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Intel Core i3-10100 testing with a Gigabyte B460M DS3H (F2 BIOS) and Gigabyte Intel UHD 630 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

2 had the most wins, coming in first place for 57% of the tests.

Based on the geometric mean of all complete results, the fastest (2) was 1.002x the speed of the slowest (1). 3 was 0.998x the speed of 2 and 1 was 1x the speed of 3.

Test Systems:

1

2

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3

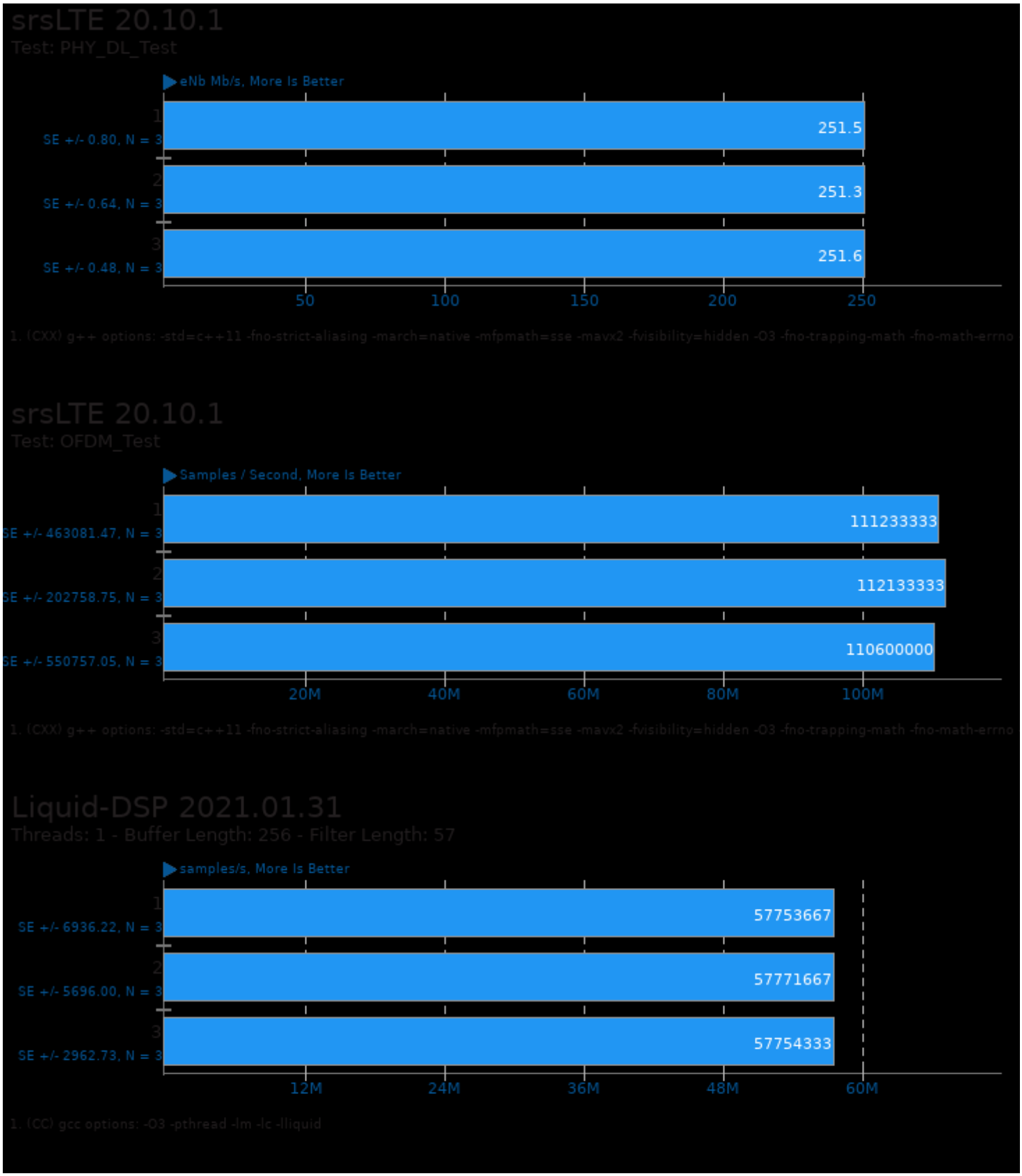
Processor: Intel Core i3-10100 @ 4.30GHz (4 Cores / 8 Threads), Motherboard: Gigabyte B460M DS3H (F2 BIOS), Chipset: Intel Device 9b63, Memory: 16GB, Disk: 500GB Western Digital WDS500G3X0C-00SJG0, Graphics: Gigabyte Intel UHD 630 3GB (1100MHz), Audio: Realtek ALC887-VD, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc7daily20201002-generic (x86_64) 20201001, Desktop: GNOME Shell 3.36.3, Display Server: X Server 1.20.8, OpenGL: 4.6 Mesa 20.0.8, Vulkan: 1.2.131, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

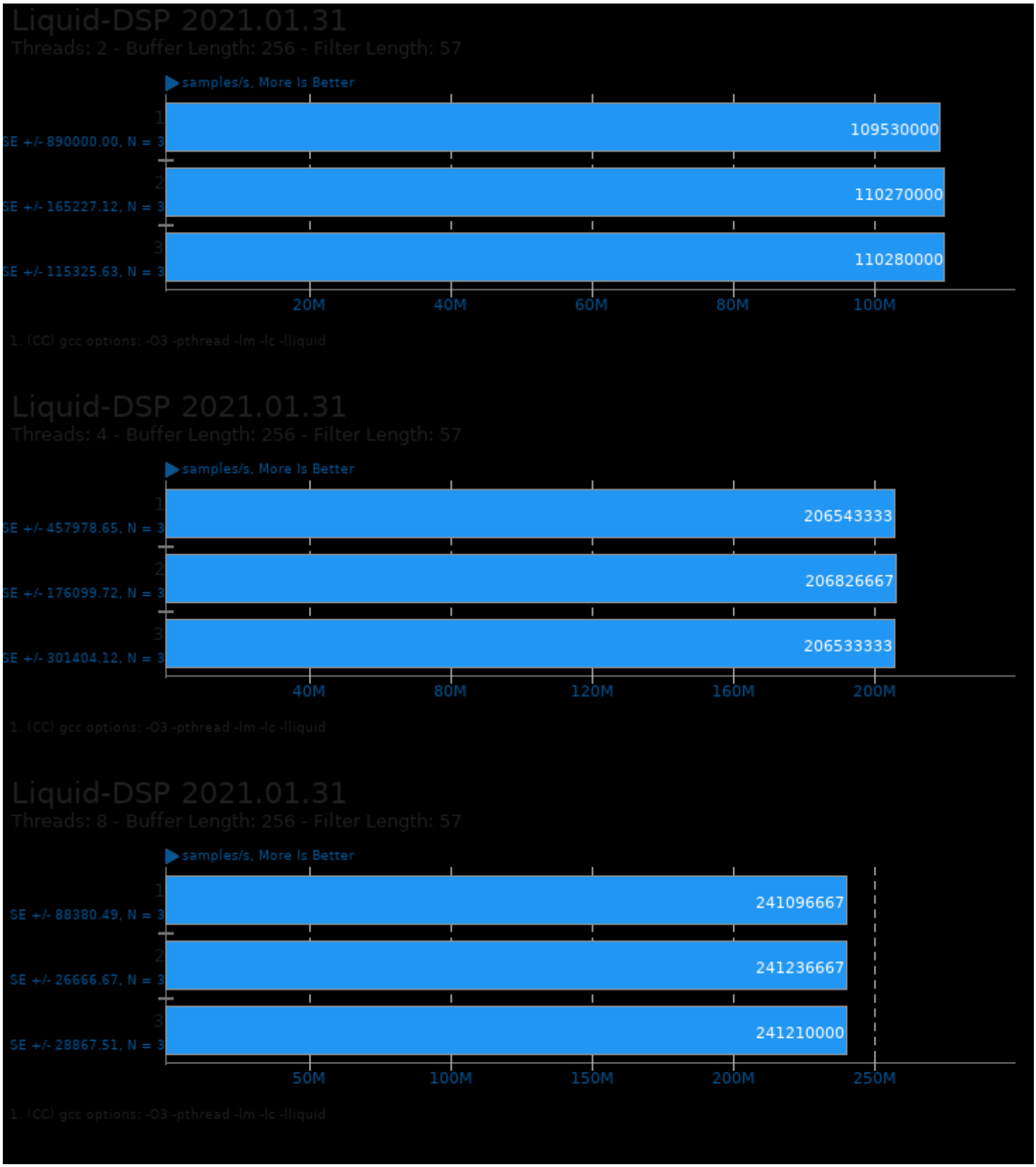
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none,hsa --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=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xcc
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: 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 + srbds: Not affected + tsx_async_abort: Not affected

	1	2	3
srsLTE - PHY_DL_Test (eNb Mb/s)	251.5	**251.3**	**251.6**
Normalized	99.96%	99.88%	100%
Standard Deviation	0.6%	0.4%	0.3%
srsLTE - OFDM_Test (Samples / Second)	111233333	**112133333**	**110600000**
Normalized	99.2%	100%	98.63%
Standard Deviation	0.7%	0.3%	0.9%
Liquid-DSP - 1 - 256 - 57 (samples/s)	**57753667**	**57771667**	57754333
Normalized	99.97%	100%	99.97%
Standard Deviation	0%	0%	0%
Liquid-DSP - 2 - 256 - 57 (samples/s)	**109530000**	110270000	**110280000**
Normalized	99.32%	99.99%	100%
Standard Deviation	1.4%	0.3%	0.2%
Liquid-DSP - 4 - 256 - 57 (samples/s)	206543333	**206826667**	**206533333**
Normalized	99.86%	100%	99.86%
Standard Deviation	0.4%	0.1%	0.3%
Liquid-DSP - 8 - 256 - 57 (samples/s)	**241096667**	**241236667**	241210000
Normalized	99.94%	100%	99.99%
Standard Deviation	0.1%	0%	0%
srsLTE - PHY_DL_Test (UE Mb/s)	96.6	96.6	96.6
Standard Deviation	0.5%	0.9%	0.5%

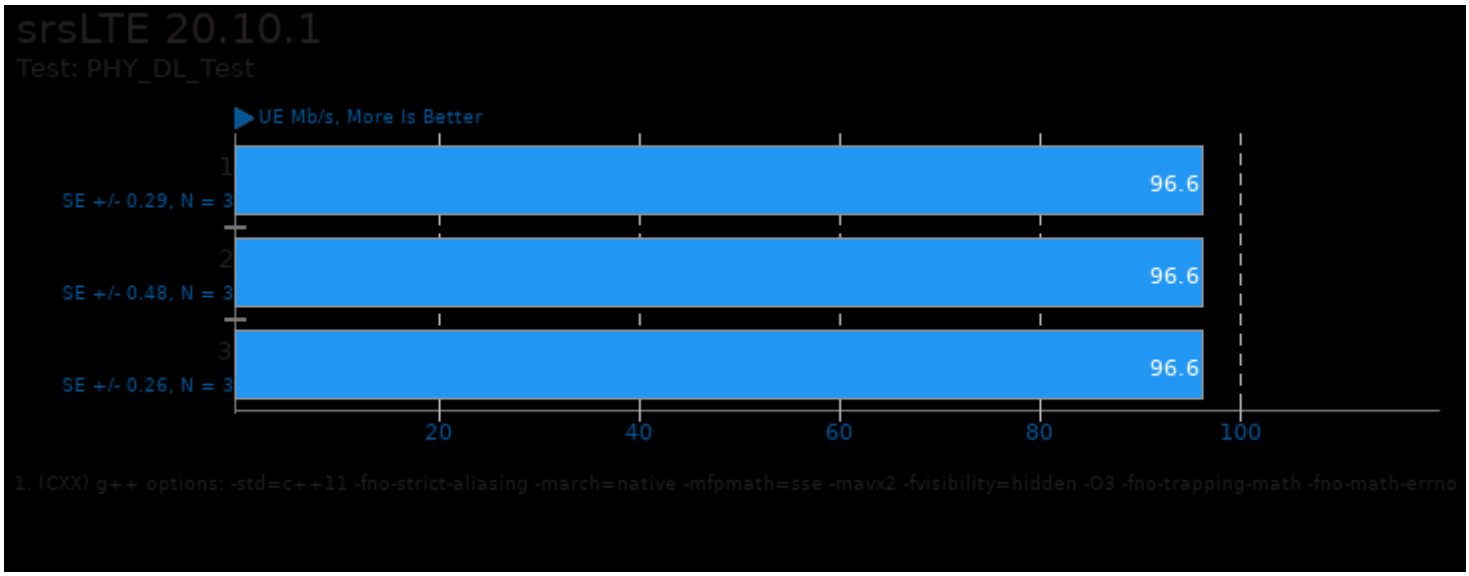
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srsLTE 20.10.1
Test: PHY_DL_Test
eNb Mb/s, More Is Better
1
SE +/- 0.80, N = 3
251.5
2
SE +/- 0.64, N = 3
251.3
3
SE +/- 0.48, N = 3
251.6
50
100
150
200
250
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsLTE 20.10.1
Test: OFDM_Test
Samples / Second, More Is Better
1
SE +/- 463081.47, N = 3
111233333
2
SE +/- 202758.75, N = 3
112133333
3
SE +/- 550757.05, N = 3
110600000
20M
40M
60M
80M
100M
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
Liquid-DSP 2021.01.31
Threads: 1 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
1
SE +/- 6936.22, N = 3
57753667
2
SE +/- 5696.00, N = 3
57771667
3
SE +/- 2962.73, N = 3
57754333
12M
24M
36M
48M
60M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

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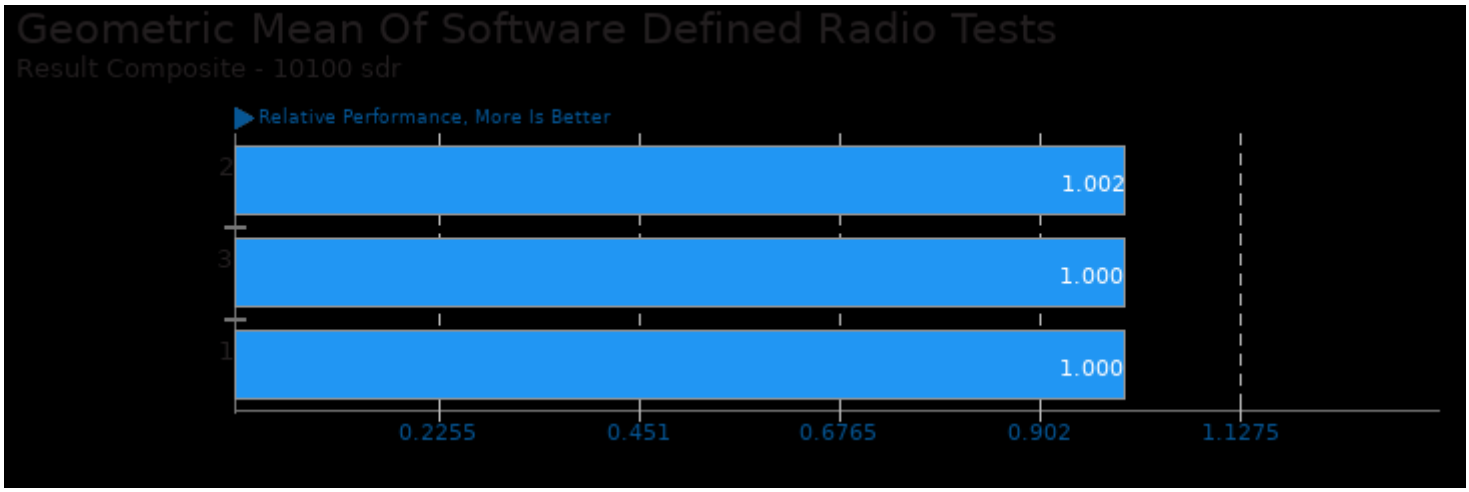

Liquid-DSP 2021.01.31
Threads: 2 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
1
SE +/- 890000.00, N = 3
109530000
2
SE +/- 165227.12, N = 3
110270000
3
SE +/- 115325.63, N = 3
110280000
20M
40M
60M
80M
100M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid
Liquid-DSP 2021.01.31
Threads: 4 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
1
SE +/- 457978.65, N = 3
206543333
2
SE +/- 176099.72, N = 3
206826667
3
SE +/- 301404.12, N = 3
206533333
40M
80M
120M
160M
200M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid
Liquid-DSP 2021.01.31
Threads: 8 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
1
SE +/- 88380.49, N = 3
241096667
2
SE +/- 26666.67, N = 3
241236667
3
SE +/- 28867.51, N = 3
241210000
50M
100M
150M
200M
250M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

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srsLTE 20.10.1
Test: PHY_DL_Test
UE Mb/s, More Is Better
1
SE +/- 0.29, N = 3
96.6
2
SE +/- 0.48, N = 3
96.6
3
SE +/- 0.26, N = 3
96.6
20
40
60
80
100
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

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



Geometric mean based upon tests: pts/liquid-dsp and pts/srslte

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 00:47.