49 CET]

Started Run 1 @ 18:44:14

The test run ended quickly. [10066.767822] Rounding down aligned max_sectors from 4294967295 to 4294967288

[10066.768951] db_root: cannot open: /etc/target

[10066.804641] Loading iSCSI transport class v2.0-870.

[10066.822859] iscsi: registered transport (iser)

[10066.913533] RPC: Registered named UNIX socket transport module.

[10066.913865] RPC: Registered udp transport module.

[10066.914200] RPC: Registered tcp transport module.

[10066.914495] RPC: Registered tcp NFSv4.1 backchannel transport module.

[10066.927573] RPC: Registered rdma transport module.

[10066.927979] RPC: Registered rdma backchannel transport module.

Started Run 2 @ 18:44:19

The test run ended quickly.

Started Run 3 @ 18:44:23

The test run ended quickly.

Started Run 4 @ 18:44:27 *

The test run ended quickly.

Started Run 5 @ 18:44:32 *

The test run ended quickly.

Started Run 6 @ 18:44:36 *

The test run ended quickly.

Started Run 7 @ 18:44:40 *

The test run ended quickly.

Started Run 8 @ 18:44:45 *

The test run ended quickly.

Started Run 9 @ 18:44:49 *

ISE_CENT (Ansible ping) [Corriendo] - Oracle VM VirtualBox

Archivo Máquina Ver Entrada Dispositivos Ayuda

```

125338900
124392000
125991000
124104700
124653800
124000700

Average: 123073389 Figure Of Merit
Deviation: 3.00%
Samples: 9

Do you want to view the text results of the testing (Y/n): Y
amgtest
amg test

amgtest:

Processor: Intel Core i5-4670K (1 Core), Motherboard: Oracle VirtualBox v1.2, Chipset: Intel 440FX 82441FX PMC, Memory: 2048MB, Disk: 3 x 9GB VBOX HDD, Graphics: VMware SVGA II, Audio: Intel 82801AA AC 97 Audio, Network: 2 x Intel 82540EM

OS: CentOS Linux 8, Kernel: 4.18.0-193.28.1.el8_2.x86_64 (x86_64), File-System: xfs, Screen Resolution: 2048x2048, System Layer: Oracle VMware

Algebraic Multi-Grid Benchmark

Figure Of Merit > Higher Is Better
amgtest . 123073389 =====

Would you like to upload the results to OpenBenchmarking.org (y/n): y
Would you like to attach the system logs (lspci, dmesg, lsusb, etc) to the test result (y/n): y

Results Uploaded To: https://openbenchmarking.org/result/2012026-FI-AMGTEST8911

[sasa.j@localhost phoronix-test-suite]$ _

```

Ctrl Derecho

Y al subirlo a openbenchmarking podemos hacer la comparación con Ubuntu lanzando Te vas a la url:
<https://openbenchmarking.org/result/2012026-FI-AMGTEST8911>

HPV Challenge

Crafty
rav1e

New & Recently Updated Tests

Recently Updated Suites

Vulkan Compute

Desktop Graphics

Texture Compression

New & Recently Updated Suites

Currently Trending Results

simau-hhi-dcspcs-diskresult01
disk_mangaro
Intel Tiger Lake Driver Comparison
Raspberry Pi 4 vs. Intel Comet Lake
linuxvantsuite3
opensuse-jrt-1

Component Benchmarks

CPU / Processors

GPUs / Graphics

OpenGL

Disks / Storage

Motherboards

File-Systems

Operating Systems

OpenBenchmarking.org

Corporate / Organization Info

Bug Reports / Feature Requests

Contact Us

3 x 9GB VBOX HDD
VMware SVGA II Graphics
Intel 82801AA AC 97 Audio Audio
2 x Intel 82540EM Network
CentOS Linux 8 OS
4.18.0-193.28.1.el8_2.x86_64 (x86_64) Kernel
xfs File-System
2048x2048 Screen Resolution
Oracle VMware System Layer

Amgtest Benchmarks

- itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP; disabled RSB filling + srbd: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

System Logs
OPC Classification

Algebraic Multi-Grid Benchmark

AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. Learn more via the [OpenBenchmarking.org test page](#).

Algebraic Multi-Grid Benchmark

1. (CO gcc options: -fparser_is_l1pcsr_mv_iseg_mv_ll_mv_llkylov_llHYPRE_utilities_llm_fopenmp_llexceptions_llthread_llmpi

ptsl, OpenBenchmarking.org

Privacy

```
phoronix-test-suite benchmark 2012026-FI-AMGTEST8911
```

Comparacion con equipos random

Adicionalmente estuve buscando los benchmark mas usados en Centos con otros equipos y siguiendo la referencia [11](#), lancé el comando para compara esos resultados con mi máquina

```
phoronix-test-suite benchmark 2012028-HA-APACHEBEN54
```

```
[sasaj@localhost phoronix-test-suite]$ phoronix-test-suite list-available-suites | grep apache
[sasaj@localhost phoronix-test-suite]$ phoronix-test-suite benchmark 2012028-HA-APACHEBEN54
```

```
Evaluating External Test Dependencies .....
```

```
The following dependencies are needed and will be installed:
```

```
- perl
- perl-SDL
- perl-Time-HiRes
- expat
```

```
This process may take several minutes.
```

```
[sudo] password for sasaj:
```

Tras esto te pide instalar dependencias

```
1: Ignore missing dependencies and proceed with installation.  
2: Skip installing the tests with missing dependencies.  
3: Re-attempt to install the missing dependencies.  
4: Quit the current Phoronix Test Suite process.  
Missing dependencies action: 3
```

The following dependencies are needed and will be installed:

- expat

This process may take several minutes.

Última comprobación de caducidad de metadatos hecha hace 0:27:00, el mié 02 dic 2020 16:07:26 CET.

El paquete expat-2.2.5-3.el8.x86_64 ya está instalado.

Dependencias resueltas.

Nada por hacer.

;Listo!

Phoronix Test Suite v10.0.1

To Install: pts/apache-1.7.2

Determining File Requirements
Searching Download Caches

1 Test To Install
4 Files To Download [7.49MB]
208MB Of Disk Space Is Needed
2 Minutes, 46 Seconds Estimated Install Time

pts/apache-1.7.2:

```
Test Installation 1 of 1  
4 Files Needed [7.49 MB]  
Downloading: httpd-2.4.29.tar.bz2  
Downloading .....  
Downloading: apache-ab-test-files-1.tar.gz  
Estimated Download Time: 1m .....  
Downloading: apr-1.6.3.tar.bz2  
Estimated Download Time: 1m .....  
Downloading: apr-util-1.6.1.tar.bz2  
Estimated Download Time: 1m .....  
Approximate Install Size: 208 MB  
Estimated Install Time: 2 Minutes, 46 Seconds  
Installing Test @ 16:34:31
```

□

pts/apache-1.7.2:

```
Test Installation 1 of 1  
4 Files Needed [7.49 MB]  
Downloading: httpd-2.4.29.tar.bz2  
Downloading .....  
Downloading: apache-ab-test-files-1.tar.gz  
Estimated Download Time: 1m .....  
Downloading: apr-1.6.3.tar.bz2  
Estimated Download Time: 1m .....  
Downloading: apr-util-1.6.1.tar.bz2  
Estimated Download Time: 1m .....  
Approximate Install Size: 208 MB  
Estimated Install Time: 2 Minutes, 46 Seconds  
Installing Test @ 16:34:31
```

The installer exited with a non-zero exit status.

ERROR: Missing Header File: expat.h

Installing the package 'expat-devel' might fix this error.

LOG: ~/phoronix-test-suite/installed-tests/pts/apache-1.7.2/install-failed.log

[PROBLEM] pts/apache-1.7.2 is not installed.

```
[sasaj@localhost phoronix-test-suite]$  
[sasaj@localhost phoronix-test-suite]$ █
```

Instalé el test de openbenchmarking que necesitaba 12

```
[sasaj@localhost phoronix-test-suite]$ phoronix-test-suite install pts/apache-1.7.2

Evaluating External Test Dependencies .....  
The following dependencies are needed and will be installed:  
- expat  
  
This process may take several minutes.  
Última comprobación de caducidad de metadatos hecha hace 0:31:26, el mié 02 dic 2020 16:07:26 CET.  
El paquete expat-2.2.5-3.el8.x86_64 ya está instalado.  
Dependencias resueltas.  
Nada por hacer.  
;Listo!  
  
There are dependencies still missing from the system:  
- Expat XML Parser Library  
  
1: Ignore missing dependencies and proceed with installation.  
2: Skip installing the tests with missing dependencies.  
3: Re-attempt to install the missing dependencies.  
4: Quit the current Phoronix Test Suite process.  
Missing dependencies action: 3  
  
The following dependencies are needed and will be installed:  
- expat  
  
This process may take several minutes.  
Última comprobación de caducidad de metadatos hecha hace 0:31:33, el mié 02 dic 2020 16:07:26 CET.  
El paquete expat-2.2.5-3.el8.x86_64 ya está instalado.  
Dependencias resueltas.  
Nada por hacer.  
;Listo!  
  
Phoronix Test Suite v10.0.1  
  
To Install: pts/apache-1.7.2  
  
Determining File Requirements .....  
Searching Download Caches .....  
  
1 Test To Install  
208MB Of Disk Space Is Needed  
2 Minutes, 46 Seconds Estimated Install Time  
  
pts/apache-1.7.2:  
Test Installation 1 of 1  
4 Files Needed [7.49 MB / 1 Minute]  
File Found: httpd-2.4.29.tar.bz2 [6.26MB]  
File Found: apache-ab-test-files-1.tar.gz [0.01MB]  
File Found: apr-1.6.3.tar.bz2 [0.81MB]  
File Found: apr-util-1.6.1.tar.bz2 [0.41MB]  
Approximate Install Size: 208 MB  
Estimated Install Time: 2 Minutes, 46 Seconds  
Installing Test @ 16:39:00
```

Como no conseguía instalar ese test, utilicé otro test para compararlo con el de la web [13](#)

```
phoronix-test-suite benchmark 2012026-FI-ISCSI203298
```

Core Count:	1
Extensions:	SSE 4.2 + AVX2 + AVX + RDRAND + FSGSBASE
Cache Size:	6144 MB
Core Family:	Haswell
GRAPHICS:	VMware SVGA II
Screen:	2048x2048
MOTHERBOARD:	Oracle VirtualBox v1.2
BIOS Version:	VirtualBox
Chipset:	Intel 440FX 82441FX PMC
Audio:	Intel 82801AA AC 97 Audio
Network:	2 x Intel 82540EM
MEMORY:	2048MB
DISK:	3 x 9GB VBOX HDD
File-System:	xfs
Mount Options:	attr2 inode64 noquota relatime rw
Disk Scheduler:	MQ-DEADLINE
OPERATING SYSTEM:	CentOS Linux 8
Kernel:	4.18.0-193.28.1.el8_2.x86_64 (x86_64)
System Layer:	Oracle VMWare
Security:	itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbds: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

Current Test Identifiers:

- 1
- 2
- 3
- 4
- 5

Enter a unique name to describe this test run / configuration: isci Enter a unique name to describe thi

If desired, enter a new description below to better describe this result set / system configuration under test
Press ENTER to proceed without changes.**Current Description:** Oracle VMWare testing on CentOS Linux 8 via the Phoronix Test Suite.**New Description:** iscsi test**IOzone 3.465:**

pts/iozone-1.9.6 [Record Size: 1MB - File Size: 2GB - Disk Test: Read Performance]
Test 1 of 6
Test Profile Status: <i>Deprecated</i>
Estimated Trial Run Count: 3
Estimated Test Run-Time: 24 Minutes
Estimated Time To Completion: 2 Hours, 19 Minutes [19:00 CET]
Started Run 1 @ 16:41:57

Tardaba mucho y entonces lo corté antes de que acabase de pasar todos los tests.

If desired, enter a new description below to better describe this result set / system configuration under test.
Press ENTER to proceed without changes.

Current Description: Oracle VMWare testing on CentOS Linux 8 via the Phoronix Test Suite.

New Description: iSCSI test

Iozone 3.465: pts/Iozone-1.9.6 [Record Szie: 1MB - File Szie: 2GB - Disk Test: Read Performance]

Test 1 of 6
Test Profile Status: Deprecated
Estimated Trial Run Count: 3
Estimated Test Run-Time: 24 Minutes
Estimated Time To Completion: 2 Hours, 19 Minutes [19:00 CET]
Started Run 1 @ 16:41:57

Started Run 2 @ 16:54:07
Started Run 3 @ 17:06:11
Started Run 4 @ 17:18:30 *
Started Run 5 @ 17:29:32 *
Started Run 6 @ 17:41:58 *
Started Run 7 @ 17:52:07 *
Started Run 8 @ 18:01:41 *
Started Run 9 @ 18:12:50 *

Record Szie: 1MB - File Size: 2GB - Disk Test: Read Performance:

95.787189375
95.5458984375
55.654296875
115.666015625
97.1845793125
112.3828125
102.407384375
114.1510453125
115.3193359375

Average: 100.54 MB/s
Deviation: 18.80%
Samples: 9

MB/s > Higher Is Better
iSCSI . 100.54 |=====
1 1496.49 |=====

Result compared to 1,212 OpenBenchmarking.org samples since 26 February 2011; median result: 4923. Box plot of samples:
[-----#-----*-----|-----*-----|-----] *
^ 480GB 2.5: 1075 ^ 256GB SAMSUNG MZLN256 8524 ^ Samsung SSD 950 PRO: 13110 ^
256GB Samsung SSD 840: 7485 ^
^ 256GB SAMSUNG MZVLW256HEHP-00000: 6785

Iozone 3.465: pts/Iozone-1.9.6 [Record Szie: 2MB - File Szie: 2GB - Disk Test: Read Performance]

Test 2 of 6
Test Profile Status: Deprecated
Estimated Trial Run Count: 3
Estimated Test Run-Time: 24 Minutes
Estimated Time To Completion: 1 Hour, 56 Minutes [20:18 CET]
Started Run 1 @ 18:23:33

pts/dolfyn

Para comparar los resultados de test **pts/dolfyn**, hago uso del comando que me proporciona la url de Ubuntu.

phoronix-test-suite benchmark 2012099-FI-DOLFYNUBU69

El resultado y la comparación lo encontramos en la url(<https://openbenchmarking.org/result/2012097-FI-2012099FI37>)

dolfyn_ubuntu		
	dolfyn_ubuntu	dolfyn_centos
Processor	Intel Core i5-4670K (2 Cores)	Intel Core i5-4670K (1 Core)
Motherboard	Oracle VirtualBox v1.2	
Chipset	Intel 440FX 82441FX PMC	
Memory	6GB	2048MB
Disk	2 x 11GB VBOX HDD + VBOX HDD	3 x 9GB VBOX HDD
Graphics	VMware SVGA II	
Audio	Intel 82801AA AC 97 Audio	
Network	2 x Intel B2540EM	
OS	Ubuntu 20.04	CentOS Linux 8
Kernel	5.4.0-53-generic (x86_64)	4.18.0-193.28.1.el8_2.x86_64 (x86_64)
Compiler	GCC 9.3.0	
File-System	ext4	xfs
Screen Resolution	2048x2048	
System Layer	Oracle VMware	

Compiler Details

```
- dolfyn_ubuntu: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror
--enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug
--enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto
--enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9.3.0/debian/tmp-nvptx/usr,hsa
--enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu
--program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686
--with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32
--with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
```

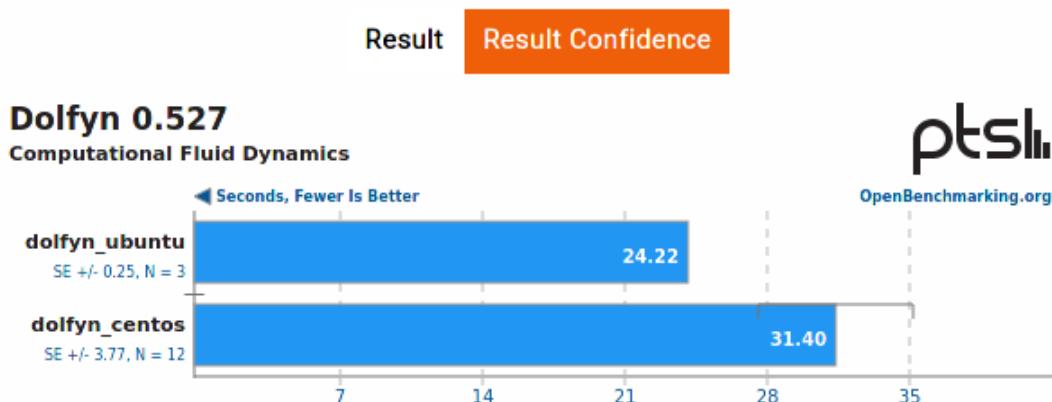
Security Details

- itlb_multihit: KVM: Vulnerable + I1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP; disabled RSB filling + srbds: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected

OpenBenchmarking.org

Dolfyn

CFD) code of modern numerical simulation techniques. The Dolfyn test profile measures the execution time of the that are bundled with Dolfyn. Learn more via the [OpenBenchmarking.org](#) test page.



```

Started Run 6 @ 16:24:27 *
Started Run 7 @ 16:24:55 *

Started Run 8 @ 16:25:24 *

Started Run 9 @ 16:25:51 *
Started Run 10 @ 16:26:21 *
Started Run 11 @ 16:26:49 *
Started Run 12 @ 16:27:17 *

Computational Fluid Dynamics:
50.481

```

```

49.704
58.228
23.821
23.802
24.195
24.73
23.905
25.388
23.796
24.794
23.917

```

Average: 31.397 Seconds

Deviation: 41.64%

Samples: 12

Seconds < Lower Is Better

```
dolfyn_centos . 31.40 |=====
dolfyn_ubuntu . 24.22 |=====
```

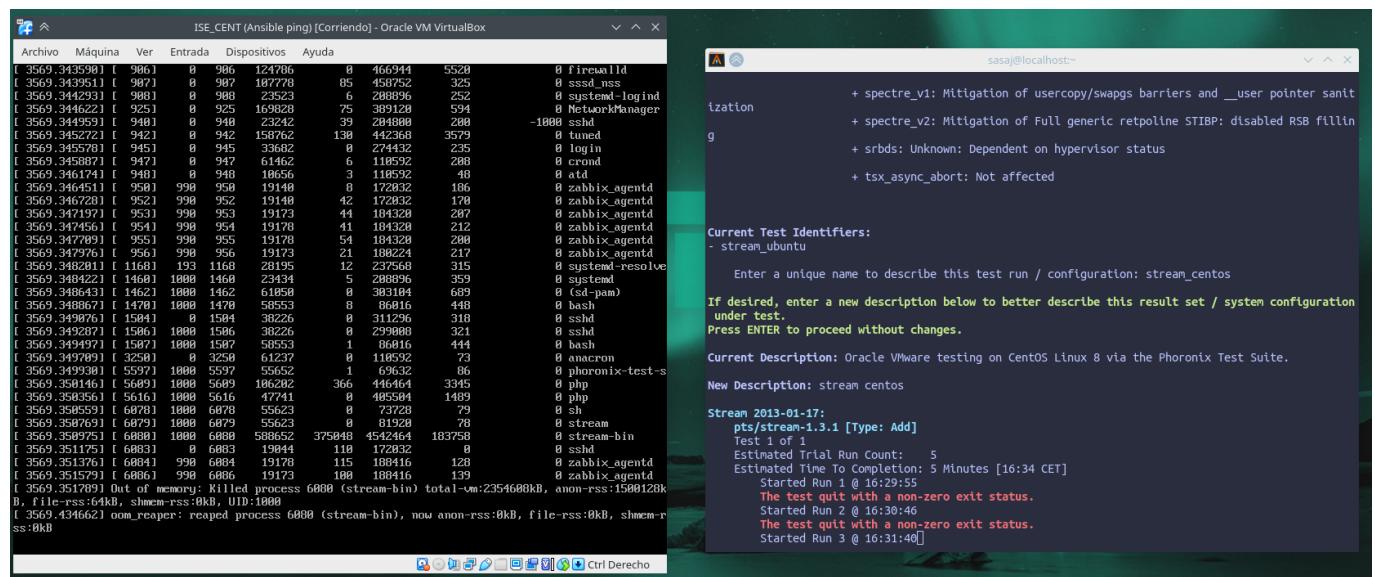
Result compared to 1,839 OpenBenchmarking.org samples since 26 February 2011; median result: 28

.24. Box plot of samples:

Y tal y como dicen en la página, menos es mejor y por tanto Ubuntu nos da un mejor resultado con 24.22.

pts/stream

Para comprar los resultados del tests **pts/stream** de memoria, usas el comando de la url de Ubuntu Tras lanzarlo me daba un error en centos por falta de memoria y para hacerlo justo, decidí darle la misma memoria a ambos sistema operativos (configuracion > memoria > 6144MB)



Ahora consigue ejecutarlo de forma correcta aunque con peor rendimiento que en Ubuntu (mas es mejor)

stream_ubuntu			
	stream_ubuntu	stream_centos	stream_centos2
Processor	Intel Core i5-4670K (2 Cores)		Intel Core i5-4670K (1 Core)
Motherboard		Oracle VirtualBox v1.2	
Chipset		Intel 440FX 82441FX PMC	
Memory	6GB	2048MB	6GB
Disk	2 x 11GB VBOX HDD + VBOX HDD		3 x 9GB VBOX HDD
Graphics		VMware SVGA II	
Audio		Intel 82801AA AC 97 Audio	
Network		2 x Intel B2540EM	
OS	Ubuntu 20.04		CentOS Linux 8
Kernel	5.4.0-53-generic (x86_64)		4.18.0-193.28.1.el8_2.x86_64 (x86_64)
Compiler	GCC 9.3.0		
File-System	ext4		xfs
Screen Resolution		2048x2048	
System Layer		Oracle VMWare	
Compiler Details			
- stream_ubuntu: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multilib --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-Hsk2Ea/gcc-9-9.3.0/debian/tmp-nvptx/usr.hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v			
Security Details			
- itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + spec_store bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbs: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected			

OpenBenchmarking.org

Stream

This benchmark tests the system memory (RAM) performance. [Learn more via the OpenBenchmarking.org test page.](#)

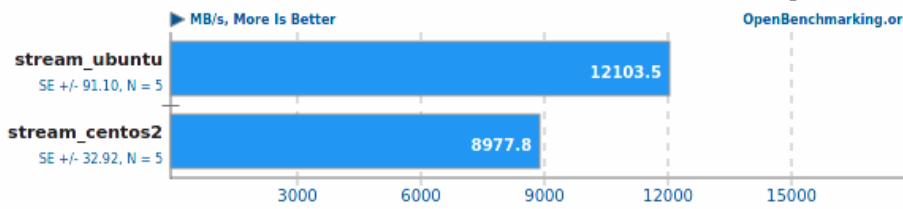
[Result](#) [Result Confidence](#)

Stream 2013-01-17

Type: Add



OpenBenchmarking.org



1. (CC) gcc options: -O3 -march=native -fopenmp

url: <https://openbenchmarking.org/result/2012091-FI-2012098FI90>

Benchmark en Ubuntu

pts/amg

Para hacer la comparación con Centos se lanza el comando, que testea el test **pts/amg**

```
phoronix-test-suite benchmark 2012026-FI-AMGTEST8911
```

Me daba error por no instalarlo, pruebo a instalarlo con el comando install y tambien me da error

```
sudo phoronix-test-suite benchmark install pts/amg
```

Arreglo dependencias y hago update

```
sudo apt-get update
```

```
sudo apt-get install libopenmpi-dev openmpi-bin libmpich-dev build-essential autoconf
```

```
sasaj@sasaj:~$ sudo apt-get update
Hit:1 http://es.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://es.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://es.archive.ubuntu.com/ubuntu focal-backports InRelease [101 kB]
Get:4 http://es.archive.ubuntu.com/ubuntu focal-security InRelease [109 kB]
Get:5 http://repo.zabbix.com/zabbix/5.0/ubuntu focal InRelease [4930 B]
Get:6 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [697 kB]
Get:7 http://repo.zabbix.com/zabbix/5.0/ubuntu focal/main Sources [1194 B]
Get:8 http://es.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [173 kB]
Get:9 http://es.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [11.3 kB]
Get:10 http://es.archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [103 kB]
Get:11 http://es.archive.ubuntu.com/ubuntu focal-updates/restricted Translation-en [15.8 kB]
Get:12 http://es.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [700 kB]
Get:13 http://es.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [137 kB]
Get:14 http://es.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [13.4 kB]
Get:15 http://es.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [3988 B]
Get:16 http://es.archive.ubuntu.com/ubuntu focal-backports/universe amd64 c-n-f Metadata [224 B]
Get:17 http://es.archive.ubuntu.com/ubuntu focal-security/main amd64 Packages [397 kB]
Get:18 http://es.archive.ubuntu.com/ubuntu focal-security/main Translation-en [90.6 kB]
Get:19 http://es.archive.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [5608 B]
Get:20 http://es.archive.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [80.6 kB]
Get:21 http://es.archive.ubuntu.com/ubuntu focal-security/restricted Translation-en [12.8 kB]
Get:22 http://es.archive.ubuntu.com/ubuntu focal-security/universe amd64 Packages [520 kB]
Get:23 http://repo.zabbix.com/zabbix/5.0/ubuntu focal/main amd64 Packages [3216 B]
Get:24 http://es.archive.ubuntu.com/ubuntu focal-security/universe Translation-en [68.3 kB]
Get:25 http://es.archive.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [9364 B]
Fetched 3372 kB in 1s (2251 kB/s)
Reading package lists... Done
sasaj@sasaj:~$ sudo apt-get install libopenmpi-dev openmpi-bin libmpich-dev build-essential autoconf
Reading package lists... Done
```

Lanzado de forma correcta

```

The test run ended quickly.
Started Run 9 @ 18:51:50 *
The test run ended quickly.
Started Run 10 @ 18:51:54 *
The test run ended quickly.
Started Run 11 @ 18:51:58 *
The test run ended quickly.
Started Run 12 @ 18:52:03 *
The test run ended quickly.

Test Results:
75394880
78892600
81203130
81884980
78685710
61570590
80120500
80312910
75964020
74122190
68538550
73648280

Average: 75861528 Figure Of Merit
Deviation: 7.81%
Samples: 12

Result compared to 203 OpenBenchmarking.org samples since 4 March 2020; median result: 28345. Box plot of samples:
[#-----*-----] *-----]
This Result: 75861528 ^
^ 2 x Intel Xeon E5620: 7306165

Do you want to view the text results of the testing (Y/n): Y
amg_test
amg test

amg test:

Processor: Intel Core i5-4670K (2 Cores), Motherboard: Oracle VirtualBox v1.2, Chipset: Intel 440FX 82441FX PMC, Memory: 6GB, Disk: 2 x 11GB VBOX HDD + VBOX HDD, Graphics: VMware SVGA II, Audio: Intel 82801AA AC 97 Audio, Network: 2 x Intel 82540EM

OS: Ubuntu 20.04, Kernel: 5.4.0-53-generic (x86_64), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 2048x2048, System Layer: Oracle VMware

Algebraic Multi-Grid Benchmark

Figure Of Merit > Higher Is Better
amg test . 75861528 |=====

Would you like to upload the results to OpenBenchmarking.org (y/n): y
Would you like to attach the system logs (lspci, dmesg, lsusb, etc) to the test result (y/n): y

Results Uploaded To: https://openbenchmarking.org/result/2012034-FI-AMGTEST4351

sasaj@sasaj:~$ 

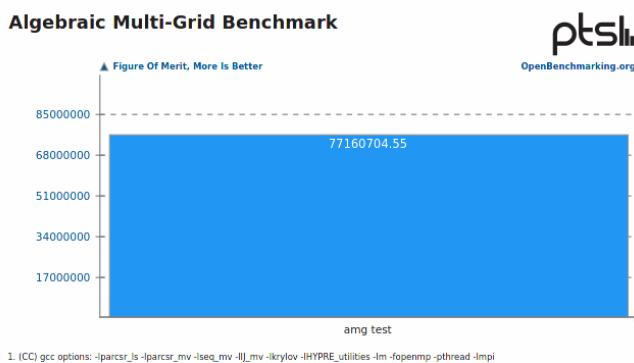
```

En la pagina web <https://openbenchmarking.org/result/2012034-FI-AMGTEST4351>

PTI + spec_store_bypass: Vulnerable +
spectre_v1: Mitigation of usercopy/swapgs
barriers and _user pointer sanitization +
spectre_v2: Mitigation of Full generic System Logs
retpoline STIBP: disabled RSB filling
srbds: Unknown: Dependent on hypervisor
OPC Classification

Algebraic Multi-Grid Benchmark

AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. [See OpenBenchmarking.org test page.](#)



Después hice la comparación con Centos siguiendo el comando que te proporciona la url(<https://openbenchmarking.org/result/2012026-FI-AMGTEST8911>)

```
phoronix-test-suite benchmark 2012026-FI-AMGTEST8911
```

Me dio el resultado

```

Started Run 10 @ 14:49:13 *
Started Run 11 @ 14:49:17 *
Started Run 12 @ 14:49:22 *

Test Results:
71600430
76003350
71817550
79223840
77379250
70661290
53376750
72857700
71984470
76509420
73508080
72257250

Average: 72264948 Figure Of Merit
Deviation: 9.03%
Samples: 12

Figure Of Merit > Higher Is Better
amg_Ubuntu . 72264948 |=====
amgtest .... 123073389 |=====

Result compared to 206 OpenBenchmarking.org samples since 4 March 2020; median result: 29214. Box plot of samples:
[#-----*-----|-----*-----]
                                         This Result (97th Percentile): 72264948 ^
                                         ^ 2 x Intel Xeon E5620: 7306165

Do you want to view the text results of the testing (Y/n): Y
amgtest
amg ubuntu

```

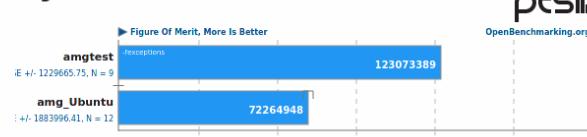
amgtest		amgtest	amg_Ubuntu
Processor	Intel Core i5-4670K (1 Core)	Intel Core i5-4670K (2 Cores)	
Motherboard		Oracle VirtualBox v1.2	
Chipset		Intel 440FX 82441FX PMC	
Memory	2048MB		6GB
Disk	3 x 9GB VBOX HDD		2 x 11GB VBOX HDD + VBOX HDD
Graphics		VMware SVGA II	
Audio		Intel 82601AA AC 97 Audio	
Network		2 x Intel 82540EM	
OS	CentOS Linux 8		Ubuntu 20.04
Kernel	4.18.0-193.28.1.el8_2.x86_64 (x86_64)		5.4.0-53-generic (x86_64)
File-System	xfs		ext4
Screen Resolution		2048x2048	
System Layer		Oracle VMWare	
Compiler			GCC 9.3.0
Security Details			
- lib multithreaded: KVM: Vulnerable + I1f: Mitigation of RTE Inversion + mds: Mitigation of Clear buffers, SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre v1; Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre v2; hyperervisor status + tsx_async_abort has affected			
Compiler Details			
- amg Ubuntu --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,-qm2 --enable-libstdcxx-debug --enable-libstdcxx Namespace --enable-gnu-individual-newoperator-newname= --enable-libstdcxx Namespace=gnu --enable-offload-targets=nvptx-none=build/gcc-9-HaZEA/gcc-9.3.0/debian/tmp/nvptx-nv.hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --prefix=/usr/local --sysroot=/tmp/amgUbuntu --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system=libc=auto --with-tune=generic --without-cuda-driver -v			
OpenBenchmarking.org			

Algebraic Multi-Grid Benchmark

AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. [Learn more via the OpenBenchmarking.org test page.](#)

[Result](#) [Result Confidence](#)

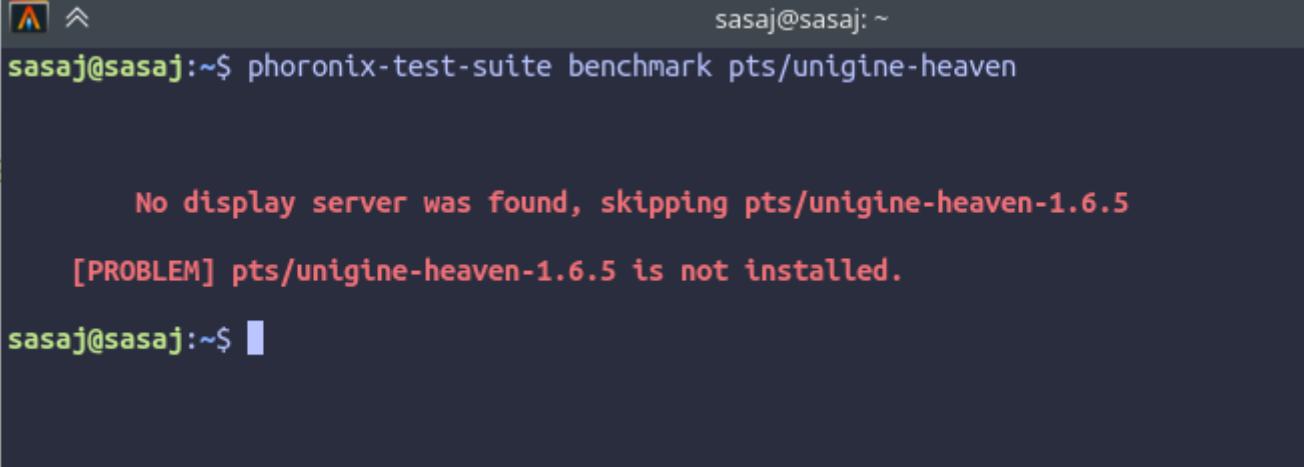
Algebraic Multi-Grid Benchmark



Se puede ver en la página <https://openbenchmarking.org/result/2012095-FI-2012026FI82>

Test sobre la GPU

Intenté hacer un test con la gpu de las máquinas virtual pero me dio un error como es lógico por la falta de monitor.



```
sasaj@sasaj:~$ phoronix-test-suite benchmark pts/unigine-heaven

No display server was found, skipping pts/unigine-heaven-1.6.5
[PROBLEM] pts/unigine-heaven-1.6.5 is not installed.

sasaj@sasaj:~$
```

pts/dolfyn

Lancé un test llamado **pts/dolfyn**(Computational Fluid Dynamics (CFD) code of modern numerical simulation techniques) mide el tiempo de ejecución de las demostraciones de fluidos dinámica (CPU).

```

[sasaj@sasaj: ~]
Enter a name for the result file: dolfyn_ubuntu
Enter a unique name to describe this test run / configuration: dolfyn_ubuntu

If desired, enter a new description below to better describe this result set / system configuration
under test.
Press ENTER to proceed without changes.

Current Description: Oracle VMWare testing on Ubuntu 20.04 via the Phoronix Test Suite.

New Description: dolfyn ubuntu

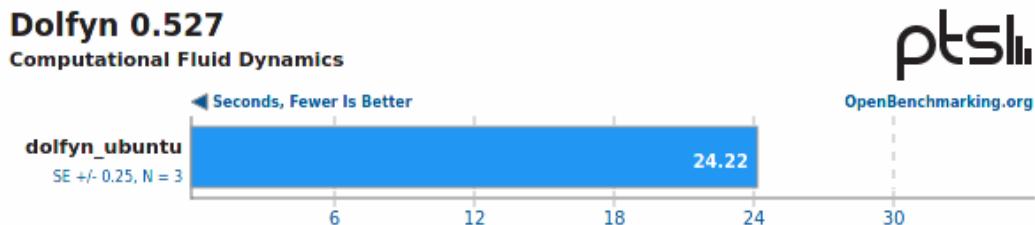
Dolfyn 0.527:
pts/dolfyn-1.0.3
Test 1 of 1
Estimated Trial Run Count: 3
Estimated Time To Completion: 2 Minutes [15:10 UTC]
    Started Run 1 @ 15:09:06
    Started Run 2 @ 15:09:35
    Started Run 3 @ 15:10:03

Computational Fluid Dynamics:
24.34
23.727
24.584

Average: 24.217 Seconds
Deviation: 1.82%


Result compared to 1,839 OpenBenchmarking.org samples since 26 February 2011; median result:
.24. Box plot of samples:
[ *-----*-----#*#*#*
   ^ ARMv7 rev 4: 531   Intel Atom D525: 268 ^           AMD Ryzen 9 5950X: 12.826
   ^ AMD A6-7400K Radeon R5 6 Compute Cores 2C: 46.85 ^

```



La url donde ver los resultados: <https://openbenchmarking.org/result/2012099-FI-DOLFYNUBU69>

pts/stream

El siguiente test que realicé fué el **pts/stream** sobre la memoria y le puse el test de Add con la opcion 3.

Phoronix Test Suite v10.0.1

To Install: pts/stream-1.3.1

Determining File Requirements
Searching Download Caches

1 Test To Install

1 File To Download [0.01MB]
1MB Of Disk Space Is Needed
2 Seconds Estimated Install Time

pts/stream-1.3.1:

Test Installation 1 of 1
1 File Needed [0.01 MB / 1 Minute]

Downloading: stream-2013-01-17.tar.bz2 [0.0

Estimated Download Time: 1m

Approximate Install Size: 0.1 MB

Estimated Install Time: 2 Seconds

Installing Test @ 15:58:29

Stream 2013-01-17:

pts/stream-1.3.1

Memory Test Configuration

- 1: Copy
- 2: Scale
- 3: Add
- 4: Triad
- 5: Test All Options

**** Multiple items can be selected, delimit by a comma. ****

Los resultados se pueden ver en la url: <https://openbenchmarking.org/result/2012098-FI-STREAMUBU79>

```
sasaj@sasaj: ~
Current Description: Oracle VMware testing on Ubuntu 20.04 via the Phoronix Test Suite.
New Description: stream ubuntu
Stream 2013-01-17:
pts/stream-1.3.1 [Type: Add]
Test 1 of 1
Estimated Trial Run Count: 5
Estimated Time To Completion: 5 Minutes [15:21 UTC]
    Started Run 1 @ 15:17:00
    Started Run 2 @ 15:18:12
    Started Run 3 @ 15:19:26
    Started Run 4 @ 15:20:46
    Started Run 5 @ 15:22:11

Type: Add:
12171.8
12126.4
12233.4
11748.6
12237.5

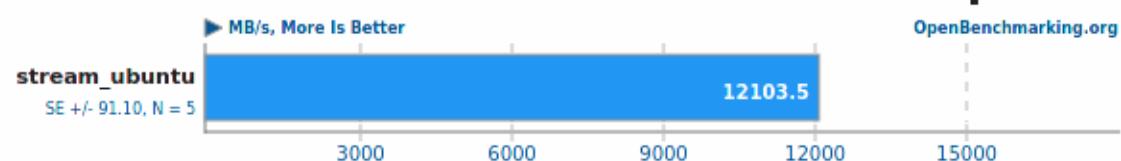
Average: 12103.5 MB/s
Deviation: 1.68%

Result compared to 1,818 OpenBenchmarking.org samples since 26 February 2011; median result: 28093. Box plot of samples:
[ |---*-----#-----!-----#-----*-----*-----| * ]
^ This Result (15th Percentile): 12104
          8 x 8192 MB DDR4-2666MT: 92778 ^
          12 x 32 GB DDR4-2933MT: 160771 ^
          16 x 32 GB DDR4-2400MT: 143905 ^
          16 x 32 GB DDR4-2666MT: 124539 ^

Do you want to view the text results of the testing (y/n): y
stream_ubuntu
```

Stream 2013-01-17

Type: Add



1. (CC) gcc options: -O3 -march=native -fopenmp

Benchmark con Docker (parte opcional)

Para instalar docker, al tener una distribución basadas en arch (Manjaro), he usado pacman como gestor de paquetes.

```
sudo pacman -S docker
```

```
jose jose-manjaro ~ ◉ v15.3.0
→ sudo pacman -S docker
resolviendo dependencias...
buscando conflictos entre paquetes...

Paquetes (4) bridge-utils-1.7-1 containerd-1.4.2-2 runc-1.0.0rc92-1 docker-1:19.03.13-1

Tamaño total de la descarga: 87,21 MiB
Tamaño total de la instalación: 372,59 MiB

:: ¿Continuar con la instalación? [S/n] S
:: Obteniendo los paquetes...
bridge-utils-1.7-1-x86_64      16,7 KiB  0,00  B/s 00:00 [#####
runc-1.0.0rc92-1-x86_64        3,5 MiB   4,30 MiB/s 00:01 [#####
containerd-1.4.2-2-x86_64     21,9 MiB  1458 KiB/s 00:15 [#####
docker-1:19.03.13-1-x86_64    1791,8 KiB  778 KiB/s 01:18 [-----] 2%
```

```
sudo: pacman: comando no encontrado
jose jose-manjaro ~ ◉ v15.3.0
→ sudo pacman -S docker
resolviendo dependencias...
buscando conflictos entre paquetes...

Paquetes (4) bridge-utils-1.7-1 containerd-1.4.2-2 runc

Tamaño total de la descarga: 87,21 MiB
Tamaño total de la instalación: 372,59 MiB

:: ¿Continuar con la instalación? [S/n] S
:: Obteniendo los paquetes...
bridge-utils-1.7-1-x86_64      16,7 KiB  0,00  B/s 00:
runc-1.0.0rc92-1-x86_64        3,5 MiB   4,30 MiB/s 00:
containerd-1.4.2-2-x86_64     21,9 MiB  1458 KiB/s 00:
docker-1:19.03.13-1-x86_64    61,7 MiB  829 KiB/s 01:
(4/4) comprobando las claves del depósito
(4/4) verificando la integridad de los paquetes
(4/4) cargando los archivos de los paquetes
(4/4) comprobando conflictos entre archivos
(4/4) comprobando el espacio disponible en el disco
:: Procesando los cambios de los paquetes...
(1/4) instalando bridge-utils
(2/4) instalando runc
(3/4) instalando containerd
(4/4) instalando docker
Dependenciasopcionales para docker
  btrfs-progs: btrfs backend support [instalado]
  pigz: parallel gzip compressor support
:: Ejecutando los «hooks» de posinstalación...
(1/4) Creating system user accounts...
Creating group docker with gid 963.
(2/4) Reloading system manager configuration...
(3/4) Reloading device manager configuration...
(4/4) Arming ConditionNeedsUpdate...
jose jose-manjaro ~ ◉ v15.3.0 2m 19s 66ms
→ █
```

No lo inicio y me daba error

```
jose jose-manjaro ~ └─v15.3.0 2m 19s 66ms
→ docker run -it phoronix/pts
docker: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?.
See 'docker run --help'.
jose jose-manjaro ~ └─v15.3.0
→ docker run
"docker run" requires at least 1 argument.
See 'docker run --help'.

Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Run a command in a new container
jose jose-manjaro ~ └─v15.3.0
→ sudo docker run -it phoronix/pts
docker: Cannot connect to the Docker daemon at unix:///var/run/docker.sock. Is the docker daemon running?.
See 'docker run --help'.
jose jose-manjaro ~ └─v15.3.0
→ sudo systemctl start docker
jose jose-manjaro ~ └─v15.3.0 5s 722ms
→ ┌
```

```
sudo systemctl start docker
```

Lanzamos la orden referencia [14](#)

```
docker run -it phoronix/pts.
```

Con it le estamos diciendo que sea iterativo, que no se lance phoronix/pts y luego se cierre instantaneamente [19](#)

```
jose jose-manjaro ~ └─ v15.3.0 5s 722ms
→ sudo docker run -it phoronix/pts
Unable to find image 'phoronix/pts:latest' locally
latest: Pulling from phoronix/pts
692c352adcf2: Pull complete
97058a342707: Pull complete
2821b8e766f4: Pull complete
4e643cc37772: Pull complete
bf1691532b7e: Pull complete
52db13de8842: Pull complete
3fe82fe6dde9: Pull complete
aa4a952f12b4: Pull complete
Digest: sha256:f7c26b8836f24fd262f236cfb1074dbb4f49e165190c82fc03627f3e287af131
Status: Downloaded newer image for phoronix/pts:latest
```

Updated OpenBenchmarking.org Repository Index

pts: 428 Distinct Tests, 1639 Test Versions, 49 Suites

New Test Available:	pts/ai-benchmark	v1.0.1
Updated Test Available:	pts/aom-av1	v2.1.2
Updated Test Available:	pts/asmfish	v1.1.2
New Test Available:	pts/astcenc	v1.0.2
Updated Test Available:	pts/basis	v1.0.2
New Test Available:	pts/betsy	v1.0.0
Updated Test Available:	pts/blender	v1.8.0
Updated Test Available:	pts/brl-cad	v1.1.1
Updated Test Available:	pts/build-clash	v1.0.2
Updated Test Available:	pts/build-llvm	v1.2.1
Updated Test Available:	pts/byte	v1.2.2
Updated Test Available:	pts/caffe	v1.5.0
Updated Test Available:	pts/cinebench	v1.2.0
New Test Available:	pts/compress-lz4	v1.0.0
Updated Test Available:	pts/compress-zstd	v1.2.1
New Test Available:	pts/couchdb	v1.0.1
Updated Test Available:	pts/crafty	v1.4.5
New Test Available:	pts/ddnet	v1.0.1
Updated Test Available:	pts/dolfyn	v1.0.3

pts/amg

```
phoronix-test-suite batch-benchmark pts/amg
```

```
Determining File Requirements .....  
Searching Download Caches .....
```

```
1 Test To Install  
1 File To Download [1.25MB]  
10MB Of Disk Space Is Needed  
20 Seconds Estimated Install Time
```

```
pts/amg-1.0.1:  
Test Installation 1 of 1  
1 File Needed [1.25 MB]  
Downloading: AMG-20200304.tar.xz [1.25MB]  
Downloading .....  
Approximate Install Size: 10 MB  
Estimated Install Time: 20 Seconds  
Installing Test @ 16:13:00  
The installer exited with a non-zero exit status.  
ERROR: pts/amg-1.0.1/install.sh: line 7: make: command not found  
Installing the package 'make' might fix this error.  
LOG: /var/lib/phoronix-test-suite/installed-tests/pts/amg-1.0.1/install-failed.log
```

[PROBLEM] The batch mode must first be configured.
To configure, run phoronix-test-suite batch-setup

```
CPU Temperature: 53.00 C CPU Usage (Summary): 55.67 % GPU Temperature: 68.00 C
```

Y nos devuelve un error pidiendo que configuremos el archivo batch-setup con el comando

```
phoronix-test-suite batch-setup
```

```
phoronix-test-suite batch-setup
```

These are the default configuration options for when running the Phoronix Test Suite in a batch mode (i.e. running phoronix-test-suite batch-benchmark universe). Running in a batch mode is designed to be as autonomous as possible, except for where you'd like any end-user interaction.

```
Save test results when in batch mode (Y/n): Y  
Open the web browser automatically when in batch mode (y/N): y  
Auto upload the results to OpenBenchmarking.org (Y/n): n  
Prompt for test identifier (Y/n): y  
Prompt for test description (Y/n): y  
Prompt for saved results file-name (Y/n): y  
Run all test options (Y/n): y
```

Batch settings saved.

Volvemos a lanzar el test

```
phoronix-test-suite batch-benchmark pts/amg
```

Tras darme un par de errores, me di cuenta de que el comando para lanzar los benchmark era sin el batch (interactive mode [15](#))

```
phoronix-test-suite benchmark pts/amg
```

Me dio un error de que no estaba instalado

```
pts/amg-1.0.1:  
  Test Installation 1 of 1  
  1 File Needed [1.25 MB]  
  Downloading: AMG-20200304.tar.xz [1.25MB]  
  Downloading .....  
  Approximate Install Size: 10 MB  
  Estimated Install Time: 20 Seconds  
  Installing Test @ 16:28:12  
    The installer exited with a non-zero exit status.  
    ERROR: pts/amg-1.0.1/install.sh: line 7: make: command not found  
    Installing the package 'make' might fix this error.  
    LOG: /var/lib/phoronix-test-suite/installed-tests/pts/amg-1.0.1/install-failed.log
```

[PROBLEM] pts/amg-1.0.1 is not installed.

CPU Temperature: 56.00 C	CPU Usage (Summary): 44.12 %	GPU Temperature: 68.00 C
Memory Usage: 7823 MB	System Temperature: 27.8 C	System Uptime 119 M

Lo instalé

```
install pts/amg
```

```
sudo /home/jose
Setting up libcoarrays-dev:amd64 (2.8.0-1) ...
Setting up libcoarrays-openmpi-dev:amd64 (2.8.0-1) ...
Setting up libopenmpi-dev:amd64 (4.0.3-0ubuntu1) ...
update-alternatives: using /usr/lib/x86_64-linux-gnu/openmpi/include to provide /usr/include/x86_
-linu...-gnu/mpi (mpi-x86_64-linux-gnu) in auto mode
Processing triggers for libc-bin (2.31-0ubuntu9) ...
To Install: pts/amg-1.0.1

Determining File Requirements .....
Searching Download Caches .....

1 Test To Install
 10MB Of Disk Space Is Needed
 20 Seconds Estimated Install Time

pts/amg-1.0.1:
Test Installation 1 of 1
1 File Needed [1.25 MB / 1 Minute]
File Found: AMG-20200304.tar.xz [1.25MB]
Approximate Install Size: 10 MB
Estimated Install Time: 20 Seconds
Installing Test @ 16:35:08

CPU Temperature: 51.00 C CPU Usage (Summary): 44.12 % GPU Temperature: 68.00 C
Memory Usage: 7927 MB System Temperature: 27.8 C System Uptime 126 M

Phoronix Test Suite command to run or help for all possible options, commands for a quick overview of options, interactive for a guided experience, system-info to view system hardware/software information, exit to exit. For new users, benchmark is the simplest and most important sub-command. Tab auto-completion support available.
```

```
# phoronix-test-suite
```

Viendo el resultado de mi equipo (HOST)

```

[sudo] password: 
sudo /home/jose
Started Run 3 @ 16:38:24
Started Run 4 @ 16:38:46 *
Started Run 5 @ 16:39:07 *
Started Run 6 @ 16:39:33 *
Started Run 7 @ 16:39:53 *
Started Run 8 @ 16:40:13 *
Started Run 9 @ 16:40:33 *
Started Run 10 @ 16:40:54 *
Started Run 11 @ 16:41:14 *
Started Run 12 @ 16:41:38 *

Test Results:
81963.27
88797.31
90393.8
89561.25
73678.99
99721.53
104402.4
98762.18
94664.78
103019.3
88305.26
99750.87

Average: 92751.75 Figure Of Merit
Deviation: 9.81%
Samples: 12

Result compared to 202 OpenBenchmarking.org samples since 4 March 2020; median result: 28345
ox plot of samples:
[#-----*-----|-----]
^ 2 x Intel Xeon E5620: 7306165

Do you want to view the text results of the testing (Y/n): █

```

```

Do you want to view the text results of the testing (Y/n): Y
ang test
ang test

ang test:
Processor: Intel Core i5-4670K @ 4.00GHz (4 cores), Motherboard: Gigabyte Z97-HD3 (F3 BIOS), Memory: 16GB, Dlisk: 1000GB Western Digital WD10EZEX-60W + 128GB KINGSTON SV300S3 + 1000GB Seagate ST1000DM003-1CH1, Graphics: radeonrnb,
Monitor: M228WDP + VX239
OS: Ubuntu 20.04 LTS, Kernel: 5.8.18-1-MANDARO (x86_64), Compiler: GCC 9.3.0, File-System: overlayfs, Screen Resolution: 1680x1050, System Layer: Docker

Algebraic Multi-Grid Benchmark
Figure Of Merit > Higher Is Better
ang test . 92751.75 |=====

```

```

compare-results-two-way angtest
There must be at least two systems in the result file.

CPU Temperature: 48.00 °C CPU Usage (Summary): 44.12 % GPU Temperature: 67.00 °C Memory Usage: 8334 MB System Temperature: 27.8 °C System Uptime: 169 M
Phoronix Test Suite command to run or help for all possible options, commands for a quick overview of options, interactive for a guided experience, system-info to view system hardware/software information, exit to exit. For new users, benc
mark is the simplest and most important sub-command. Tab auto-completion support available.

```

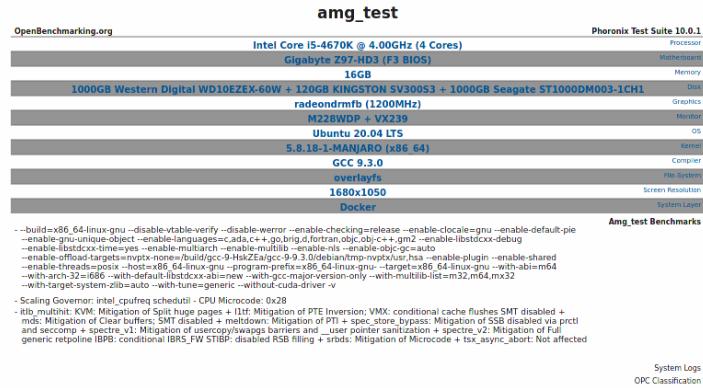
y luego lo lancé otra vez para que lo subiese a openbencharmark y me diese la url para comparar con las otras máquinas.

Statistics

Graph Settings Table

[Refresh Results](#)

Remove Outliers Before Calculating Averages Prefer Vertical Bar Graphs Show Detailed System Result Table



Algebraic Multi-Grid Benchmark

AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. [Learn more via OpenBenchmarking.org test page.](#)



<https://openbenchmarking.org/result/2012031-NE-AMGTEST1331>

Comparando con Ubuntu me daba:

```
phoronix-test-suite benchmark 2012031-NE-AMGTEST1331
//comprar
```

Resultado comparacion https://openbenchmarking.org/result/2012037-FI-2012031NE29&hgv=amg+test%2Camg_test

amg_test	
Processor	Intel Core i5-4670K @ 4.00GHz (4 Cores)
Motherboard	Gigabyte Z97-HD3 (F3 BIOS)
Memory	16GB
Disk	1000GB Western Digital WD10EZEX-60W + 120GB KINGSTON SV300S3 + 1000GB Seagate ST1000DM003-1CH1
Graphics	radeonmmb (1200MHz)
Monitor	M228WDP + VX239
Chipset	
Audio	
Network	
OS	Ubuntu 20.04 LTS
Kernel	5.8.18-1-MANJARO (x86_64)
Compiler	GCC 9.3.0
File-System	overlayfs
Screen Resolution	1680x1050
System Layer	Docker
Compiler Details	--build=x86_64-linux-gnu --disable-vtable-verify --disable-error --enable-checking=release --enable-decide=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++-gm2 --enable-lbstdcxx-debug --enable-lbstdcxx-time=yes --enable-multilib --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --withabi=m64 --with-arch=32 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib=ia32,m64,mx32 --with-target-system=elf-auto --with-tune=generic --without-cuda-driver -v
Processor Details	- amg test: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x28
Security Details	- amg test: itlb multihit: KVM: Mitigation of Split huge pages + Iltf: Mitigation of PTE Inversion: VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers: SMT disabled + meltdown: Mitigation of PTI + Spec Store bypass: Vulnerable + spectre_v1: Mitigation of Full generic retpoline IBPB: conditional IBRS FW STIBP: disabled RSB filling + srbs: Mitigation of Microcode + tsx_async_abort: Not affected - amg test: itlb multihit: KVM: Vulnerable + Iltf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers: SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline STIBP: disabled RSB filling + srbs: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected
OpenBenchmarking.org	

Algebraic Multi-Grid Benchmark

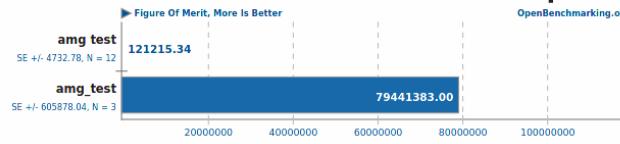
AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. [Learn more via the OpenBenchmarking.org test page.](#)

[Result](#) [Perf Per Core](#) [Perf Per Thread](#) [Result Confidence](#)

Algebraic Multi-Grid Benchmark



OpenBenchmarking.org



y con esta a su vez lanza en Centos y así comparas los tres

st	
Processor	Intel Core i5-4670K @ 4.00GHz (4 Cores)
Motherboard	Gigabyte Z97-HD3 (F3 BIOS)
Memory	16GB
Disk	1000GB Western Digital WD10EZEX-60W + 120GB KINGSTON SV300S3 + 1000GB Seagate ST1000DM003-1CH1
Graphics	radeonmmb (1200MHz)
Monitor	M228WDP + VX239
Chipset	
Audio	
Network	
OS	Ubuntu 20.04 LTS
Kernel	5.8.18-1-MANJARO (x86_64)
Compiler	GCC 9.3.0
File-System	overlayfs
Screen Resolution	1680x1050
System Layer	Docker
Compiler Details	- amg test: build=x86_64-linux-gnu --disable-vtable-verify --disable-error --enable-checking=release --enable-decide=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,objc++-gm2 --enable-lbstdcxx-debug --enable-lbstdcxx-time=yes --enable-multilib --enable-objc-ast= -enable-offload-targets=armv8a,armv8a-neon,armv8a-neon-float,armv8a-neon-float-hardfp,armv8a-neon-float-hardfp-hardfp --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --withabi=m64 --with-arch=32 --with-gcc-major-version-only --with-multilib=ia32,m64,mx32 --with-target-system=elf-auto --with-tune=generic --without-cuda-driver -v
Processor Details	- amg test: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x28
Security Details	- amg test: itlb multihit: KVM: Mitigation of Split huge pages + Iltf: Mitigation of PTE Inversion: VMX: conditional cache flushes SMT disabled + mds: Mitigation of Clear buffers: SMT disabled + meltdown: Mitigation of PTI + Spec Store bypass: Vulnerable + spectre_v1: Mitigation of Full generic retpoline IBPB: conditional IBRS FW STIBP: disabled RSB filling + srbs: Mitigation of Microcode + tsx_async_abort: Not affected - amg test: itlb multihit: KVM: Vulnerable + Iltf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers: SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre_v2: Mitigation of Full generic IBP: disabled RSB filling + srbs: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected - amg test: itlb multihit: KVM: Vulnerable + Iltf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers: SMT Host state unknown + meltdown: Mitigation of PTI + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and _user pointer sanitization + spectre_v2: Mitigation of Full generic SR: disabled RSB filling + srbs: Unknown: Dependent on hypervisor status + tsx_async_abort: Not affected
OpenBenchmarking.org	

Algebraic Multi-Grid Benchmark

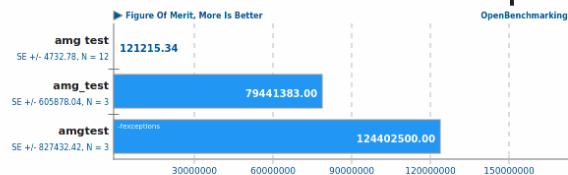
AMG is a parallel algebraic multigrid solver for linear systems arising from problems on unstructured grids. The driver provided with AMG builds linear systems for various 3-dimensional problems. [Learn more via the OpenBenchmarking.org test page.](#)

[Result](#) [Perf Per Core](#) [Perf Per Thread](#) [Result Confidence](#)

Algebraic Multi-Grid Benchmark



OpenBenchmarking.org



1. (CC) gcc options: -fparcsl -fparcsl_mv -fseq_mv -fll_mv -lkrlyov -fHYPRE_utilities -fopenmp -fthread -fmpi

El rendimiento tan bajo con el docker no se si será debido al comentario que sale en la referencia [14](#) donde dice que está en beta-alfa "Consider the current image as an alpha~beta. It will be updated frequently as the rough edges are addressed and other usability work still being addressed.". También es importante añadir que la abstracción de docker en este caso es de phoronix con el SO (Ubuntu 20).

Y con la referencia [16](#) creo que se puede observar el rendimiento más bajo en algunos casos con docker [14](#) ("Docker images running slower than the bare metal host, since Docker is often billed as having nearly native performance especially for I/O. But only with the Clear Linux image was the performance of a Docker image close to that of the bare metal host, because Clear Linux ships with aggressive CFLAGS/CXXFLAGS by defaults and other performance optimizations to make it more competitive out-of-the-box than other distributions"). Importante añadir tambien esta observacion de la misma referencia: "It was great to see all of Clear Linux's performance work carry over into the Docker/container space".

pts/dolfyn

Para asegurarme algunas de estas conclusiones decidí lanzar **pts/dolfyn** y compararlo con Ubuntu y Centos (<https://openbenchmarking.org/result/2012096-NE-2012097FI81>)

```
A [ ] sudo /home/jose
Resolution: 2048x2048, System Layer: Oracle VMware
docker_dolfyn:
Processor: Intel Core i5-4670K @ 4.00GHz (4 Cores), Motherboard: Gigabyte Z97-HD3 (F3 BIOS)
, Memory: 16GB, Disk: 1000GB Western Digital WD10EZEX-60W + 120GB KINGSTON SV300S3 + 1000GB Seagate
ST1000DM003-1CH1, Graphics: radeondrmfb, Monitor: M228WDP + VX239
OS: Ubuntu 20.04 LTS, Kernel: 5.8.18-1-MANJARO (x86_64), Compiler: GCC 9.3.0, File-System:
overlayfs, Screen Resolution: 1680x1050, System Layer: Docker

Dolfyn 0.527
Computational Fluid Dynamics
Seconds < Lower Is Better
dolfyn_ubuntu . 24.22 |=====
dolfyn_centos . 31.40 |=====
docker_dolfyn . 24.66 |=====

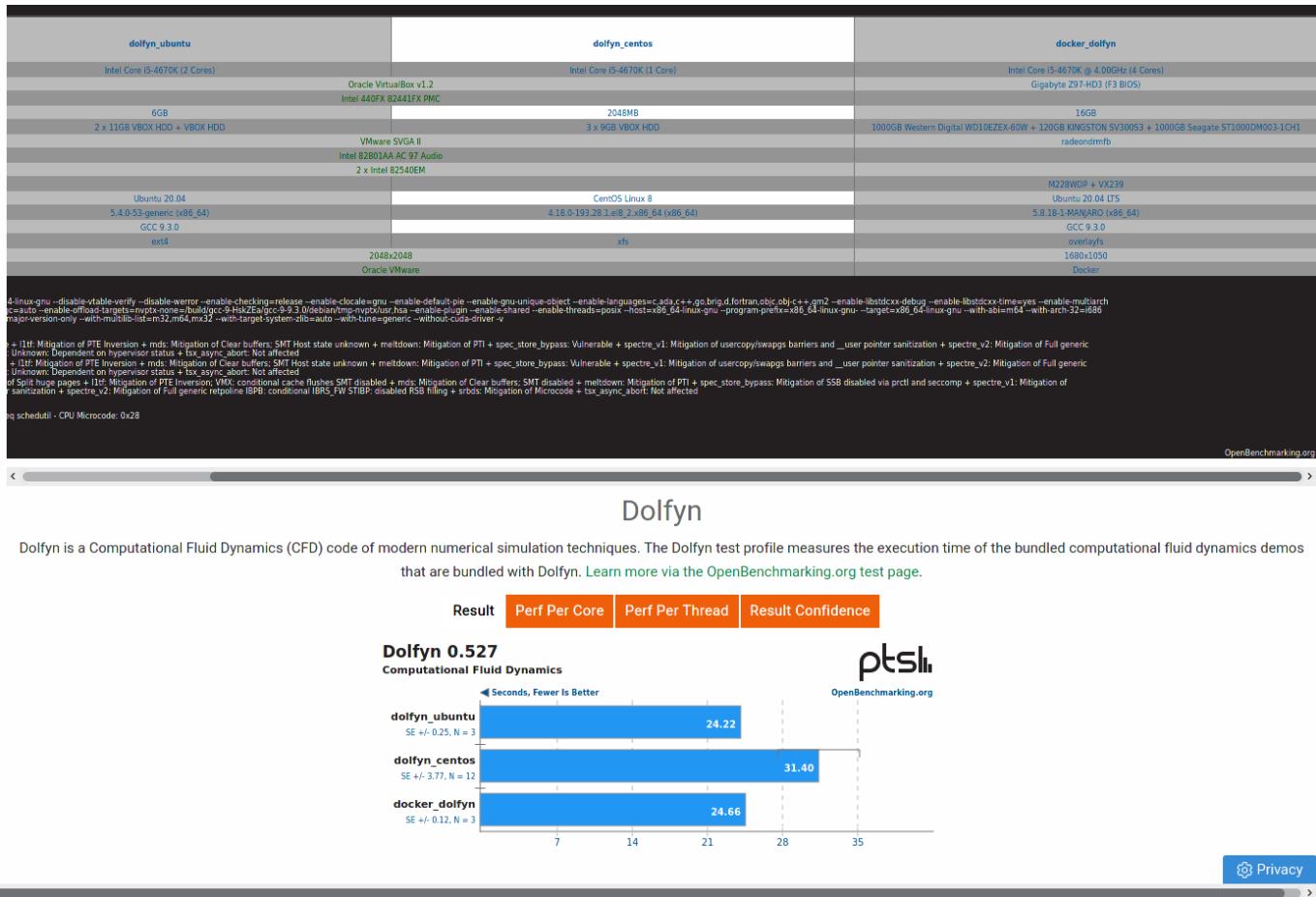
Would you like to upload the results to OpenBenchmarking.org (y/n): y
Would you like to attach the system logs (lspci, dmesg, lsusb, etc) to the test result (y/n): y

Results Uploaded To: https://openbenchmarking.org/result/2012096-NE-2012097FI81

CPU Temperature: 59.00 C CPU Usage (Summary): 57.97 % GPU Temperature: 66.00 C
Memory Usage: 12932 MB System Temperature: 27.8 C System Uptime 83 M

Phoronix Test Suite command to run or help for all possible options, commands for a quick overview
of options, interactive for a guided experience, system-info to view system hardware/software information,
exit to exit. For new users, benchmark is the simplest and most important sub-command. Tab
auto-completion support available.

# phoronix-test-suite [ ]
```

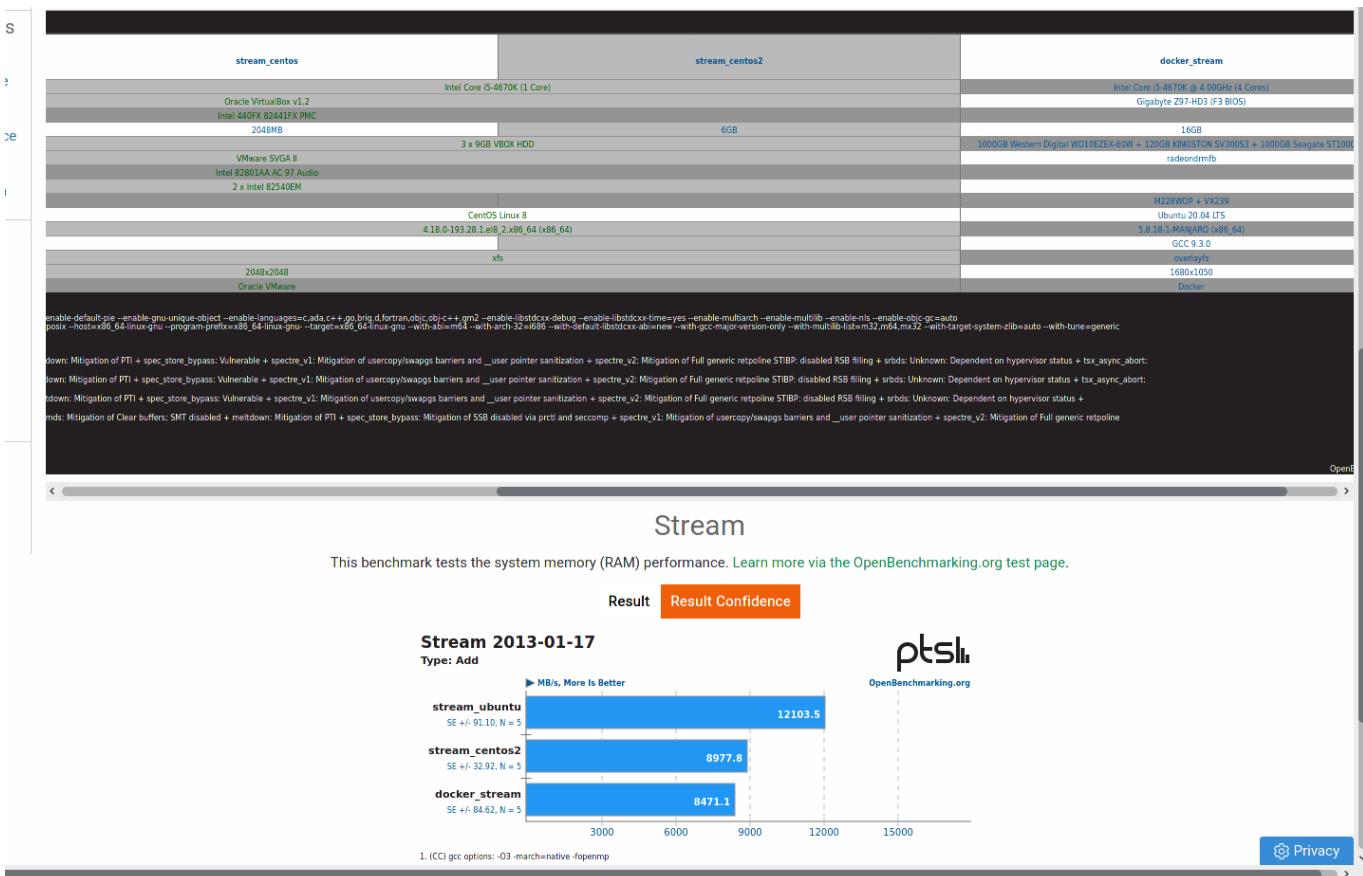


En este caso saca peor rendimiento que Ubuntu (menos es mejor) pero no se queda tan dispar como en el anterior test.

pts/stream

Por último hice la comparación con el test **pts/stream** (memoria) usando el comando de la url <https://openbenchmarking.org/result/2012091-FI-2012098FI90>

```
phoronix-test-suite benchmark 2012091-FI-2012098FI90
```



Y como se puede ver en: <https://openbenchmarking.org/result/2012098-NE-2012091Fl27>, tampoco saca mejor rendimiento que Ubuntu (aqui es importante ver que Docker tiene más GB de ram que los otros dos, quizás por eso saca peor rendimiento que ambos).

Añadir que me di cuenta al final que según el nombre que le des al test, así se muestra en las compraciones de la página de openbenchamrk, entonces en vez de haber puesto amg_test o cosas similares, hubiese sido mejor haberle puesto el nombre de la máquina. ubuntu, docker y centos, sin embargo me di cuenta tarde y ya tenía algunos de esos tests hechos.

Conclusiones

En el mundo del hardware se usa mucho phoronix y cualquier medio de tecnología lo usa para comparar rendimientos como pueden ser los ultimos lanzamientos de GPU de nvidia o los ultimos procesadores ryzen de amd (Zen3). Tal es el caso que viendo notcias de tecnología, vi como hablaban de la peridda de rendimiento de los procesadores de intel y amd tras las vulnerabilidades de spectre [17](#) y como estos datos eran mostrados y ofrecidos por phoronix [18](#) y tras haber realido estas practicas pude comprenderlo todo mucho mejor.

Referencias

- (1):<https://debian-handbook.info/browse/es-ES/stable/sect.manipulating-packages-with-dpkg.html>
- (2):https://wiki.mikejung.biz/Phoronix_Test_Suite
- (3):<https://itsfoss.com/dpkg-returned-an-error-code-1/>
- (4):<https://wiki.debian.org/initramfs>
- (5):<https://www.tecmint.com/install-zip-and-unzip-in-linux/>
- (6):<https://arstechnica.net/phoronix-test-suite/>
- (7):<https://stackoverflow.com/questions/7303745/centos-equivalent-of-dpkg-s>

(8):<http://itecsoftware.com/install-json-php-extension-on-centos-redhat>
(9):<https://openbenchmarking.org/>
(11):<https://openbenchmarking.org/result/2012028-HA-APACHEBEN54>
(12):<https://ostechnix.com/phoronix-test-suite-open-source-testing-benchmarking-tool/>
(13):<https://openbenchmarking.org/result/2012026-FI-ISCSI203298>
(14):<https://www.phoronix.com/scan.php?page=article&item=docker-phoronix-pts&num=1>
(15):<https://smarystreets.com/blog/2015/10/performance-testing-with-phoronix>
(16):<https://www.phoronix.com/scan.php?page=article&item=docker-os-tests&num=2>
(17):<https://elchapuzasinformatico.com/2020/12/los-amd-ryzen-5000-pierden-hasta-un-68-de-rendimiento-con-las-mitigaciones-de-spectre/>
(18):<https://www.phoronix.com/scan.php?page=article&item=zen-3-spectre&num=1>
(19):<https://training.play-with-docker.com/ops-s1-hello/>