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5950-930-22

AMD Ryzen 9 5950X 16-Core testing with a MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.H0 BIOS) and eVGA NVIDIA GeForce GTX 1060 6GB on Gentoo 2.9 via the Phoronix Test Suite.

Test Systems:

AMD Ryzen 9 5950X 16-Core

Processor: AMD Ryzen 9 5950X 16-Core @ 3.40GHz (16 Cores / 32 Threads), Motherboard: MSI MEG X570 GODLIKE (MS-7C34) v1.0 (1.H0 BIOS), Chipset: AMD Starship/Matisse, Memory: 2 x 16 GB DDR4-3733MT/s TEAMGROUP-UD4-3600, Disk: 3 x 1000GB Samsung SSD 980 PRO 1TB, Graphics: eVGA NVIDIA GeForce GTX 1060 6GB, Audio: NVIDIA GP106 HD Audio, Monitor: DELL 2707WFP, Network: Realtek Device 2600 + Realtek Killer E3000 2.5GbE + Intel Wi-Fi 6 AX200

OS: Gentoo 2.9, Kernel: 5.19.12-gentoo-harambe-edition (x86_64), Desktop: KDE Plasma 5.25.5, Display Server: X Server 1.21.1.4, Display Driver: NVIDIA 515.65.01, Compiler: GCC 11.3.0 + Clang 14.0.6 + LLVM 14.0.6, File-System: ext4, Screen Resolution: 3840x1200

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/11.3.0 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.3.0 --disable-cet --disable-default-pie --disable-default-ssp --disable-esp --disable-fixed-point --disable-isl-version-check --disable-libada --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-libvtv --disable-nls --disable-systemtap --disable-valgrind-annotations --disable-vtable-verify --disable-werror --enable-_cxa_atexit --enable-checking=release --enable-clocale-gnu --enable-languages=c,c++,go,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/11.3.0/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/11.3.0/man --with-build-config=bootstrap-lto --with-isl --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/11.3.0/python --with-zstd

Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016

Java Notes: OpenJDK Runtime Environment 17.0.3_p7-r1 (build 17.0.3+7)

Python Notes: Python 3.10.6

Security Notes: itlb_multihit: Not affected + I1tf: Not affected + mds: Not affected + meltdown: Not affected + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled PBRSB-eIBRs: Not affected + srbds: Not affected + tsx_async_abort: Not affected

AMD Ryzen 9 5950X 16-Core

Sysbench - CPU (Events/sec)	92547
Standard Deviation	0.1%
Sysbench - RAM / Memory (MiB/sec)	14884
Standard Deviation	0.2%
Apache Spark - 20000000 - 2000 - I.J.T.T (sec)	10.55
Standard Deviation	5.7%
Apache Spark - 20000000 - 2000 - R.T.T (sec)	8.94
Standard Deviation	5%
Apache Spark - 20000000 - 2000 - Group By Test Time (sec)	6.65
Standard Deviation	1.7%
Apache Spark - 20000000 - 2000 - C.P.B.U.D (sec)	3.86
Standard Deviation	0.8%
Apache Spark - 20000000 - 2000 - C.P.B (sec)	85.05
Standard Deviation	1%
Apache Spark - 20000000 - 2000 - S.5.B.T (sec)	12.43
Standard Deviation	4.4%
Apache Spark - 20000000 - 1000 - Group By Test Time (sec)	6.61
Standard Deviation	2.3%
Apache Spark - 20000000 - 1000 - C.P.B.U.D (sec)	3.87
Standard Deviation	0.7%
Apache Spark - 20000000 - 1000 - C.P.B (sec)	84.63
Standard Deviation	1.2%
Apache Spark - 20000000 - 1000 - S.5.B.T (sec)	12.32
Standard Deviation	5.4%
Apache Spark - 10000000 - 2000 - B.I.J.T.T (sec)	5.36
Standard Deviation	5.9%
Apache Spark - 10000000 - 2000 - I.J.T.T (sec)	5.84
Standard Deviation	5.4%
Apache Spark - 10000000 - 2000 - R.T.T (sec)	5.01
Standard Deviation	3%
Apache Spark - 10000000 - 2000 - Group By Test Time (sec)	5.04
Standard Deviation	2.4%
Apache Spark - 10000000 - 2000 - C.P.B.U.D (sec)	3.81
Standard Deviation	3.2%
Apache Spark - 10000000 - 2000 - C.P.B (sec)	84.51
Standard Deviation	0.7%
Apache Spark - 10000000 - 2000 - S.5.B.T (sec)	7.55
Standard Deviation	3.6%

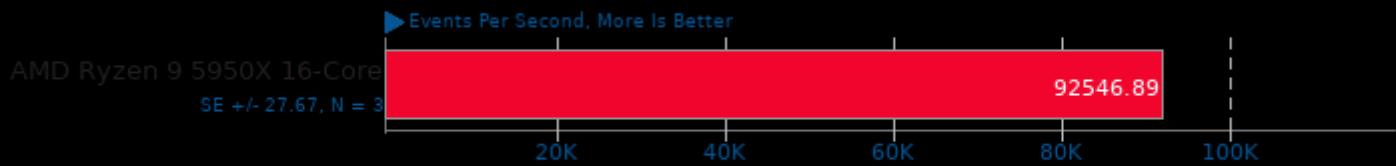
Apache Spark - 10000000 - 1000 - I.J.T.T (sec)	5.44
Standard Deviation	1.1%
Apache Spark - 10000000 - 1000 - R.T.T (sec)	4.78
Standard Deviation	0.9%
Apache Spark - 10000000 - 1000 - Group By Test Time (sec)	4.83
Standard Deviation	3.2%
Apache Spark - 10000000 - 1000 - C.P.B.U.D (sec)	3.86
Standard Deviation	0.7%
Apache Spark - 10000000 - 1000 - C.P.B (sec)	84.20
Standard Deviation	1.2%
Apache Spark - 10000000 - 1000 - S.5.B.T (sec)	7.57
Standard Deviation	0.9%
Apache Spark - 20000000 - 500 - Group By Test Time (sec)	5.88
Standard Deviation	1.1%
Apache Spark - 20000000 - 500 - C.P.B.U.D (sec)	3.83
Standard Deviation	0.4%
Apache Spark - 20000000 - 500 - C.P.B (sec)	85.22
Standard Deviation	0.9%
Apache Spark - 20000000 - 500 - S.5.B.T (sec)	11.246000651
Standard Deviation	0.2%
Apache Spark - 20000000 - 100 - R.T.T (sec)	9.37
Standard Deviation	5.4%
Apache Spark - 20000000 - 100 - Group By Test Time (sec)	6.89
Standard Deviation	3.2%
Apache Spark - 20000000 - 100 - C.P.B.U.D (sec)	3.83
Standard Deviation	3%
Apache Spark - 20000000 - 100 - C.P.B (sec)	84.71
Standard Deviation	1.2%
Apache Spark - 20000000 - 100 - S.5.B.T (sec)	12.669619299
Standard Deviation	4.7%
Apache Spark - 10000000 - 500 - I.J.T.T (sec)	5.13
Standard Deviation	4.7%
Apache Spark - 10000000 - 500 - R.T.T (sec)	4.59
Standard Deviation	3.2%
Apache Spark - 10000000 - 500 - Group By Test Time (sec)	4.31
Standard Deviation	1.8%
Apache Spark - 10000000 - 500 - C.P.B.U.D (sec)	3.85
Standard Deviation	0.9%
Apache Spark - 10000000 - 500 - C.P.B (sec)	84.68
Standard Deviation	1.2%
Apache Spark - 10000000 - 500 - S.5.B.T (sec)	6.85
Standard Deviation	4.2%
Apache Spark - 10000000 - 100 - I.J.T.T (sec)	5.37
Standard Deviation	5.5%
Apache Spark - 10000000 - 100 - R.T.T (sec)	4.81
Standard Deviation	3.3%
Apache Spark - 10000000 - 100 - Group By Test Time (sec)	4.86
Standard Deviation	2.3%
Apache Spark - 10000000 - 100 - C.P.B.U.D (sec)	3.88
Standard Deviation	0.4%
Apache Spark - 10000000 - 100 - C.P.B (sec)	84.318564078
Standard Deviation	2%
Apache Spark - 10000000 - 100 - S.5.B.T (sec)	7.04

	Standard Deviation	1%
Apache Spark - 1000000 - 2000 - B.I.J.T.T (sec)	1.48	
	Standard Deviation	5.3%
Apache Spark - 1000000 - 2000 - I.J.T.T (sec)	1.81	
	Standard Deviation	2%
Apache Spark - 1000000 - 2000 - R.T.T (sec)	1.74	
	Standard Deviation	1%
Apache Spark - 1000000 - 2000 - Group By Test Time (sec)	3.11	
	Standard Deviation	2.8%
Apache Spark - 1000000 - 2000 - C.P.B.U.D (sec)	3.86	
	Standard Deviation	0.6%
Apache Spark - 1000000 - 2000 - C.P.B (sec)	84.446973213	
	Standard Deviation	1.1%
Apache Spark - 1000000 - 2000 - S.5.B.T (sec)	2.52	
	Standard Deviation	2.3%
Apache Spark - 1000000 - 1000 - B.I.J.T.T (sec)	1.04	
	Standard Deviation	5%
Apache Spark - 1000000 - 1000 - I.J.T.T (sec)	1.28	
	Standard Deviation	2.3%
Apache Spark - 1000000 - 1000 - R.T.T (sec)	1.48	
	Standard Deviation	4.4%
Apache Spark - 1000000 - 1000 - Group By Test Time (sec)	2.64	
	Standard Deviation	2.1%
Apache Spark - 1000000 - 1000 - C.P.B.U.D (sec)	3.82	
	Standard Deviation	1.1%
Apache Spark - 1000000 - 1000 - C.P.B (sec)	83.960503366	
	Standard Deviation	1.4%
Apache Spark - 1000000 - 1000 - S.5.B.T (sec)	2.22	
	Standard Deviation	2.3%
Apache Spark - 1000000 - 500 - B.I.J.T.T (sec)	0.93	
	Standard Deviation	4.5%
Apache Spark - 1000000 - 500 - I.J.T.T (sec)	1.20	
	Standard Deviation	4%
Apache Spark - 1000000 - 500 - R.T.T (sec)	1.38	
	Standard Deviation	1%
Apache Spark - 1000000 - 500 - Group By Test Time (sec)	2.71	
	Standard Deviation	1.5%
Apache Spark - 1000000 - 500 - C.P.B.U.D (sec)	3.61	
	Standard Deviation	5.1%
Apache Spark - 1000000 - 500 - C.P.B (sec)	84.546892328	
	Standard Deviation	1%
Apache Spark - 1000000 - 500 - S.5.B.T (sec)	2.25	
	Standard Deviation	2.1%
Apache Spark - 1000000 - 100 - I.J.T.T (sec)	1.13	
	Standard Deviation	1.8%
Apache Spark - 1000000 - 100 - R.T.T (sec)	1.43	
	Standard Deviation	4.8%
Apache Spark - 1000000 - 100 - Group By Test Time (sec)	2.91	
	Standard Deviation	0.1%
Apache Spark - 1000000 - 100 - C.P.B.U.D (sec)	3.600410802	
	Standard Deviation	5.1%
Apache Spark - 1000000 - 100 - C.P.B (sec)	83.916409069	
	Standard Deviation	1.1%

Apache Spark - 1000000 - 100 - S.5.B.T (sec)	2.20
Standard Deviation	0.5%
FFmpeg - H.2.H.T.N.D (sec)	4.222
Standard Deviation	1.5%
Timed Linux Kernel Compilation - defconfig (sec)	43.330
Standard Deviation	0.8%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	47.32
Standard Deviation	1.5%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	22.05
Standard Deviation	0.6%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	1.06
Standard Deviation	0.9%
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	19.25
Standard Deviation	0.7%
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	11.09
Standard Deviation	0.3%
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.35
Standard Deviation	1.6%
C-Blosc - blosc1z bitshuffle (MB/s)	16633
Standard Deviation	0.2%
C-Blosc - blosc1z shuffle (MB/s)	28159
Standard Deviation	0.9%
Apache Spark - 20000000 - 2000 - B.I.J.T.T (sec)	9.84
Standard Deviation	6.2%
Apache Spark - 20000000 - 1000 - B.I.J.T.T (sec)	9.40
Standard Deviation	8.7%
Apache Spark - 20000000 - 1000 - I.J.T.T (sec)	9.95
Standard Deviation	7.3%
Apache Spark - 20000000 - 1000 - R.T.T (sec)	8.78
Standard Deviation	6.1%
Apache Spark - 10000000 - 1000 - B.I.J.T.T (sec)	5.39
Standard Deviation	12.1%
Apache Spark - 20000000 - 500 - B.I.J.T.T (sec)	8.52
Standard Deviation	10.2%
Apache Spark - 20000000 - 500 - I.J.T.T (sec)	9.45
Standard Deviation	7%
Apache Spark - 20000000 - 500 - R.T.T (sec)	8.47
Standard Deviation	7.7%
Apache Spark - 20000000 - 100 - B.I.J.T.T (sec)	10.41
Standard Deviation	6.6%
Apache Spark - 20000000 - 100 - I.J.T.T (sec)	10.65
Standard Deviation	6.2%
Apache Spark - 10000000 - 500 - B.I.J.T.T (sec)	4.66
Standard Deviation	7.6%
Apache Spark - 10000000 - 100 - B.I.J.T.T (sec)	5.19
Standard Deviation	9.8%
Apache Spark - 1000000 - 100 - B.I.J.T.T (sec)	0.85
Standard Deviation	8.8%

Sysbench 1.0.20

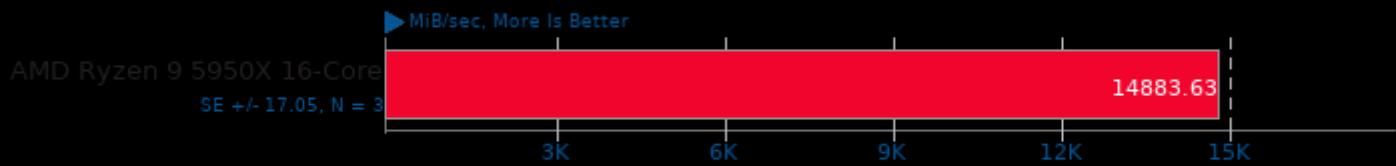
Test: CPU



1. (CC) gcc options: -O2 -funroll-loops -rdynamic -ldl -laio -lm

Sysbench 1.0.20

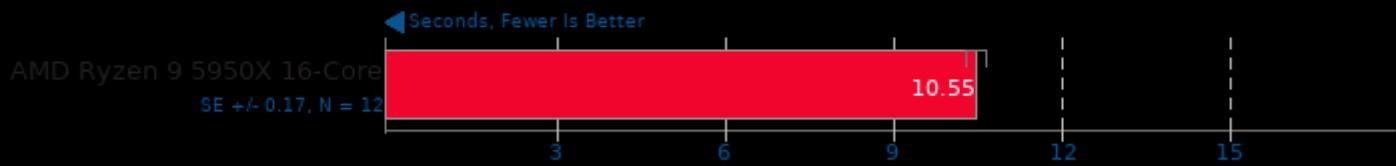
Test: RAM / Memory



1. (CC) gcc options: -O2 -funroll-loops -rdynamic -ldl -laio -lm

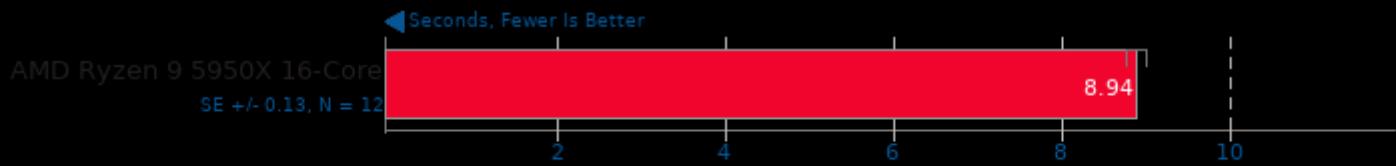
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Inner Join Test Time



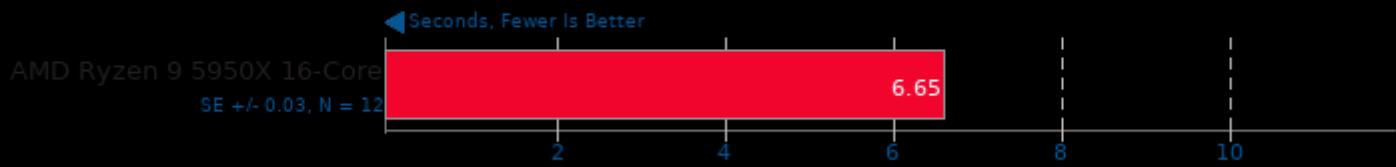
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Repartition Test Time



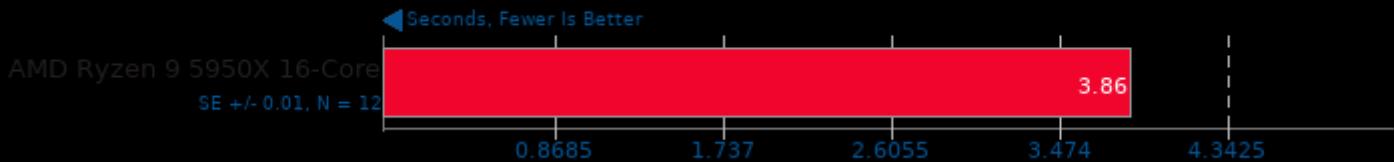
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Group By Test Time



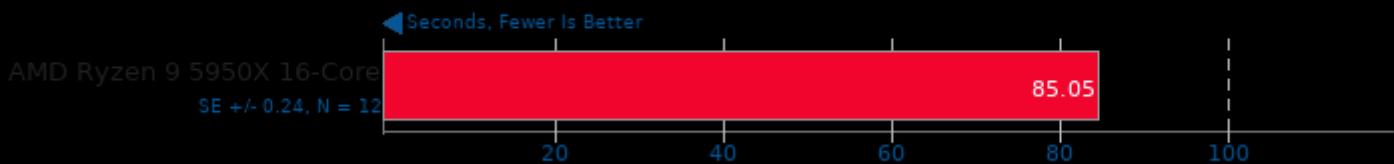
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Calculate Pi Benchmark Using Dataframe



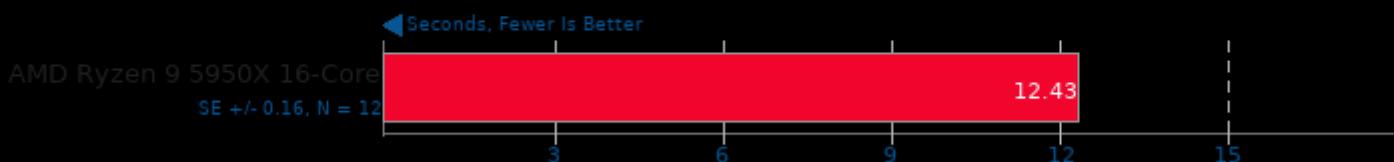
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Calculate Pi Benchmark



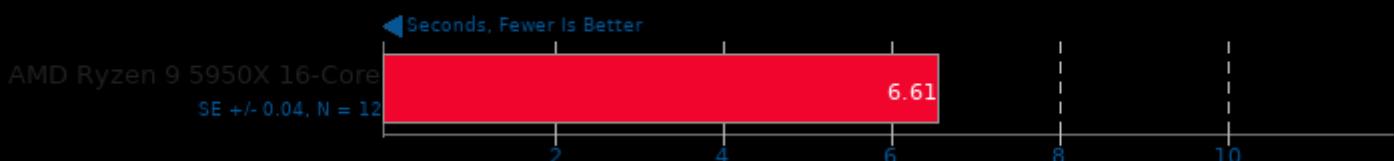
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - SHA-512 Benchmark Time



Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Group By Test Time



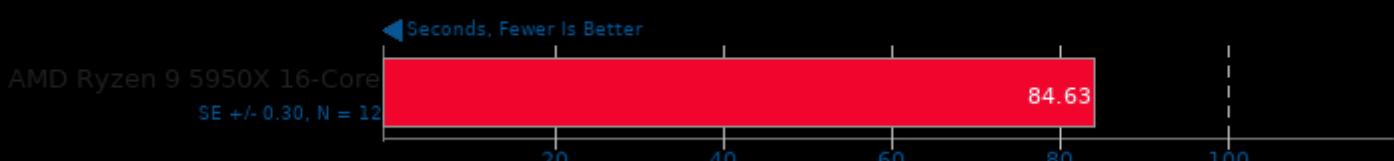
Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Calculate Pi Benchmark Using Dataframe



Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Calculate Pi Benchmark



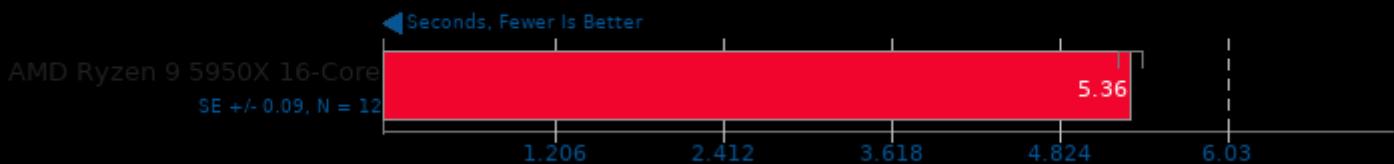
Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - SHA-512 Benchmark Time



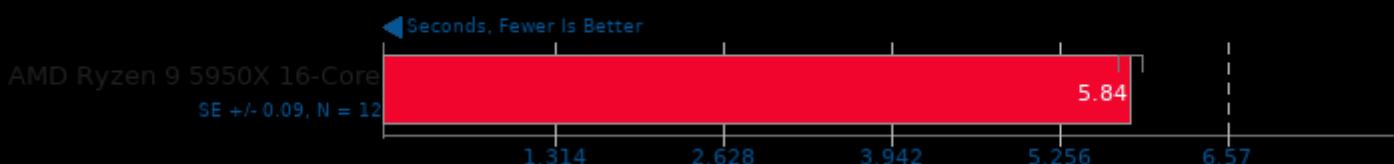
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Broadcast Inner Join Test Time



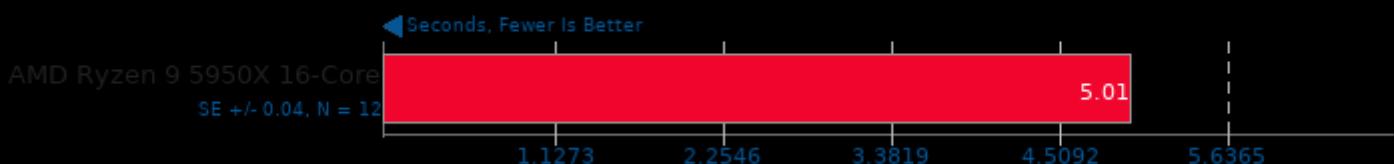
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Inner Join Test Time



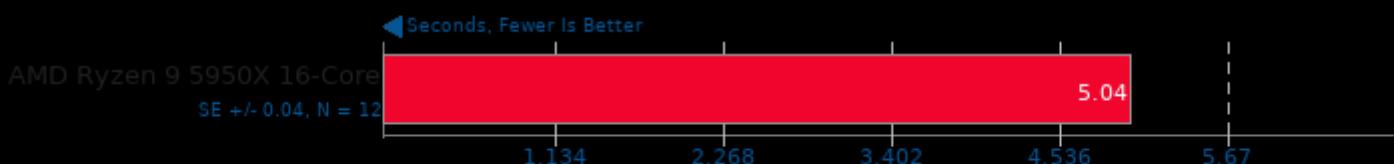
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Repartition Test Time



Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Group By Test Time



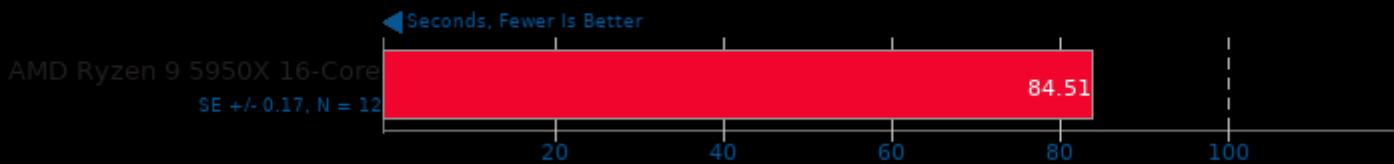
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Calculate Pi Benchmark Using Dataframe



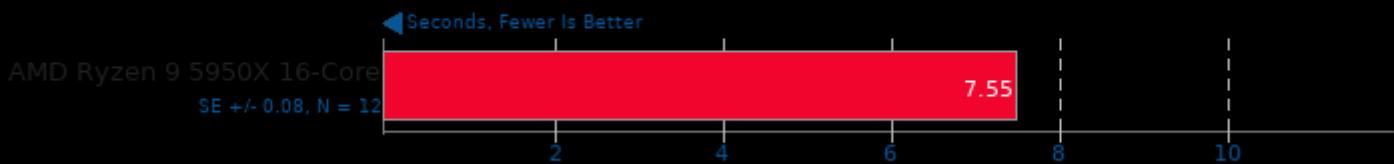
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - Calculate Pi Benchmark



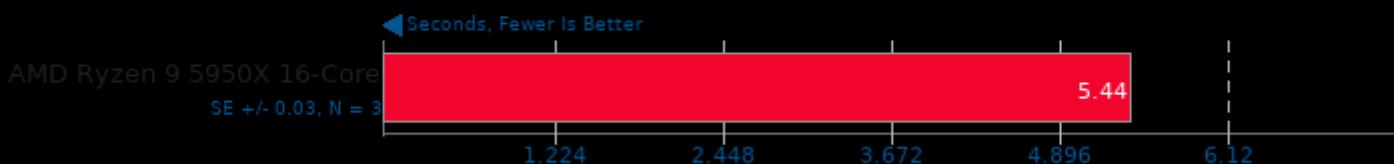
Apache Spark 3.3

Row Count: 10000000 - Partitions: 2000 - SHA-512 Benchmark Time



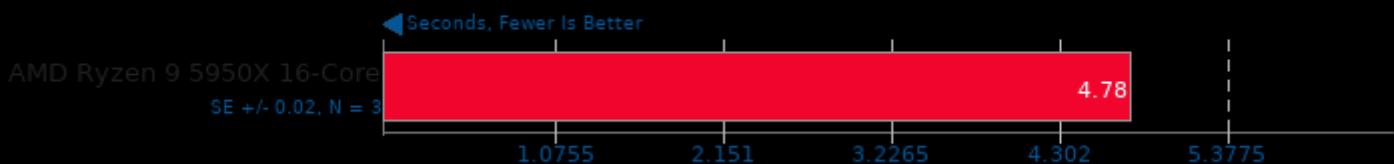
Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - Inner Join Test Time



Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - Repartition Test Time



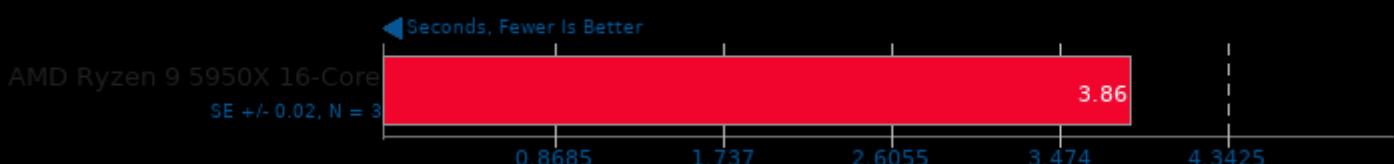
Apache Spark 3.3

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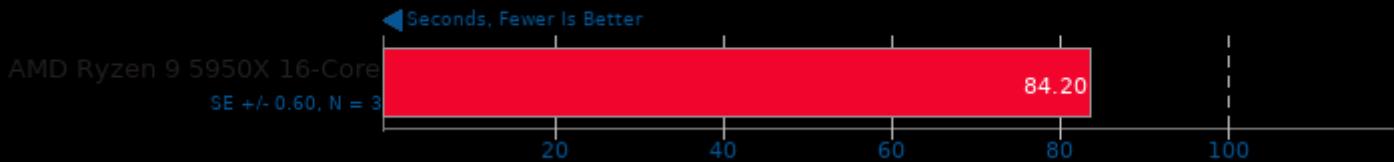
Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - Calculate Pi Benchmark Using Dataframe



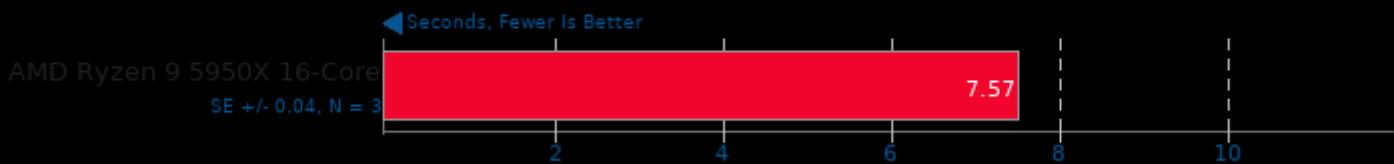
Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - Calculate Pi Benchmark



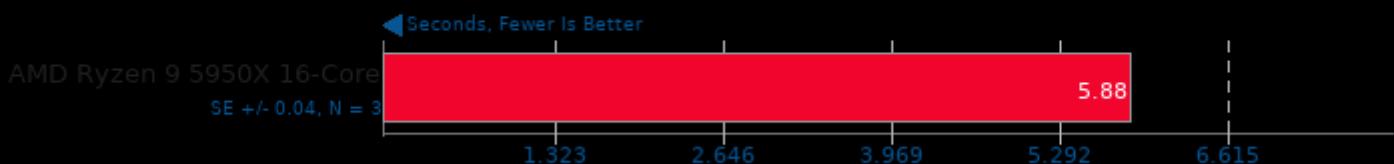
Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - SHA-512 Benchmark Time



Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Group By Test Time



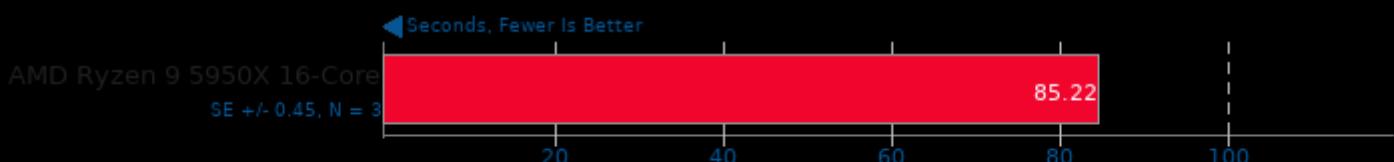
Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Calculate Pi Benchmark Using Dataframe



Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Calculate Pi Benchmark



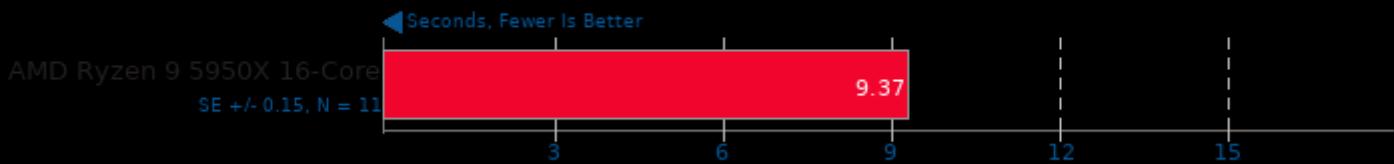
Apache Spark 3.3

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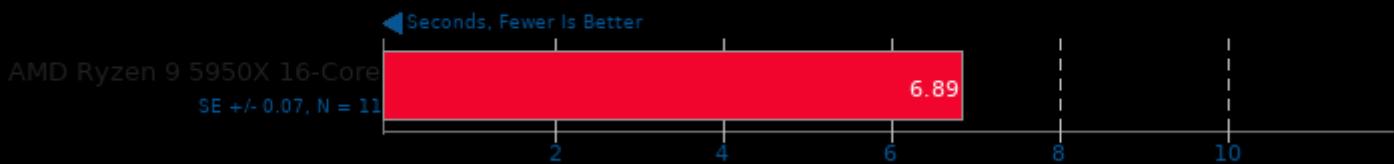
Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - Repartition Test Time



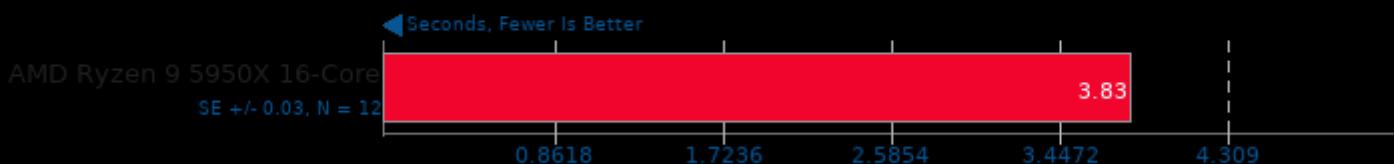
Apache Spark 3.3

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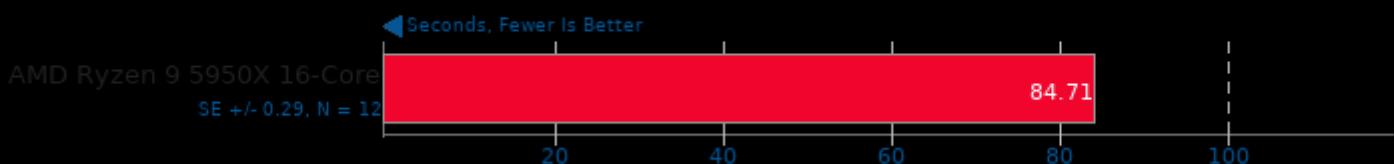
Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - Calculate Pi Benchmark Using Dataframe



Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - Calculate Pi Benchmark



Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - SHA-512 Benchmark Time



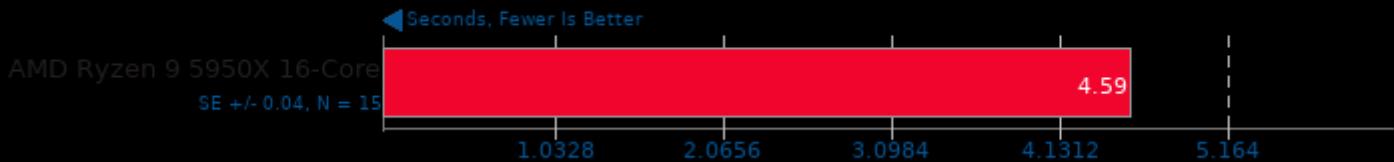
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Inner Join Test Time



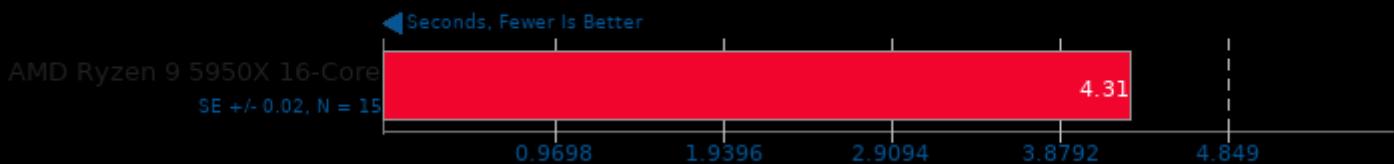
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Repartition Test Time



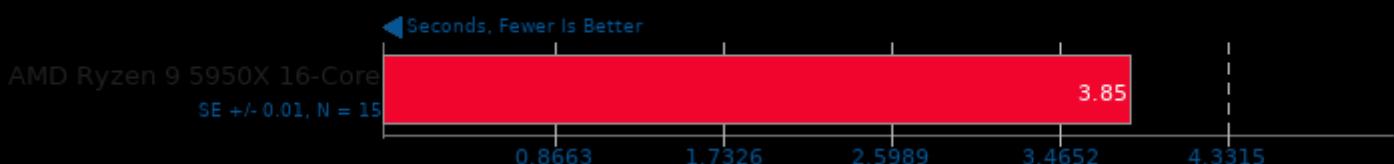
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Group By Test Time



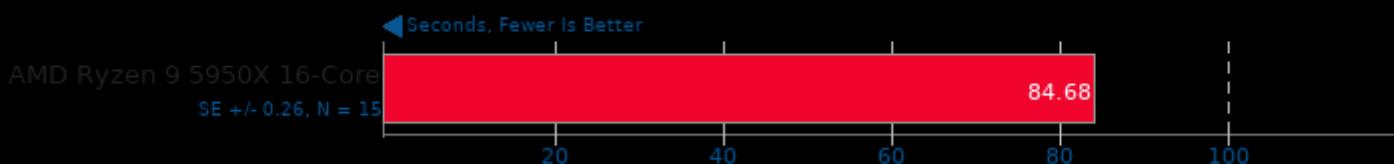
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Calculate Pi Benchmark Using Dataframe



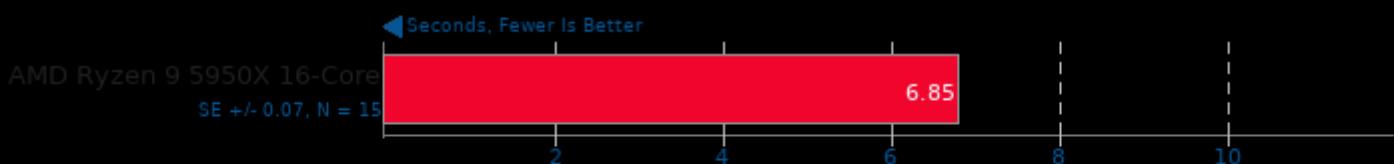
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Calculate Pi Benchmark



Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - SHA-512 Benchmark Time



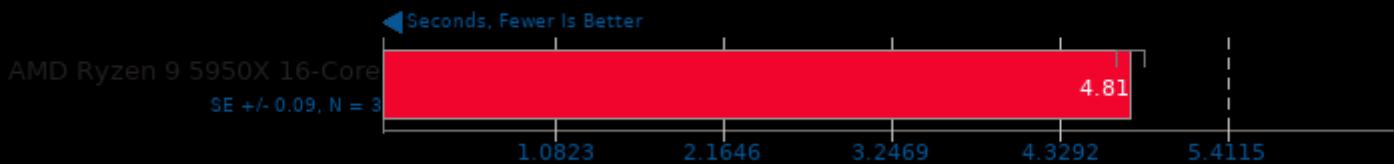
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Inner Join Test Time



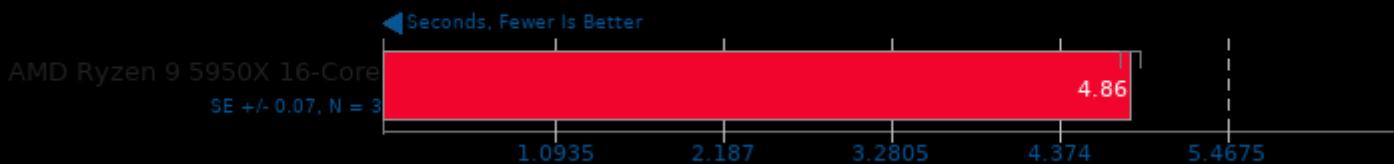
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Repartition Test Time



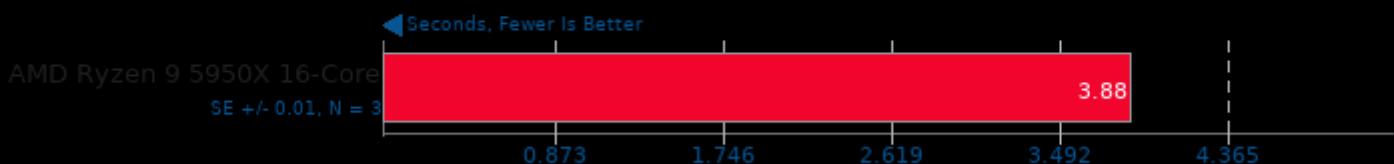
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Group By Test Time



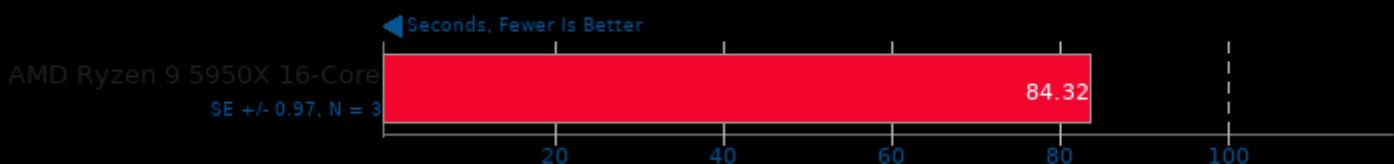
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Calculate Pi Benchmark Using Dataframe



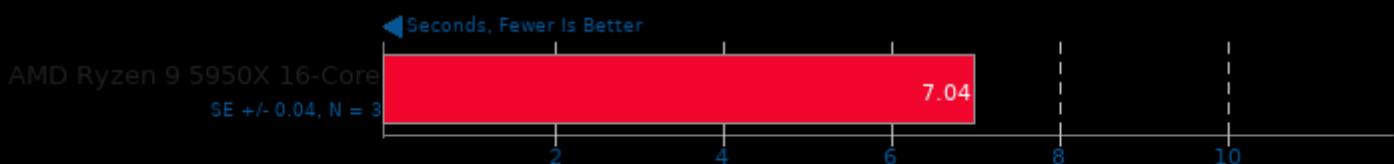
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Calculate Pi Benchmark



Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - SHA-512 Benchmark Time



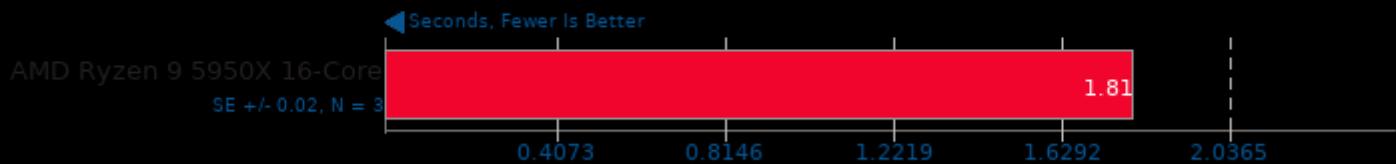
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Broadcast Inner Join Test Time



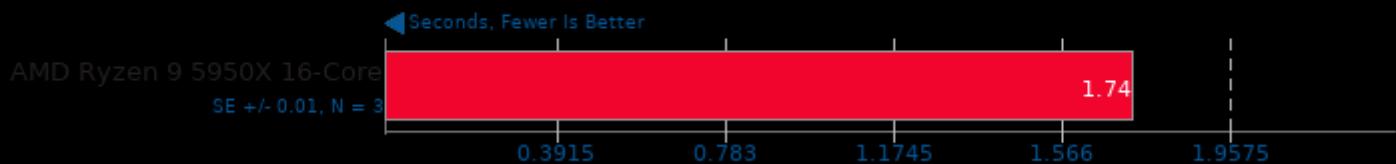
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Inner Join Test Time



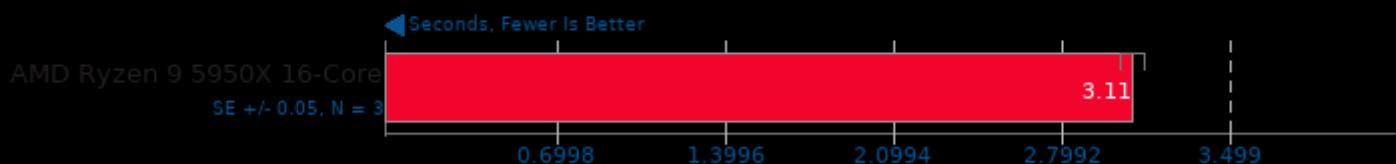
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Repartition Test Time



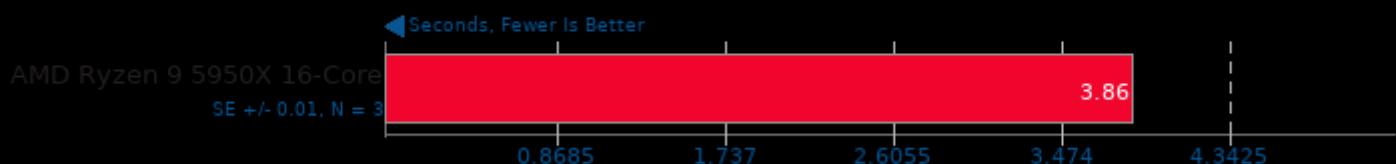
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Group By Test Time



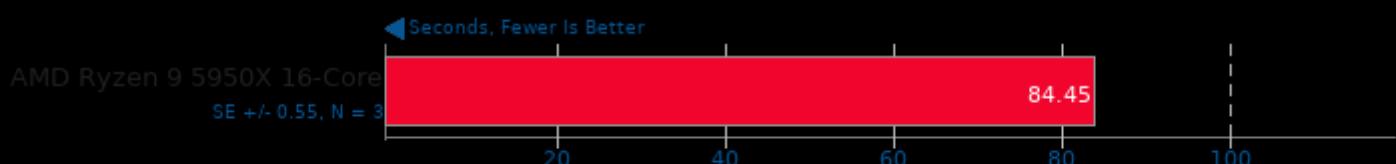
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Calculate Pi Benchmark Using Dataframe



Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - Calculate Pi Benchmark



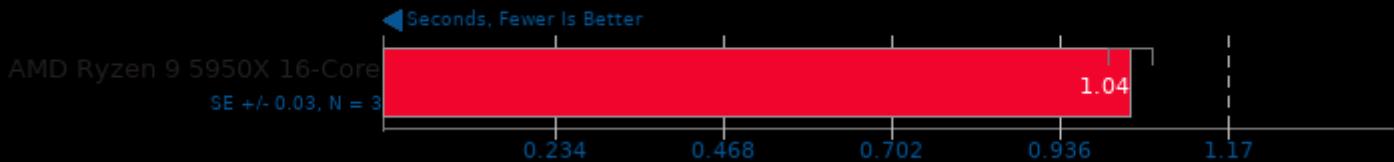
Apache Spark 3.3

Row Count: 1000000 - Partitions: 2000 - SHA-512 Benchmark Time



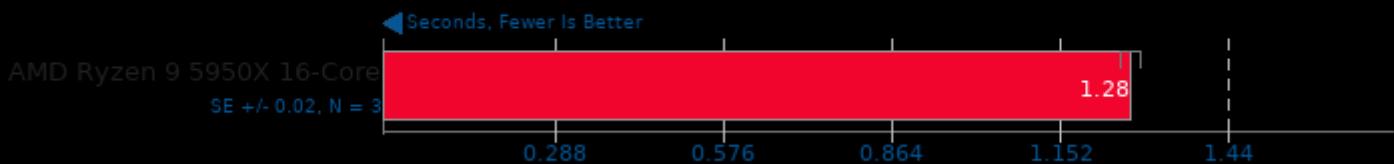
Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Broadcast Inner Join Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Inner Join Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Repartition Test Time



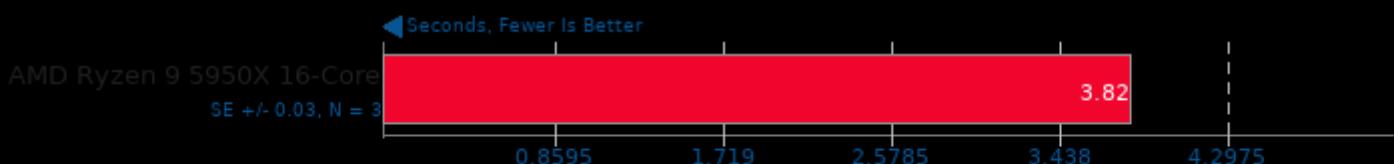
Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Group By Test Time



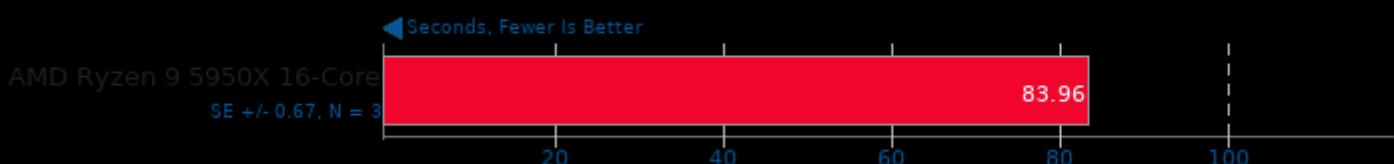
Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Calculate Pi Benchmark Using Dataframe



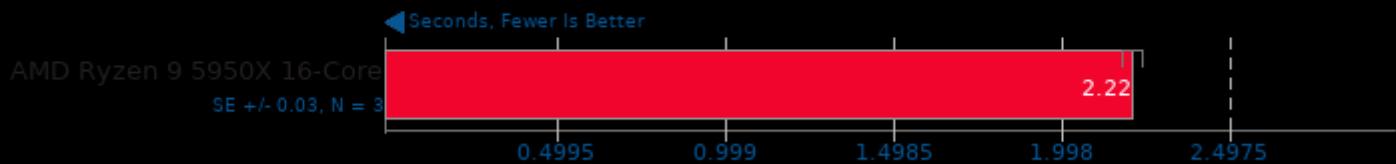
Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - Calculate Pi Benchmark



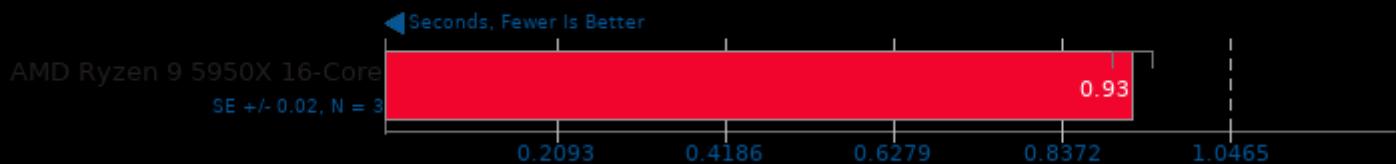
Apache Spark 3.3

Row Count: 1000000 - Partitions: 1000 - SHA-512 Benchmark Time



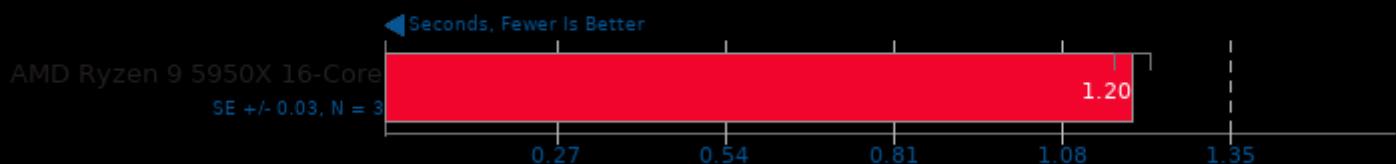
Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Broadcast Inner Join Test Time



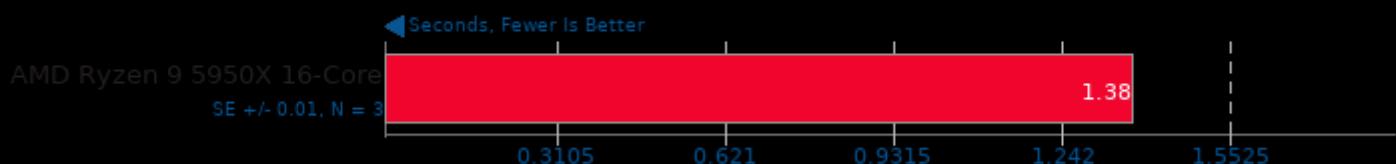
Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Inner Join Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Repartition Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Group By Test Time



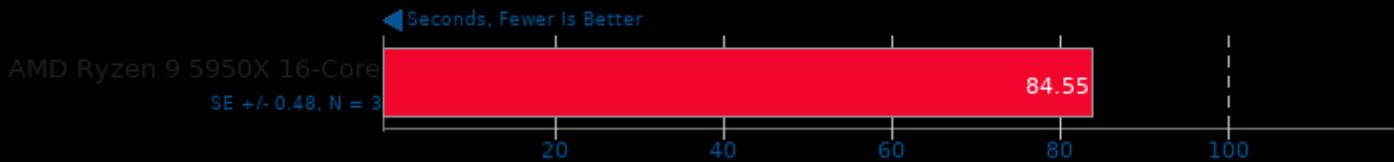
Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Calculate Pi Benchmark Using Dataframe



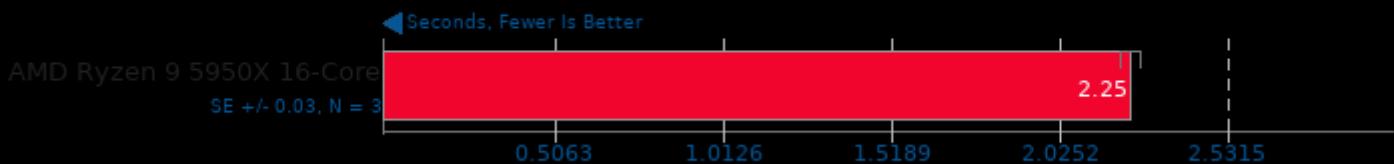
Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - Calculate Pi Benchmark



Apache Spark 3.3

Row Count: 1000000 - Partitions: 500 - SHA-512 Benchmark Time



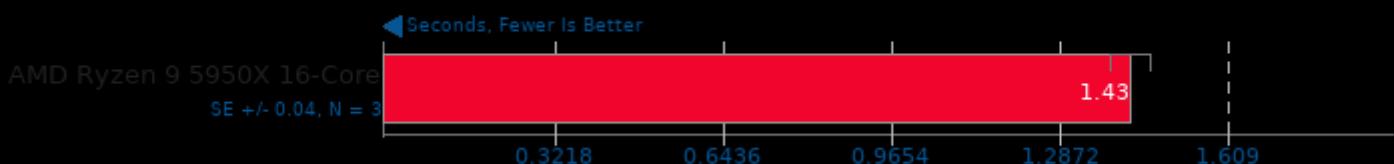
Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Inner Join Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Repartition Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Group By Test Time



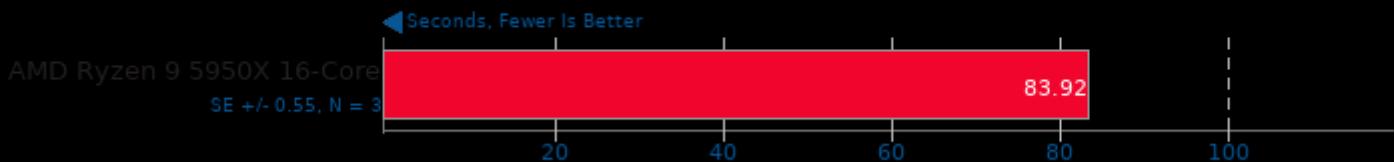
Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Calculate Pi Benchmark Using Dataframe



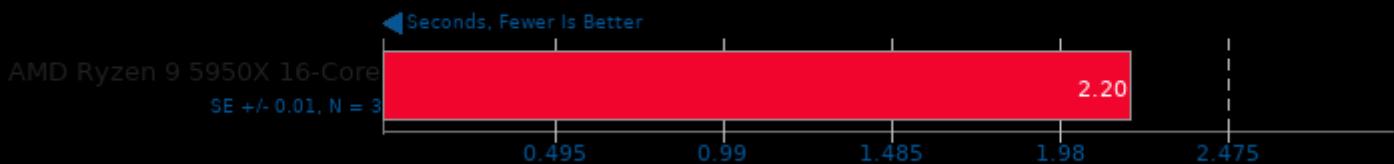
Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Calculate Pi Benchmark



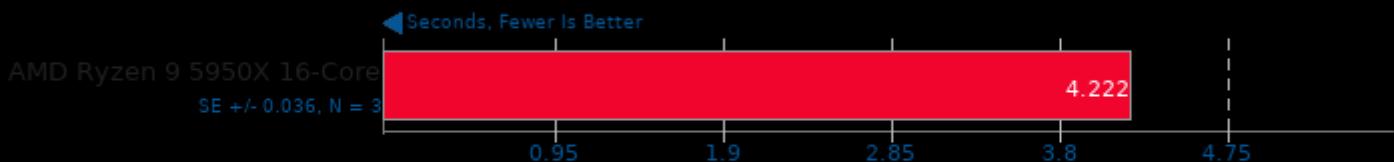
Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - SHA-512 Benchmark Time



FFmpeg 4.0.2

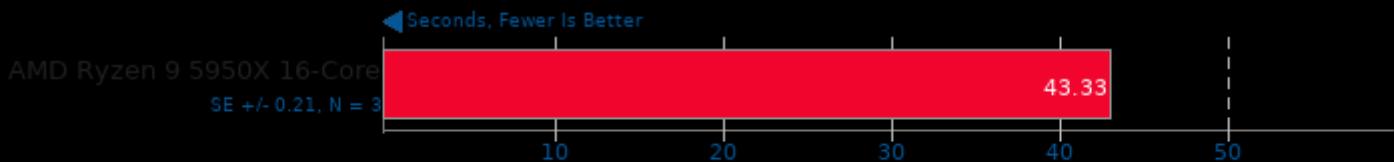
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lXv -lX11 -lXext -lm -lxcb -lxcb-shm -lxcb-shape -lxcb-xfixes -l

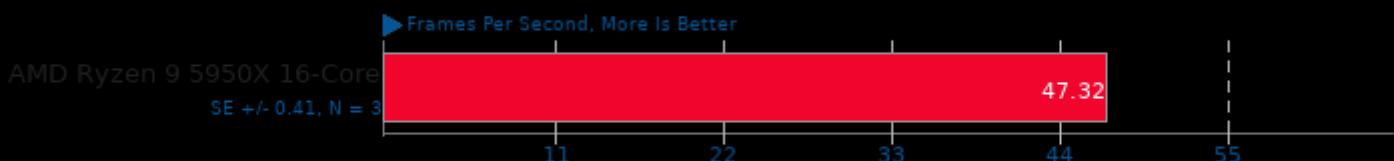
Timed Linux Kernel Compilation 5.18

Build: defconfig



AOM AV1 3.5

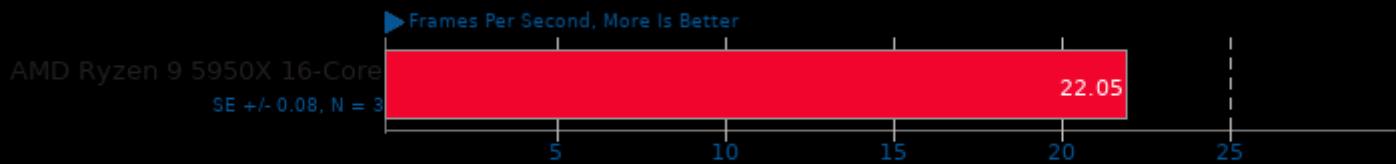
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm

AOM AV1 3.5

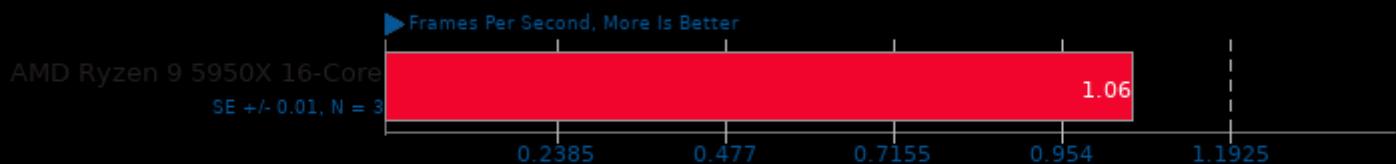
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-math-errno

AOM AV1 3.5

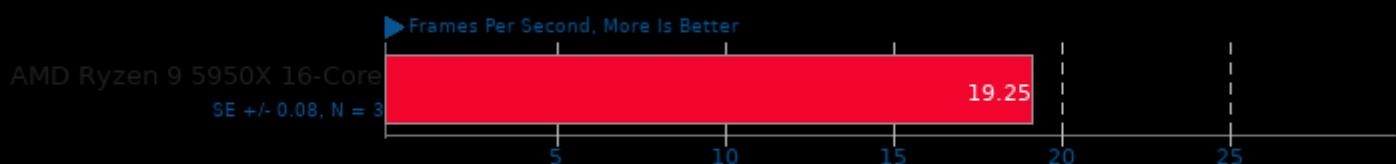
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-math-errno

AOM AV1 3.5

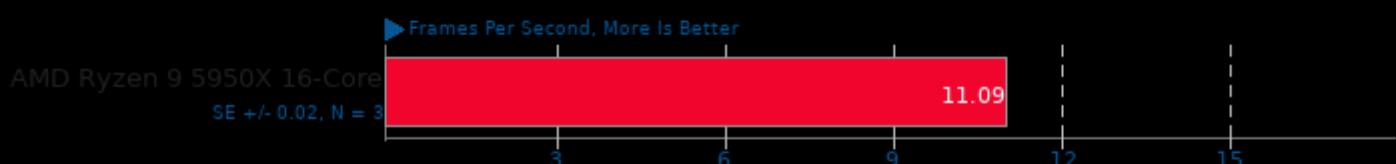
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-math-errno

AOM AV1 3.5

Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-math-errno

AOM AV1 3.5

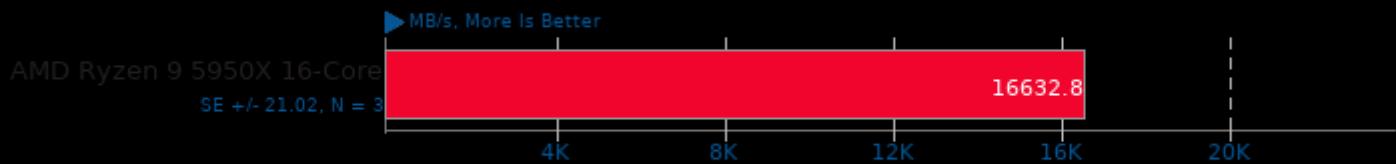
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K



1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -fno-math-errno

C-Blosc 2.3

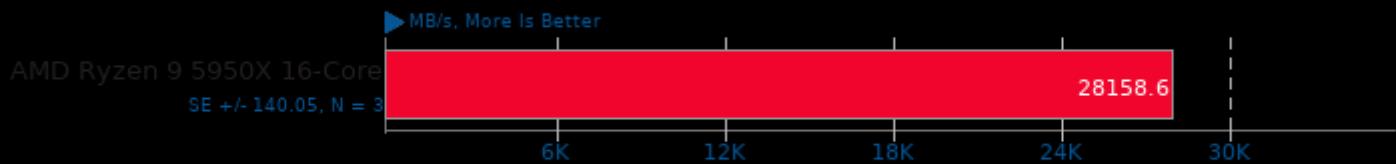
Test: blosclz bitshuffle



1. (CC) gcc options: -std=gnu99 -O3 -frt -lm

C-Blosc 2.3

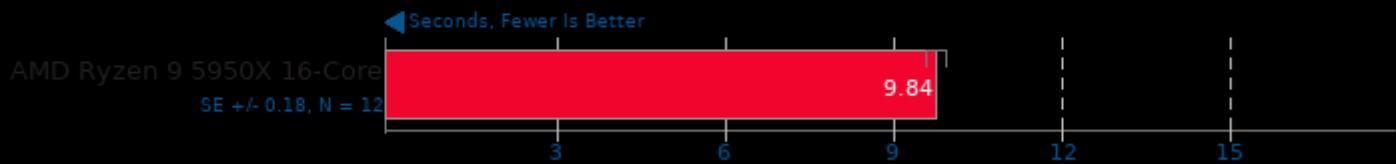
Test: blosclz shuffle



1. (CC) gcc options: -std=gnu99 -O3 -frt -lm

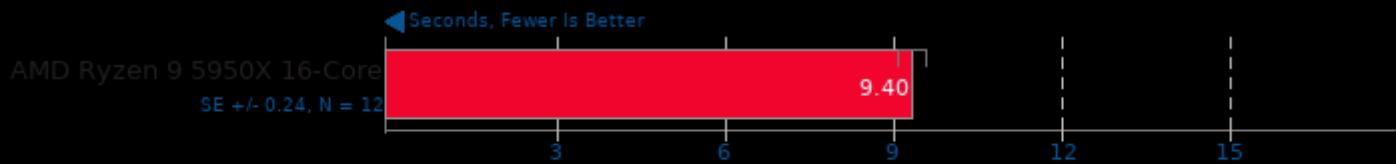
Apache Spark 3.3

Row Count: 20000000 - Partitions: 2000 - Broadcast Inner Join Test Time



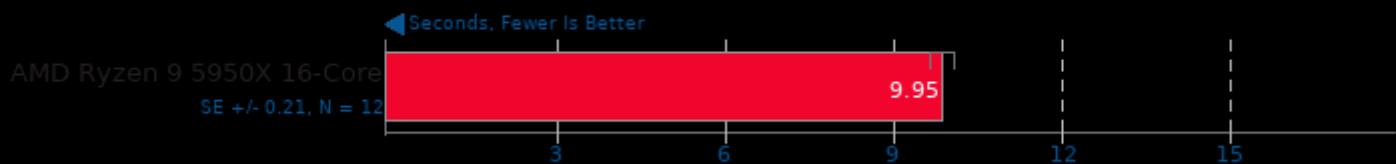
Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Broadcast Inner Join Test Time



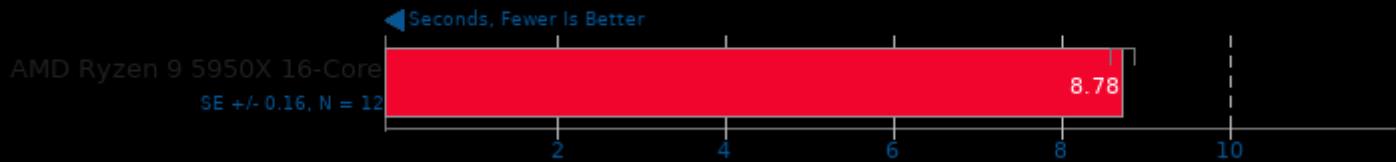
Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Inner Join Test Time



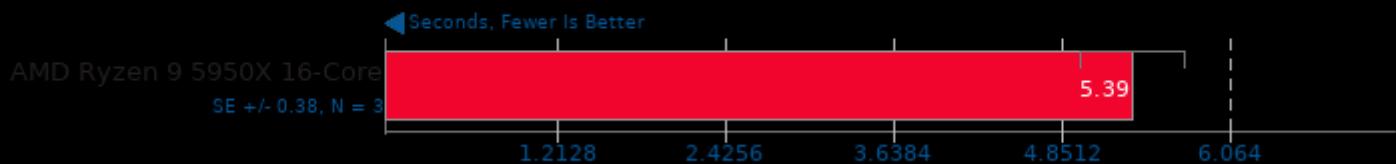
Apache Spark 3.3

Row Count: 20000000 - Partitions: 1000 - Repartition Test Time



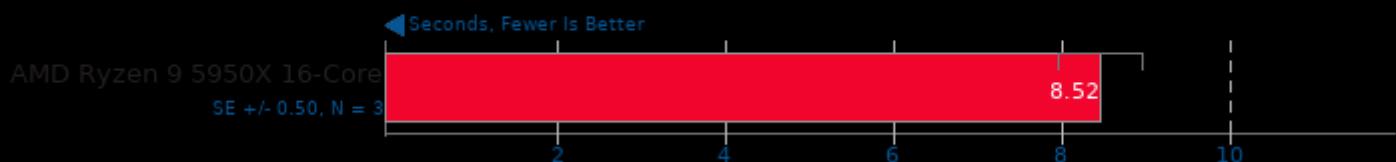
Apache Spark 3.3

Row Count: 10000000 - Partitions: 1000 - Broadcast Inner Join Test Time



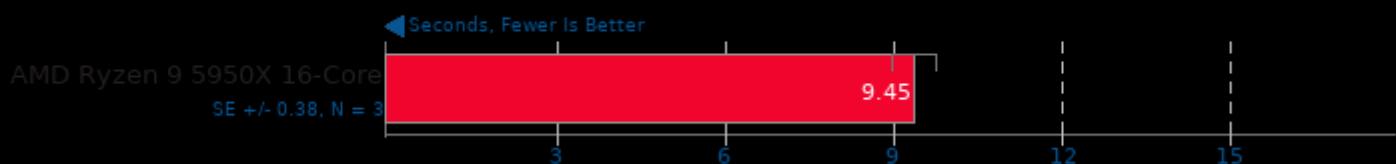
Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Broadcast Inner Join Test Time



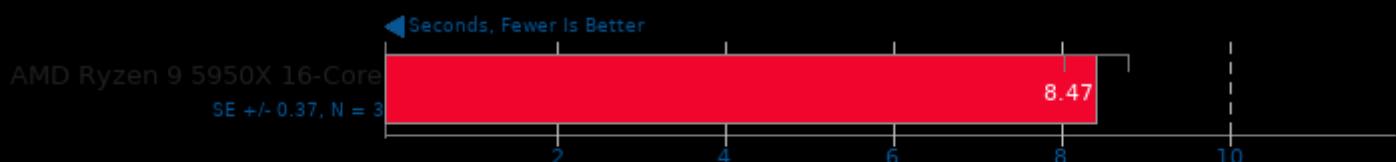
Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Inner Join Test Time



Apache Spark 3.3

Row Count: 20000000 - Partitions: 500 - Repartition Test Time



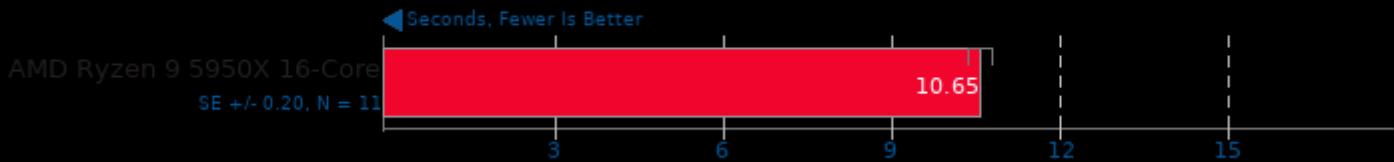
Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - Broadcast Inner Join Test Time



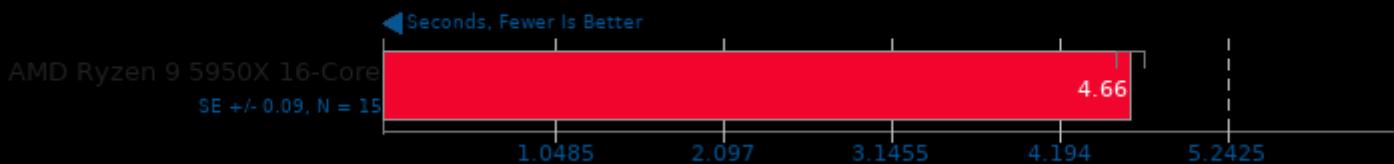
Apache Spark 3.3

Row Count: 20000000 - Partitions: 100 - Inner Join Test Time



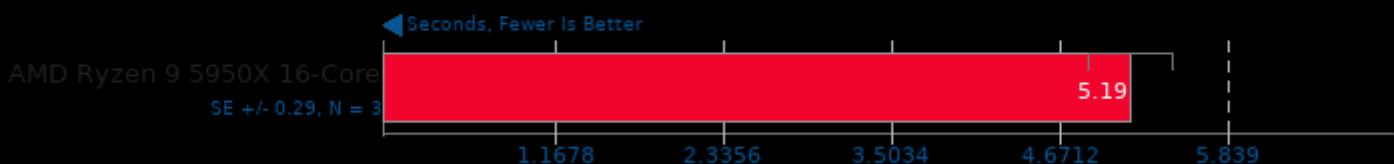
Apache Spark 3.3

Row Count: 10000000 - Partitions: 500 - Broadcast Inner Join Test Time



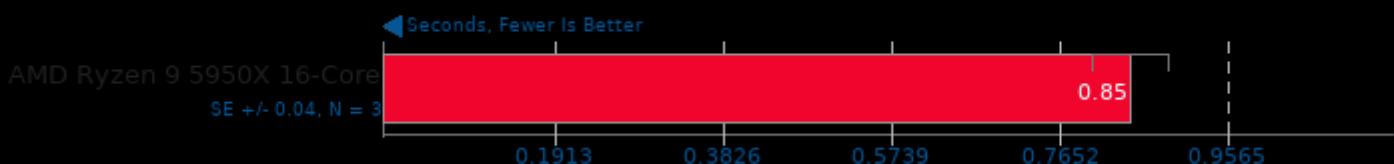
Apache Spark 3.3

Row Count: 10000000 - Partitions: 100 - Broadcast Inner Join Test Time



Apache Spark 3.3

Row Count: 1000000 - Partitions: 100 - Broadcast Inner Join Test Time



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