



helloSystem 0.8

AMD Ryzen 9 7950X 16-Core testing with a ASUS ROG CROSSHAIR X670E HERO (0805 BIOS) and AMD Radeon RX 6800 XT 16GB on EndeavourOS rolling via the Phoronix Test Suite.

Automated Executive Summary

Fedora Workstation 37 had the most wins, coming in first place for 46% of the tests.

Based on the geometric mean of all complete results, the fastest (Fedora Workstation 37) was 1.5x the speed of the slowest (helloSystem 0.8). EndeavourOS Rolling was 0.773x the speed of Fedora Workstation 37 and helloSystem 0.8 was 0.863x the speed of EndeavourOS Rolling.

The results with the greatest spread from best to worst included:

Zstd Compression (Compression Level: 19 - Compression Speed) at 24.899x

Zstd Compression (Compression Level: 19, Long Mode - Compression Speed) at 12.158x

Zstd Compression (Compression Level: 3 - Compression Speed) at 10.951x

Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 9.203x

Zstd Compression (Compression Level: 3, Long Mode - Compression Speed) at 3.557x

RawTherapee (Total Benchmark Time) at 2.868x

PyPerformance (Benchmark: go) at 2.64x

PyPerformance (Benchmark: raytrace) at 2.63x

PyPerformance (Benchmark: 2to3) at 2.622x

PyPerformance (Benchmark: pickle_pure_python) at 2.514x.

Test Systems:

helloSystem 0.8

Processor: AMD Ryzen 9 7950X 16-Core @ 4.50GHz (32 Cores), Motherboard: ASUS ROG CROSSHAIR X670E HERO, Chipset: AMD [AMD], Memory: 32GB, Disk: Generic NVMe Device, Graphics: AMD Radeon RX 6800/6800 XT / 6900 16GB, Audio: ATI (0xab28) HDA, Monitor: ASUS MG28U

OS: FreeBSD, Kernel: 13.1-RELEASE (x86_64), Display Server: X Server 1.21.1.4, Compiler: Clang 15.0.6, File-System: zfs, Screen Resolution: 3840x2160

Environment Notes: QTWEBENGINE_CHROMIUM_FLAGS="--ignore-gpu-blacklist --enable-gpu-rasterization --enable-native-gpu-buffers"

Java Notes: OpenJDK Runtime Environment (build 11.0.17+8-1)

Python Notes: Python 3.9.16

Fedora Workstation 37

Processor: AMD Ryzen 9 7950X 16-Core @ 4.50GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 2048GB SOLIDIGM SSDPFKKW020X7 + 257GB Flash Drive, Graphics: AMD Radeon RX 6800 XT 16GB (2575/1000MHz), Audio: AMD Navi 21/23, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: Fedora Linux 37, Kernel: 6.1.6-200.fc37.x86_64 (x86_64), Desktop: GNOME Shell 43.2, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 22.3.3 (LLVM 15.0.6 DRM 3.49), Compiler: GCC 12.2.1 20221121, File-System: btrfs, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-libstdcxx-backtrace --enable-link-serialization=1 --enable-multilib --enable-offload-defaulted --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-build-config=bootstrap-lto --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver

Disk Notes: NONE / compress=zstd:1,relatime,rw,seclabel,space_cache=v2,ssd,subvol=/home,subvolid=256 / Block Size: 4096

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa601203

Java Notes: OpenJDK Runtime Environment (Red_Hat-17.0.5.0.8-1.fc37) (build 17.0.5+8)

Python Notes: Python 3.11.1

Security Notes: SELinux + itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSE-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

EndeavourOS Rolling

Processor: AMD Ryzen 9 7950X 16-Core @ 4.50GHz (16 Cores / 32 Threads), Motherboard: ASUS ROG CROSSHAIR X670E HERO (0805 BIOS), Chipset: AMD Device 14d8, Memory: 32GB, Disk: 2048GB SOLIDIGM SSDPFKKW020X7 + 257GB Flash Drive, Graphics: AMD Radeon RX 6800 XT 16GB (2575/1000MHz), Audio: AMD Navi 21/23, Monitor: ASUS MG28U, Network: Intel I225-V + Intel Wi-Fi 6 AX210/AX211/AX411

OS: EndeavourOS rolling, Kernel: 6.1.7-arch1-1 (x86_64), Desktop: KDE Plasma 5.26.5, Display Server: X Server 1.21.1.6, OpenGL: 4.6 Mesa 22.3.3 (LLVM 15.0.7 DRM 3.49), Compiler: GCC 12.2.1 20230111 + Clang 15.0.7,

File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-werror --enable-__cxa_atexit --enable-bootstrap --enable-cet=auto --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++,d --enable-libstdcxx-backtrace --enable-link-serialization=1 --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-build-config=bootstrap-lto --with-linker-hash-style=gnu

Disk Notes: NONE / noatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: acpi-cpufreq schedutil (Boost: Enabled) - CPU Microcode: 0xa601203

Java Notes: OpenJDK Runtime Environment (build 11.0.18+10)

Python Notes: Python 3.10.9

Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: always-on RSB filling PBRSE-IBRS: Not affected + srbds: Not affected + tsx_async_abort: Not affected

| | helloSystem 0.8 | Fedora Workstation | EndeavourOS Rolling |
|--|-----------------|--------------------|---------------------|
| DaCapo Benchmark - H2 (msec) | 3288 | 1970 | 2139 |
| Normalized | 59.91% | 100% | 92.1% |
| Standard Deviation | 20.2% | 6.6% | 2.3% |
| DaCapo Benchmark - Jython (msec) | 2867 | 2298 | 2219 |
| Normalized | 77.4% | 96.56% | 100% |
| Standard Deviation | 15.4% | 1.1% | 1.3% |
| Renaissance - Scala Dotty (ms) | 476.3 | 492.6 | 455.5 |
| Normalized | 95.63% | 92.47% | 100% |
| Standard Deviation | 4.9% | 6.5% | 6.9% |
| Renaissance - Savina Reactors.IO (ms) | 5754 | 3342 | 4085 |
| Normalized | 58.08% | 100% | 81.8% |
| Standard Deviation | 2.2% | 0.6% | 0.5% |
| Renaissance - F.H.R (ms) | 2586 | 2130 | 2302 |
| Normalized | 82.34% | 100% | 92.51% |
| Standard Deviation | 1.8% | 0.4% | 0.9% |
| Renaissance - A.U.C.T (ms) | 12349 | 7960 | 8945 |
| Normalized | 64.46% | 100% | 88.98% |
| Standard Deviation | 2.4% | 1% | 2.3% |
| Renaissance - G.A.U.J.F (ms) | 1400 | 1707 | 1773 |
| Normalized | 100% | 82.02% | 78.95% |
| Standard Deviation | 3.8% | 1% | 2.4% |
| Zstd Compression - 3 - Compression Speed (MB/s) | 6926 | 5609 | 632.4 |
| Normalized | 100% | 80.99% | 9.13% |
| Standard Deviation | 0.4% | 0.7% | 2.1% |
| Zstd Compression - 3 - D.S (MB/s) | 5590 | 5813 | 6183 |
| Normalized | 90.4% | 94.01% | 100% |
| Standard Deviation | 0.1% | 0.8% | 0.7% |
| Zstd Compression - 8 - Compression Speed (MB/s) | 979.6 | 1000 | 32.3 |
| Normalized | 97.93% | 100% | 3.23% |
| Standard Deviation | 3.8% | 4.9% | 13.5% |
| Zstd Compression - 8 - D.S (MB/s) | 5859 | 6186 | 6416 |
| Normalized | 91.32% | 96.42% | 100% |
| Standard Deviation | 0.7% | 1.5% | 1.1% |

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|--|---------------|--------------|---------------|
| Zstd Compression - 19 - Compression Speed | 80.6 | 85.9 | 3.45 |
| (MB/s) | | | |
| Normalized | 93.83% | 100% | 4.02% |
| Standard Deviation | 0.4% | 0.3% | 0.6% |
| Zstd Compression - 19 - D.S (MB/s) | 5090 | 5236 | 5376 |
| Normalized | 94.69% | 97.41% | 100% |
| Standard Deviation | 0.4% | 2.4% | 0.3% |
| Zstd Compression - 3, Long Mode - Compression Speed (MB/s) | 1522 | 1135 | 428.0 |
| Normalized | 100% | 74.58% | 28.11% |
| Standard Deviation | 0.8% | 0.5% | 0.9% |
| Zstd Compression - 3, Long Mode - D.S | 6048 | 6364 | 6563 |
| Normalized | 92.15% | 96.98% | 100% |
| Standard Deviation | 0.7% | 2.8% | 0.6% |
| Zstd Compression - 8, Long Mode - Compression Speed (MB/s) | 1348 | 1210 | 146.5 |
| Normalized | 100% | 89.76% | 10.87% |
| Standard Deviation | 0.6% | 0.8% | 0.4% |
| Zstd Compression - 8, Long Mode - D.S | 6326 | 6562 | 6896 |
| Normalized | 91.73% | 95.16% | 100% |
| Standard Deviation | 1% | 0.1% | 0.4% |
| Zstd Compression - 19, Long Mode - Compression Speed (MB/s) | 47.5 | 52.4 | 4.31 |
| Normalized | 90.65% | 100% | 8.23% |
| Standard Deviation | 2.2% | 1.1% | 0.2% |
| Zstd Compression - 19, Long Mode - D.S (MB/s) | 5231 | 5251 | 5433 |
| Normalized | 96.28% | 96.65% | 100% |
| Standard Deviation | 0.4% | 0.7% | 0.7% |
| Numpy Benchmark (Score) | 841.75 | 881.19 | 968.09 |
| Normalized | 86.95% | 91.02% | 100% |
| Standard Deviation | 0.8% | 0.4% | 0.3% |
| Node.js V8 Web Tooling Benchmark (runs/s) | 19.31 | 20.59 | 20.97 |
| Normalized | 92.08% | 98.19% | 100% |
| Standard Deviation | 4.7% | 1.7% | 1.6% |
| OpenSSL (sign/s) | 6098 | 6107 | 6112 |
| Normalized | 99.76% | 99.91% | 100% |
| Standard Deviation | 0.2% | 0.3% | 0.1% |
| OpenSSL (verify/s) | 396721 | 398794 | 399524 |
| Normalized | 99.3% | 99.82% | 100% |
| Standard Deviation | 0.1% | 0.1% | 0.1% |
| Darktable - Boat - CPU-only (sec) | 2.082 | | |
| Standard Deviation | 2.9% | | |
| Darktable - Masskrug - CPU-only (sec) | 2.361 | | |
| Standard Deviation | 2.3% | | |
| Darktable - Server Rack - CPU-only (sec) | 0.208 | | |
| Standard Deviation | 2.1% | | |
| Darktable - Server Room - CPU-only (sec) | 1.818 | | |
| Standard Deviation | 0.9% | | |
| GEGL - Crop (sec) | 8.452 | 4.553 | 5.010 |
| Normalized | 53.87% | 100% | 90.88% |
| Standard Deviation | 9.4% | 0.7% | 0.4% |
| GEGL - Scale (sec) | 9.329 | 5.054 | 5.167 |
| Normalized | 54.18% | 100% | 97.81% |

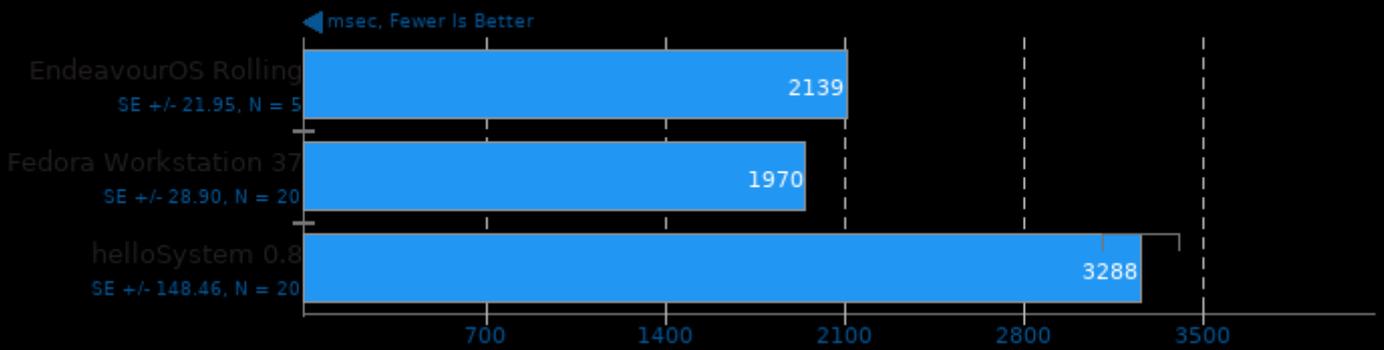
| | | | | |
|---|--------------------|---------------|---------------|---------------|
| | Standard Deviation | 10.7% | 0.5% | 2.1% |
| GEGL - Cartoon (sec) | | 94.311 | 61.127 | 59.805 |
| | Normalized | 63.41% | 97.84% | 100% |
| | Standard Deviation | 1% | 0.3% | 0.5% |
| GEGL - Reflect (sec) | | 21.156 | 19.260 | 20.250 |
| | Normalized | 91.04% | 100% | 95.11% |
| | Standard Deviation | 3.1% | 2.3% | 0.8% |
| GEGL - Antialias (sec) | | 37.075 | 23.406 | 24.240 |
| | Normalized | 63.13% | 100% | 96.56% |
| | Standard Deviation | 1.5% | 0.2% | 0.3% |
| GEGL - Tile Glass (sec) | | 31.275 | 18.315 | 19.478 |
| | Normalized | 58.56% | 100% | 94.03% |
| | Standard Deviation | 4.7% | 0.2% | 0.2% |
| GEGL - Wavelet Blur (sec) | | 57.243 | 37.715 | 38.349 |
| | Normalized | 65.89% | 100% | 98.35% |
| | Standard Deviation | 3.9% | 0.6% | 0.7% |
| GEGL - Color Enhance (sec) | | 37.114 | 31.501 | 32.252 |
| | Normalized | 84.88% | 100% | 97.67% |
| | Standard Deviation | 2.1% | 0.4% | 0.8% |
| GEGL - Rotate 90 Degrees (sec) | | 43.619 | 33.415 | 33.594 |
| | Normalized | 76.61% | 100% | 99.47% |
| | Standard Deviation | 2.7% | 1% | 0.4% |
| Hugin - P.P.A.S.T (sec) | | 63.202 | 28.104 | 27.119 |
| | Normalized | 42.91% | 96.5% | 100% |
| | Standard Deviation | 2.5% | 1.2% | 0.6% |
| Inkscape - SVG Files To PNG (sec) | | 31.691 | 16.977 | 17.904 |
| | Normalized | 53.57% | 100% | 94.82% |
| | Standard Deviation | 1.7% | 0.4% | 0% |
| LibreOffice - 2.D.T.P (sec) | | 5.324 | 3.909 | 3.305 |
| | Normalized | 62.08% | 84.55% | 100% |
| | Standard Deviation | 4.6% | 2.1% | 1.8% |
| OpenSCAD - Pistol (sec) | | 41.534 | 47.675 | 48.907 |
| | Normalized | 100% | 87.12% | 84.92% |
| | Standard Deviation | 3.9% | 1.7% | 1% |
| OpenSCAD - Retro Car (sec) | | 2.066 | 2.112 | 2.164 |
| | Normalized | 100% | 97.82% | 95.47% |
| | Standard Deviation | 2.6% | 2.3% | 0.1% |
| OpenSCAD - Mini-ITX Case (sec) | | 21.870 | 23.198 | 27.639 |
| | Normalized | 100% | 94.28% | 79.13% |
| | Standard Deviation | 7.3% | 1.6% | 0.4% |
| OpenSCAD - L.P.C.S (sec) | | 14.273 | 14.710 | 15.269 |
| | Normalized | 100% | 97.03% | 93.48% |
| | Standard Deviation | 9.5% | 2.3% | 0.8% |
| RawTherapee - T.B.T (sec) | | 95.989 | 33.464 | |
| | Normalized | 34.86% | 100% | |
| | Standard Deviation | 0.8% | 0.1% | |
| Blender - BMW27 - CPU-Only (sec) | | 50.33 | 53.49 | 48.88 |
| | Normalized | 97.12% | 91.38% | 100% |
| | Standard Deviation | 0.1% | 0.3% | 0.4% |
| Blender - Classroom - CPU-Only (sec) | | 100.57 | 108.12 | 95.59 |
| | Normalized | 95.05% | 88.41% | 100% |
| | Standard Deviation | 0.3% | 0.3% | 0.1% |
| Blender - Fishy Cat - CPU-Only (sec) | | 63.85 | 70.35 | 59.39 |
| | Normalized | 93.01% | 84.42% | 100% |
| | Standard Deviation | 0.3% | 0.2% | 0.6% |

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|--|---------------|----------------|---------------|
| Blender - Barbershop - CPU-Only (sec) | 456.83 | 493.82 | 451.16 |
| Normalized | 98.76% | 91.36% | 100% |
| Standard Deviation | 0.3% | 0.3% | 0.1% |
| Blender - Pabellon Barcelona - CPU-Only | 139.68 | 152.49 | 133.27 |
| Normalized | 95.41% | 87.4% | 100% |
| Standard Deviation | 0.3% | 0.3% | 0.3% |
| PyBench - T.F.A.T.T (Milliseconds) | 811 | 644 | 614 |
| Normalized | 75.71% | 95.34% | 100% |
| Standard Deviation | 1.7% | 0.5% | 0.2% |
| PyPerformance - go (Milliseconds) | 240 | 90.9 | 124 |
| Normalized | 37.88% | 100% | 73.31% |
| Standard Deviation | 0.6% | 0.6% | 0.5% |
| PyPerformance - 2to3 (Milliseconds) | 388 | 148 | 163 |
| Normalized | 38.14% | 100% | 90.8% |
| Standard Deviation | 0.9% | 0.4% | 0.4% |
| PyPerformance - chaos (Milliseconds) | 104 | 43.4 | 53.0 |
| Normalized | 41.73% | 100% | 81.89% |
| Standard Deviation | 2.4% | 2.3% | 0.7% |
| PyPerformance - float (Milliseconds) | 111 | 46.2 | 56.3 |
| Normalized | 41.62% | 100% | 82.06% |
| Standard Deviation | 2.4% | 2.4% | 0.3% |
| PyPerformance - nbody (Milliseconds) | 141 | 66.7 | 81.9 |
| Normalized | 47.3% | 100% | 81.44% |
| Standard Deviation | 1.5% | 1.9% | 2.5% |
| PyPerformance - pathlib (Milliseconds) | 16.9 | 9.68 | 9.53 |
| Normalized | 56.39% | 98.45% | 100% |
| Standard Deviation | 2.2% | 0.8% | 0.3% |
| PyPerformance - raytrace (Milliseconds) | 497 | 189 | 253 |
| Normalized | 38.03% | 100% | 74.7% |
| Standard Deviation | 3.5% | 2.2% | 0.2% |
| PyPerformance - json_loads (Milliseconds) | 19.4 | 11.9 | 12 |
| Normalized | 61.34% | 100% | 99.17% |
| Standard Deviation | 2.5% | 0.5% | 0% |
| PyPerformance - crypto_pyaes | 105 | 45.0 | 61.3 |
| Normalized | 42.86% | 100% | 73.41% |
| Standard Deviation | 3.1% | 0.3% | 0.4% |
| PyPerformance - regex_compile | 142 | 72.0 | 79.5 |
| Normalized | 50.7% | 100% | 90.57% |
| Standard Deviation | 2.4% | 0.3% | 0.1% |
| PyPerformance - python_startup | 7.12 | 4.51 | 5.14 |
| Normalized | 63.34% | 100% | 87.74% |
| Standard Deviation | 0.1% | 0% | 0.2% |
| PyPerformance - django_template (Milliseconds) | 46.3 | 21.7 | 24.9 |
| Normalized | 46.87% | 100% | 87.15% |
| Standard Deviation | 2.3% | 1% | 0.2% |
| PyPerformance - pickle_pure_python (Milliseconds) | 455 | 181 | 225 |
| Normalized | 39.78% | 100% | 80.44% |
| Standard Deviation | 3.3% | 0.6% | 0.3% |
| PHPBench - P.B.S (Score) | 718400 | 1223393 | 982381 |
| Normalized | 58.72% | 100% | 80.3% |
| Standard Deviation | 2.5% | 1.2% | 0.1% |
| Git - T.T.C.C.G.C (sec) | 35.960 | 31.675 | 31.206 |
| Normalized | 86.78% | 98.52% | 100% |

| | | | |
|---|------|--------------|--------------|
| Standard Deviation | 0.6% | 2.1% | 0.4% |
| SQLite - T.S.I (sec) | | 12.023 | |
| Standard Deviation | | 0.4% | |
| Darktable - Boat - CPU-only (sec) | | 2.333 | 2.284 |
| Normalized | | 96.66% | 98.73% |
| Standard Deviation | | 2.4% | 0.6% |
| Darktable - Masskrug - CPU-only (sec) | | 2.678 | 2.480 |
| Normalized | | 92.42% | 99.8% |
| Standard Deviation | | 0.2% | 0.7% |
| Darktable - Server Rack - CPU-only (sec) | | 0.153 | 0.161 |
| Normalized | | 100% | 95.03% |
| Standard Deviation | | 1.5% | 0.7% |
| Darktable - Server Room - CPU-only (sec) | | 2.332 | 2.194 |
| Normalized | | 93.78% | 99.68% |
| Standard Deviation | | 0.5% | 0.6% |
| SQLite - T.S.I (sec) | | | 7.000 |
| Normalized | | | 100% |
| Standard Deviation | | | 0.2% |

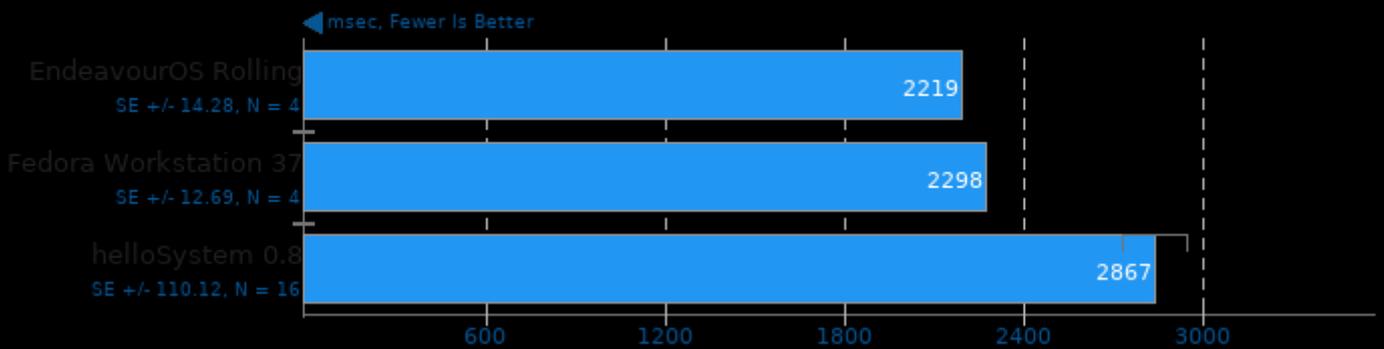
DaCapo Benchmark 9.12-MR1

Java Test: H2



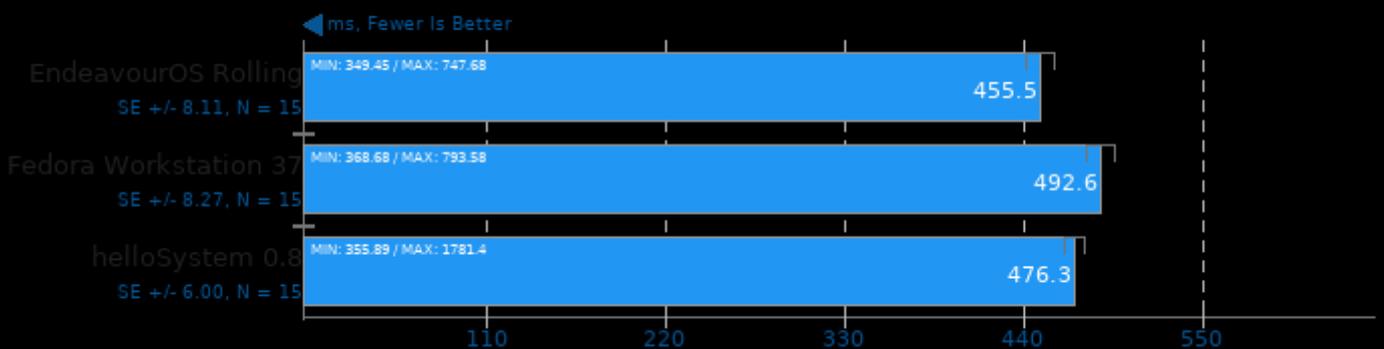
DaCapo Benchmark 9.12-MR1

Java Test: jython



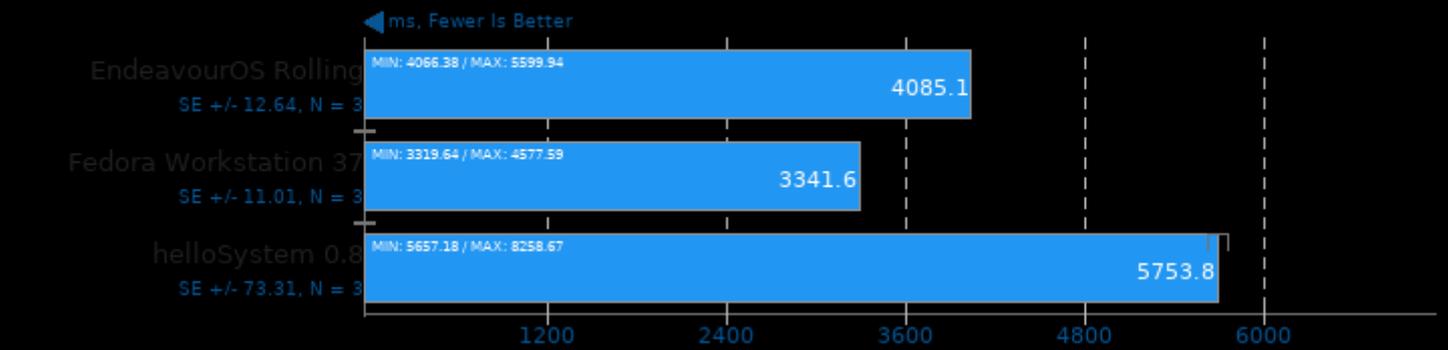
Renaissance 0.14

Test: Scala Dotty



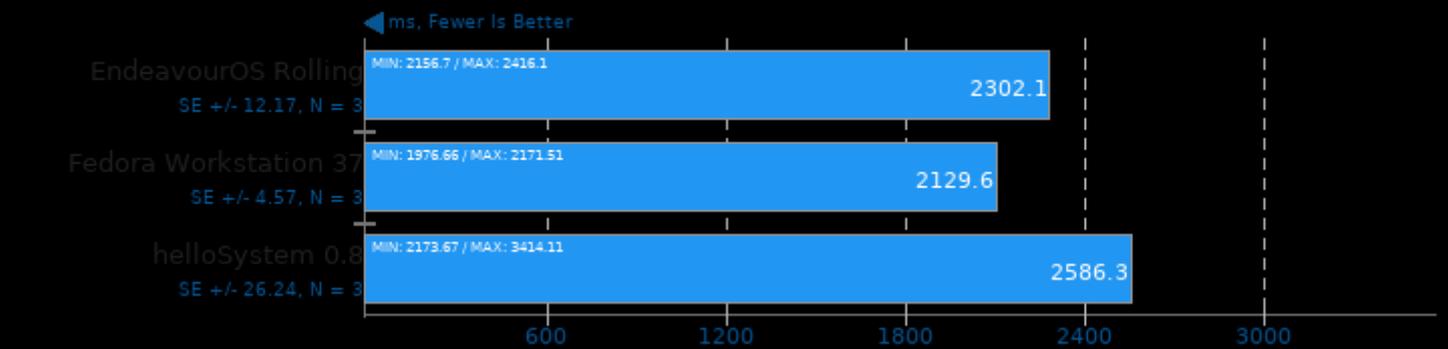
Renaissance 0.14

Test: Savina Reactors.IO



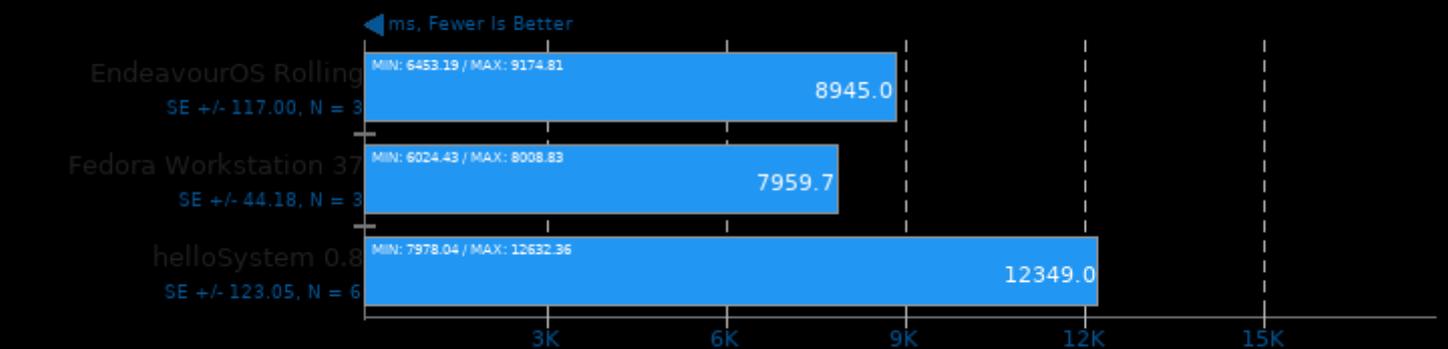
Renaissance 0.14

Test: Finagle HTTP Requests



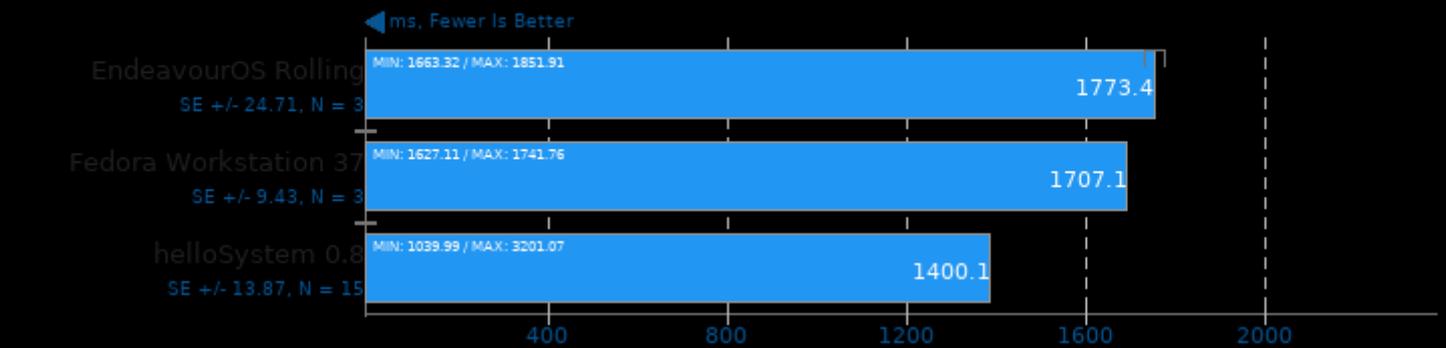
Renaissance 0.14

Test: Akka Unbalanced Cobwebbed Tree



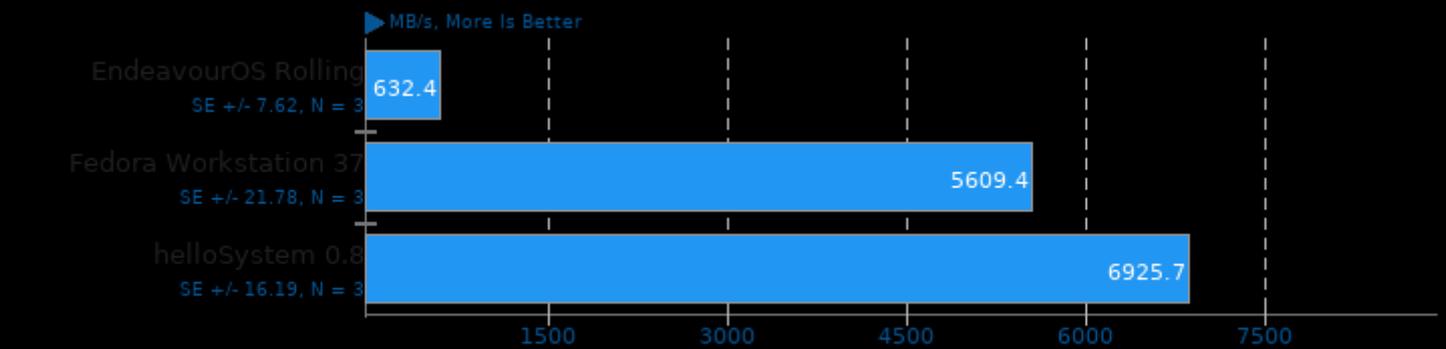
Renaissance 0.14

Test: Genetic Algorithm Using Jenetics + Futures



Zstd Compression

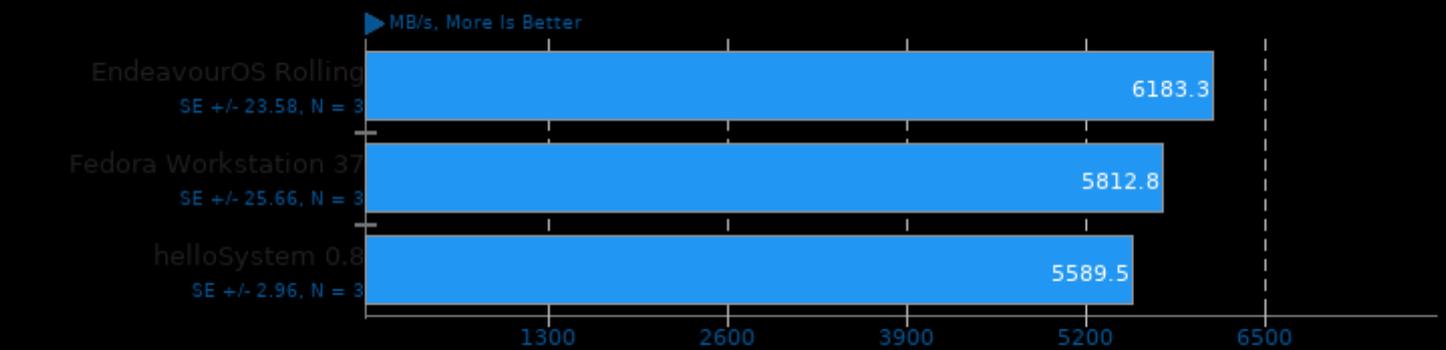
Compression Level: 3 - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

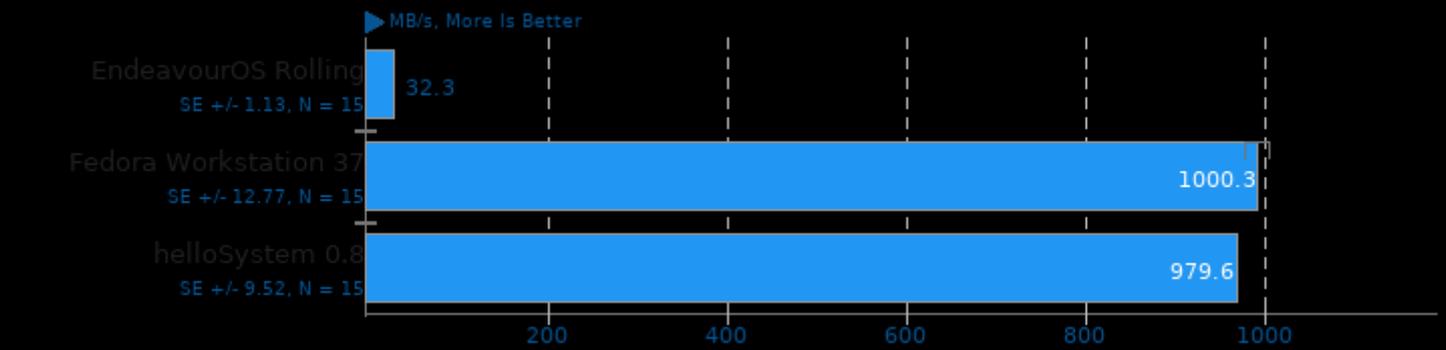
Compression Level: 3 - Decompression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

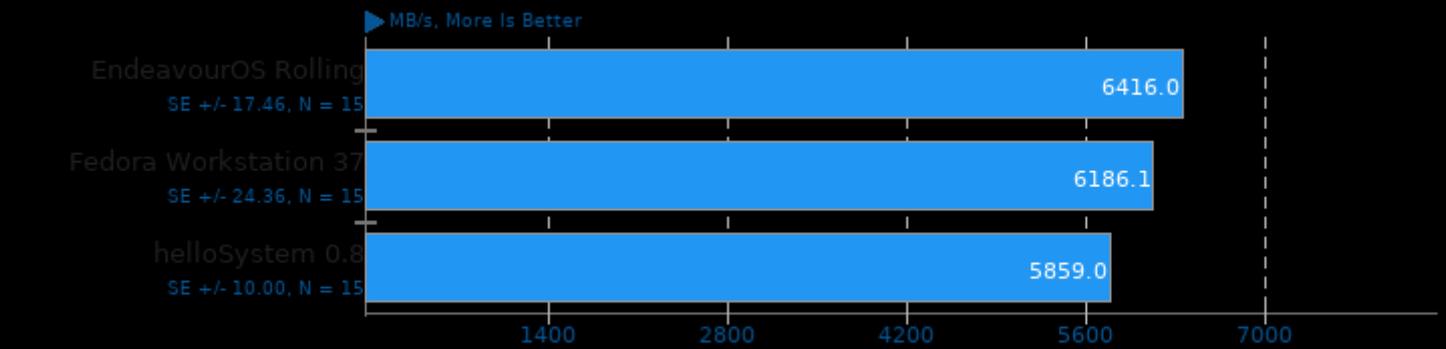
Compression Level: 8 - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

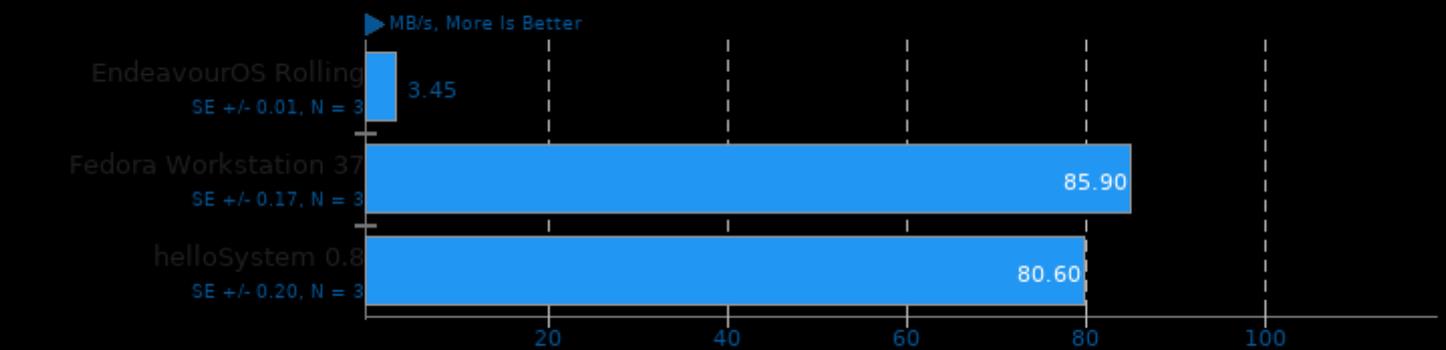
Compression Level: 8 - Decompression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

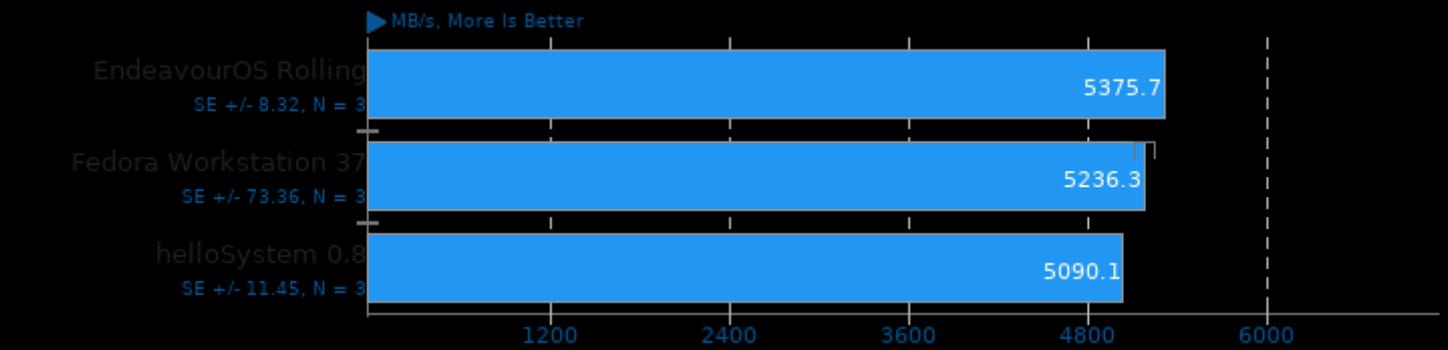
Compression Level: 19 - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

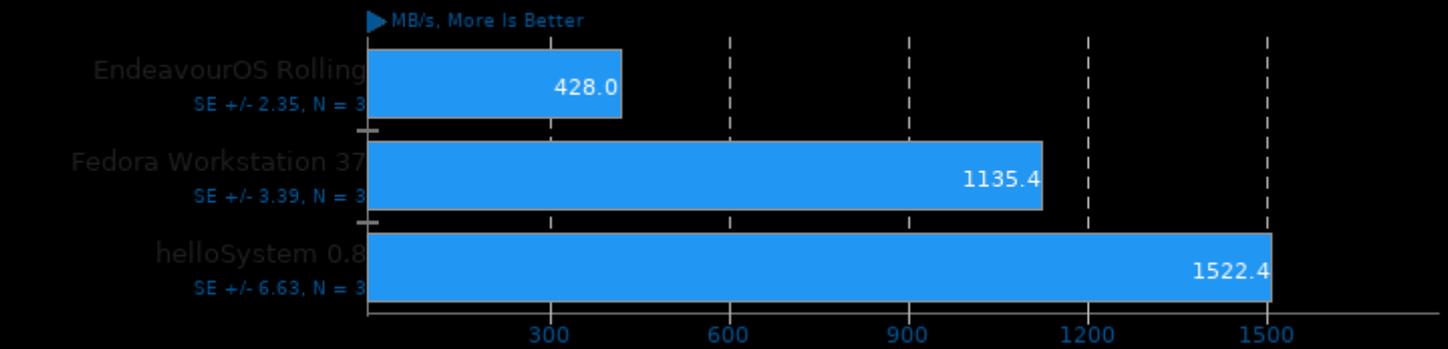
Compression Level: 19 - Decompression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

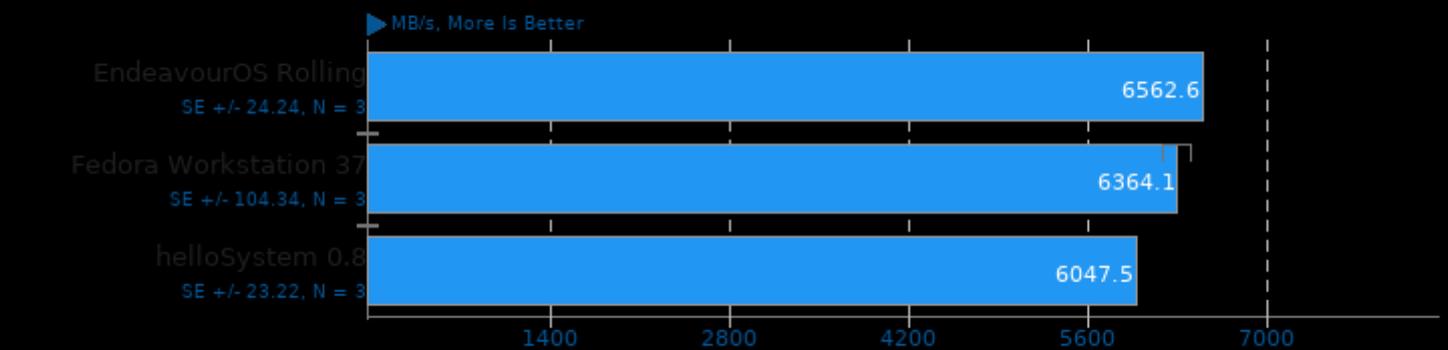
Compression Level: 3, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

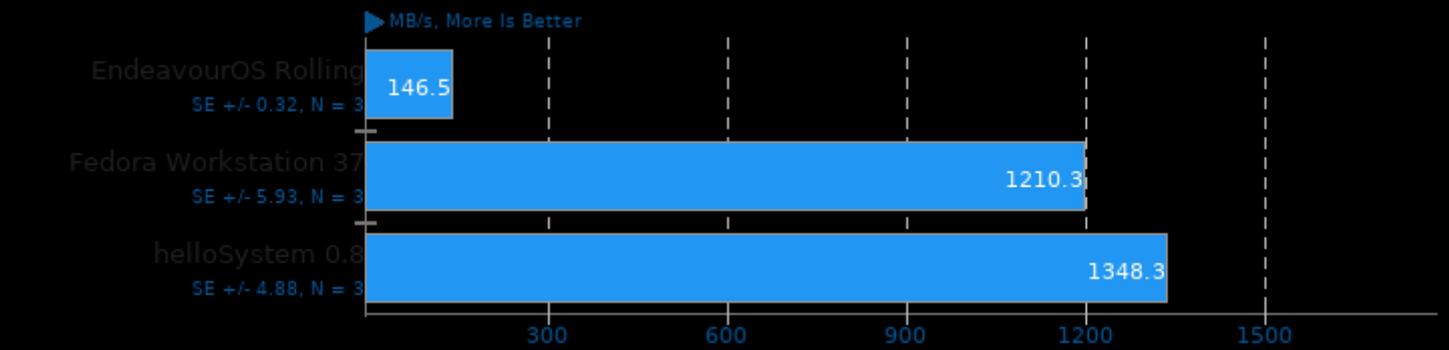
Compression Level: 3, Long Mode - Decompression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

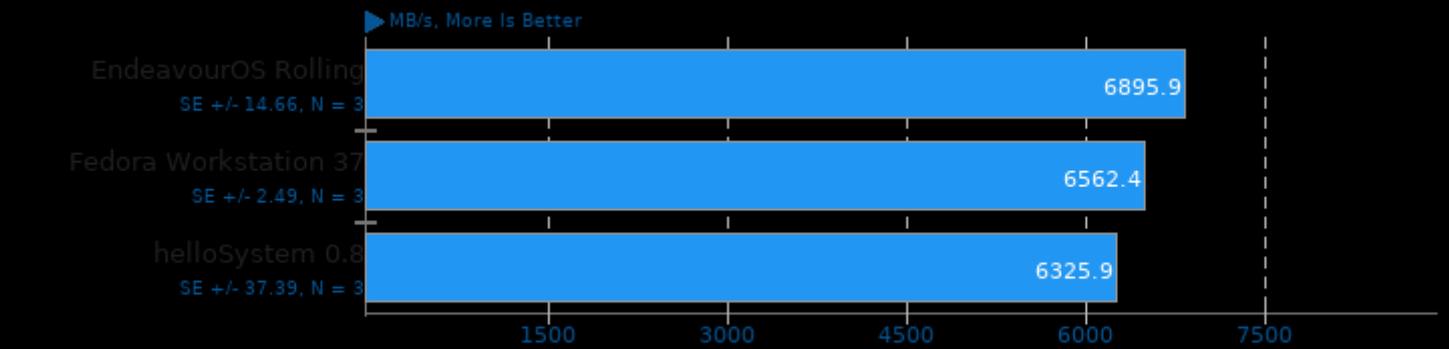
Compression Level: 8, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

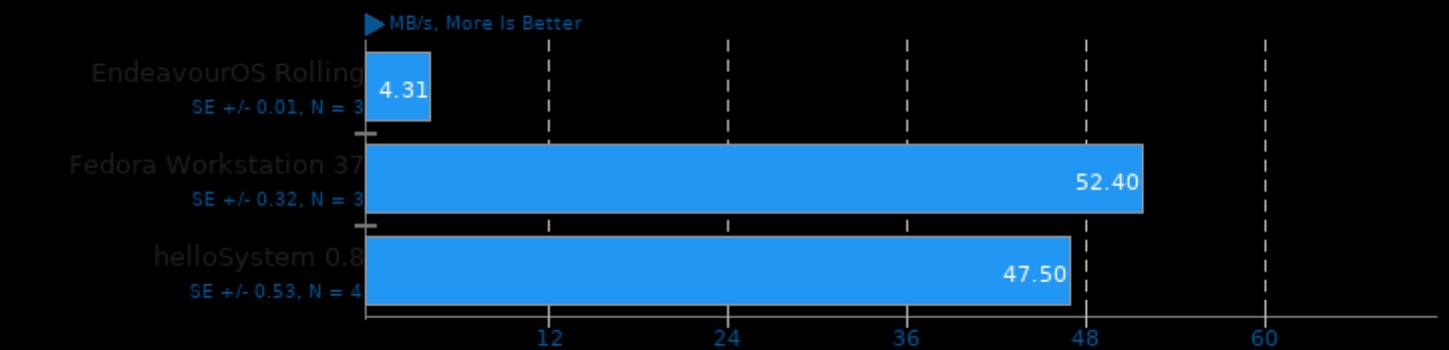
Compression Level: 8, Long Mode - Decompression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

Zstd Compression

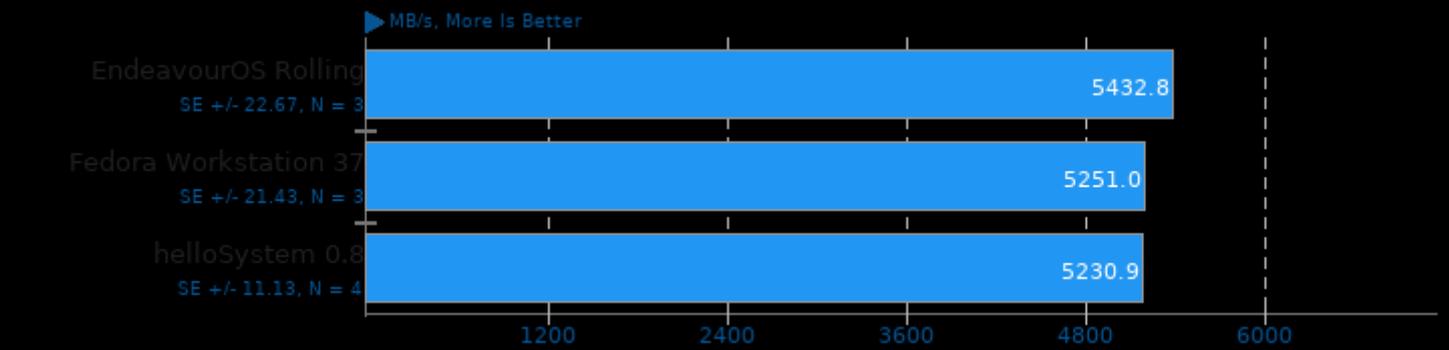
Compression Level: 19, Long Mode - Compression Speed



1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

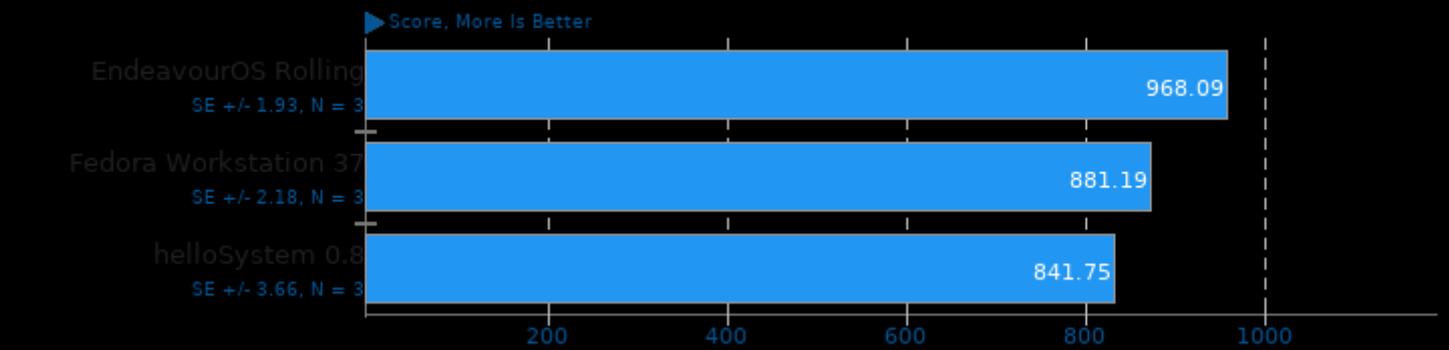
Zstd Compression

Compression Level: 19, Long Mode - Decompression Speed

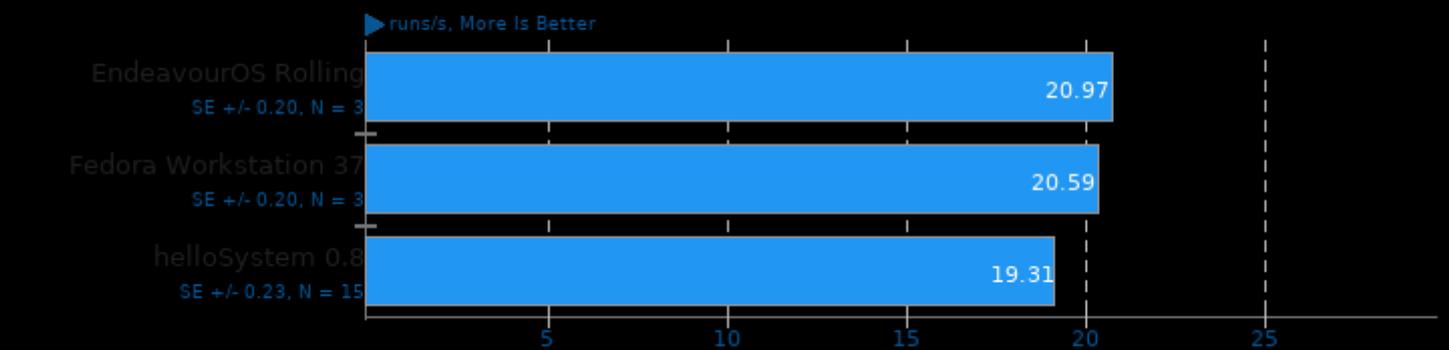


1. *** zstd command line interface 64-bits v1.5.2, by Yann Collet ***

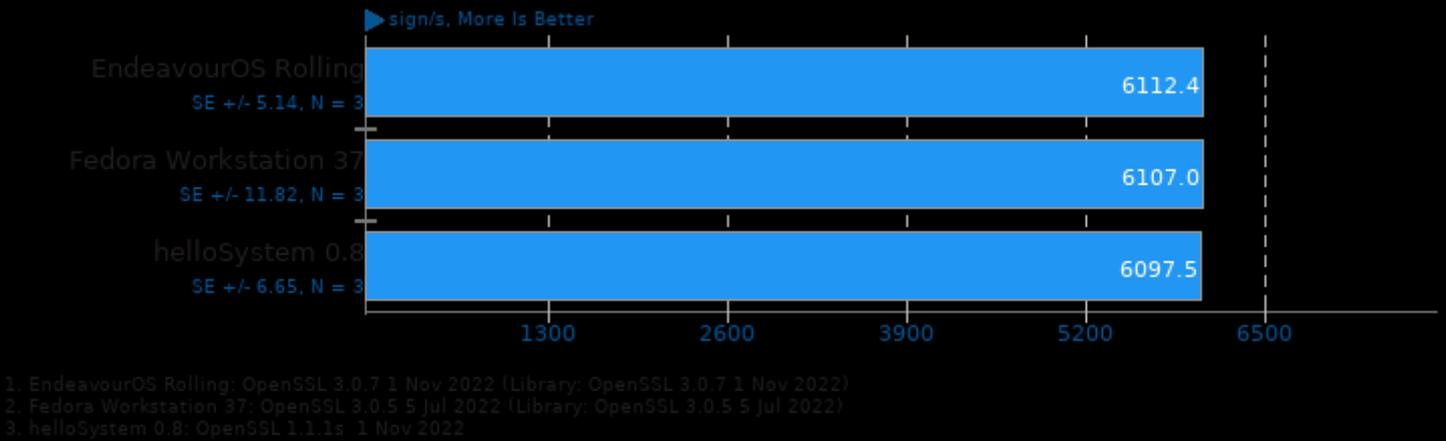
Numpy Benchmark



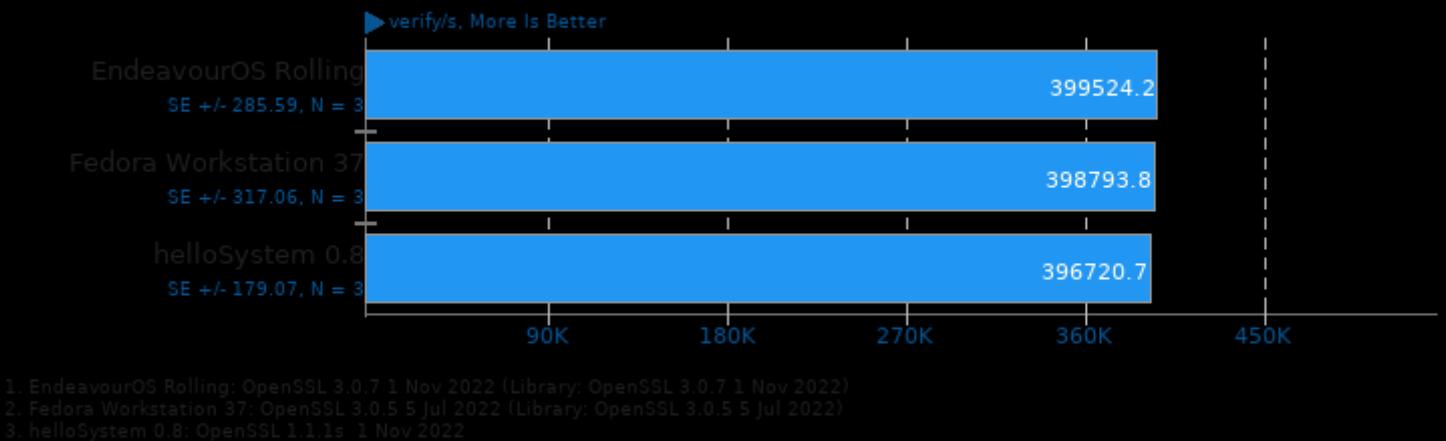
Node.js V8 Web Tooling Benchmark



OpenSSL

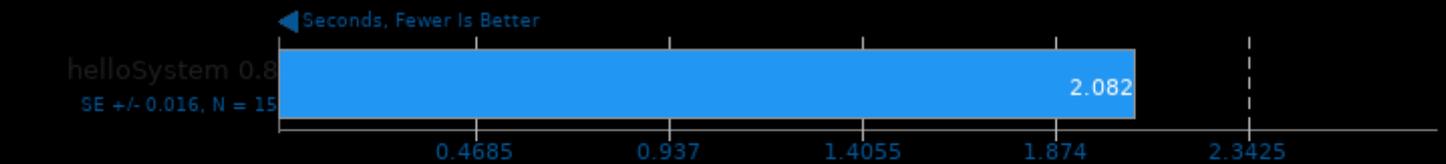


OpenSSL



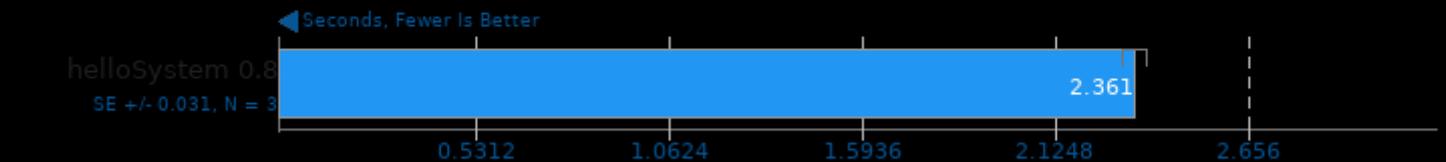
Darktable 4.0.1

Test: Boat - Acceleration: CPU-only



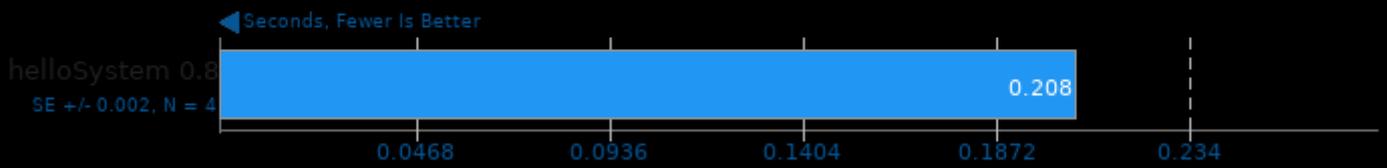
Darktable 4.0.1

Test: Masskrug - Acceleration: CPU-only



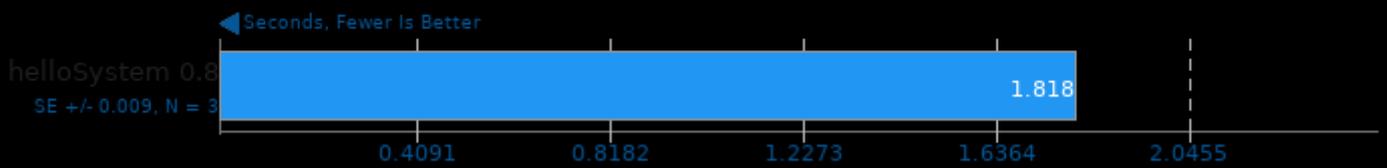
Darktable 4.0.1

Test: Server Rack - Acceleration: CPU-only



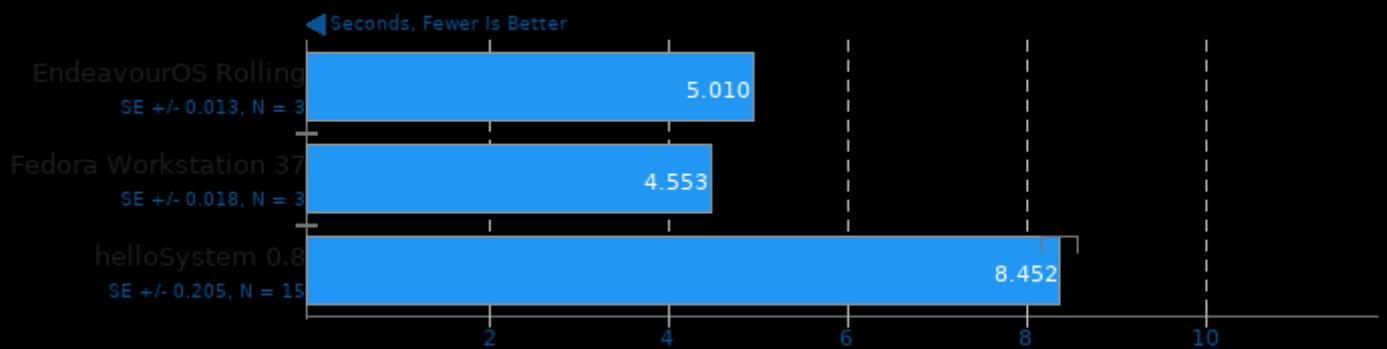
Darktable 4.0.1

Test: Server Room - Acceleration: CPU-only



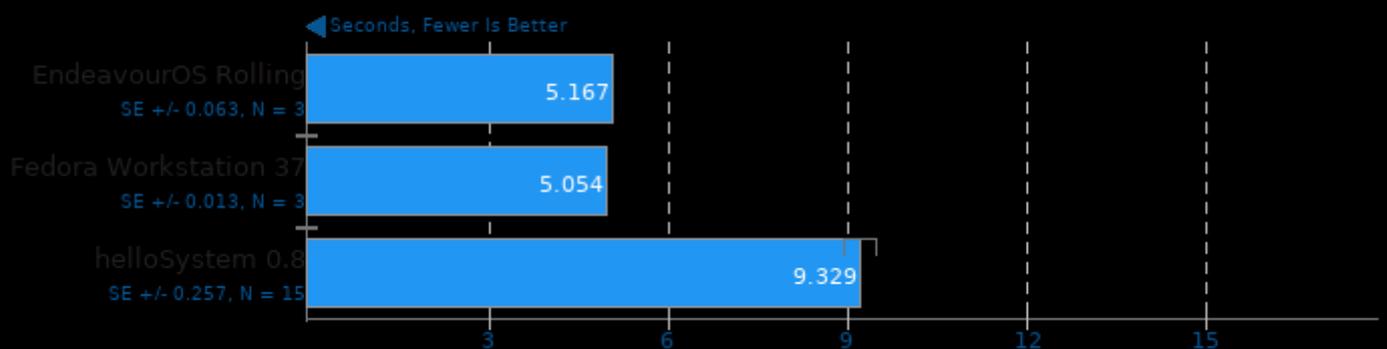
GEGL

Operation: Crop



GEGL

Operation: Scale



GEGL

Operation: Cartoon

← Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.18, N = 3

59.81

Fedora Workstation 37

SE +/- 0.10, N = 3

61.13

helloSystem 0.8

SE +/- 0.55, N = 3

94.31

20 40 60 80 100

GEGL

Operation: Reflect

← Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.09, N = 3

20.25

Fedora Workstation 37

SE +/- 0.22, N = 4

19.26

helloSystem 0.8

SE +/- 0.17, N = 15

21.16

5 10 15 20 25

GEGL

Operation: Antialias

← Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.05, N = 3

24.24

Fedora Workstation 37

SE +/- 0.03, N = 3

23.41

helloSystem 0.8

SE +/- 0.31, N = 3

37.08

9 18 27 36 45

GEGL

Operation: Tile Glass

Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.03, N = 3

19.48

Fedora Workstation 37

SE +/- 0.02, N = 3

18.32

helloSystem 0.8

SE +/- 0.38, N = 15

31.28

7

14

21

28

35

GEGL

Operation: Wavelet Blur

Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.15, N = 3

38.35

Fedora Workstation 37

SE +/- 0.12, N = 3

37.72

helloSystem 0.8

SE +/- 0.58, N = 15

57.24

13

26

39

52

65

GEGL

Operation: Color Enhance

Seconds, Fewer Is Better

EndeavourOS Rolling

SE +/- 0.14, N = 3

32.25

Fedora Workstation 37

SE +/- 0.07, N = 3

31.50

helloSystem 0.8

SE +/- 0.39, N = 4

37.11

9

18

27

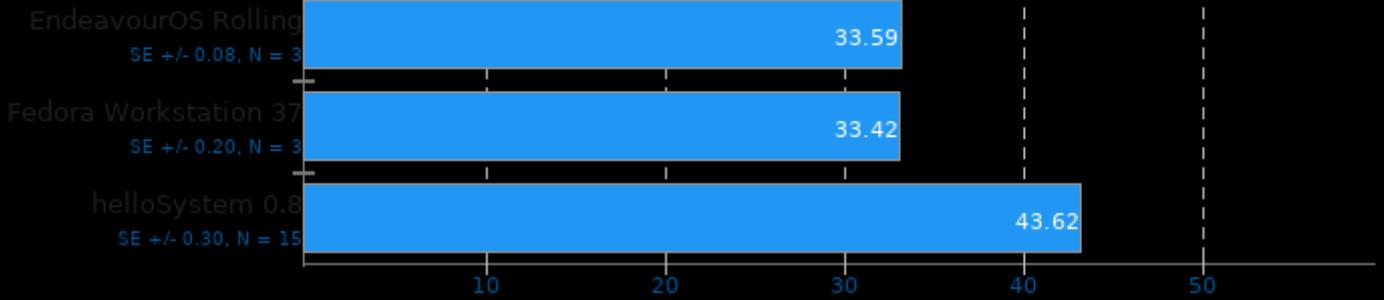
36

45

GEGL

Operation: Rotate 90 Degrees

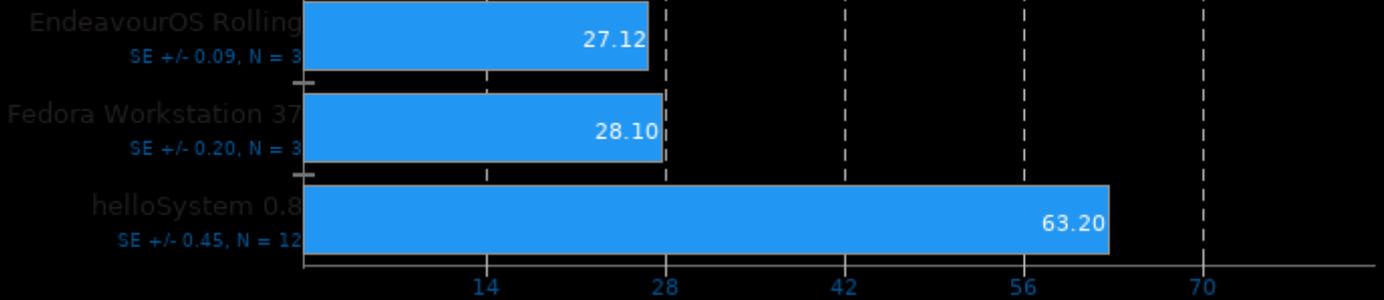
◀ Seconds, Fewer Is Better



Hugin

Panorama Photo Assistant + Stitching Time

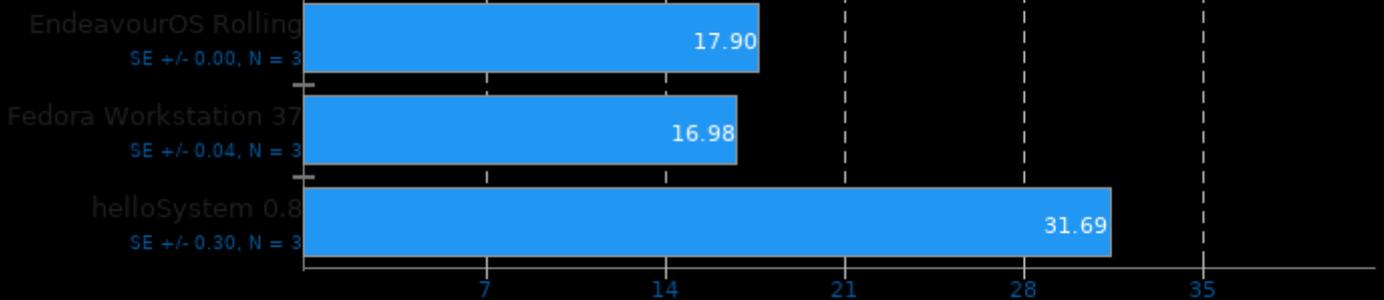
◀ Seconds, Fewer Is Better



Inkscape

Operation: SVG Files To PNG

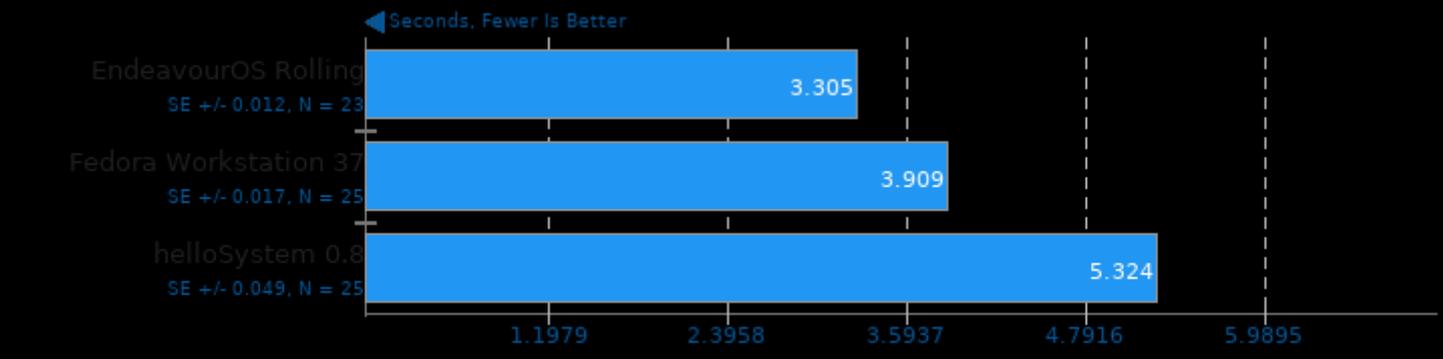
◀ Seconds, Fewer Is Better



1. Inkscape 1.2.2 (b0a8486541, 2022-12-01)

LibreOffice

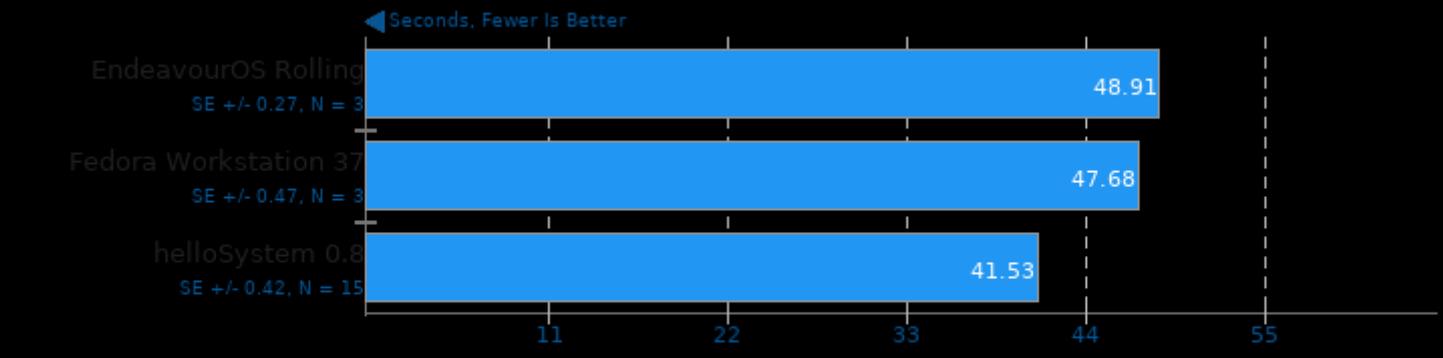
Test: 20 Documents To PDF



- 1. EndeavourOS Rolling: LibreOffice 7.4.4.2 40(Build:2)
- 2. Fedora Workstation 37: LibreOffice 7.4.3.2 40(Build:2)
- 3. helloSystem 0.8: LibreOffice 7.4.4.2 40(Build:2)

OpenSCAD

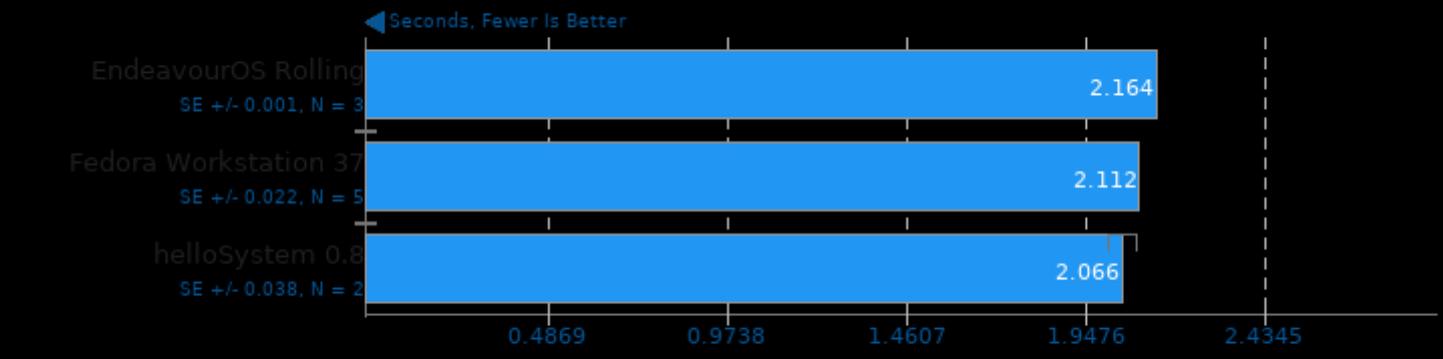
Render: Pistol



- 1. EndeavourOS Rolling: OpenSCAD version 2021.01
- 2. Fedora Workstation 37: OpenSCAD version 2021.01
- 3. helloSystem 0.8: OpenSCAD version 2023.01.17

OpenSCAD

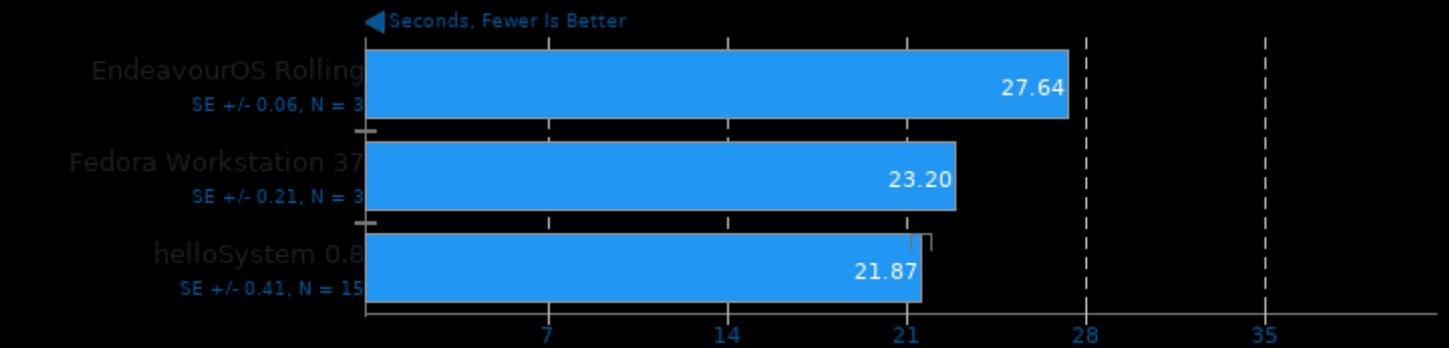
Render: Retro Car



- 1. EndeavourOS Rolling: OpenSCAD version 2021.01
- 2. Fedora Workstation 37: OpenSCAD version 2021.01
- 3. helloSystem 0.8: OpenSCAD version 2023.01.17

OpenSCAD

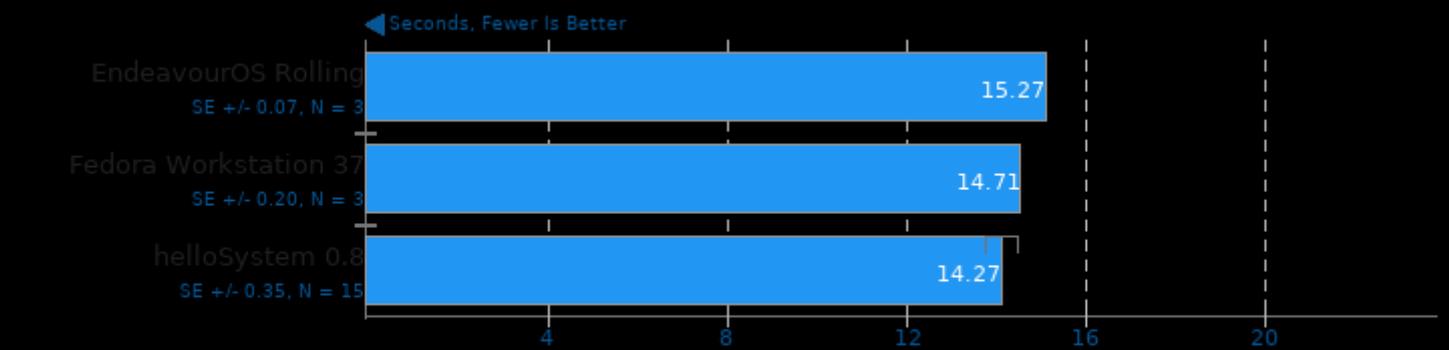
Render: Mini-ITX Case



- 1. EndeavourOS Rolling: OpenSCAD version 2021.01
- 2. Fedora Workstation 37: OpenSCAD version 2021.01
- 3. helloSystem 0.8: OpenSCAD version 2023.01.17

OpenSCAD

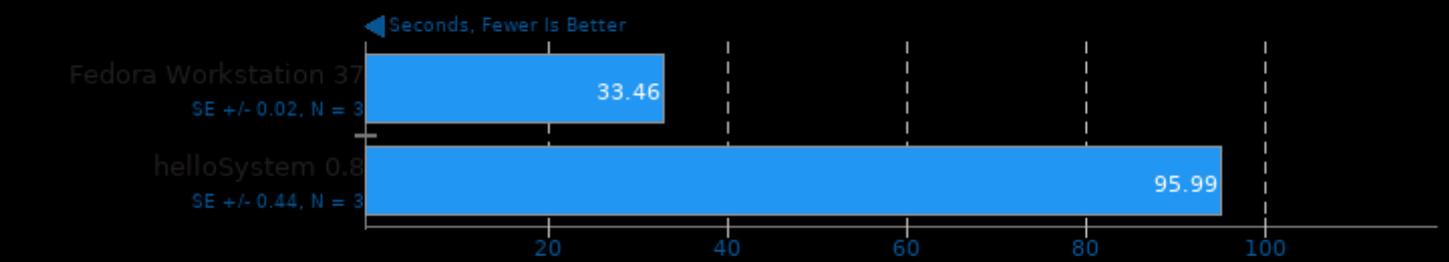
Render: Leonardo Phone Case Slim



- 1. EndeavourOS Rolling: OpenSCAD version 2021.01
- 2. Fedora Workstation 37: OpenSCAD version 2021.01
- 3. helloSystem 0.8: OpenSCAD version 2023.01.17

RawTherapee

Total Benchmark Time

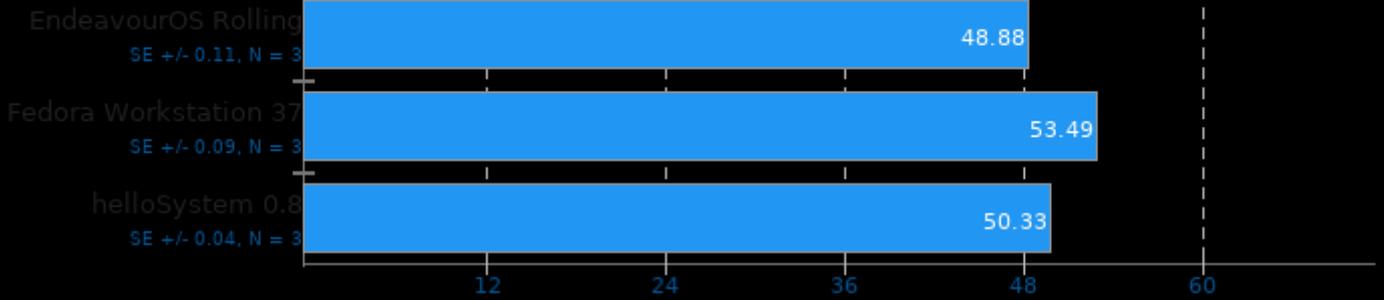


- 1. RawTherapee, version 5.9, command line.

Blender 3.4.1

Blend File: BMW27 - Compute: CPU-Only

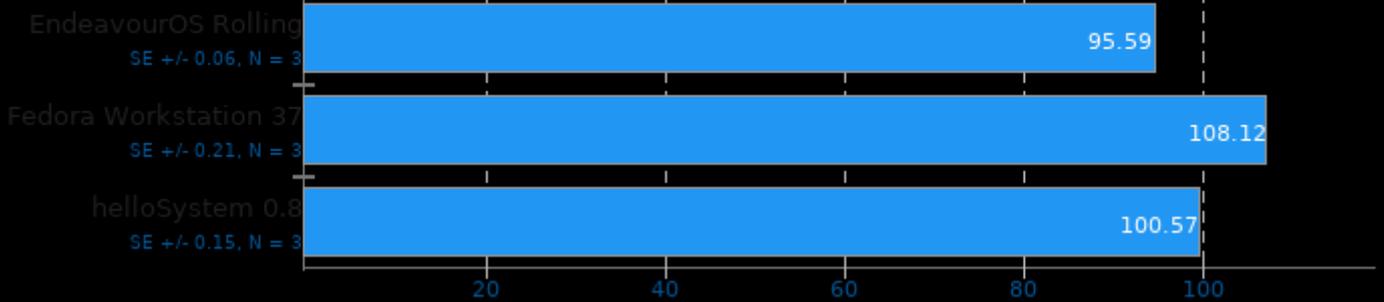
◀ Seconds, Fewer Is Better



Blender 3.4.1

Blend File: Classroom - Compute: CPU-Only

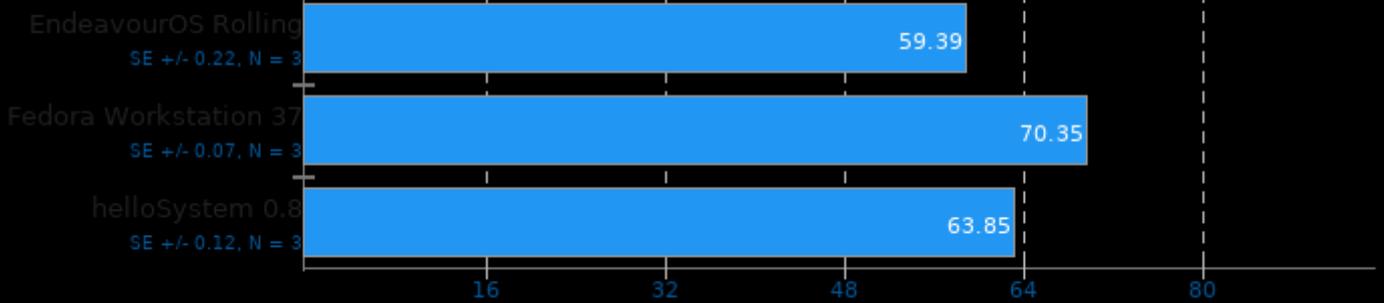
◀ Seconds, Fewer Is Better



Blender 3.4.1

Blend File: Fishy Cat - Compute: CPU-Only

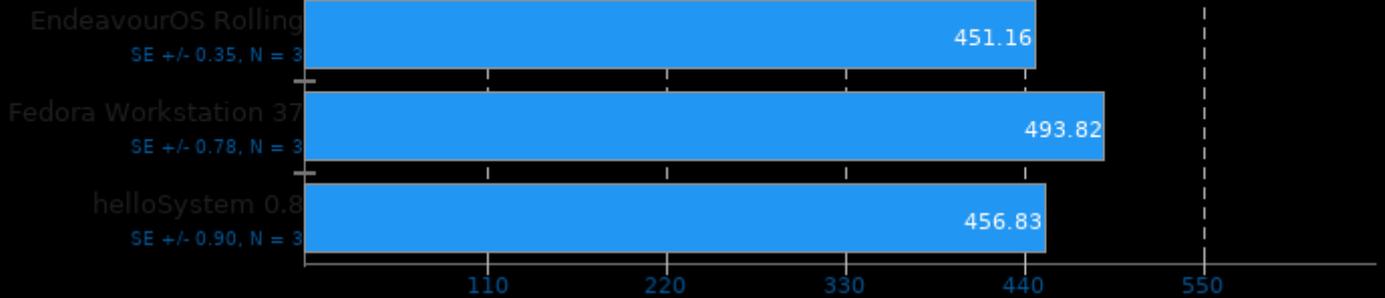
◀ Seconds, Fewer Is Better



Blender 3.4.1

Blend File: Barbershop - Compute: CPU-Only

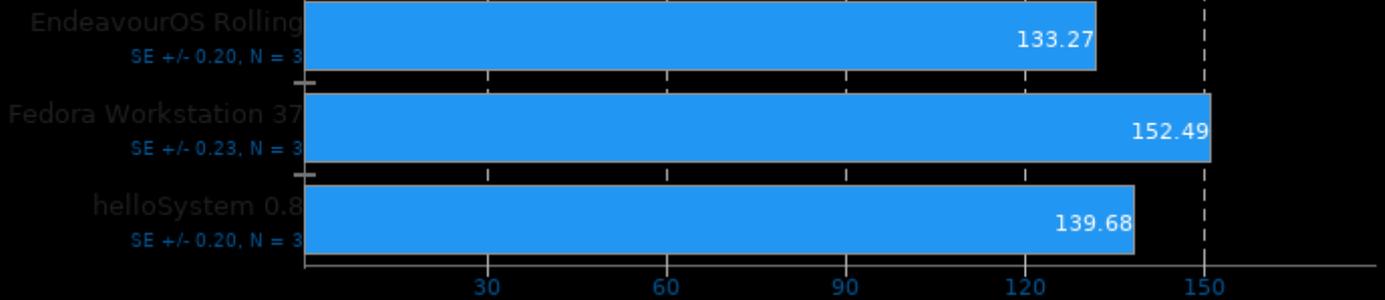
← Seconds, Fewer Is Better



Blender 3.4.1

Blend File: Pabellon Barcelona - Compute: CPU-Only

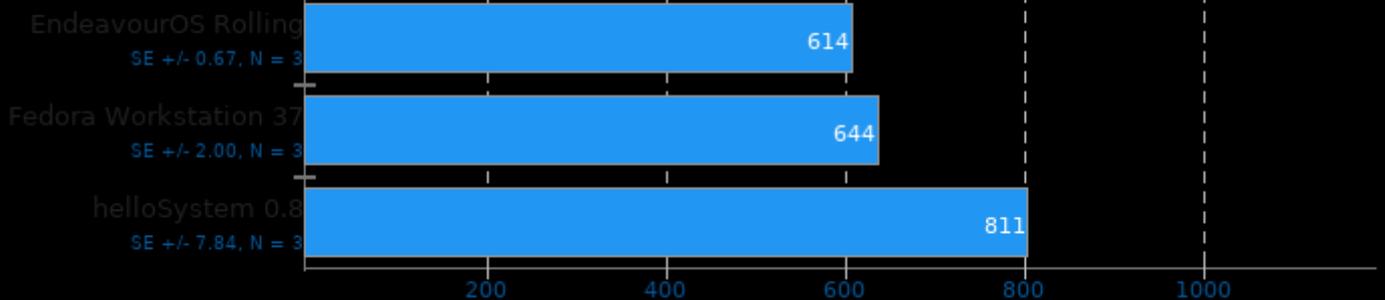
← Seconds, Fewer Is Better



PyBench 2018-02-16

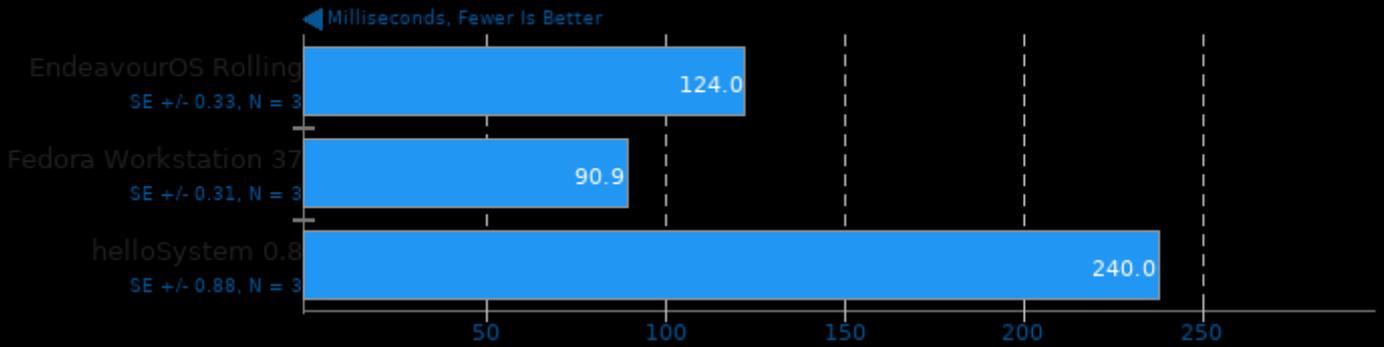
Total For Average Test Times

← Milliseconds, Fewer Is Better



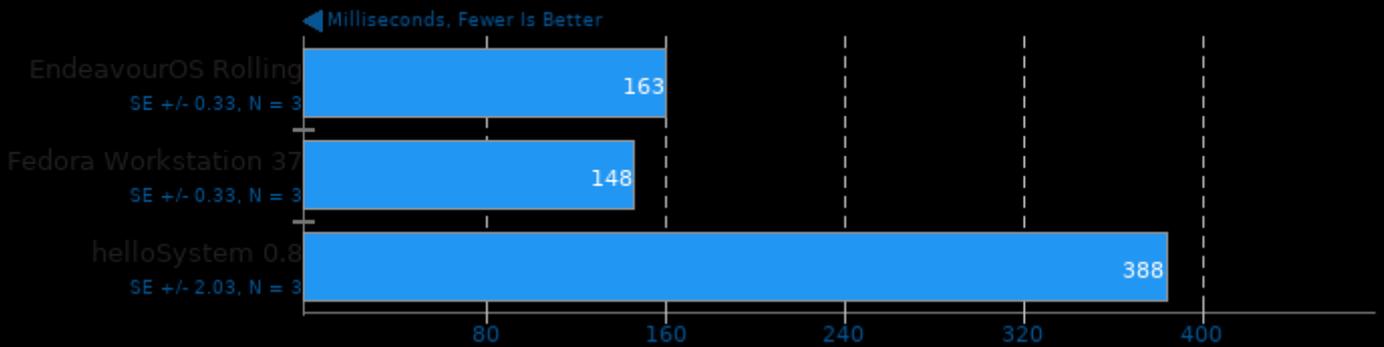
PyPerformance 1.0.0

Benchmark: go



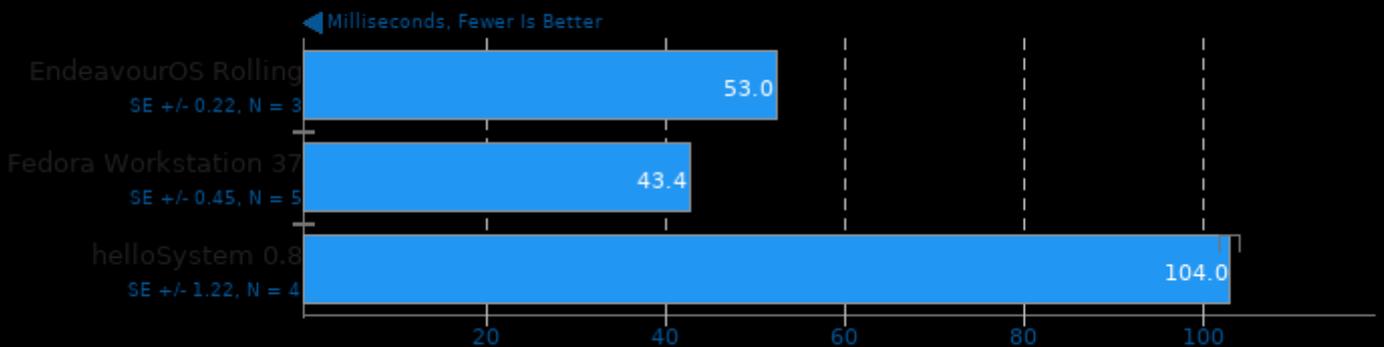
PyPerformance 1.0.0

Benchmark: 2to3



PyPerformance 1.0.0

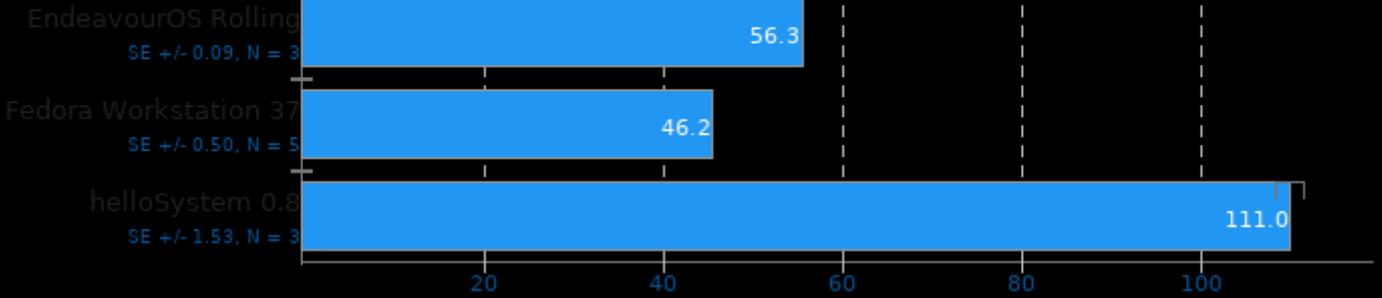
Benchmark: chaos



PyPerformance 1.0.0

Benchmark: float

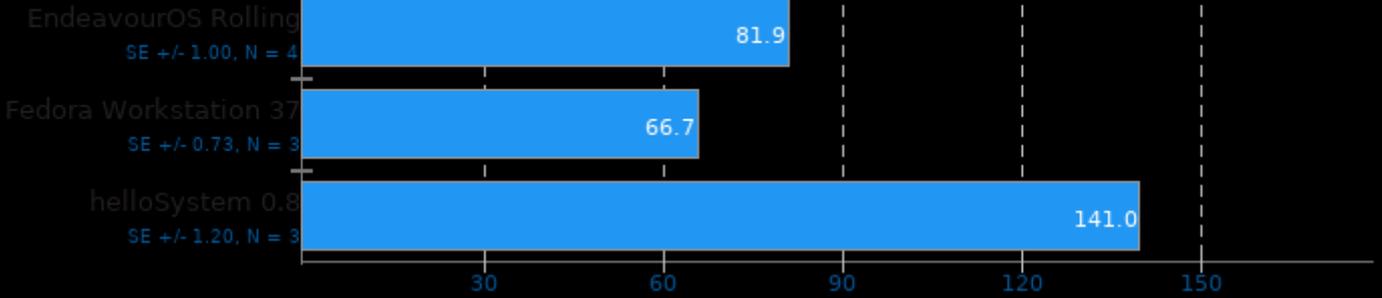
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: nbody

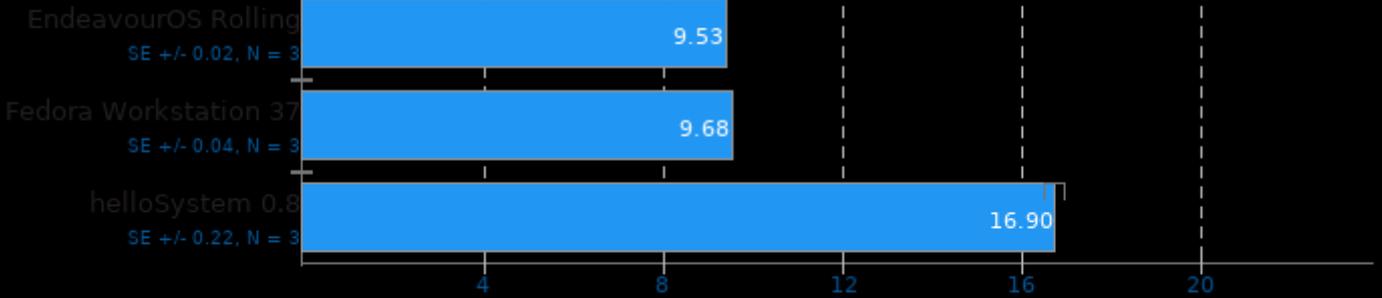
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: pathlib

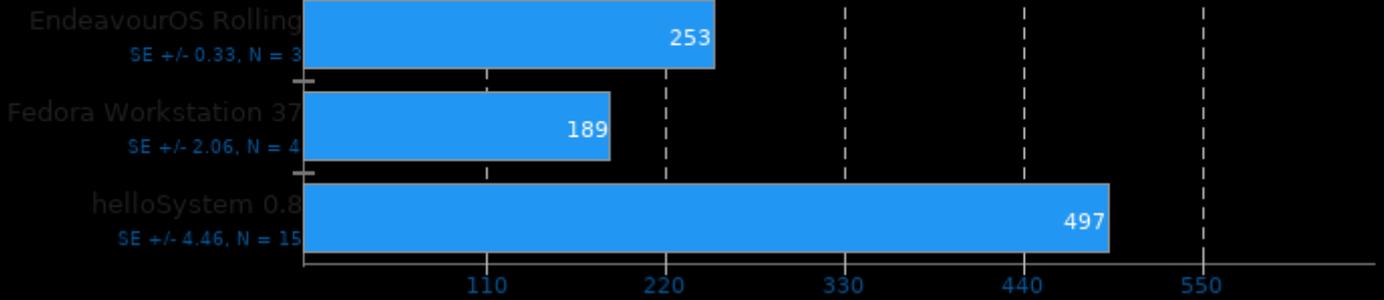
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: raytrace

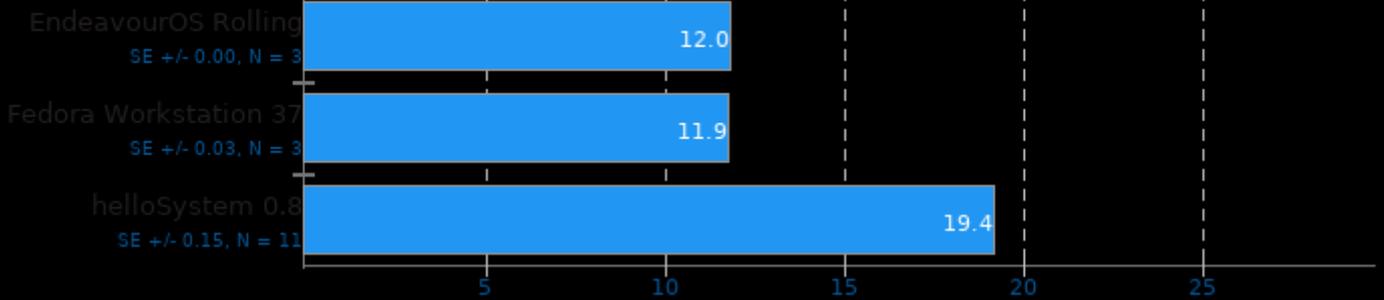
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: json_loads

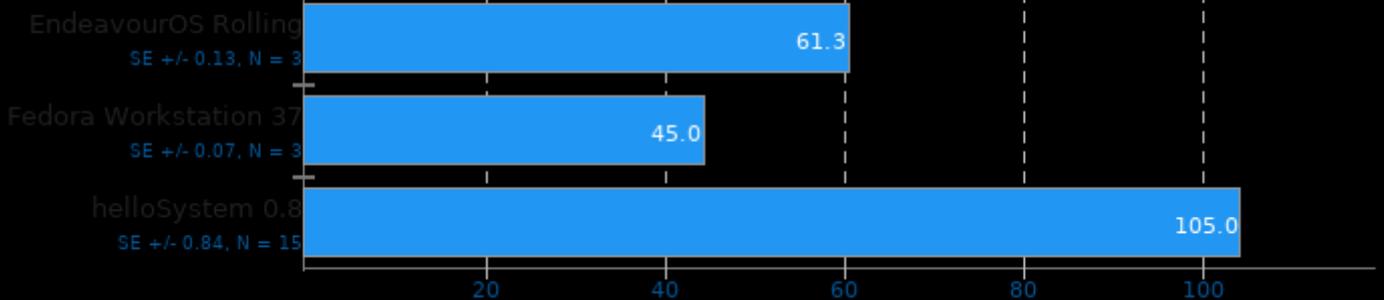
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: crypto_pyaes

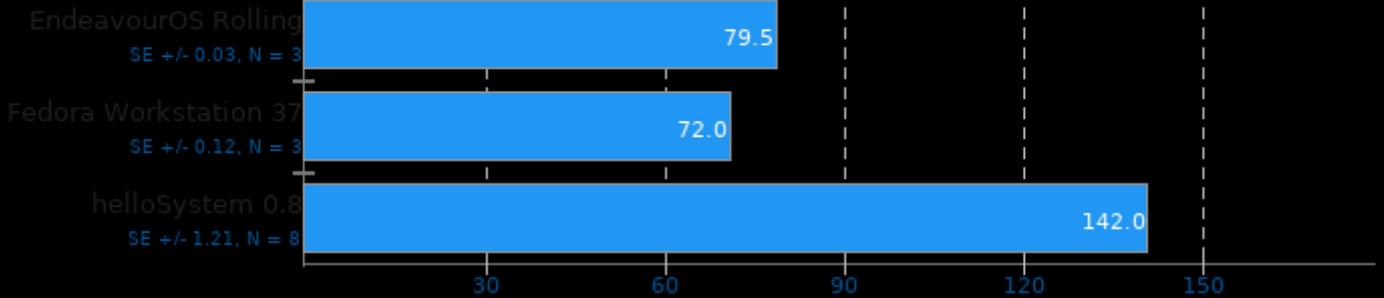
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: regex_compile

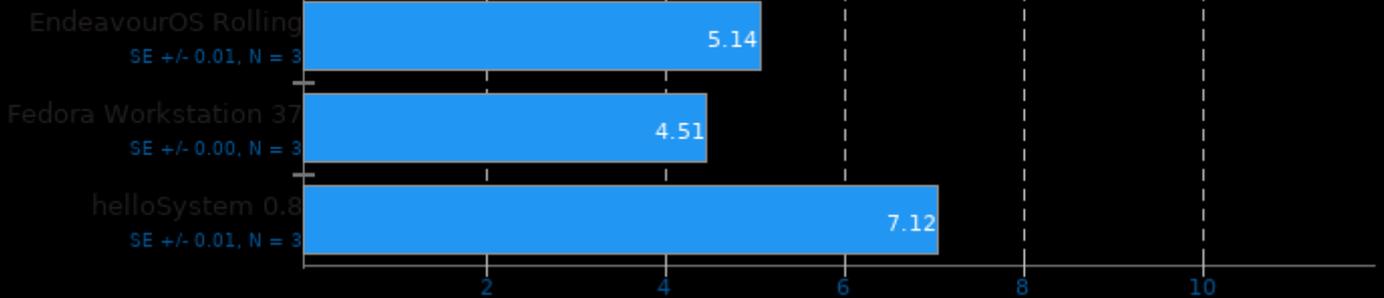
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

Benchmark: python_startup

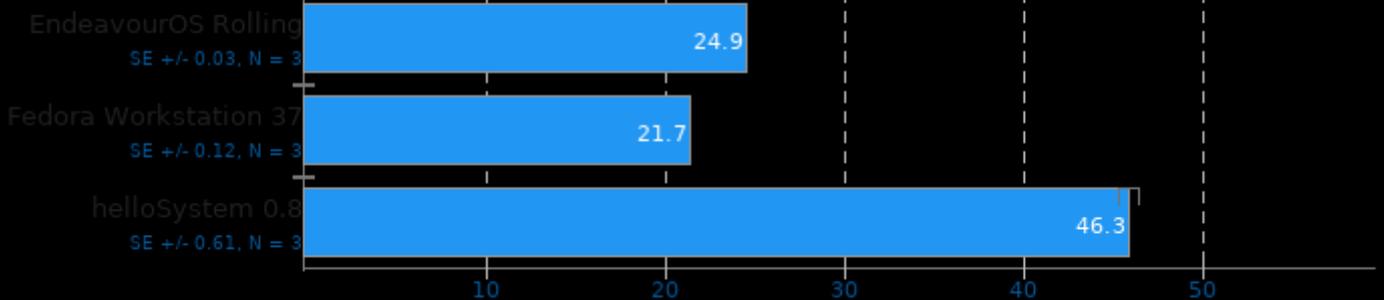
◀ Milliseconds, Fewer Is Better



PyPerformance 1.0.0

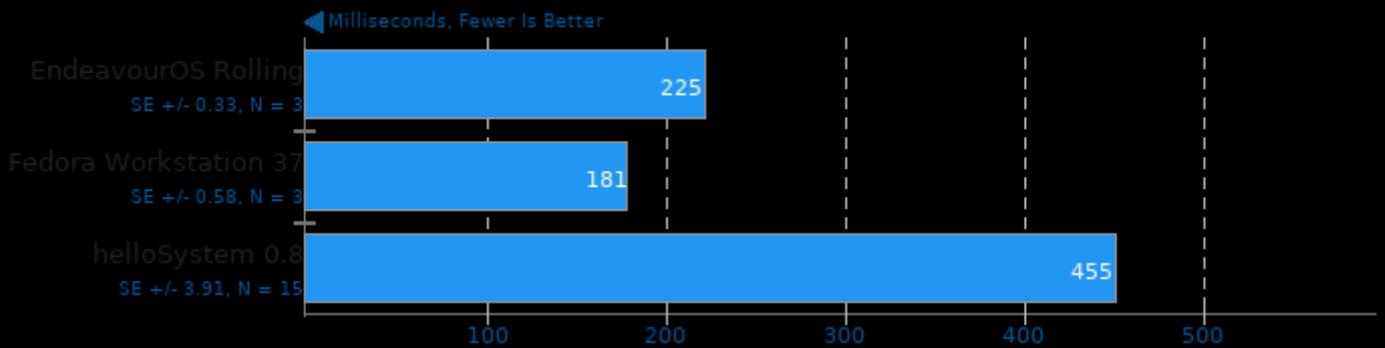
Benchmark: django_template

◀ Milliseconds, Fewer Is Better



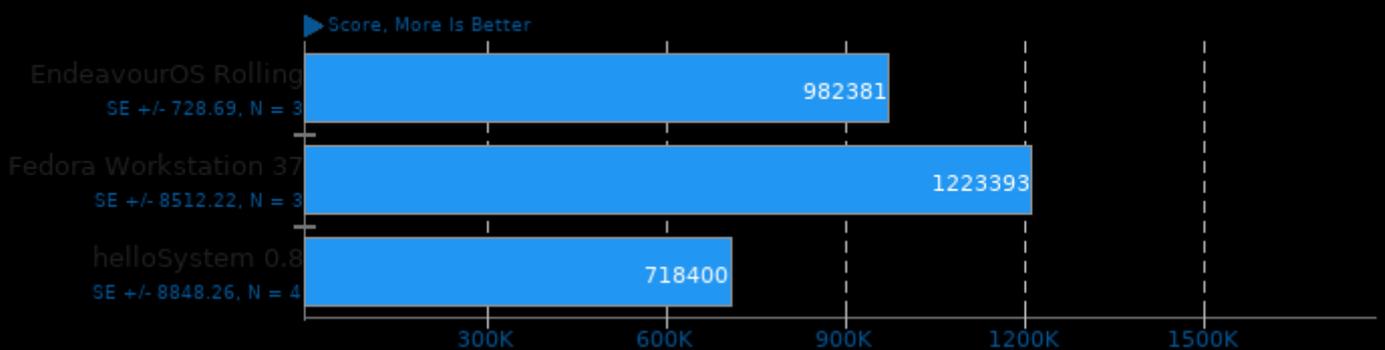
PyPerformance 1.0.0

Benchmark: pickle_pure_python



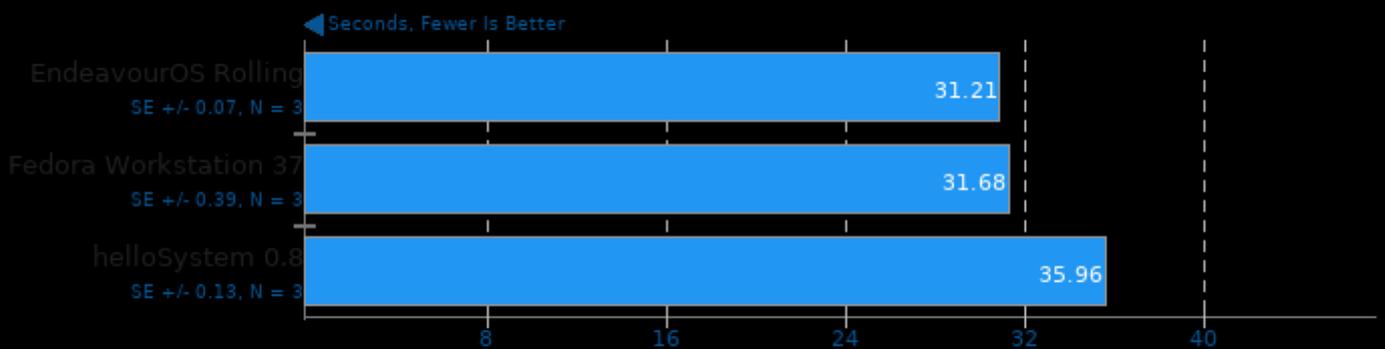
PHPBench 0.8.1

PHP Benchmark Suite



Git

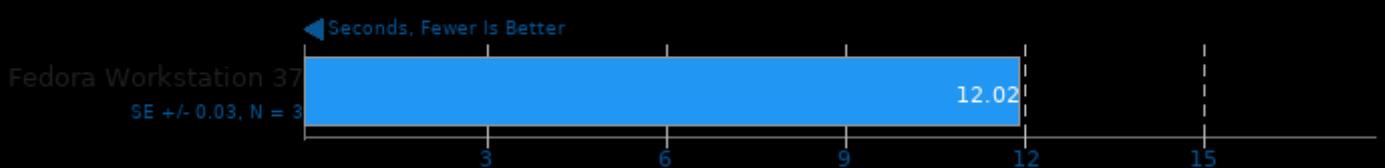
Time To Complete Common Git Commands



1. git version 2.39.1

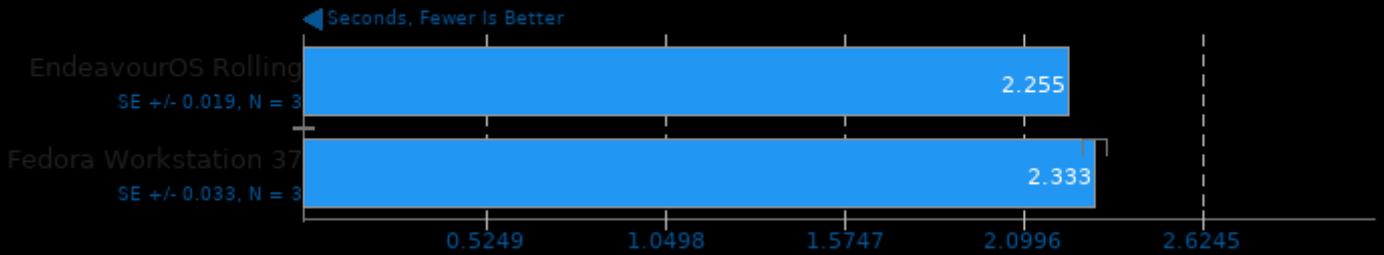
SQLite 3.40.0

Timed SQLite Insertions



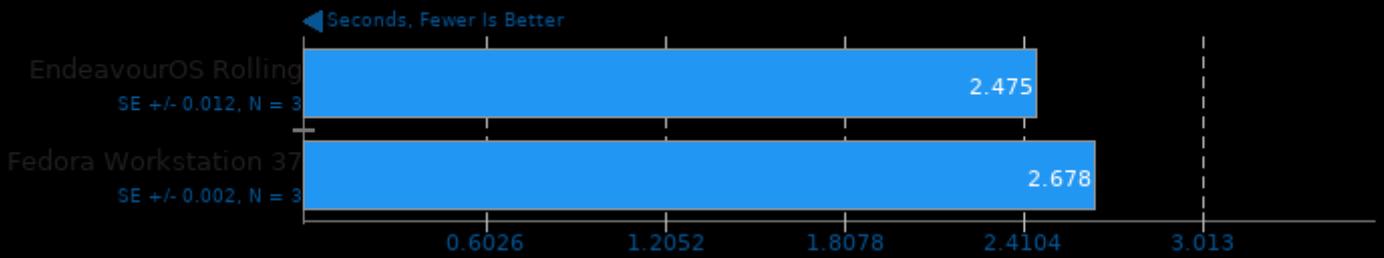
Darktable 4.2.0

Test: Boat - Acceleration: CPU-only



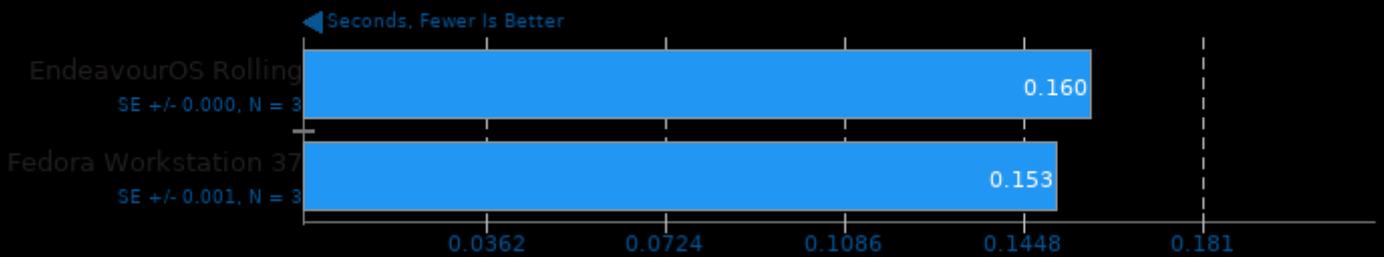
Darktable 4.2.0

Test: Masskrug - Acceleration: CPU-only



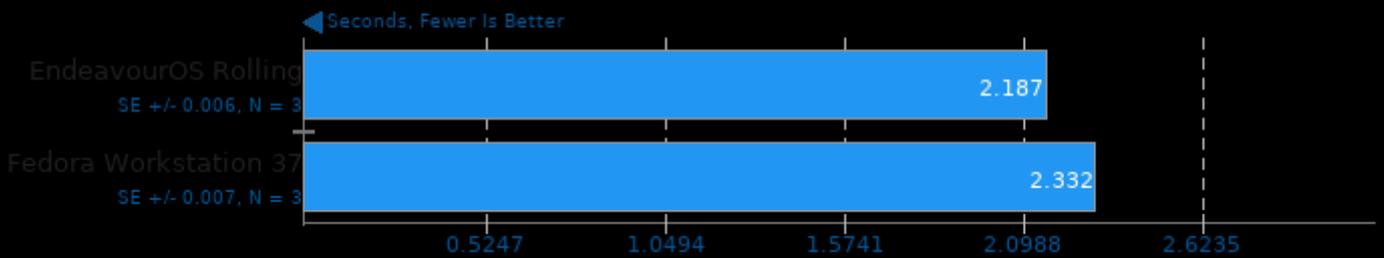
Darktable 4.2.0

Test: Server Rack - Acceleration: CPU-only



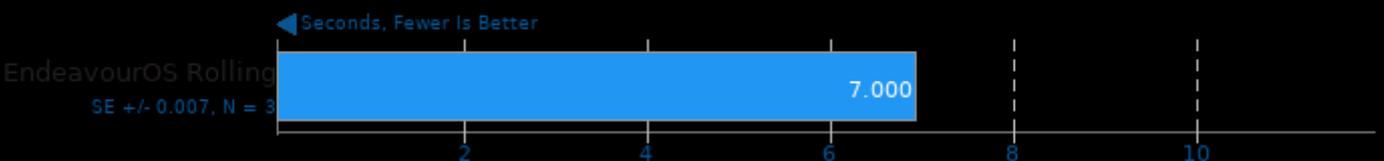
Darktable 4.2.0

Test: Server Room - Acceleration: CPU-only

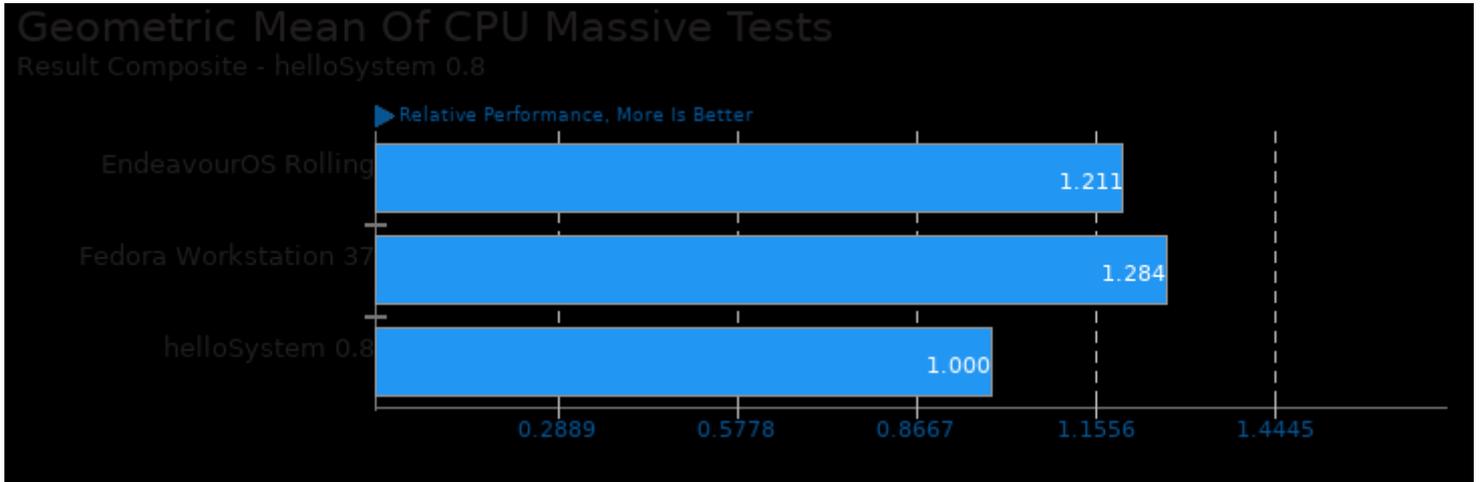


SQLite 3.40.1

Timed SQLite Insertions



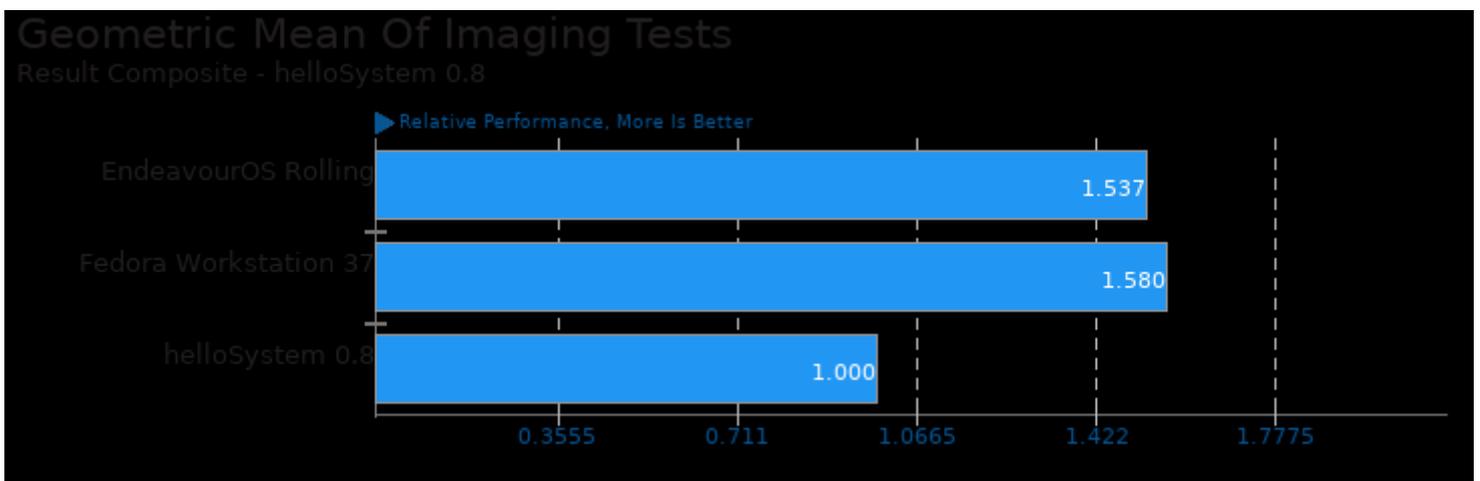
These geometric means are based upon test groupings / test suites for this result file.



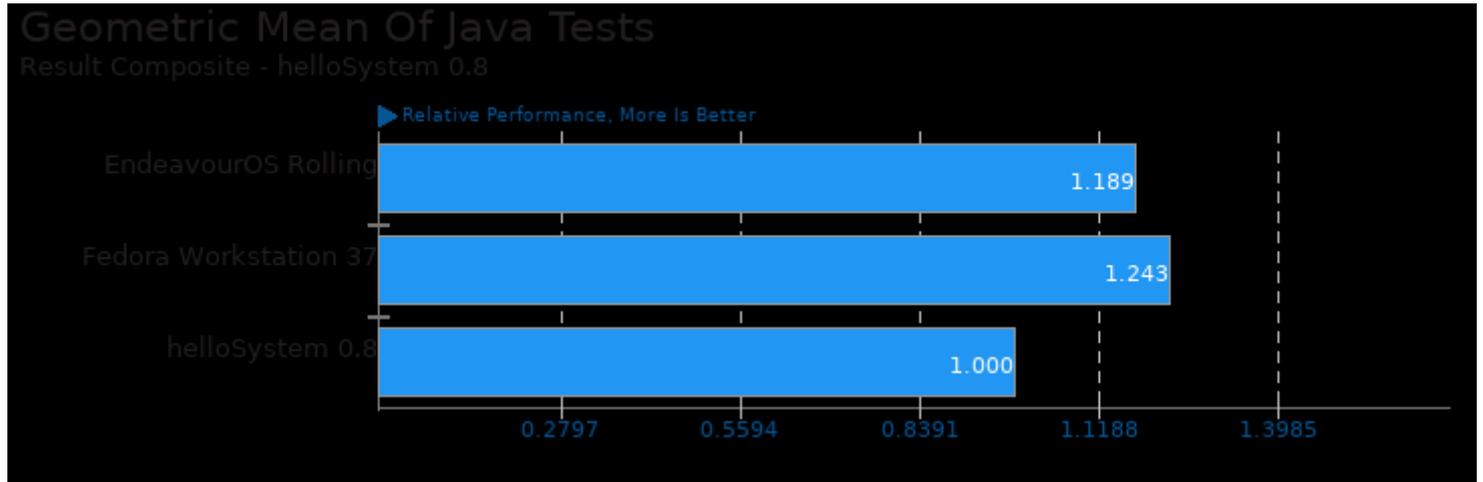
Geometric mean based upon tests: pts/dacapobench, pts/numpy, pts/phpbench, system/darktable and pts/renaissance



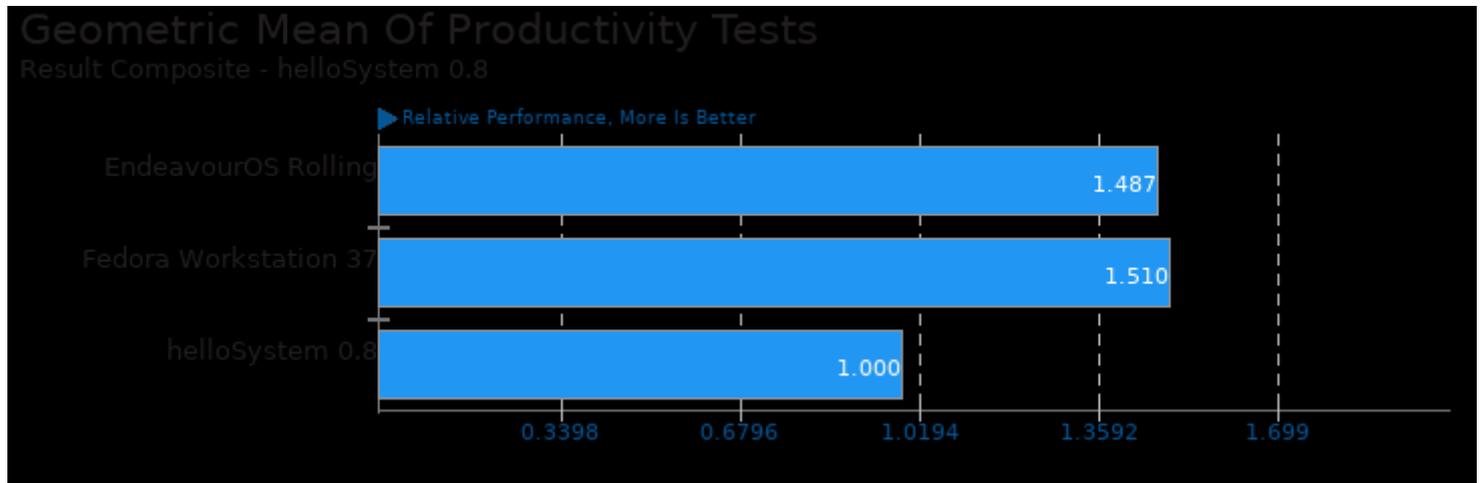
Geometric mean based upon tests: system/inkscape, system/rawtherapee, system/hugin, system/darktable, system/gegl and system/openscad



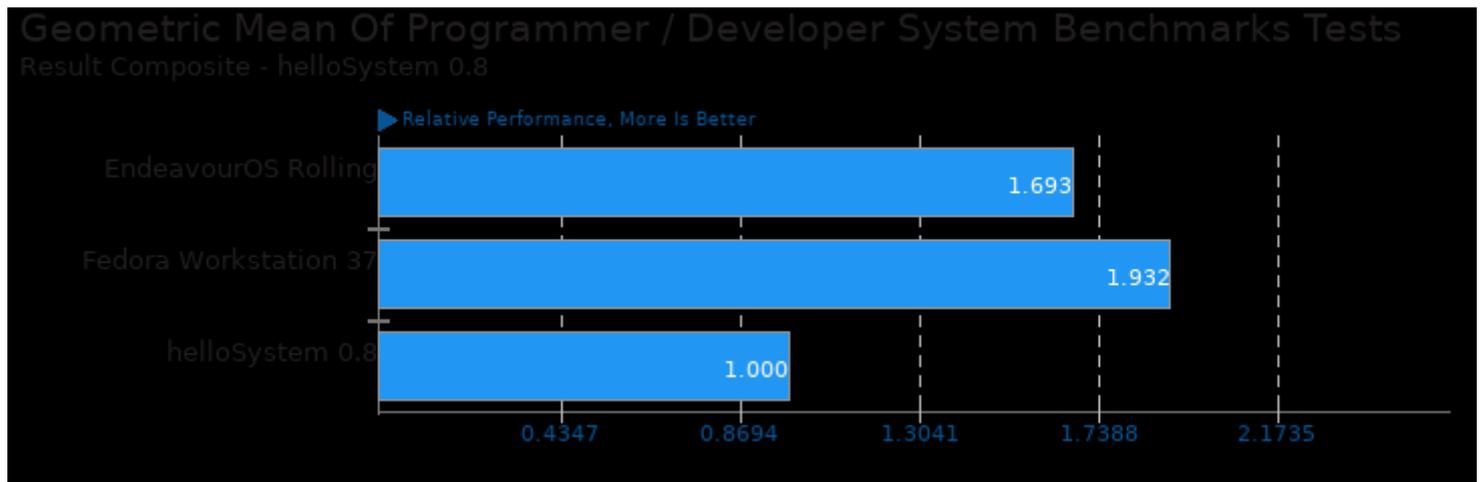
Geometric mean based upon tests: system/inkscape, system/rawtherapee, system/hugin, system/darktable and system/gegl



Geometric mean based upon tests: pts/dacapobench and pts/renaissance



Geometric mean based upon tests: system/libreoffice, system/inkscape and system/gegl



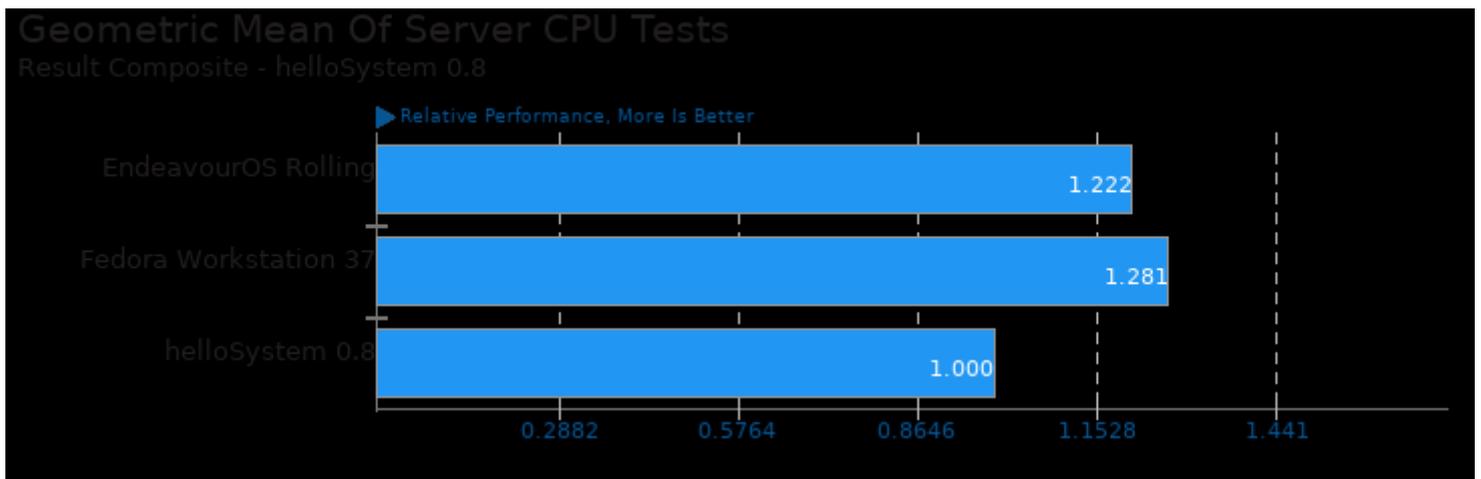
Geometric mean based upon tests: pts/node-web-tooling, pts/git, pts/pyperformance and pts/pybench



Geometric mean based upon tests: pts/pybench, pts/numpy and pts/pyperformance



Geometric mean based upon tests: pts/phpbench and pts/node-web-tooling



Geometric mean based upon tests: pts/dacapobench, pts/renaissance, pts/pybench, pts/numpy and pts/phpbench



Geometric mean based upon tests: pts/numpy, system/inkscape, pts/pybench, pts/phpbench and pts/git

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 22:21.