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PowerNV T2P9D01 REV 1.00 On Debian testing

Various open-source benchmarks by the Phoronix Test Suite v8.0.0m2 (Aremark).

Test Systems:

POWER9 altivec supported

Processor: POWER9 altivec supported @ 3.80GHz (64 Cores), Motherboard: PowerNV T2P9D01 REV 1.00, Memory: 262144MB, Disk: 500GB MAXTOR STM350063, Graphics: AMD Radeon Pro WX 7100 8192MB, Audio: AMD Ellesmere, Network: Broadcom Limited NetXtreme BCM5719 Gigabit PCIe

OS: Debian testing, Kernel: 4.16.0-rc4 (ppc64le) 20180307, Display Driver: amdgpu 1.4.0, Compiler: GCC 7.3.0, File-System: ext4, Screen Resolution: 1024x768

Compiler Notes: --build=powerpc64le-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-multilib --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc=auto --enable-plugin --enable-secureplt --enable-shared --enable-targets=powerpcle-linux --enable-threads=posix --host=powerpc64le-linux-gnu --program-prefix=powerpc64le-linux-gnu- --target=powerpc64le-linux-gnu --with-cpu=power8 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-long-double-128 -v
Processor Notes: Scaling Governor: powernv-cpufreq ondemand

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Intel Core i7-4790K

Processor: Intel Core i7-4790K @ 4.60GHz (4 Cores / 8 Threads), Motherboard: Gigabyte Z97X-SOC Force (F8 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 32768MB, Disk: Samsung SSD 950 PRO 512GB, Graphics: Gigabyte AMD Radeon RX 560 4096MB (1250MHz), Audio: Intel Xeon E3-1200 v3/4th, Monitor: DELL P2715Q, Network: Qualcomm Atheros Killer E220x Gigabit

OS: Arch rolling, Kernel: 4.15.13-1-ARCH (x86_64), Desktop: KDE Plasma 5.12.3, Display Driver: modesetting 1.19.6, OpenGL: 4.5 Mesa 17.3.7 (LLVM 6.0.0), Compiler: GCC 7.3.1 20180312 + Clang 6.0.0, File-System: ext4, Screen Resolution: 3840x2160

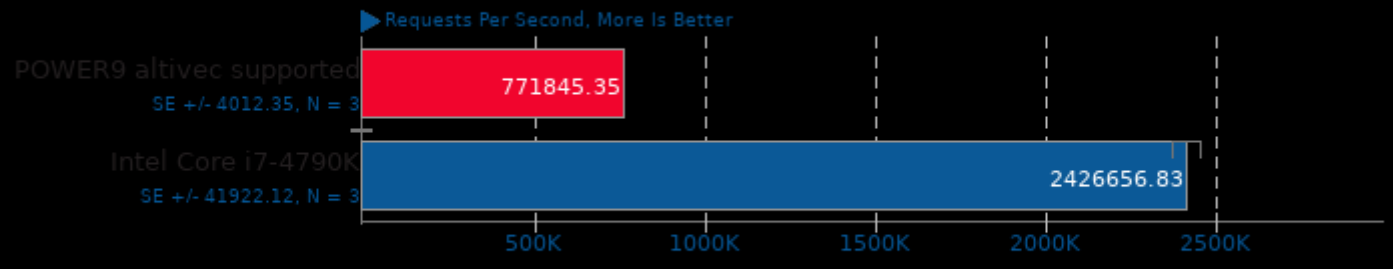
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,lto,objc,obj-c++ --enable-libmpx --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave
Security Notes: KPTI + __user pointer sanitization + Full generic retpoline IBPB IBRS_FW Protection

	POWER9 altivec	Intel Core i7-4790K
Redis - SADD (Reqs/sec)	**771845**	**2426657**
Normalized	31.81%	100%
Standard Deviation	0.9%	3%
OpenSSL - R.4.b.P (Signs/sec)	**2103**	**833.57**
Normalized	100%	39.64%
Standard Deviation	0.1%	0%
AOBench - 2048 x 2048 - Total Time (sec)	**68.36**	**35.54**
Normalized	51.99%	100%
Standard Deviation	0.5%	0.7%
GraphicsMagick - Sharpen (Iterations/min)	**165**	**156**
Normalized	100%	94.55%
Timed MAFFT Alignment - M.S.A (sec)	**3.03**	**3.78**
Normalized	100%	80.16%
Standard Deviation	7.6%	0.4%

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Redis 4.0.8

Test: SADD



1. (CC) gcc options: -ggdb -rdynamic -lm -ldl -pthread

OpenSSL 1.1.0f

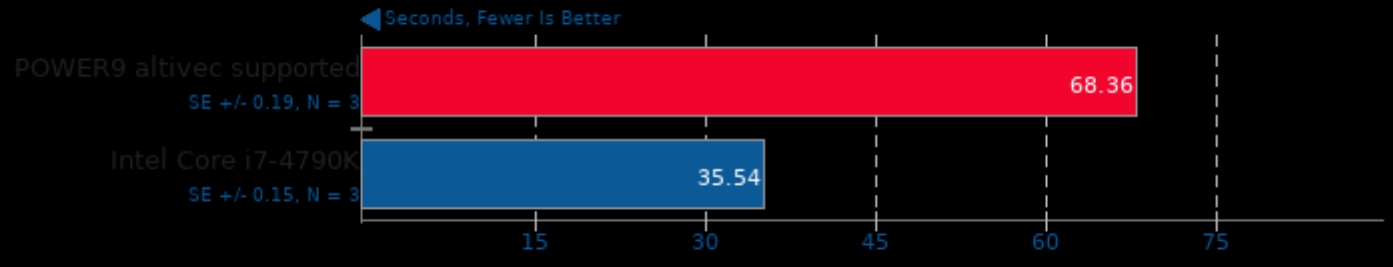
RSA 4096-bit Performance



1. (CC) gcc options: -O3 -pthread -m64 -lssl -lcrypto -ldl

AOBench

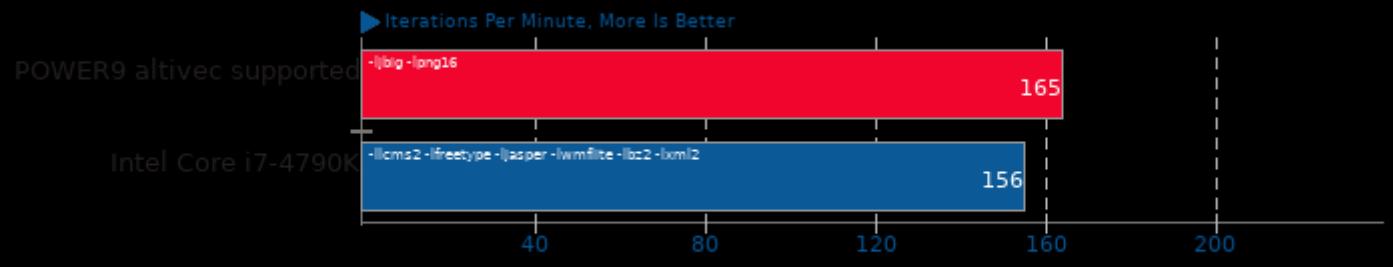
Size: 2048 x 2048 - Total Time



1. (CC) gcc options: -lm -O3

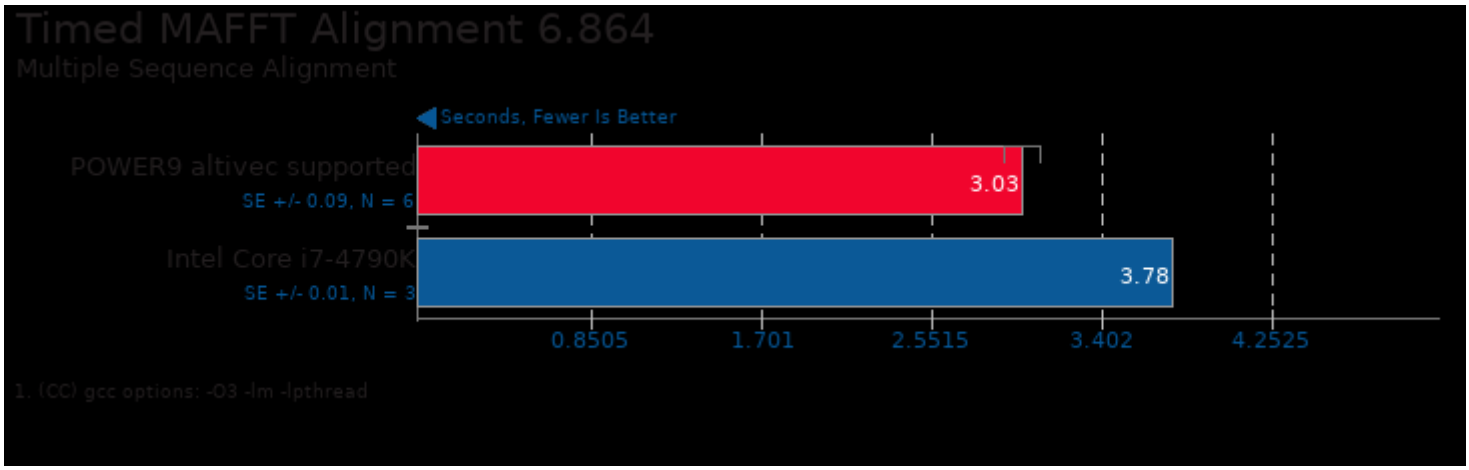
GraphicsMagick 1.3.28

Operation: Sharpen



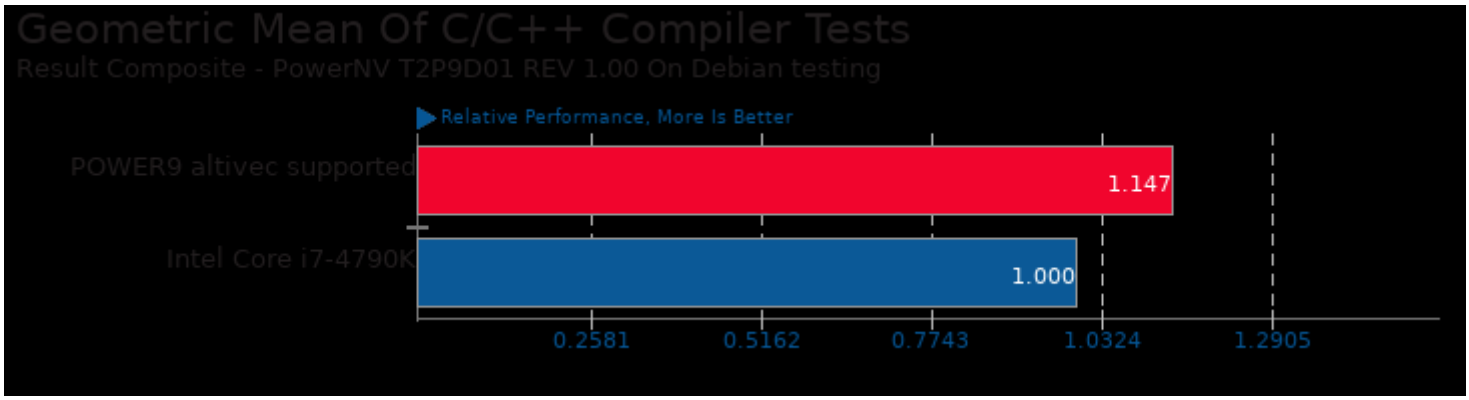
1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -ljpeg -lXext -lSM -lICE -lX11 -llzma -lz -lm -lgomp -lpthread

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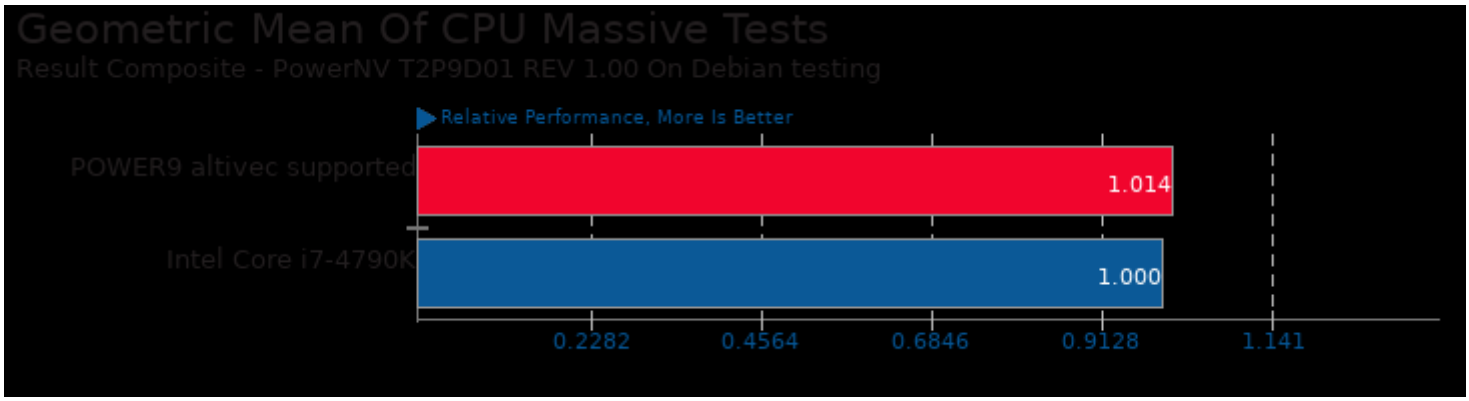


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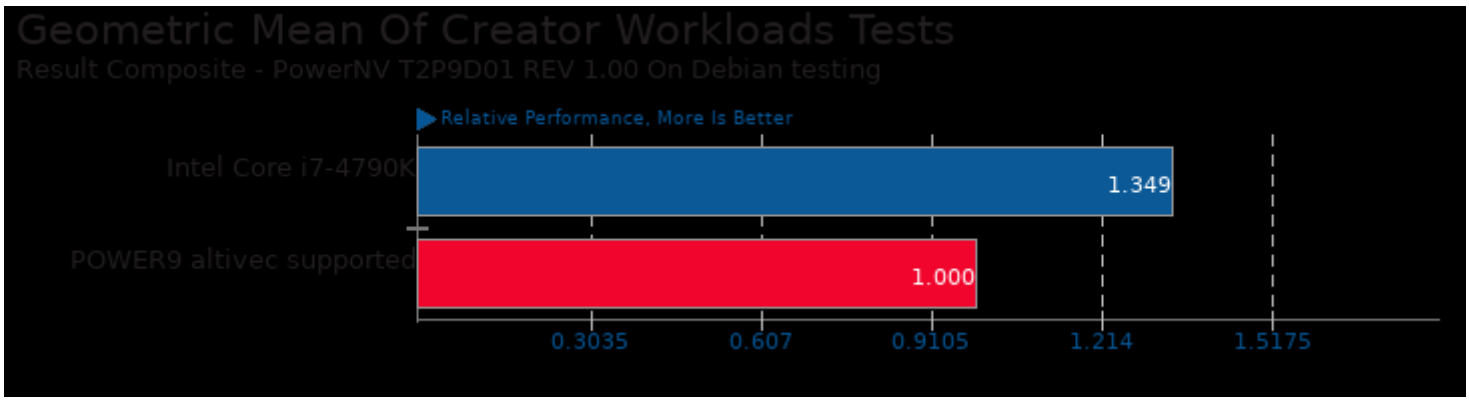
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/mafft, pts/aobench, pts/graphics-magick and pts/openssl

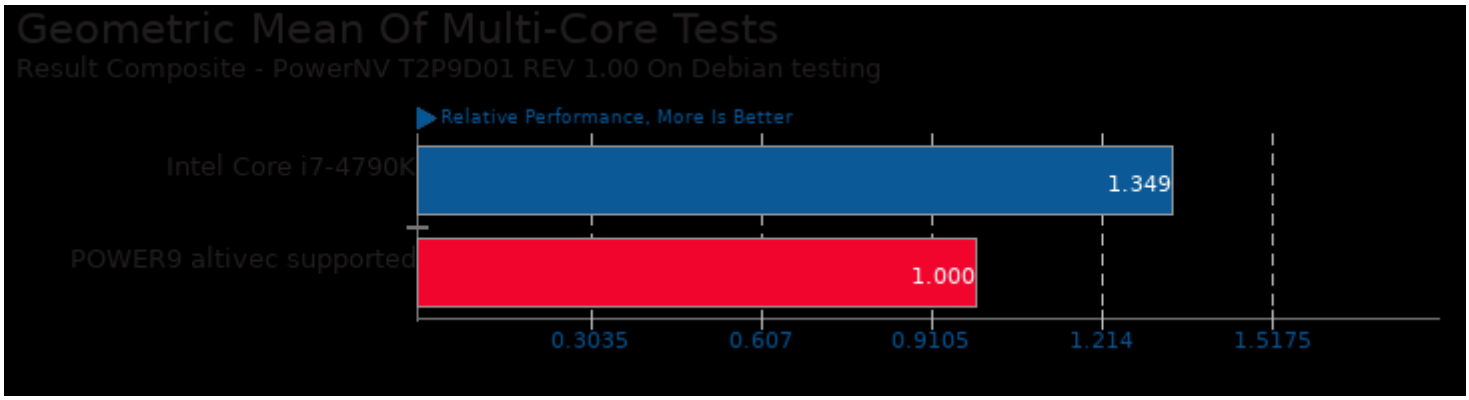


Geometric mean based upon tests: pts/graphics-magick, pts/openssl, pts/mafft and pts/redis

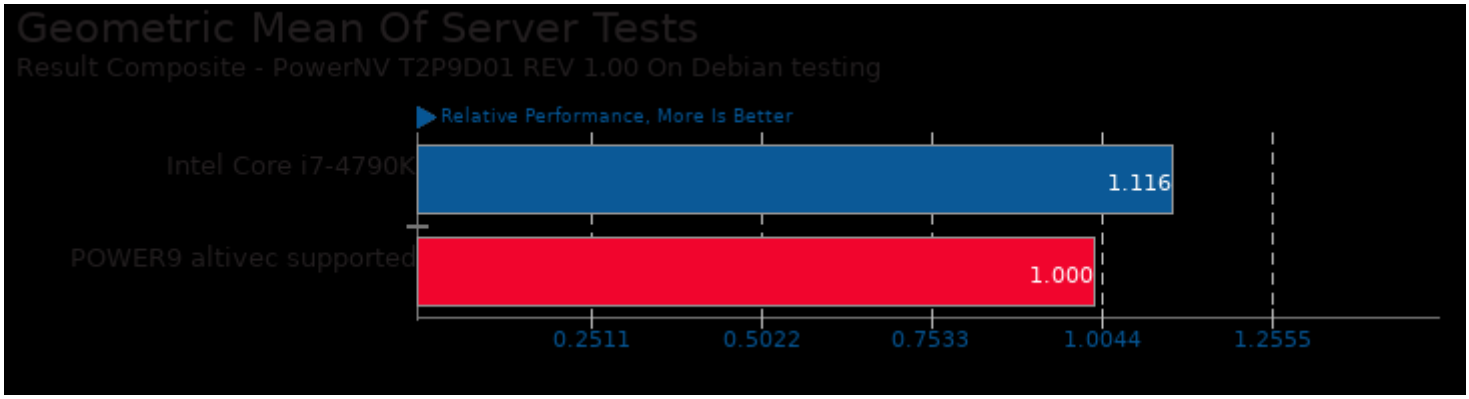


Geometric mean based upon tests: pts/aobench and pts/graphics-magick

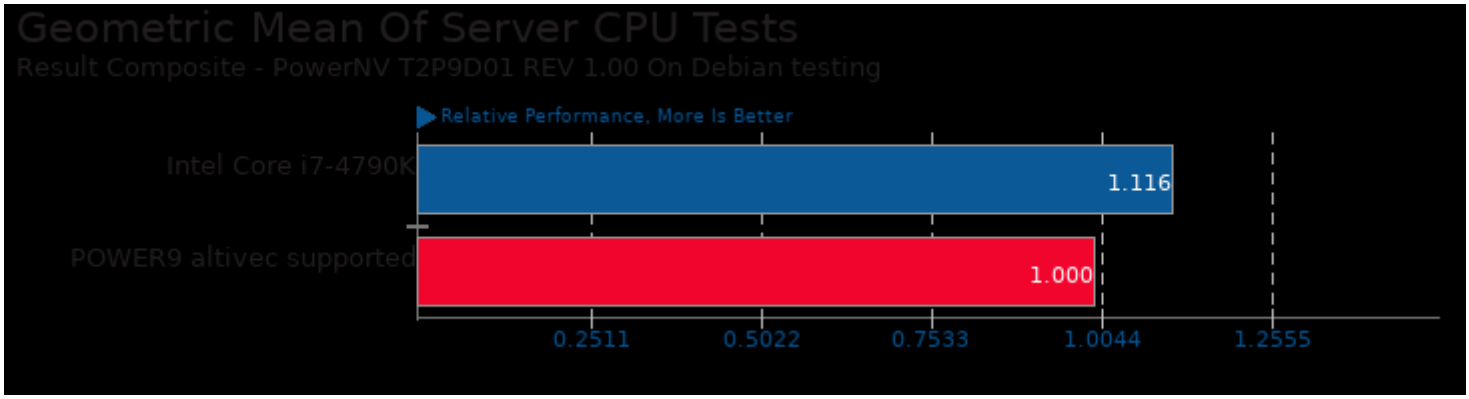
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Geometric mean based upon tests: pts/graphics-magick and pts/aobench



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 10:59.