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CPU_tests

AMD EPYC 7401P 24-Core testing with a GIGABYTE MZ21-G20-00 v01000100 (F03d BIOS) andâ”,

Test Systems:

date_13052020

Processor: AMD EPYC 7401P 24-Core @ 2.00GHz (24 Cores / 48 Threads), Motherboard: GIGABYTE MZ21-G20-00 v01000100 (F03d BIOS), Chipset: AMD 17h, Memory: 8 x 16384 MB DDR4-2667MT/s Samsung M393A2G40EB2-CTD, Disk: 2 x 3841GB Micron_9200_MTFDHAL3T8TCT + 8GB Flash Disk + 2 x 480GB Micron_5200_MTFD, Graphics: Gigabyte NVIDIA GeForce RTX 2080 Ti Rev. A 11GB, Audio: NVIDIA TU102 HD Audio, Monitor: Smart Cable, Network: 2 x Mellanox MT27710 + 2 x Mellanox MT27800

OS: CentOS Linux 8, Kernel: 4.18.0-80.11.2.el8_0.x86_64 (x86_64), Display Server: X Server 1.20.3, Compiler: GCC 8.2.1 20180905 + CUDA 10.2, File-System: xfs, Screen Resolution: 1024x768

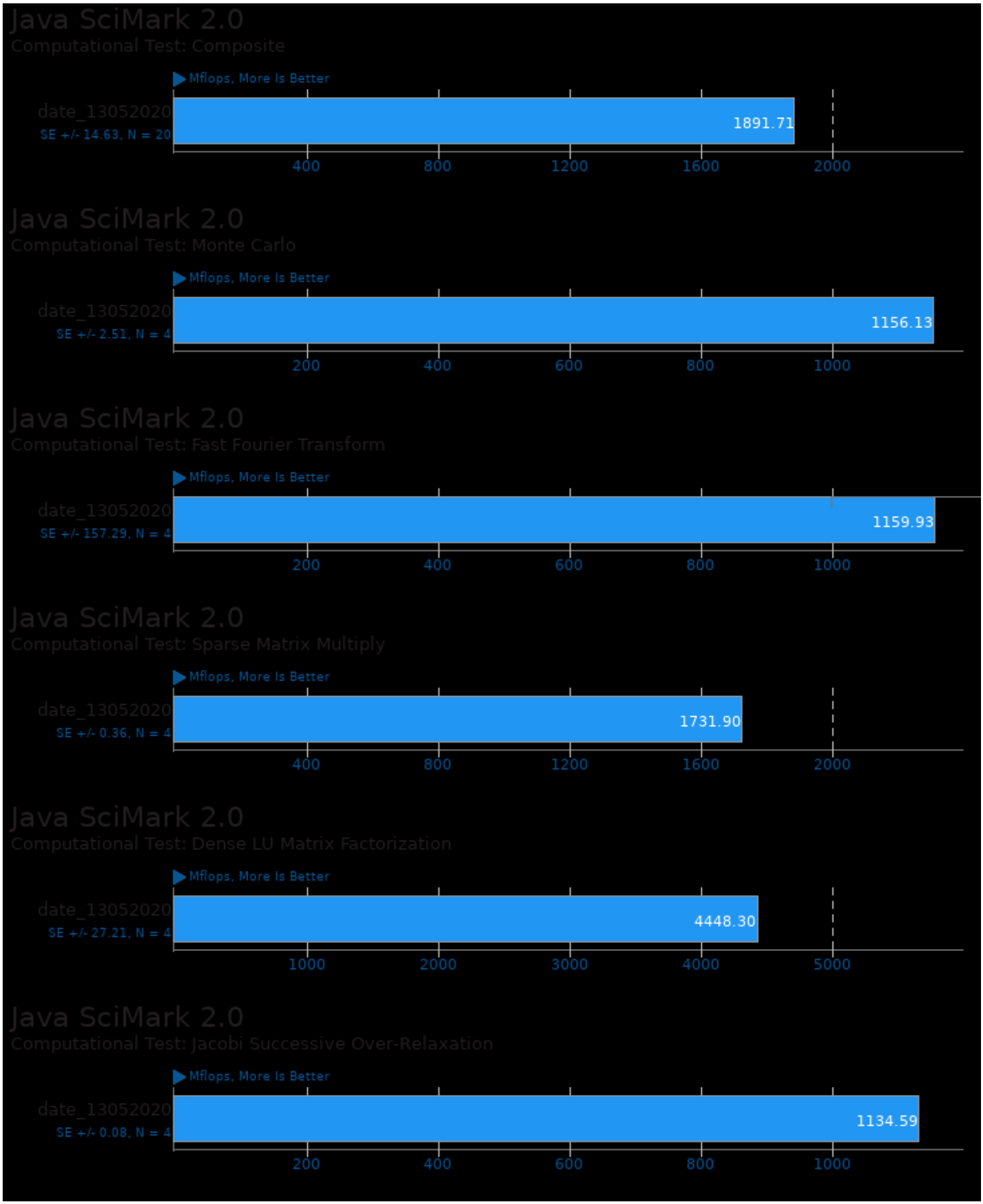
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-cet --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only

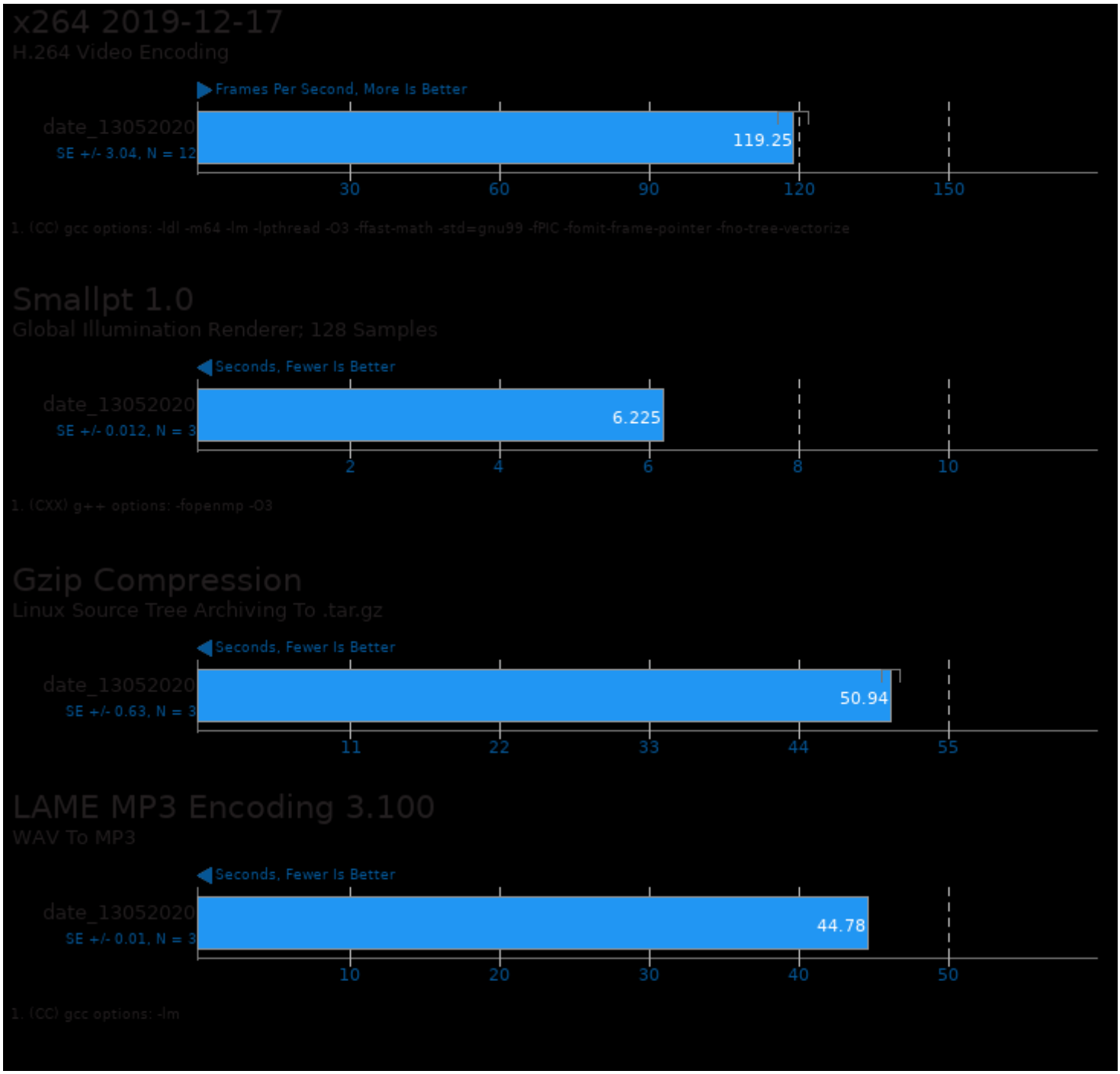
CPU_tests

--with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Processor Notes: Scaling Governor: acpi-cpufreq performance - CPU Microcode: 0x8001227
Java Notes: OpenJDK Runtime Environment (build 1.8.0_232-b09)
Security Notes: SELinux + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 Full AMD retpoline IBPB: conditional STIBP: disabled RSB filling

	date_13052020
Java SciMark - Composite (Mflops)	1892
Standard Deviation	3.5%
Java SciMark - Monte Carlo (Mflops)	1156
Standard Deviation	0.4%
Java SciMark - F.F.T (Mflops)	1160
Standard Deviation	27.1%
Java SciMark - S.M.M (Mflops)	1732
Standard Deviation	0%
Java SciMark - D.L.M.F (Mflops)	4448
Standard Deviation	1.2%
Java SciMark - J.S.O.R (Mflops)	1135
Standard Deviation	0%
x264 - H.2.V.E (FPS)	119.25
Standard Deviation	8.8%
Smallpt - G.I.R.1.S (sec)	6.225
Standard Deviation	0.3%
Gzip Compression - L.S.T.A.T.t.g (sec)	50.943
Standard Deviation	2.1%
LAME MP3 Encoding - WAV To MP3 (sec)	44.775
Standard Deviation	0.1%

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Java SciMark 2.0
Computational Test: Composite
Mflops, More Is Better
date_13052020
SE +/- 14.63, N = 20
1891.71
400
800
1200
1600
2000
Java SciMark 2.0
Computational Test: Monte Carlo
Mflops, More Is Better
date_13052020
SE +/- 2.51, N = 4
1156.13
200
400
600
800
1000
Java SciMark 2.0
Computational Test: Fast Fourier Transform
Mflops, More Is Better
date_13052020
SE +/- 157.29, N = 4
1159.93
200
400
600
800
1000
Java SciMark 2.0
Computational Test: Sparse Matrix Multiply
Mflops, More Is Better
date_13052020
SE +/- 0.36, N = 4
1731.90
400
800
1200
1600
2000
Java SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
date_13052020
SE +/- 27.21, N = 4
4448.30
1000
2000
3000
4000
5000
Java SciMark 2.0
Computational Test: Jacobi Successive Over-Relaxation
Mflops, More Is Better
date_13052020
SE +/- 0.08, N = 4
1134.59
200
400
600
800
1000



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 08:36.