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FreeBSD ZFS HyperV 2022 gen2

AMD Ryzen 5 3600 6-Core testing on FreeBSD via the Phoronix Test Suite.

Test Systems:

Hyper-V Server 2022 gen2 ZFS

Processor: AMD Ryzen 5 3600 6-Core (4 Cores), Motherboard: Microsoft Virtual Machine Hyper-V UEFI v4.1 (Hyper-V BIOS), Memory: 4096MB, Disk: Msft Virtual Disk 1.0

OS: FreeBSD, Kernel: 13.0-RELEASE-p4 (x86_64), Compiler: GCC 10.3.0 + Clang 11.0.1, File-System: zfs, Screen Resolution: 1024x768

Compiler Notes: --build=x86_64-portbld-freebsd13.0 --disable-nls --enable-gnu-indirect-function --enable-languages=c,c++,objc,fortran --enable-multilib --enable-plugin --localstatedir=/var --mandir=/usr/local/man --with-as=/usr/local/bin/as --with-build-config=bootstrap-debug --with-gmp=/usr/local --with-ld=/usr/local/bin/ld --without-zstd

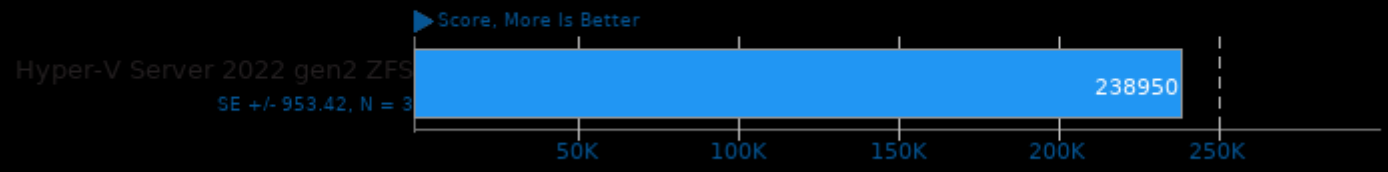
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	Hyper-V Server 2022 gen2 ZFS
PHPBench - P.B.S (Score)	238950
Standard Deviation	0.7%
Apache HTTP Server - 100 (Reqs/sec)	26739
Standard Deviation	2.4%
nginx - 100 (Reqs/sec)	203.77
Standard Deviation	0.8%
SQLite Speedtest - Timed Time - Size 1,000 (sec)	658.185
Standard Deviation	0.1%
PostgreSQL pgbench - 1 - 100 - Read Only - Average Latency (ms)	2.263
Standard Deviation	0.6%
PostgreSQL pgbench - 1 - 100 - Read Only (TPS)	44192
Standard Deviation	0.6%
OpenSSL - RSA4096 (verify/s)	20825
Standard Deviation	0.3%
OpenSSL - RSA4096 (sign/s)	318.5
Standard Deviation	0.7%
OpenSSL - SHA256 (byte/s)	1696724313
Standard Deviation	0.8%
7-Zip Compression - C.S.T (MIPS)	8828
Standard Deviation	0.2%
John The Ripper - MD5 (Real C/S)	120610
Standard Deviation	0.8%
John The Ripper - Blowfish (Real C/S)	1838
Standard Deviation	0.3%
iPerf - 192.168.1.27 - 5201 - 360 Seconds - TCP - 20 (Mbits/s)	941
t-test1 - 2 (sec)	5.705
Standard Deviation	1.9%
t-test1 - 1 (sec)	16.019
Standard Deviation	0.3%
PostgreSQL pgbench - 1 - 100 - Read Write - Average Latency (ms)	249.645
Standard Deviation	27.4%
PostgreSQL pgbench - 1 - 100 - Read Write (TPS)	436
Standard Deviation	33.5%
BlogBench - Write (Final Score)	1498
Standard Deviation	131.3%
BlogBench - Read (Final Score)	878994
Standard Deviation	19%

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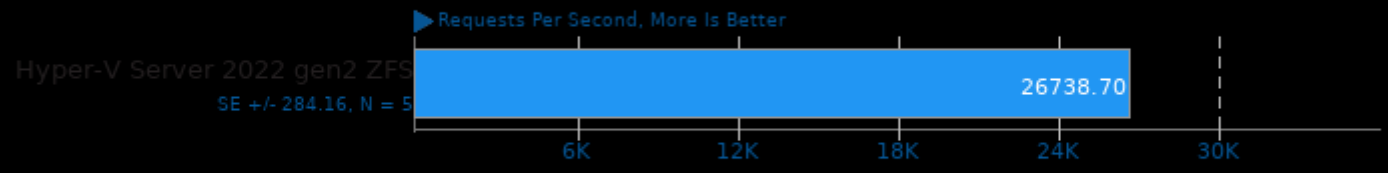
PHPBench 0.8.1

PHP Benchmark Suite



Apache HTTP Server 2.4.48

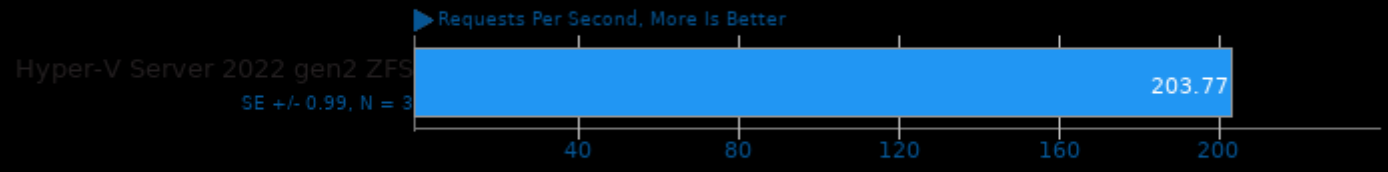
Concurrent Requests: 100



1. (CC) gcc options: -shared -fPIC -O2

nginx 1.21.1

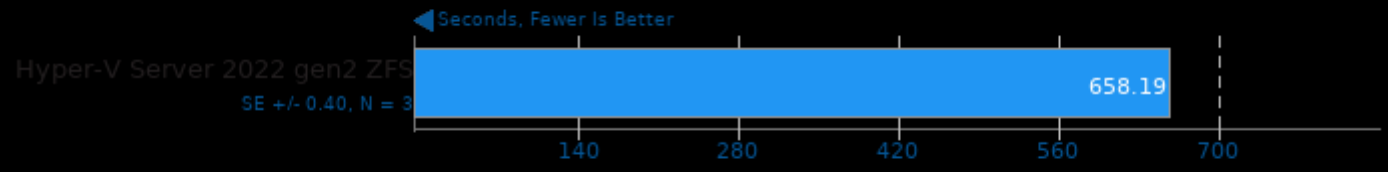
Concurrent Requests: 100



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

SQLite Speedtest 3.30

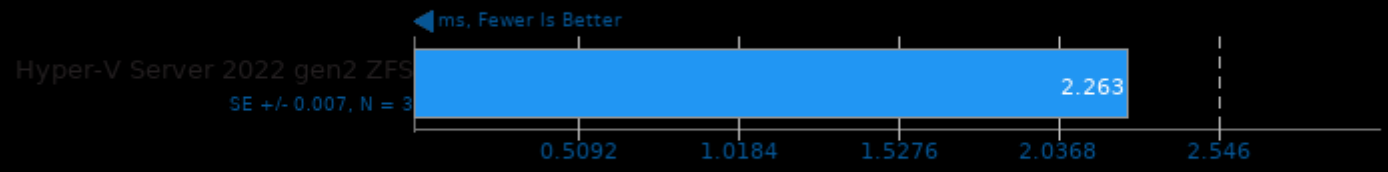
Timed Time - Size 1,000



1. (CC) gcc options: -O2 -lz -lpthread

PostgreSQL pgbench 14.0

Scaling Factor: 1 - Clients: 100 - Mode: Read Only - Average Latency

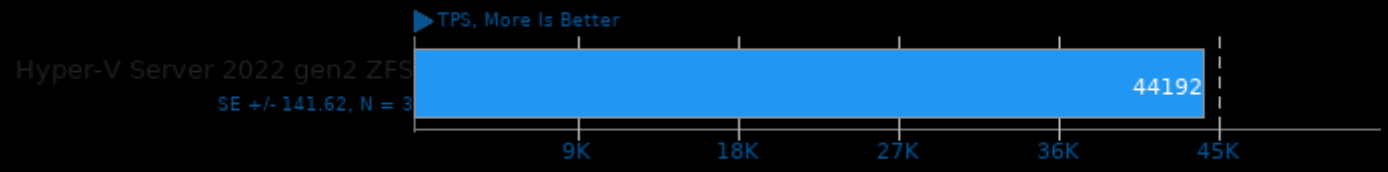


1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lexecinfo -lm

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PostgreSQL pgbench 14.0

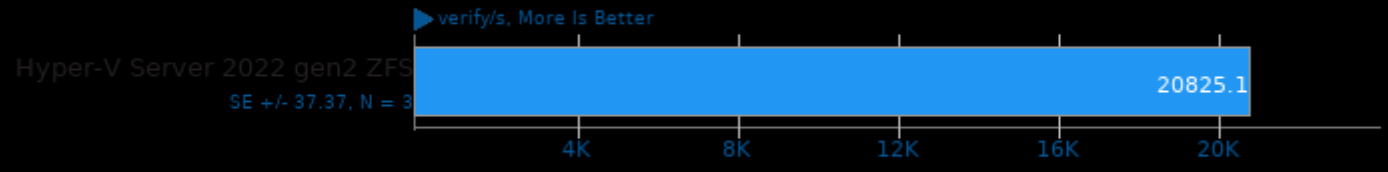
Scaling Factor: 1 - Clients: 100 - Mode: Read Only



1. (CC) gcc options: -fno-strict-aliasing -fwrapv -O2 -lpgcommon -lpgport -lpq -lpthread -lexecinfo -lm

OpenSSL 3.0

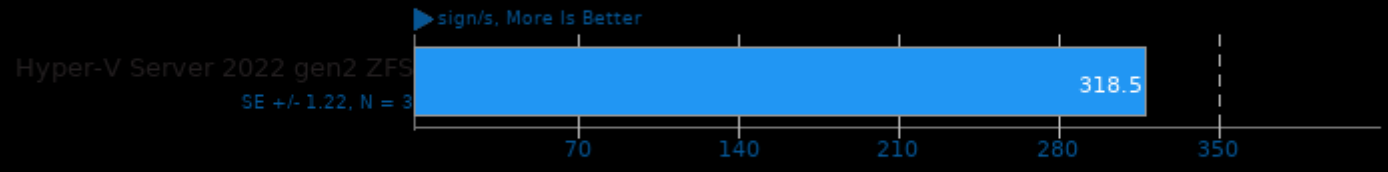
Algorithm: RSA4096



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

OpenSSL 3.0

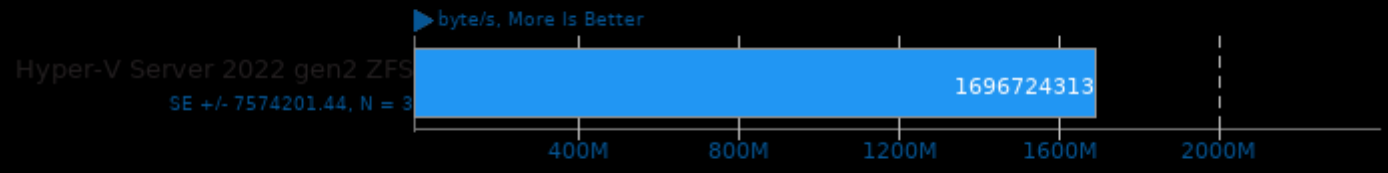
Algorithm: RSA4096



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

OpenSSL 3.0

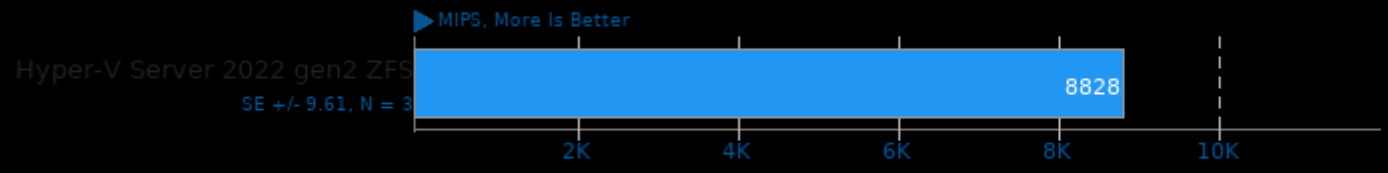
Algorithm: SHA256



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

7-Zip Compression 16.02

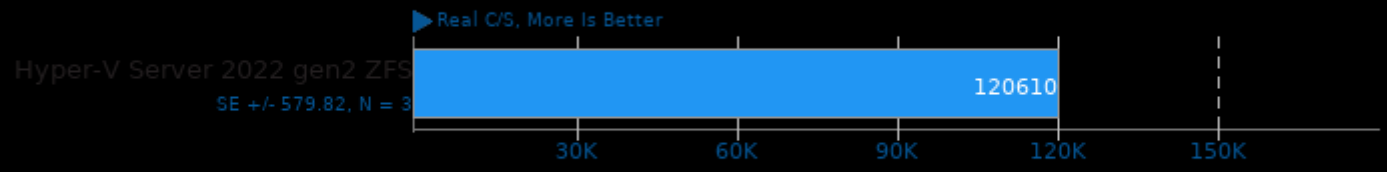
Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

John The Ripper 1.9.0-jumbo-1

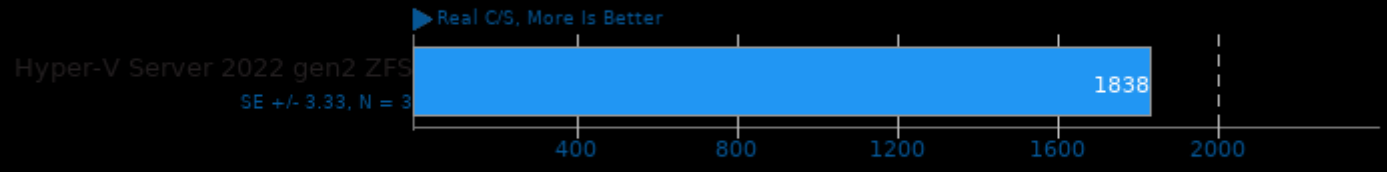
Test: MD5



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2

John The Ripper 1.9.0-jumbo-1

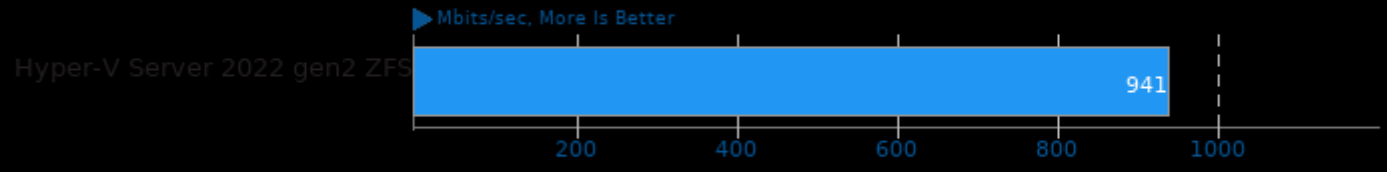
Test: Blowfish



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2

iPerf 3.7

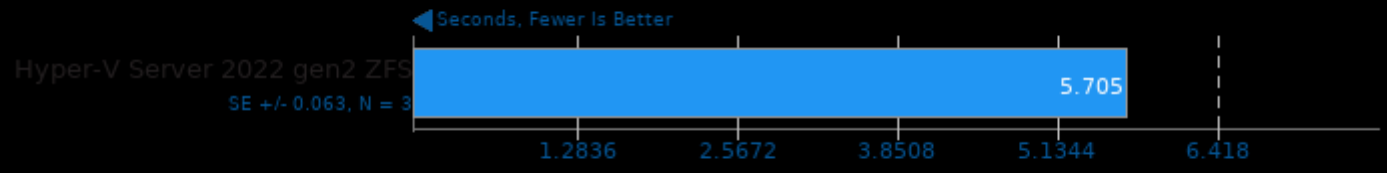
Server Address: 192.168.1.27 - Server Port: 5201 - Duration: 360 Seconds - Test: TCP - Parallel: 20



1. (CC) gcc options: -O3 -march=native -lssl -lcrypto -lm

t-test1 2017-01-13

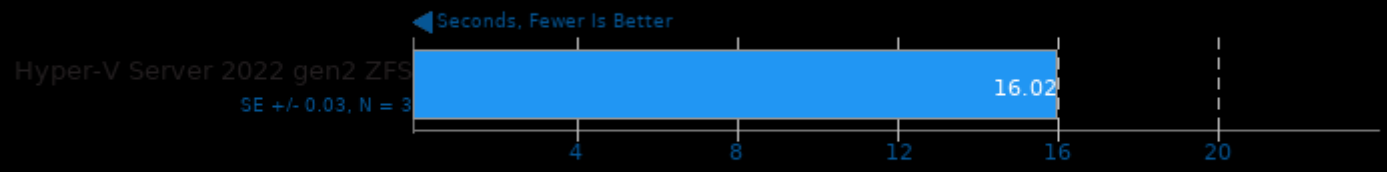
Threads: 2



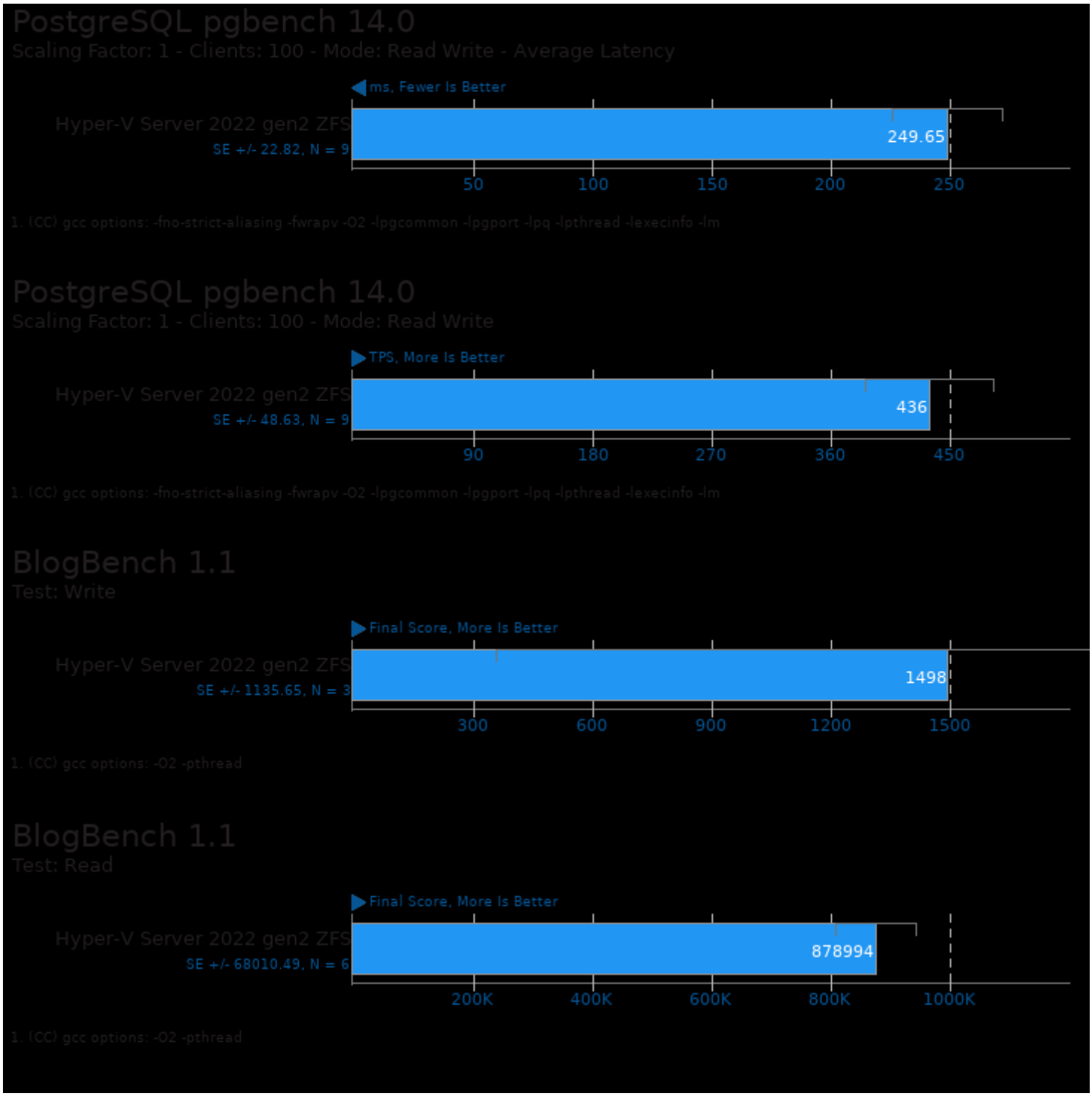
1. (CC) gcc options: -pthread

t-test1 2017-01-13

Threads: 1



1. (CC) gcc options: -pthread



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