# Résumé Journalier

Joffrey Hérard

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# 1 Postulats

**Postulat 1** *Chaque machines virtuelles qu'elle soit engendre d'un Hyperviseur ou d'un service de Conteneurisation seras une machine debian.*

**Postulat 2** *Chaque machines virtuelles Debian qui seras donc cloner, seront considérer identiques.*

**Postulat 3** *Chaque test seras réalise en interne de chaque machine virtualise et conteneurisé.*

**Postulat 4** *Chaque test seras réalise par la suite de test de Phoronix .*

**Postulat 5** *La version de la Debian utilise seras une version 8.7.1 .*

# 2 Phoronix

### 2.0.1 Liste des Tests

Voici une liste exhaustive des test en capacité d'être réalise
Premierement pour les CPU
Deuxiemement pour les GPU
Deuxiemement pour

## 2.1 Configuration de Phoronix

Le fichier de configuration se trouve a cet endroit :
/.phoronix-test-suite/user-config.xml
On doit le configurer avec la commande suivante : 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) : n
Auto upload the results to OpenBenchmarking.org (Y/n) : n
Prompt for test identifier (Y/n) : n
Prompt for test description (Y/n) : n
Prompt for saved results file-name (Y/n) : n

Run all test options (Y/n) : n
Batch settings saved.

Pourquoi cette configuration ? et bien tout simplement pour permettre l'automatisation des test avec la commande suivante :

phoronix-test-suite batch-benchmark <NOM_TEST>

## 2.2 Ensemble des test disponibles

### 2.2.1 Tests sur Disque

Voici la liste des test disponible pour le disque.

1. pts/aio-stress - AIO-Stress Disk
2. pts/blogbench - BlogBench Disk
3. pts/compilebench - Compile Bench Disk
4. pts/dbench - Dbench Disk
5. pts/fio - Flexible IO Tester Disk
6. pts/fs-mark - FS-Mark Disk
7. pts/hdparm-read - hdparm Timed Disk Reads Disk
8. pts/iozone - IOzone Disk
9. pts/postmark - PostMark Disk
10. pts/smart - SMART Disk Self-Report Disk
11. pts/sqlite - SQLite Disk
12. pts/tiobench - Threaded I/O Tester Disk
13. pts/unpack-linux - Unpacking The Linux Kernel Disk

### 2.2.2 Test sur CPU

1. pts/arrayfire - ArrayFire Processor
2. pts/blake2 - BLAKE2 Processor
3. pts/bork - Bork File Encrypter Processor
4. pts/botan - Botan Processor
5. pts/build-apache - Timed Apache Compilation Processor
6. pts/build-boost-interprocess - Timed Boost Interprocess Compilation Processor
7. pts/build-eigen - Timed Eigen Compilation Processor
8. pts/build-firefox - Timed Firefox Compilation Processor
9. pts/build-imagemagick - Timed ImageMagick Compilation Processor
10. pts/build-linux-kernel - Timed Linux Kernel Compilation Processor
11. pts/build-mplayer - Timed MPlayer Compilation Processor
12. pts/build-php - Timed PHP Compilation Processor
13. pts/build-webkitfltk - Timed WebKitFLTK Compilation Processor

14. pts/bullet - Bullet Physics Engine Processor
15. pts/byte - BYTE Unix Benchmark Processor
16. pts/c-ray - C-Ray Processor
17. pts/cachebench - CacheBench Processor
18. pts/clomp - CLOMP Processor
19. pts/compress-7zip - 7-Zip Compression Processor
20. pts/compress-gzip - Gzip Compression Processor
21. pts/compress-lzma - LZMA Compression Processor
22. pts/compress-pbzip2 - Parallel BZIP2 Compression Processor
23. pts/crafty - Crafty Processor
24. pts/dcraw - dcraw Processor
25. pts/dolfyn - Dolfyn Processor
26. pts/ebizzy - ebizzy Processor
27. pts/espeak - eSpeak Speech Engine Processor
28. pts/ffmpeg - FFmpeg Processor
29. pts/ffte - FFTE Processor
30. pts/fftw - FFTW Processor
31. pts/fhourstones - Fhourstones Processor
32. pts/gcrypt - Gcrypt Library Processor
33. pts/gmpbench - GMPbench Processor
34. pts/gnupg - GnuPG Processor
35. pts/go-benchmark - Go Benchmarks Processor
36. pts/gpu-residency - GPU Residency Processor
37. pts/graphics-magick - GraphicsMagick Processor
38. pts/himeno - Himeno Benchmark Processor
39. pts/hmmer - Timed HMMer Search Processor
40. pts/hpcc - HPC Challenge Processor
41. pts/hpcg - High Performance Conjugate Gradient Processor
42. pts/java-scimark2 - Java SciMark Processor
43. pts/jgfxbat - Java Graphics Basic Acceptance Test Processor
44. pts/john-the-ripper - John The Ripper Processor
45. pts/lammps - LAMMPS Molecular Dynamics Simulator Processor
46. pts/mafft - Timed MAFFT Alignment Processor
47. pts/mencoder - Mencoder Processor
48. pts/minion - Minion Processor
49. pts/mrbayes - Timed MrBayes Analysis Processor
50. pts/multichase - Multichase Pointer Chaser Processor
51. pts/n-queens - N-Queens Processor
52. pts/nero2d - Open FMM Nero2D Processor

53. pts/noise-level - NoiseLevel Processor
54. pts/npb - NAS Parallel Benchmarks Processor
55. pts/numpy - Numpy Benchmark Processor
56. pts/open-porous-media - Open Porous Media Processor
57. pts/openssl - OpenSSL Processor
58. pts/opm-git - Open Porous Media Git Processor
59. pts/parboil - Parboil Processor
60. pts/perl-benchmark - Perl Benchmarks Processor
61. pts/polybench-c - PolyBench-C Processor
62. pts/povray - POV-Ray Processor
63. pts/powertop-wakeups - Powertop Wakeups Processor
64. pts/primesieve - Primesieve Processor
65. pts/psstop - PSSTOP Memory test Processor
66. pts/rbenchmark - R Benchmark Processor
67. pts/rodinia - Rodinia Processor
68. pts/sample-program - Sample Pi Program Processor
69. pts/scimark2 - SciMark Processor
70. pts/smallpt - Smallpt Processor
71. pts/stockfish - Stockfish Processor
72. pts/stresscpu2 - StressCPU2 Stress-Test Processor
73. pts/sudokut - Sudokut Processor
74. pts/system-decompress-bzip2 - System BZIP2 Decompression Processor
75. pts/system-decompress-gzip - System GZIP Decompression Processor
76. pts/system-decompress-tiff - System Libtiff Decompression Processor
77. pts/system-decompress-xz - System XZ Decompression Processor
78. pts/system-decompress-zlib - System ZLIB Decompression Processor
79. pts/system-libjpeg - System JPEG Library Decode Processor
80. pts/system-libxml2 - System Libxml2 Parsing Processor
81. pts/systemd-boot-kernel - Systemd Kernel Boot Time Processor
82. pts/systemd-boot-total - Systemd Total Boot Time Processor
83. pts/systemd-boot-userspace - Systemd Userspace Boot Time Processor
84. pts/systester - SysTester Processor
85. pts/tachyon - Tachyon Processor
86. pts/tscp - TSCP Processor
87. pts/ttsiod-renderer - TTSIOD 3D Renderer Processor
88. pts/vpxenc - VP8 libvpx Encoding Processor
89. pts/x264 - x264 Processor
90. pts/x264-opencl - x264 OpenCL Processor
91. system/gnupg - GnuPG Processor

### 2.2.3 Test sur GPU

1. pts/apitest - APITest Graphics
2. pts/apitrace - APITrace Graphics
3. pts/askap - ASKAP tConvolveCuda Graphics
4. pts/bioshock-infinite - BioShock Infinite Graphics
5. pts/cairo-demos - Cairo Performance Demos Graphics
6. pts/cairo-perf-trace - cairo-perf-trace Graphics
7. pts/civbe - Civilization : Beyond Earth Graphics
8. pts/civilization-vi - Civilization VI Graphics
9. pts/cl-mem - cl-mem Graphics
10. pts/coh2 - Company of Heroes 2 Graphics
11. pts/corebreach - CoreBreach Graphics
12. pts/csgo - Counter-Strike : Global Offensive Graphics
13. pts/cstrike - Counter-Strike Source Graphics
14. pts/cuda-mini-nbody - CUDA Mini-Nbody Graphics
15. pts/deus-exmd - Deus Ex : Mankind Divided Graphics
16. pts/dirt-rally - DiRT Rally Graphics
17. pts/dirt-showdown - DiRT Showdown Graphics
18. pts/doom3 - Doom 3 Graphics
19. pts/dota2 - Dota 2 Graphics
20. pts/et - Enemy Territory Graphics
21. pts/etlegacy - ET : Legacy Graphics
22. pts/etqw - ET : Quake Wars Graphics
23. pts/etqw-demo - ET : Quake Wars Demo Graphics
24. pts/etxreal - ETXreaL Graphics
25. pts/f12015 - F1 2015 Graphics
26. pts/financebench - FinanceBench Graphics
27. pts/gfxbench - GFXBench Graphics
28. pts/glmark2 - GLmark2 Graphics
29. pts/gluxmark - gluxMark Graphics
30. pts/gputest - GpuTest Graphics
31. pts/gtkperf - GtkPerf Graphics
32. pts/hitman - HITMAN Graphics
33. pts/hl2lostcoast - Half-Life 2 - Lost Coast Graphics
34. pts/insurgency - Insurgency Graphics
35. pts/j2dbench - Java 2D Microbenchmark Graphics
36. pts/jxrendermark - JXRenderMark Graphics
37. pts/lightsmark - Lightsmark Graphics
38. pts/madmax - Mad Max Graphics

39. pts/metro2033-redux - Metro 2033 Redux Graphics
40. pts/metroll-redux - Metro : Last Light Redux Graphics
41. pts/mixbench - Mixbench Graphics
42. pts/nexuiz - Nexuiz Graphics
43. pts/octanebench - OctaneBench Graphics
44. pts/openarena - OpenArena Graphics
45. pts/padman - World of Padman Graphics
46. pts/portal - Portal Graphics
47. pts/ppracer - Planet Penguin Racer Graphics
48. pts/prey - Prey Graphics
49. pts/qgears2 - QGears2 Graphics
50. pts/quake4 - Quake 4 Graphics
51. pts/qvdpautest - qVDPAUtest Graphics
52. pts/reaction - Reaction Quake 3 Graphics
53. pts/render-bench - Render Bench Graphics
54. pts/sam2017 - Serious Sam Fusion 2017 Graphics
55. pts/shoc - SHOC Scalable HeterOgeneous Computing Graphics
56. pts/smokin-guns - Smokin Guns Graphics
57. pts/specviewperf10 - SPECViewPerf 10.1 Graphics
58. pts/specviewperf9 - SPECViewPerf 9 Graphics
59. pts/supertuxkart - SuperTuxKart Graphics
60. pts/talos-principle - The Talos Principle Graphics
61. pts/tesseract - Tesseract Graphics
62. pts/tf2 - Team Fortress 2 Graphics
63. pts/tomb-raider - Tomb Raider Graphics
64. pts/tremulous - Tremulous Graphics
65. pts/trislam - Triangle Slammer Graphics
66. pts/ue4-atlantis - Atlantis Substance Demo Graphics
67. pts/ue4-elemental - Elemental Demo Graphics
68. pts/ue4-matinee - Matinee Fight Scene Demo Graphics
69. pts/ue4-mountains - Landscape Mountains Demo Graphics
70. pts/unigine-heaven - Unigine Heaven Graphics
71. pts/unigine-sanctuary - Unigine Sanctuary Graphics
72. pts/unigine-tropics - Unigine Tropics Graphics
73. pts/unigine-valley - Unigine Valley Graphics
74. pts/unvanquished - Unvanquished Graphics
75. pts/urbanterror - Urban Terror Graphics
76. pts/ut2004-demo - Unreal Tournament 2004 Demo Graphics
77. pts/vdrift - VDrift Graphics

78. pts/video-cpu-usage - 1080p H.264 Video Playback Graphics

79. pts/viennacl - ViennaCL Graphics

80. pts/warsow - Warsow Graphics

81. pts/x11perf - x11perf Graphics

82. pts/xonotic - Xonotic Graphics

83. pts/xplane9 - X-Plane Graphics

### 2.2.4 Test sur Network

— pts/network-loopback - Loopback TCP Network Performance Network

# Références

[1] GitHub documentation de Phoronix test suite. `https://gist.github.com/anshula/728a76297e4a4ee7688d#the-easy-way`.