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all_tst

KVM testing on Debian 10 via the Phoronix Test Suite.

Automated Executive Summary

Ovirt_R6525_amd_deb1040c256gb had the most wins, coming in first place for 33% of the tests.

Based on the geometric mean of all complete results, the fastest (R6525_amd_deb1040c256gb) was 1.227x the speed of the slowest (R650_intel_deb1040c256gb). Ovirt_R6525_amd_deb1040c256gb_numa4 was 0.968x the speed of R6525_amd_deb1040c256gb, Ovirt_R650_intel_deb1040c256gb_2 was 0.993x the speed of Ovirt_R6525_amd_deb1040c256gb_numa4, Ovirt_R6525_amd_deb1040c256gb_2 was 1x the speed of Ovirt_R650_intel_deb1040c256gb_2, Ovirt_R650_intel_deb1040c256gb was 1x the speed of Ovirt_R6525_amd_deb1040c256gb_2, Ovirt_R6525_amd_deb1040c256gb was 0.925x the speed of Ovirt_R650_intel_deb1040c256gb, R650_intel_deb1040c256gb was 0.917x the speed of Ovirt_R6525_amd_deb1040c256gb.

Test Systems:

R6525_amd_deb1040c256gb

Processor: 2 x AMD EPYC 7513 32-Core (40 Cores), Motherboard: Intel 440BX (6.00 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 16 x 16384 MB DRAM, Disk: 107GB Virtual disk, Graphics: VMware SVGA II, Network: 2 x VMware VMXNET3

OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1176x885, System Layer: VMware

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0xa001173
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IPBP: conditional STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

R650_intel_deb1040c256gb

Processor: 2 x Intel Xeon Gold 6336Y (40 Cores), Motherboard: Intel 440BX (6.00 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 16 x 16384 MB DRAM, Disk: 107GB Virtual disk, Graphics: VMware SVGA II, Network: 2 x VMware VMXNET3

OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1176x885, System Layer: VMware

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0xd000375
Security Notes: itlb_multihit: KVM: Vulnerable + l1tf: Mitigation of PTE Inversion + mds: Mitigation of Clear buffers; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IPBP: conditional IBRS_FW STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

Ovirt_R6525_amd_deb1040c256gb

Processor: 40 x AMD EPYC (40 Cores), Motherboard: Red Hat RHEL-AV (1.16.0-3.module_el8.7.0+1218+f626c2ff BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 16 x 16384 MB RAM, Disk: 11GB QEMU HDD + 107GB QEMU HDD, Graphics: Red Hat QXL paravirtual graphic card, Network: Red Hat Virtio device

OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0x1000065
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

Ovirt_R650_intel_deb1040c256gb

Ovirt_R650_intel_deb1040c256gb_2

Processor: 40 x Intel Xeon (Icelake) (40 Cores), Motherboard: Red Hat RHEL-AV (1.16.0-3.module_el8.7.0+1218+f626c2ff BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 16 x 16384 MB RAM, Disk: 11GB QEMU HDD + 107GB QEMU HDD, Graphics: Red Hat QXL paravirtual graphic card, Network: Red Hat Virtio device

OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1024x768, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0x1
Security Notes: itlb_multihit: Not affected + l1tf: Mitigation of PTE Inversion + mds: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + meltdown: Mitigation of PTI + mmio_stale_data: Vulnerable: Clear buffers attempted no microcode; SMT Host state unknown + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: conditional IBRS_FW STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

Ovirt_R6525_amd_deb1040c256gb_2

Processor: 40 x AMD EPYC (40 Cores), Motherboard: Red Hat RHEL-AV (1.16.0-4.el9 BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 16 x 16384 MB RAM, Disk: 11GB QEMU HDD + 107GB QEMU HDD, Graphics: Red Hat Virtio GPU, Network: Red Hat Virtio device

OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0x1000065
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

Ovirt_R6525_amd_deb1040c256gb_numa4

Processor: 2 x AMD EPYC (40 Cores), Motherboard: Red Hat RHEL-AV (1.16.0-4.el9 BIOS), Chipset: Intel 82G33/G31/P35/P31 + ICH9, Memory: 16 x 16384 MB RAM, Disk: 11GB QEMU HDD + 107GB QEMU HDD, Graphics: Red Hat Virtio GPU, Network: Red Hat Virtio device

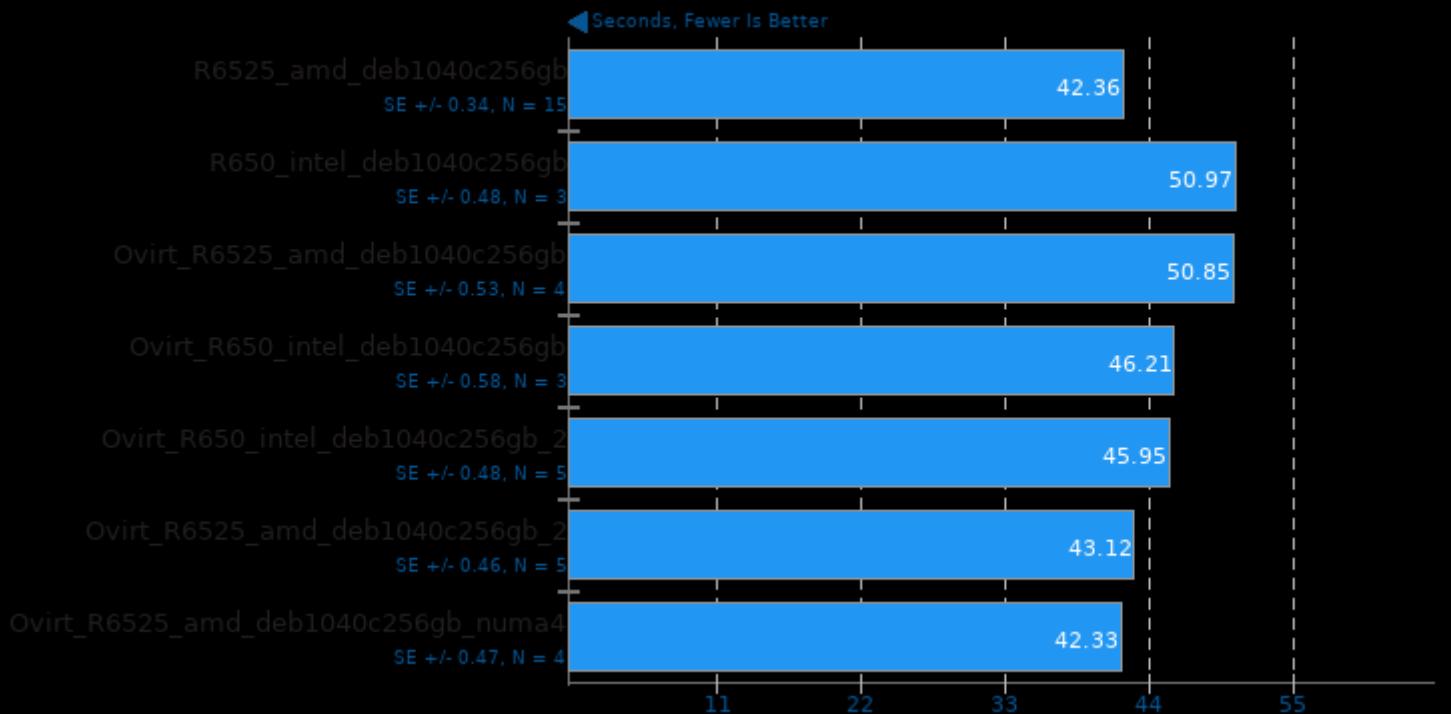
OS: Debian 10, Kernel: 4.19.0-21-amd64 (x86_64), Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1280x800, System Layer: KVM

Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: CPU Microcode: 0x1000065
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines STIBP: disabled RSB filling + srbd: Not affected + tsx_async_abort: Not affected

	R6525_amd_deb1040c2_56gb	R650_intel_deb1040c25_6gb	Ovirt_R6525_amd_deb1_040c256gb	Ovirt_R650_intel_deb10_40c256gb	Ovirt_R650_intel_deb10_40c256gb_2	Ovirt_R6525_amd_deb1_040c256gb_2	Ovirt_R6525_amd_deb1_numa4
Timed PHP Compilation - Time To Compile (sec)	42.359	50.966	50.848	46.206	45.946	43.116	42.328
Normalized	99.93%	83.05%	83.24%	91.61%	92.13%	98.17%	100%
Standard Deviation	3.1%	1.6%	2.1%	2.2%	2.4%	2.4%	2.2%
Redis - GET - 500 (Req/sec)	1936324	1860116	2198260	1860175	1855243	1965189	1958740
Normalized	88.08%	84.62%	100%	84.62%	84.4%	89.4%	89.1%
Standard Deviation	2.4%	0.3%	2.4%	0.4%	0.9%	0.3%	0.8%
Redis - SET - 500 (Req/sec)	1639985	1547151	1644262	1582161	1593657	1635142	1720132
Normalized	95.34%	89.94%	95.59%	91.98%	92.65%	95.06%	100%
Standard Deviation	3.9%	1.2%	0.9%	1%	0.2%	1.9%	1.8%
Redis - LPOP - 500 (Req/sec)	2331033	598314	2340594	1511858	1523794	1630972	1595803
Normalized	99.59%	25.56%	100%	64.59%	65.1%	69.68%	68.18%
Standard Deviation	1.7%	0.4%	1.2%	1.3%	1.3%	0.6%	2.3%
Redis - SADD - 500 (Req/sec)	1823630	1711167	1738796	1673153	1688709	1785560	1815599
Normalized	100%	93.83%	95.35%	91.75%	92.6%	97.91%	99.56%
Standard Deviation	1.6%	0.9%	0.6%	1.7%	1.3%	1.6%	2.2%
Redis - LPUSH - 500 (Req/sec)	1506938	1441785	1598839	1398442	1412728	1560058	1573130
Normalized	94.25%	90.18%	100%	87.47%	88.36%	97.57%	98.39%
Standard Deviation	2.3%	0.8%	0.6%	0.8%	2.4%	0.4%	1.1%
PHPBench - P.B.S (Score)	634201	617285	477686	712824	684907	635001	637404
Normalized	88.97%	86.6%	67.01%	100%	96.08%	89.08%	89.42%
Standard Deviation	0.1%	0.2%	0.2%	0.4%	0.6%	0.9%	0.8%
PHP Micro Benchmarks - Zend bench (sec)	0.432	0.448	0.594	0.378	0.380	0.438	0.441
Normalized	87.5%	84.38%	63.64%	100%	99.47%	86.3%	85.71%
Standard Deviation	2.1%	0.1%	0.5%	0.6%	1.5%	0.1%	0.8%
PHP Micro Benchmarks - Zend micro_bench (sec)	2.071	2.119	3.160	1.788	1.767	2.065	2.058
Normalized	85.32%	83.39%	55.92%	98.83%	100%	85.57%	85.86%
Standard Deviation	1%	0.6%	0.2%	0.5%	0.9%	2.4%	1.1%

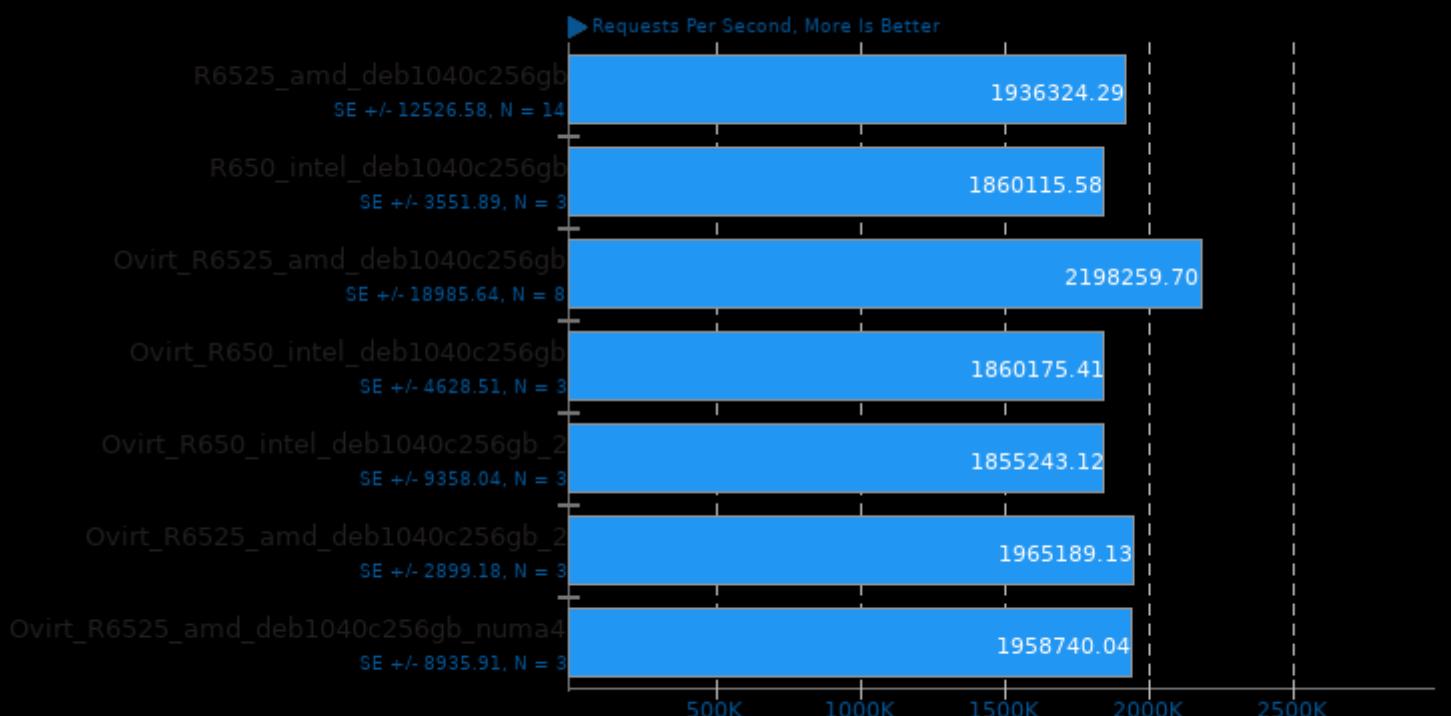
Timed PHP Compilation 8.1.9

Time To Compile



Redis 7.0.4

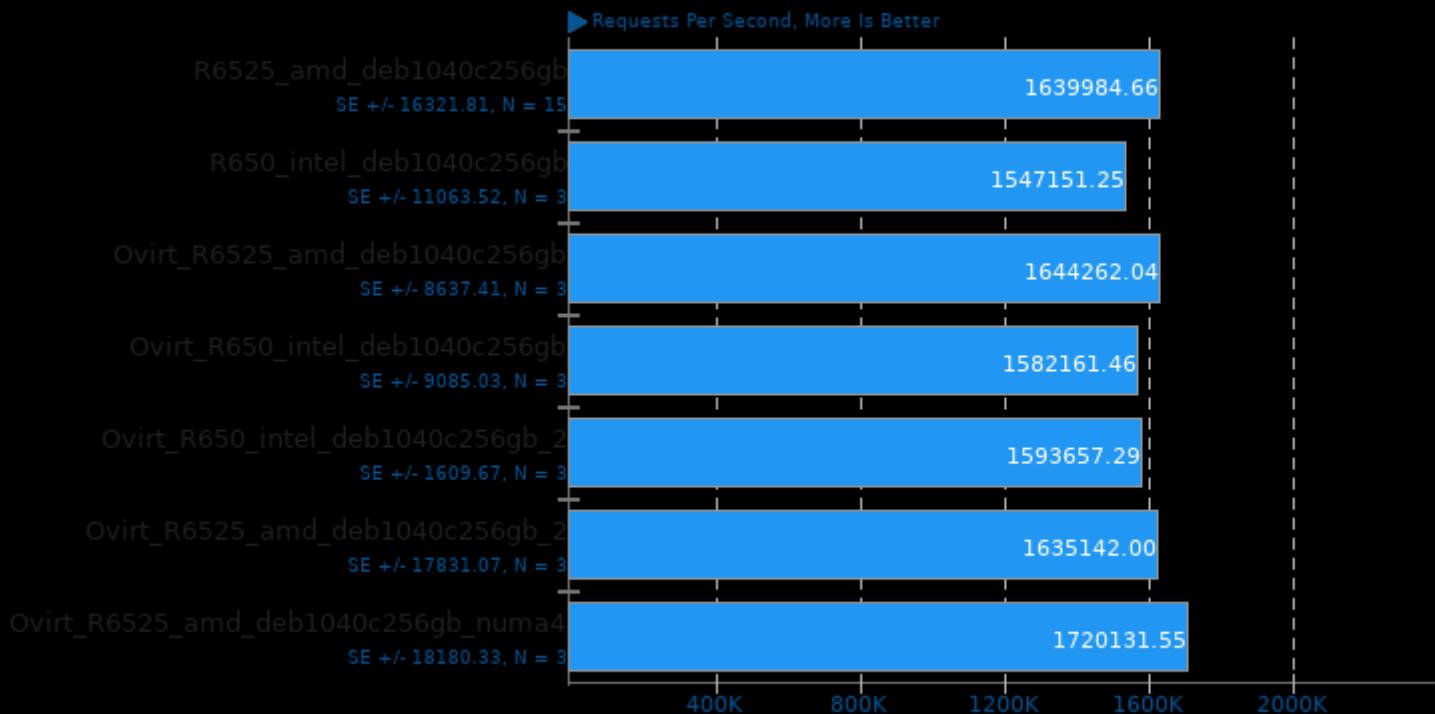
Test: GET - Parallel Connections: 500



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

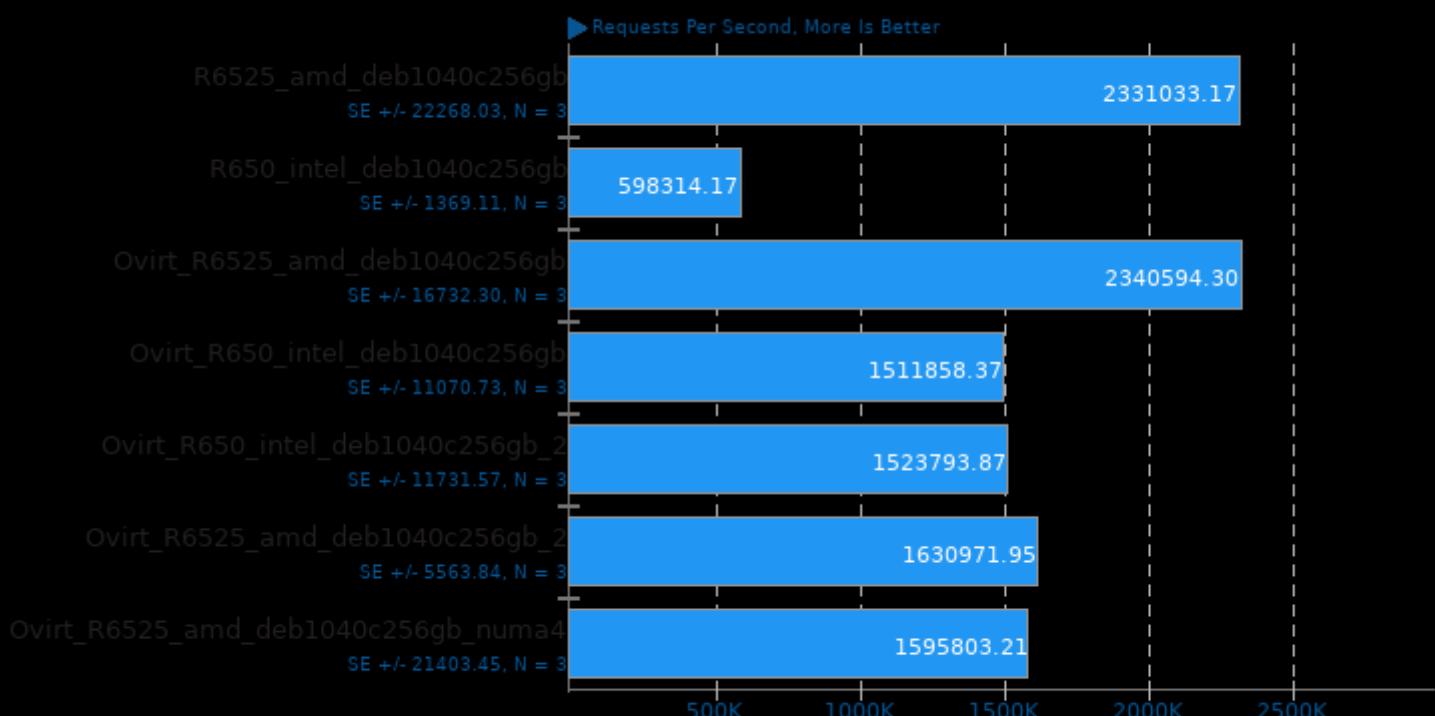
Test: SET - Parallel Connections: 500



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

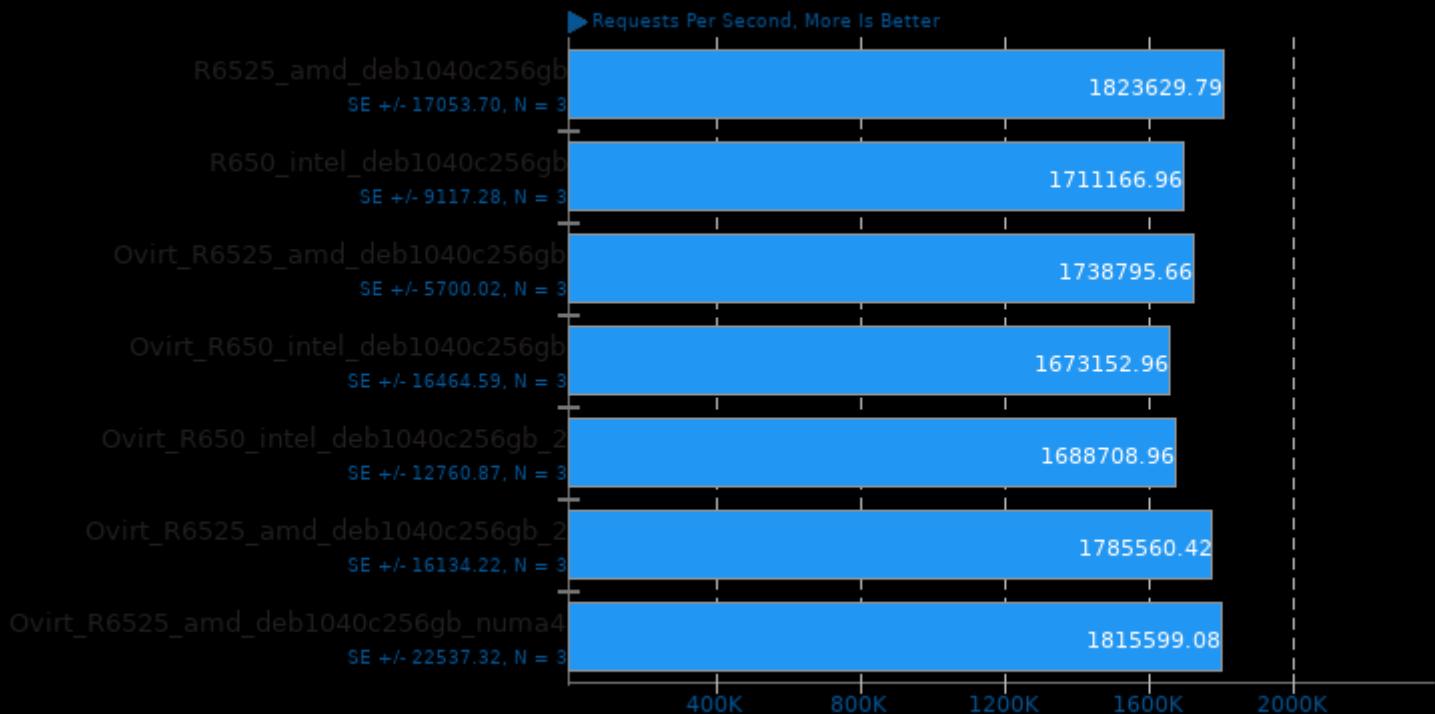
Test: LPOP - Parallel Connections: 500



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

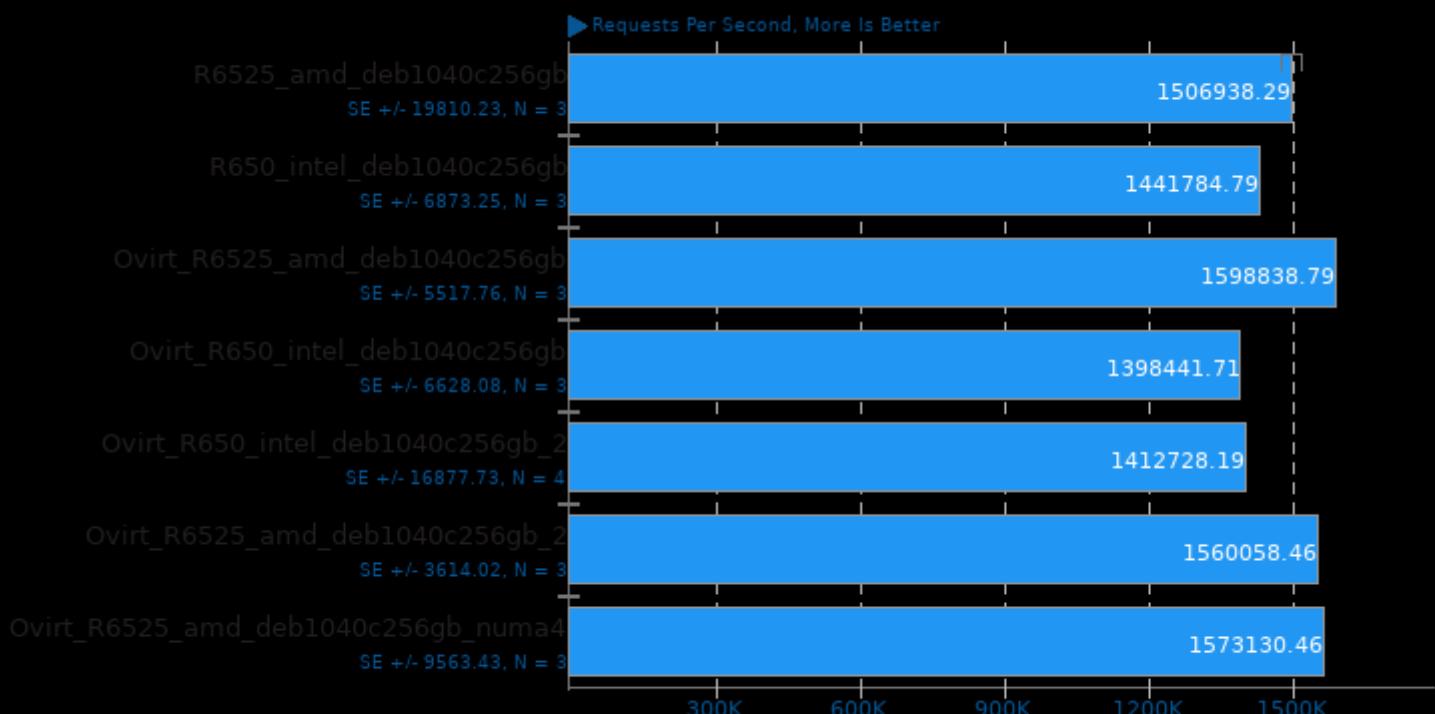
Test: SADD - Parallel Connections: 500



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

Redis 7.0.4

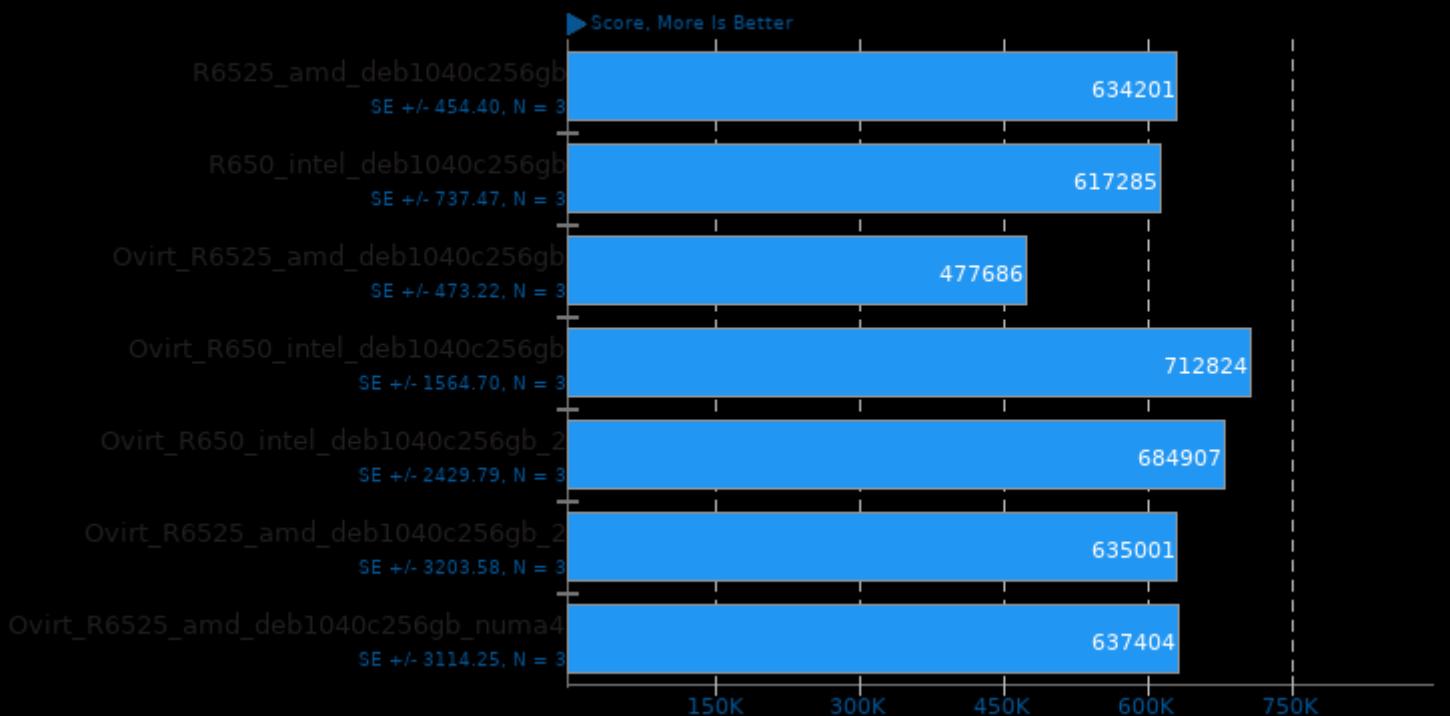
Test: LPUSH - Parallel Connections: 500



1. (CXX) g++ options: -MM -MT -g3 -fvisibility=hidden -O3

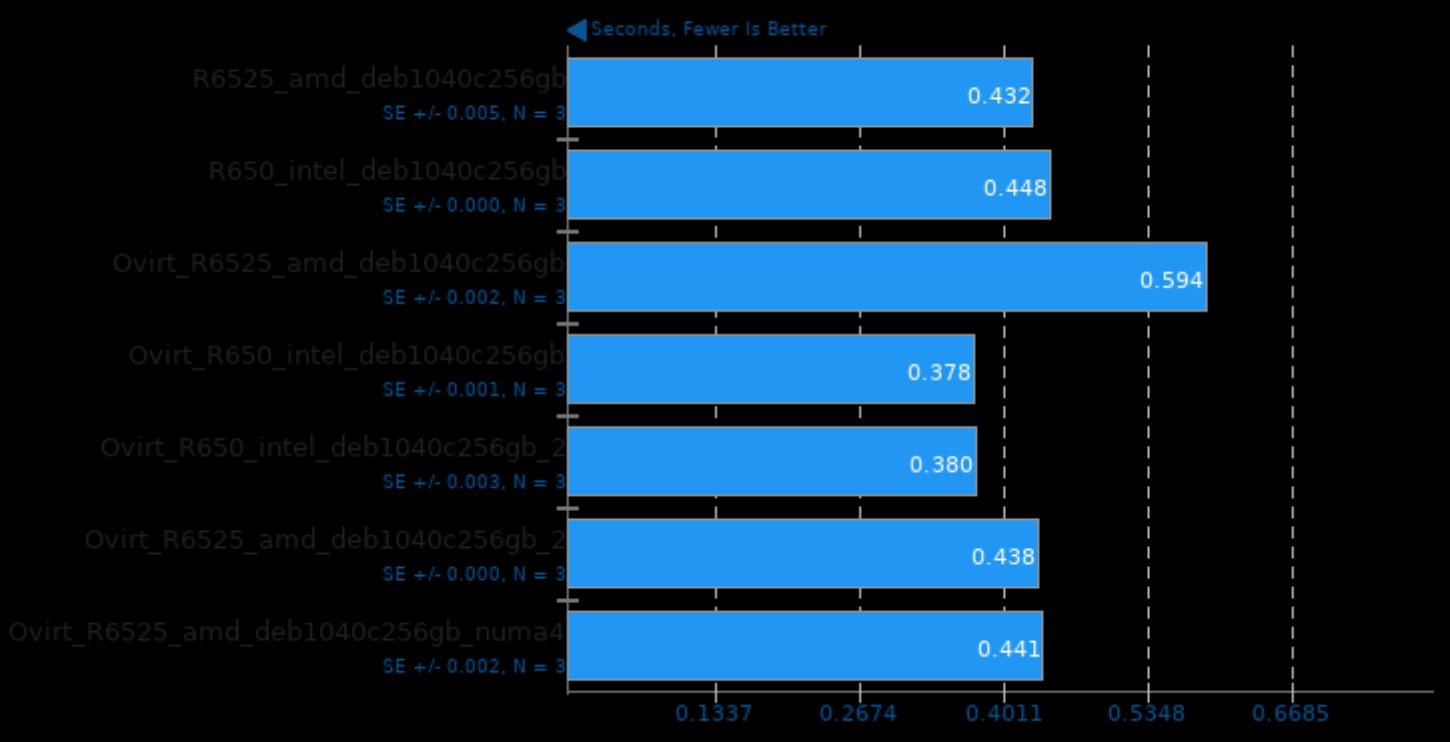
PHPBench 0.8.1

PHP Benchmark Suite



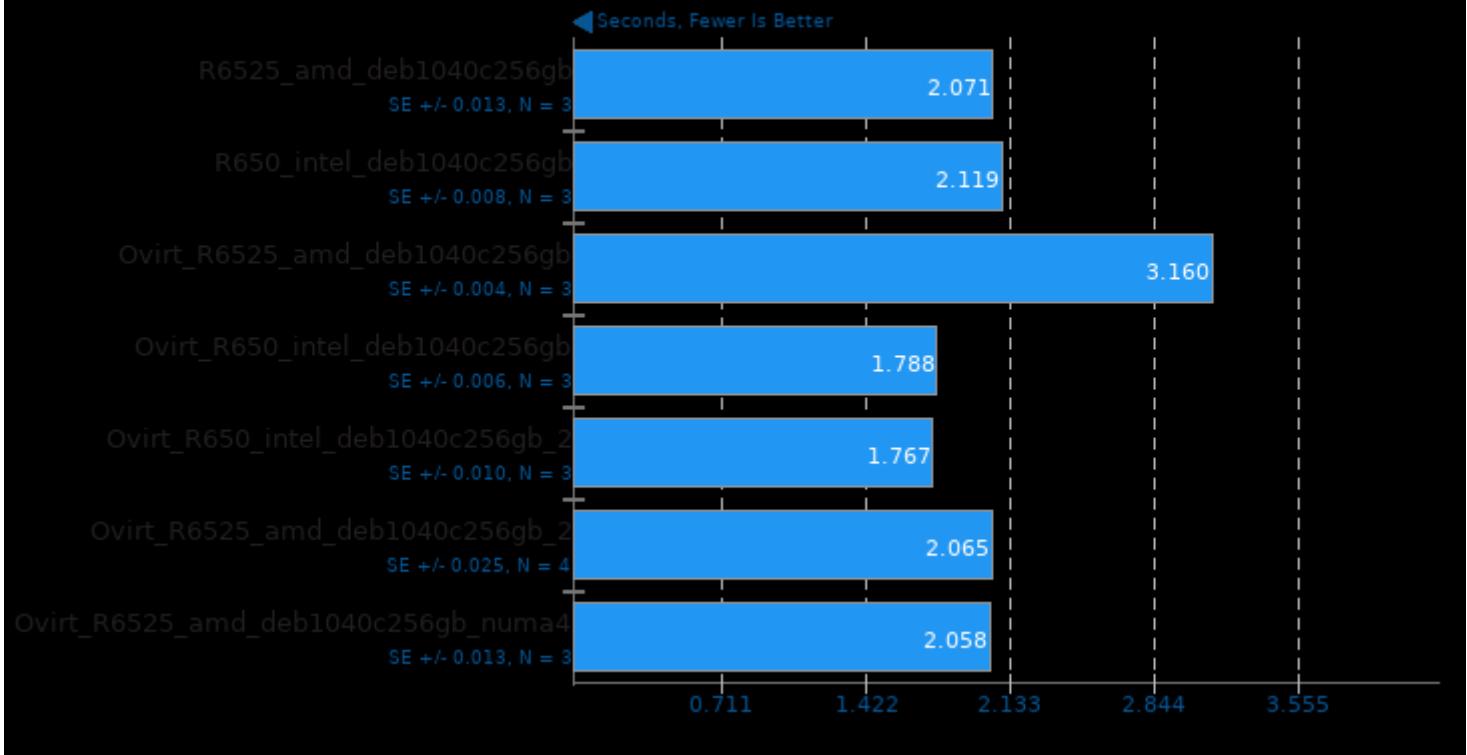
PHP Micro Benchmarks

Test: Zend bench

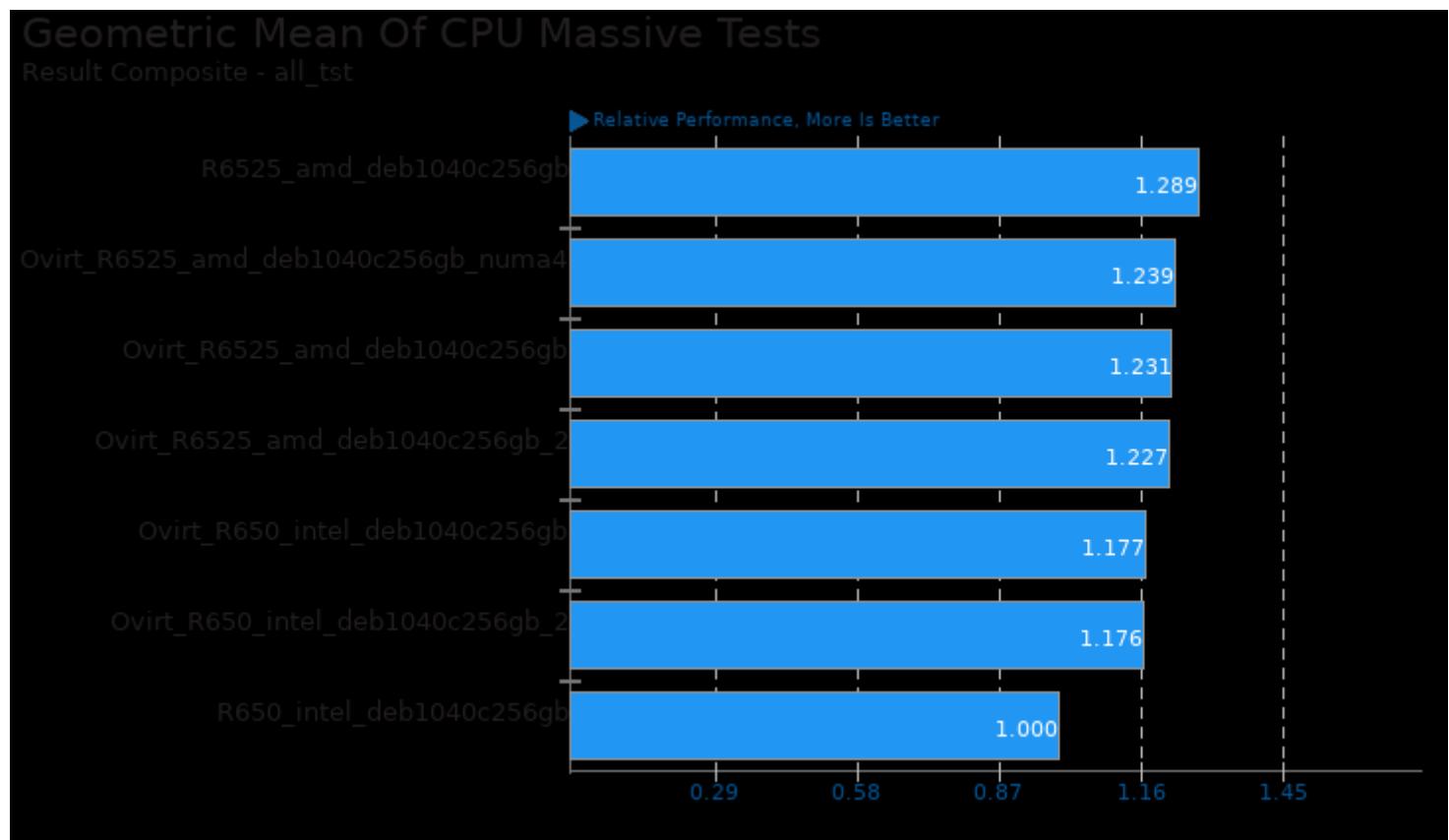


PHP Micro Benchmarks

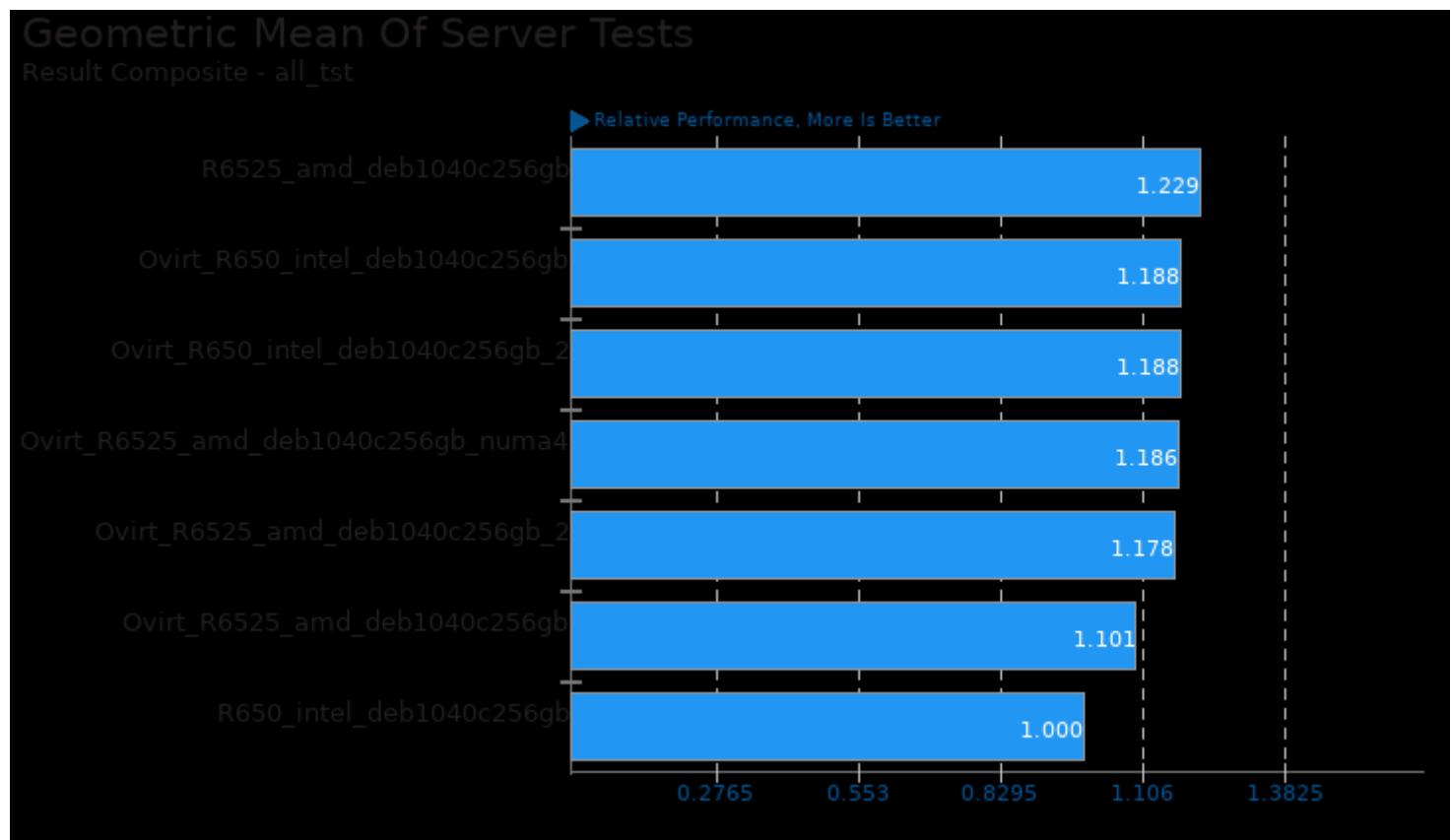
Test: Zend micro_bench



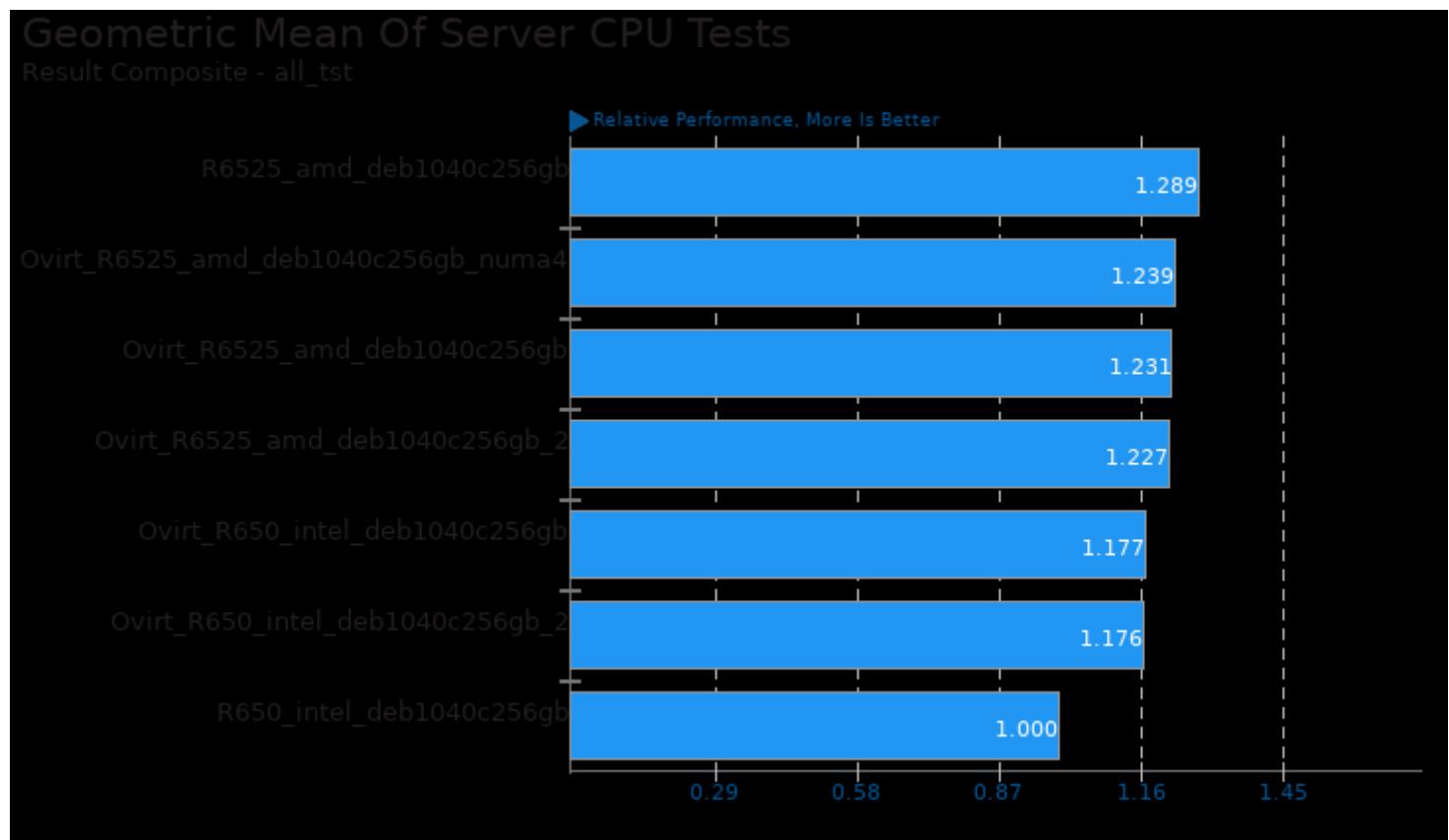
These geometric means are based upon test groupings / test suites for this result file.



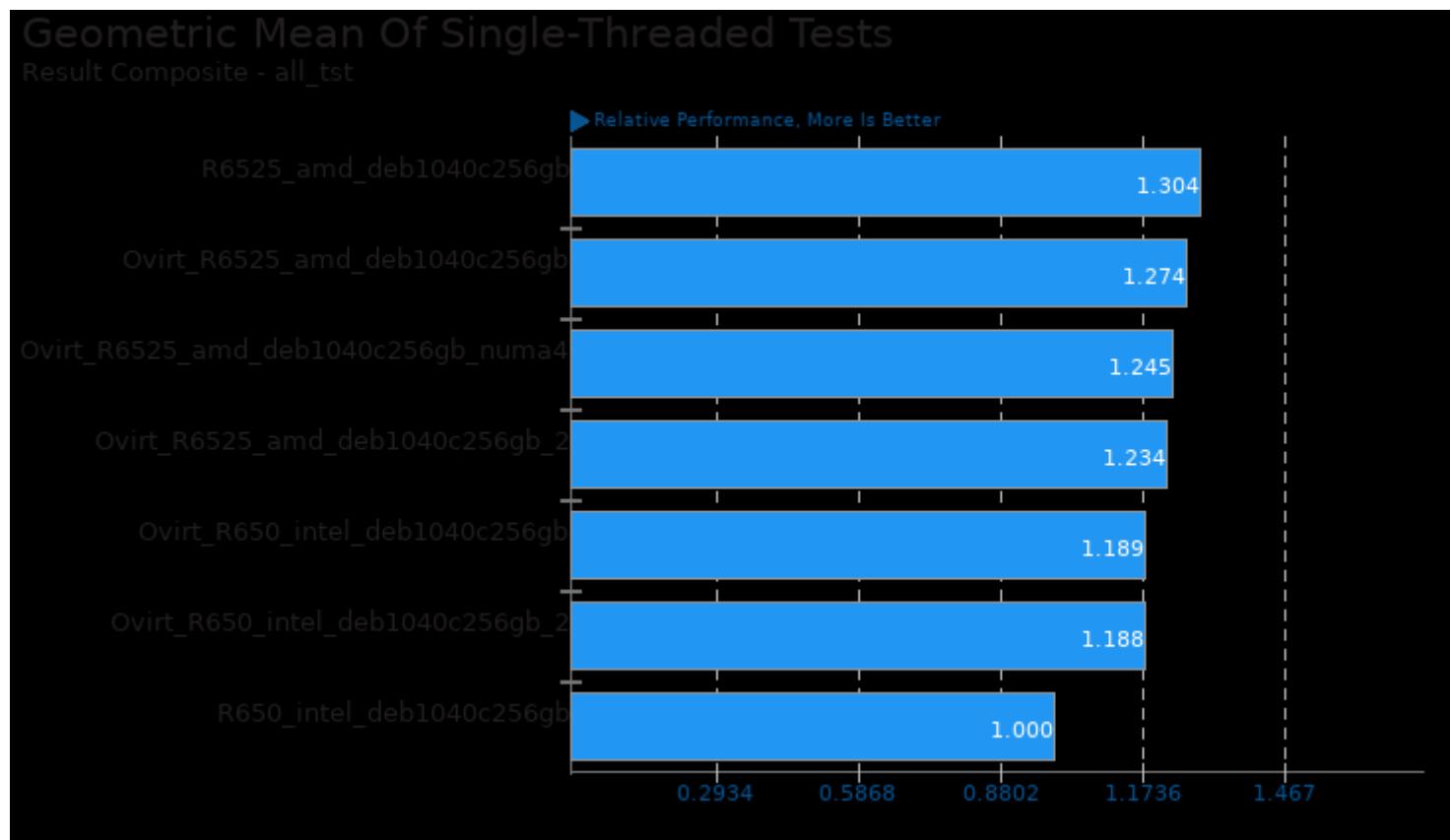
Geometric mean based upon tests: pts/build-php, pts/phpbench and pts/redis



Geometric mean based upon tests: pts/redis, pts/php and pts/phpbench



Geometric mean based upon tests: pts/build-php, pts/redis and pts/phpbench



Geometric mean based upon tests: pts/redis and pts/phpbench

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:45.