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3700X june

AMD Ryzen 7 3700X 8-Core testing with a Gigabyte A320M-S2H-CF (F52a BIOS) and HIS AMD Radeon HD 7750/8740 / R7 250E 1GB on Ubuntu 20.04 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 37% of the tests.

Based on the geometric mean of all complete results, the fastest (3) was 1.003x the speed of the slowest (1). 2 was 0.998x the speed of 3 and 1 was 0.999x the speed of 2.

The results with the greatest spread from best to worst included:

Zstd Compression (Compression Level: 8 - Compression Speed) at 1.185x
ASTC Encoder (Preset: Thorough) at 1.063x
ASTC Encoder (Preset: Exhaustive) at 1.055x
Timed FFmpeg Compilation (Time To Compile) at 1.037x
Intel Open Image Denoise (Run: RT.ldr_alb_nrm.3840x2160) at 1.029x
srsRAN (Test: OFDM_Test) at 1.026x
Zstd Compression (Compression Level: 3 - Compression Speed) at 1.024x
Zstd Compression (Compression Level: 8, Long Mode - Compression Speed) at 1.023x
VP9 libvpx Encoding (Speed: Speed 0 - Input: Bosphorus 4K) at 1.019x

srsRAN (Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM) at 1.016x.

Test Systems:

1

2

3

Processor: AMD Ryzen 7 3700X 8-Core @ 3.60GHz (8 Cores / 16 Threads), Motherboard: Gigabyte A320M-S2H-CF (F52a BIOS), Chipset: AMD Starship/Matisse, Memory: 8GB, Disk: 240GB TOSHIBA RC100, Graphics: HIS AMD Radeon HD 7750/8740 / R7 250E 1GB, Audio: AMD Oland/Hainan/Cape, Monitor: VA2431, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.8.1-050801-generic (x86_64), Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.9, OpenGL: 4.5 Mesa 20.0.8 (LLVM 10.0.0), 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=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,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: acpi-cpufreq ondemand (Boost: Enabled) - CPU Microcode: 0x8701021
Security Notes: itlb_multihit: Not affected + 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: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

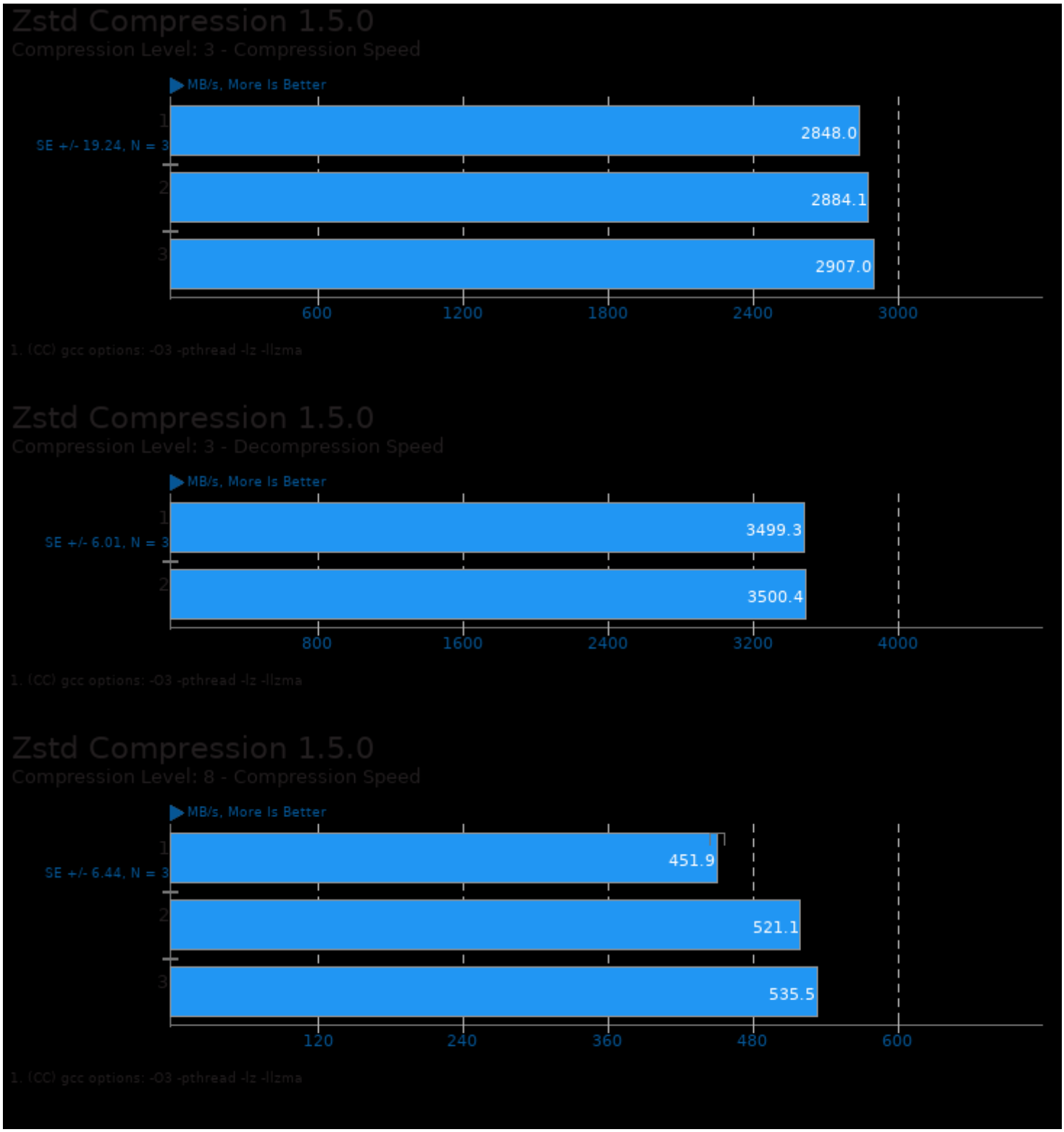
	1	2	3
Zstd Compression - 3 - Compression Speed (MB/s)	**2848**	2884	**2915**
Normalized	97.69%	98.93%	100%
Standard Deviation	1.2%		
Zstd Compression - 3 - D.S (MB/s)	**3499**	**3500**	
Normalized	99.97%	100%	
Standard Deviation	0.3%		
Zstd Compression - 8 - Compression Speed (MB/s)	**451.9**	521.1	**535.5**
Normalized	84.39%	97.31%	100%
Standard Deviation	2.5%		
Zstd Compression - 8 - D.S (MB/s)	**3612**	3627	**3634**
Normalized	99.38%	99.78%	100%
Standard Deviation	0.2%		

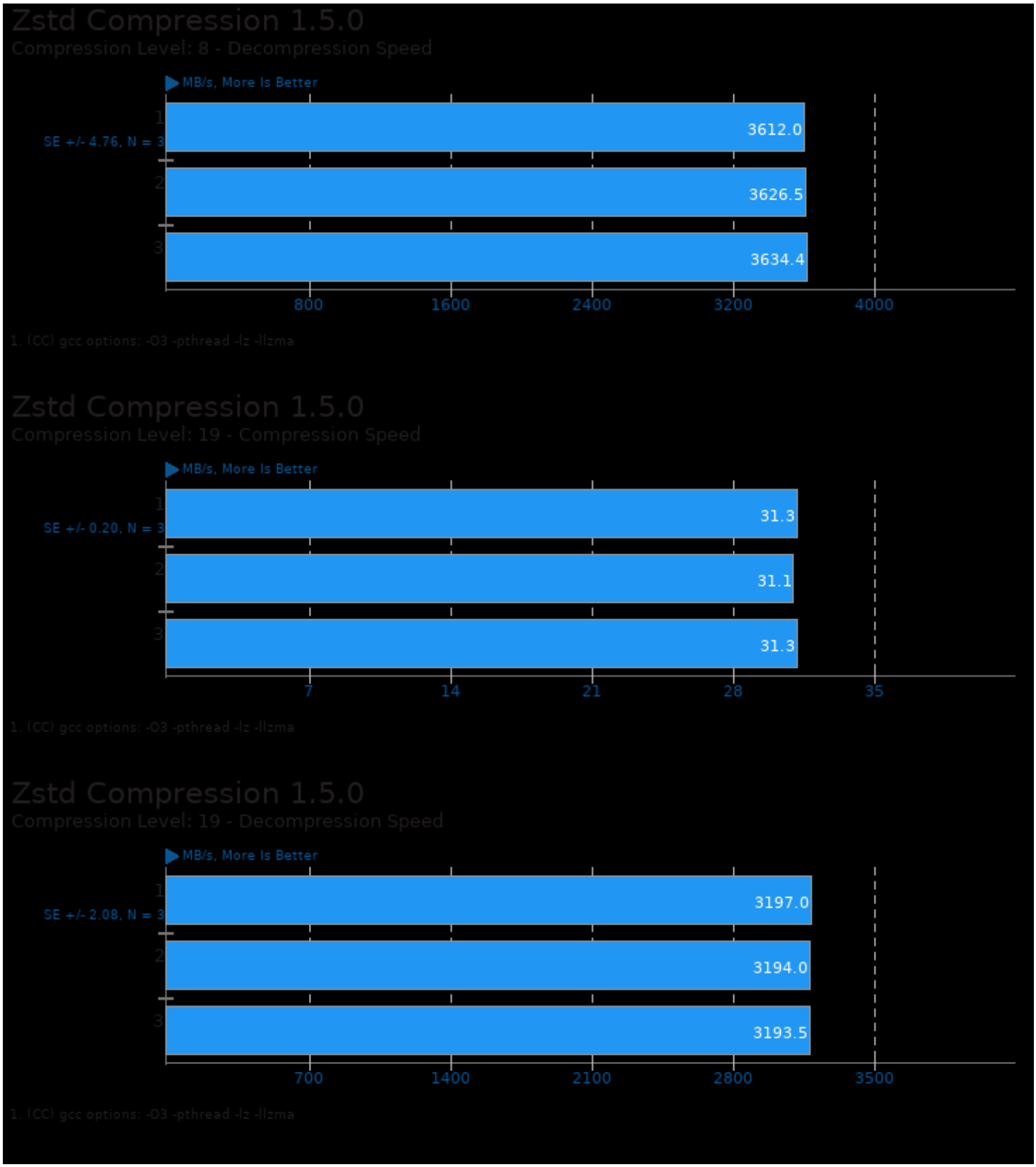
Zstd Compression - 19 - Compression Speed (MB/s)	**31.3**	**31.1**	**31.3**
Normalized	100%	99.36%	100%
Standard Deviation	1.1%		
Zstd Compression - 19 - D.S (MB/s)	**3197**	3194	**3194**
Normalized	100%	99.91%	99.89%
Standard Deviation	0.1%		
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	770.2	**766.8**	**772.2**
Normalized	99.74%	99.3%	100%
Standard Deviation	0.8%		
Zstd Compression - 3, Long Mode - D.S	**3765**	3760	**3751**
Normalized	100%	99.86%	99.63%
Standard Deviation	0.1%		
Zstd Compression - 8, Long Mode - Compression Speed (MB/s)	**762.4**	**745.1**	756
Normalized	100%	97.73%	99.16%
Standard Deviation	1.1%		
Zstd Compression - 8, Long Mode - D.S	3876	**3869**	**3885**
Normalized	99.76%	99.57%	100%
Standard Deviation	0.3%		
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	**26.2**	**26.2**	**26.4**
Normalized	99.24%	99.24%	100%
Standard Deviation	0.7%		
Zstd Compression - 19, Long Mode - D.S (MB/s)	3282	**3268**	**3293**
Normalized	99.65%	99.24%	100%
Standard Deviation	0.2%		
srsRAN - OFDM_Test (Samples / Second)	**125433333**	**128700000**	126700000
Normalized	97.46%	100%	98.45%
Standard Deviation	1.2%		
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	**363.5**	**366.2**	364.5
Normalized	99.26%	100%	99.54%
Standard Deviation	0.5%		
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	**148.6**	149	**149.6**
Normalized	99.33%	99.6%	100%
Standard Deviation	1.3%		
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	**363.8**	**368.8**	365.9
Normalized	98.64%	100%	99.21%
Standard Deviation	2.2%		
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	230.5	**234**	**230.4**
Normalized	98.5%	100%	98.46%
Standard Deviation	0.1%		
srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	394.5	**394.3**	**395.3**
Normalized	99.8%	99.75%	100%
Standard Deviation	0.8%		
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	**159.8**	**161.5**	160.8
Normalized	98.95%	100%	99.57%
Standard Deviation	0.7%		
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	**391.0**	**395.9**	394.1
Normalized	98.76%	100%	99.55%
Standard Deviation	2.6%		
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	**275.9**	274.9	**273.2**

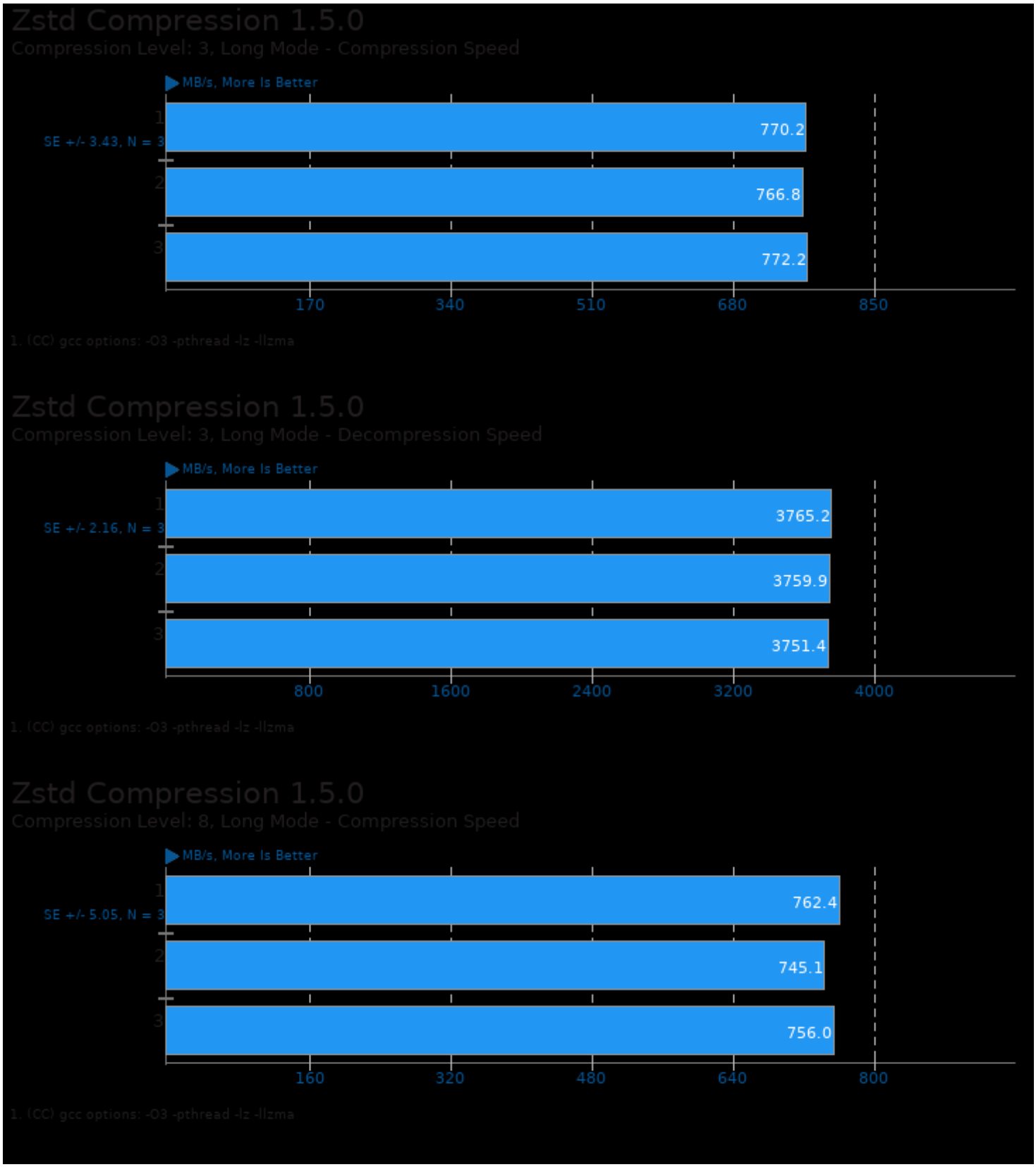
Normalized	100%	99.64%	99.02%
Standard Deviation	0.6%		
srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)	**107.6**	**106.6**	107.1
Normalized	100%	99.07%	99.54%
Standard Deviation	0.1%		
srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)	**59.2**	**58.7**	**58.7**
Normalized	100%	99.16%	99.16%
Standard Deviation	0.2%		
srsRAN - 5.P.T.2.P.S.2.Q (eNb Mb/s)	116.9	**116.5**	**117.3**
Normalized	99.66%	99.32%	100%
Standard Deviation	0%		
srsRAN - 5.P.T.2.P.S.2.Q (UE Mb/s)	73.8	**73.7**	**74.1**
Normalized	99.6%	99.46%	100%
Standard Deviation	0.2%		
dav1d - Chimera 1080p (FPS)	**523.05**	520.33	**518.49**
Normalized	100%	99.48%	99.13%
Standard Deviation	0.6%		
dav1d - Summer Nature 4K (FPS)	**171.91**	172.19	**172.27**
Normalized	99.79%	99.95%	100%
Standard Deviation	0.3%		
dav1d - S.N.1 (FPS)	**477.41**	478.56	**479.44**
Normalized	99.58%	99.82%	100%
Standard Deviation	0.9%		
dav1d - C.1.1.b (FPS)	**392.36**	**387.38**	389.72
Normalized	100%	98.73%	99.33%
Standard Deviation	0.1%		
VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)	5.80	**5.85**	**5.74**
Normalized	99.15%	100%	98.12%
Standard Deviation	1.3%		
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)	12.05	**11.94**	**12.11**
Normalized	99.5%	98.6%	100%
Standard Deviation	1.3%		
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)	**11.88**	11.78	**11.77**
Normalized	100%	99.16%	99.07%
Standard Deviation	0.6%		
VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)	**26.56**	26.41	**26.35**
Normalized	100%	99.44%	99.21%
Standard Deviation	1.3%		
Intel Open Image Denoise - RT.hdr_alb_nrm.3840x2160 (Images / Sec)	0.35	0.35	0.35
Standard Deviation	0.2%		
Intel Open Image Denoise - RT.ldr_alb_nrm.3840x2160 (Images / Sec)	**0.35**	**0.35**	**0.34**
Normalized	100%	100%	97.14%
Standard Deviation	0.2%		
Intel Open Image Denoise - RTLightmap.hdr.4096x4096 (Images / Sec)	0.17	0.17	0.17
Standard Deviation	0%		

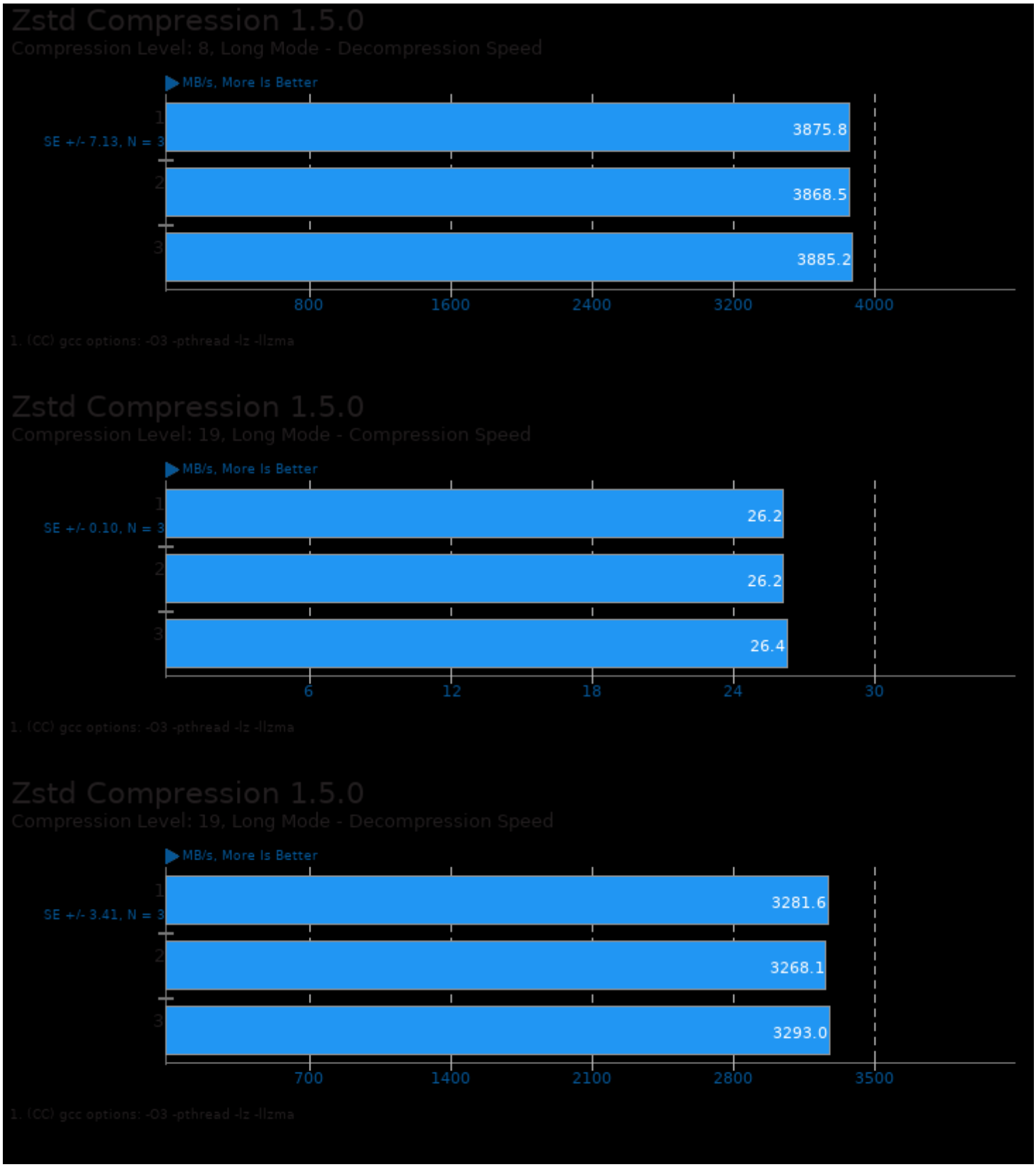
3700X june

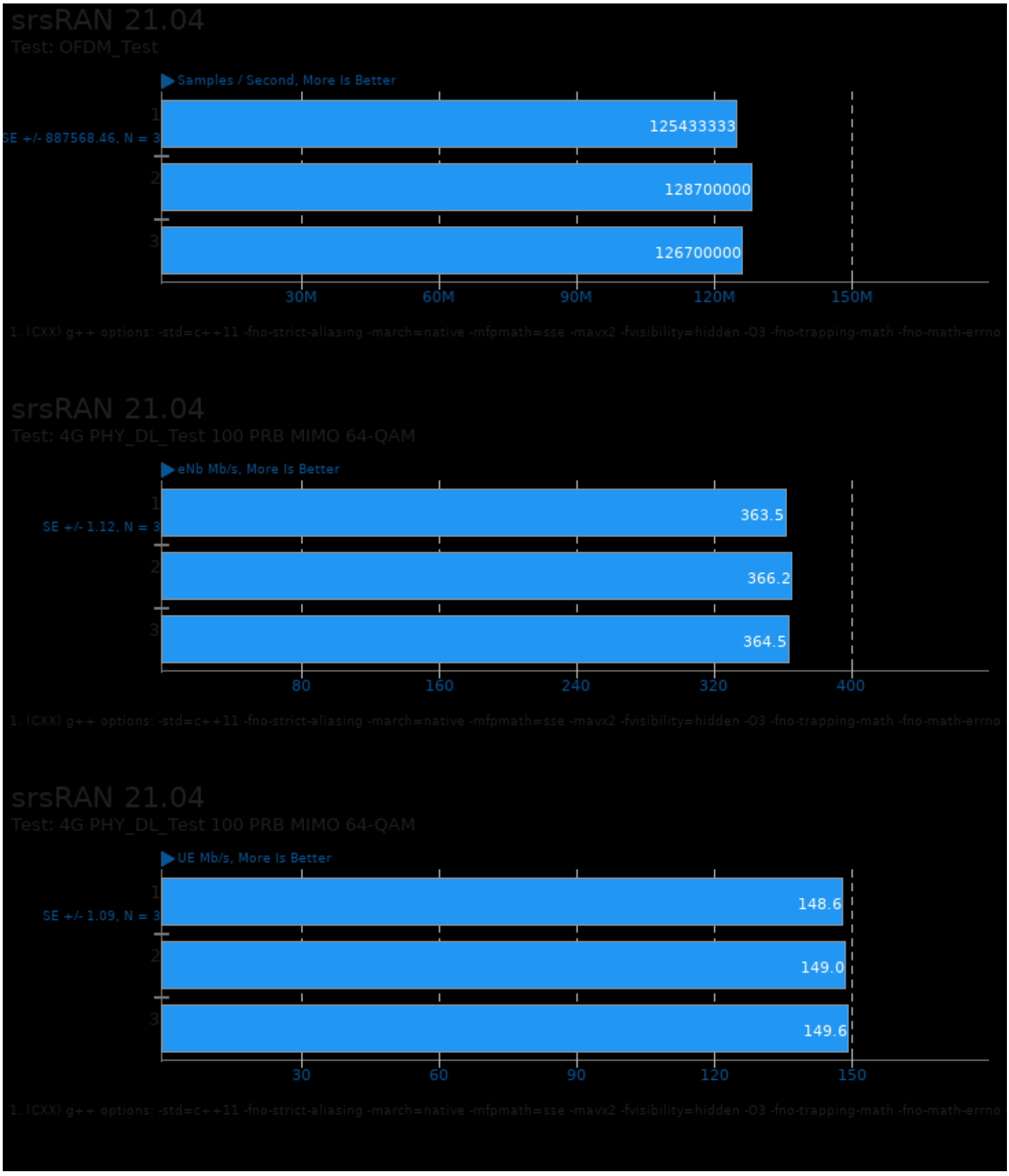
Timed FFmpeg Compilation - Time To Compile (sec)	58.977	**58.561**	**60.742**
Normalized	99.29%	100%	96.41%
Standard Deviation	0.8%		
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	68.426	**68.267**	**68.515**
Normalized	99.77%	100%	99.64%
Standard Deviation	0.4%		
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)	**0.781**	0.78	**0.776**
Normalized	100%	99.87%	99.36%
Standard Deviation	0.1%		
ASTC Encoder - Medium (sec)	**5.1531**	5.1637	**5.1876**
Normalized	100%	99.79%	99.33%
Standard Deviation	0.3%		
ASTC Encoder - Thorough (sec)	10.1331	**10.7633**	**10.1291**
Normalized	99.96%	94.11%	100%
Standard Deviation	0.1%		
ASTC Encoder - Exhaustive (sec)	93.8447	**98.7338**	**93.5951**
Normalized	99.73%	94.8%	100%
Standard Deviation	0.3%		
BRL-CAD - V.P.M (VGR Performance Metric)	123737	**124694**	**123615**
Normalized	99.23%	100%	99.13%

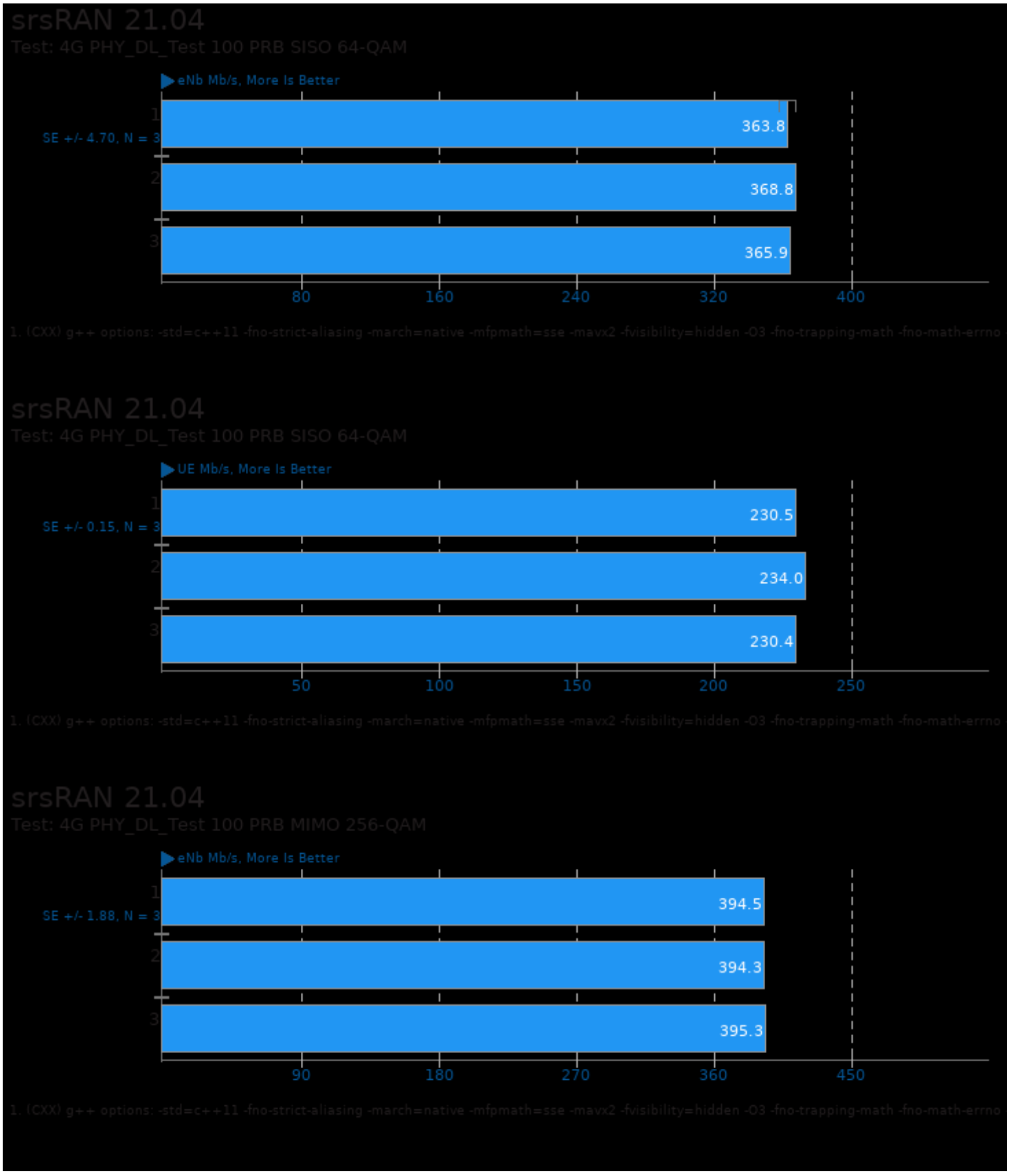

Zstd Compression 1.5.0
Compression Level: 3 - Compression Speed
MB/s, More Is Better
SE +/- 19.24, N = 3
1
2
3
2848.0
2884.1
2907.0
600
1200
1800
2400
3000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
SE +/- 6.01, N = 3
1
2
3499.3
3500.4
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8 - Compression Speed
MB/s, More Is Better
SE +/- 6.44, N = 3
1
2
3
451.9
521.1
535.5
120
240
360
480
600
1. (CC) gcc options: -O3 -pthread -lz -llzma

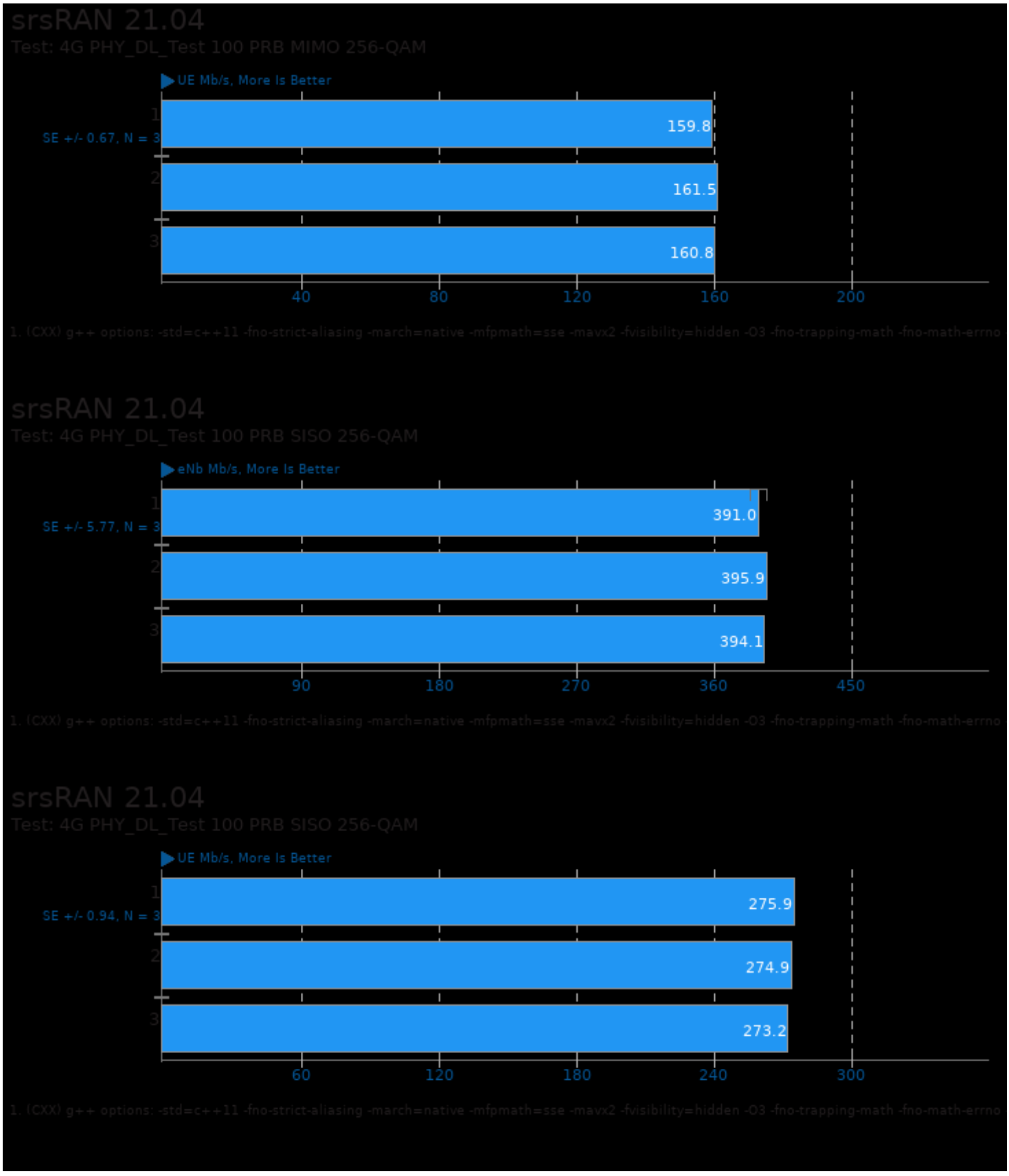

Zstd Compression 1.5.0
Compression Level: 8 - Decompression Speed
MB/s, More Is Better
SE +/- 4.76, N = 3
1
2
3
3612.0
3626.5
3634.4
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19 - Compression Speed
MB/s, More Is Better
SE +/- 0.20, N = 3
1
2
3
31.3
31.1
31.3
7
14
21
28
35
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19 - Decompression Speed
MB/s, More Is Better
SE +/- 2.08, N = 3
1
2
3
3197.0
3194.0
3193.5
700
1400
2100
2800
3500
1. (CC) gcc options: -O3 -pthread -lz -llzma

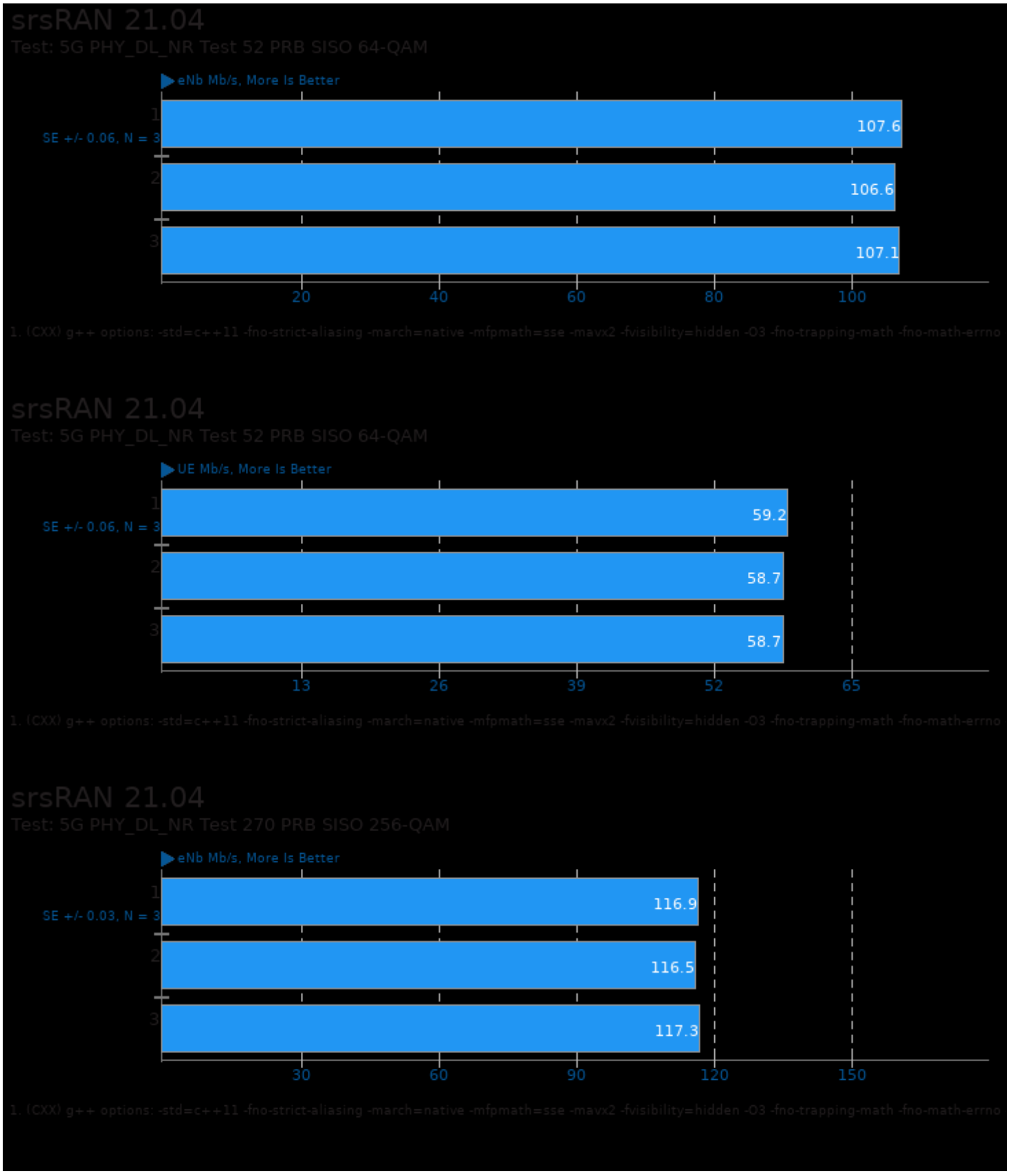

Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Compression Speed
MB/s, More Is Better
SE +/- 3.43, N = 3
1
2
3
770.2
766.8
772.2
170
340
510
680
850
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Decompression Speed
MB/s, More Is Better
SE +/- 2.16, N = 3
1
2
3
3765.2
3759.9
3751.4
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Compression Speed
MB/s, More Is Better
SE +/- 5.05, N = 3
1
2
3
762.4
745.1
756.0
160
320
480
640
800
1. (CC) gcc options: -O3 -pthread -lz -llzma


Zstd Compression 1.5.0
Compression Level: 8, Long Mode - Decompression Speed
MB/s, More Is Better
SE +/- 7.13, N = 3
1
2
3
3875.8
3868.5
3885.2
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Compression Speed
MB/s, More Is Better
SE +/- 0.10, N = 3
1
2
3
26.2
26.2
26.4
6
12
18
24
30
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Decompression Speed
MB/s, More Is Better
SE +/- 3.41, N = 3
1
2
3
3281.6
3268.1
3293.0
700
1400
2100
2800
3500
1. (CC) gcc options: -O3 -pthread -lz -llzma


srsRAN 21.04
Test: OFDM_Test
Samples / Second, More Is Better
SE +/- 887568.46, N = 3
1
125433333
2
128700000
3
126700000
30M
60M
90M
120M
150M
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
eNb Mb/s, More Is Better
SE +/- 1.12, N = 3
1
363.5
2
366.2
3
364.5
80
160
240
320
400
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
UE Mb/s, More Is Better
SE +/- 1.09, N = 3
1
148.6
2
149.0
3
149.6
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

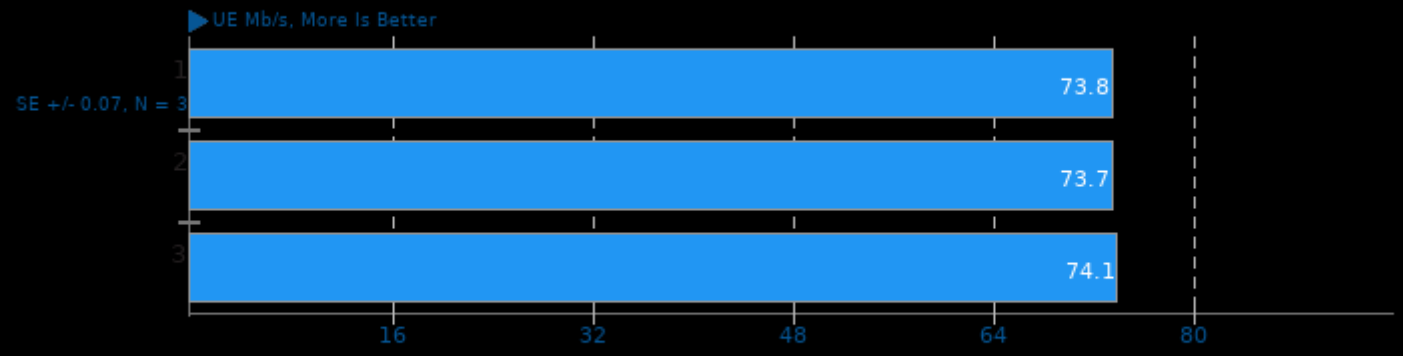

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
eNb Mb/s, More Is Better
SE +/- 4.70, N = 3
1
2
3
363.8
368.8
365.9
80
160
240
320
400
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
UE Mb/s, More Is Better
SE +/- 0.15, N = 3
1
2
3
230.5
234.0
230.4
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
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
eNb Mb/s, More Is Better
SE +/- 1.88, N = 3
1
2
3
394.5
394.3
395.3
90
180
270
360
450
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno


srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
UE Mb/s, More Is Better
SE +/- 0.67, N = 3
159.8
161.5
160.8
40
80
120
160
200
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
eNb Mb/s, More Is Better
SE +/- 5.77, N = 3
391.0
395.9
394.1
90
180
270
360
450
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
UE Mb/s, More Is Better
SE +/- 0.94, N = 3
275.9
274.9
273.2
60
120
180
240
300
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno


srsRAN 21.04
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
eNb Mb/s, More Is Better
SE +/- 0.06, N = 3
1
2
3
107.6
106.6
107.1
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
srsRAN 21.04
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
UE Mb/s, More Is Better
SE +/- 0.06, N = 3
1
2
3
59.2
58.7
58.7
13
26
39
52
65
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM
eNb Mb/s, More Is Better
SE +/- 0.03, N = 3
1
2
3
116.9
116.5
117.3
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

srsRAN 21.04

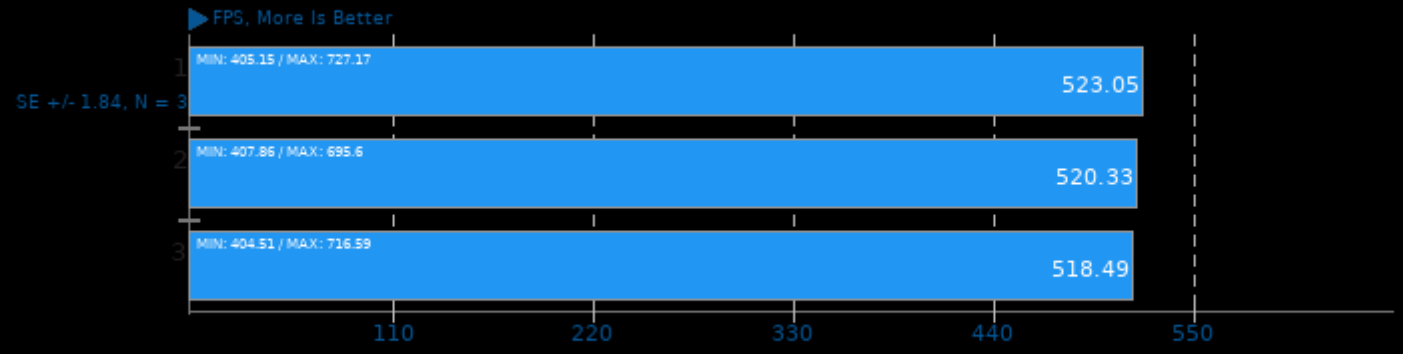
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

dav1d 0.9.0

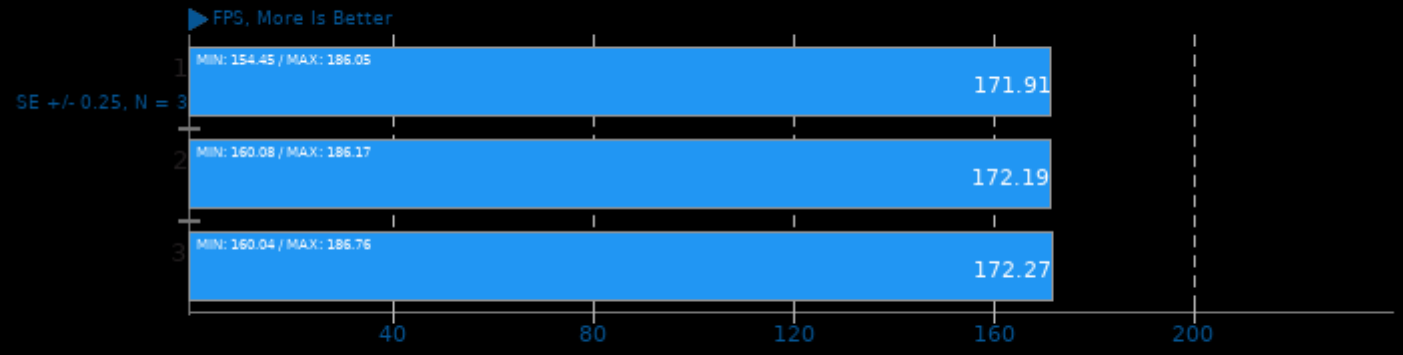
Video Input: Chimera 1080p



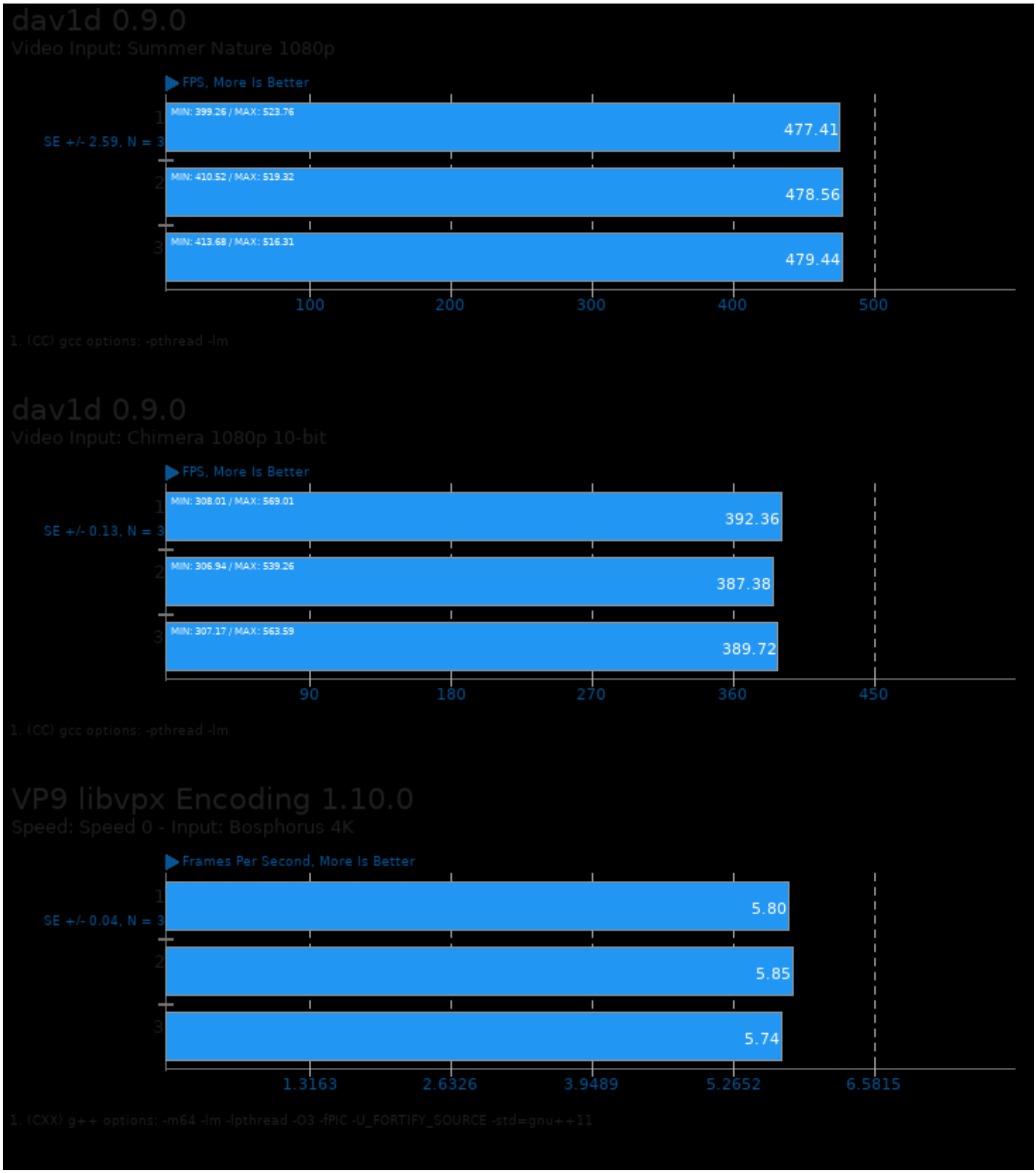
1. (CC) gcc options: -pthread -lm

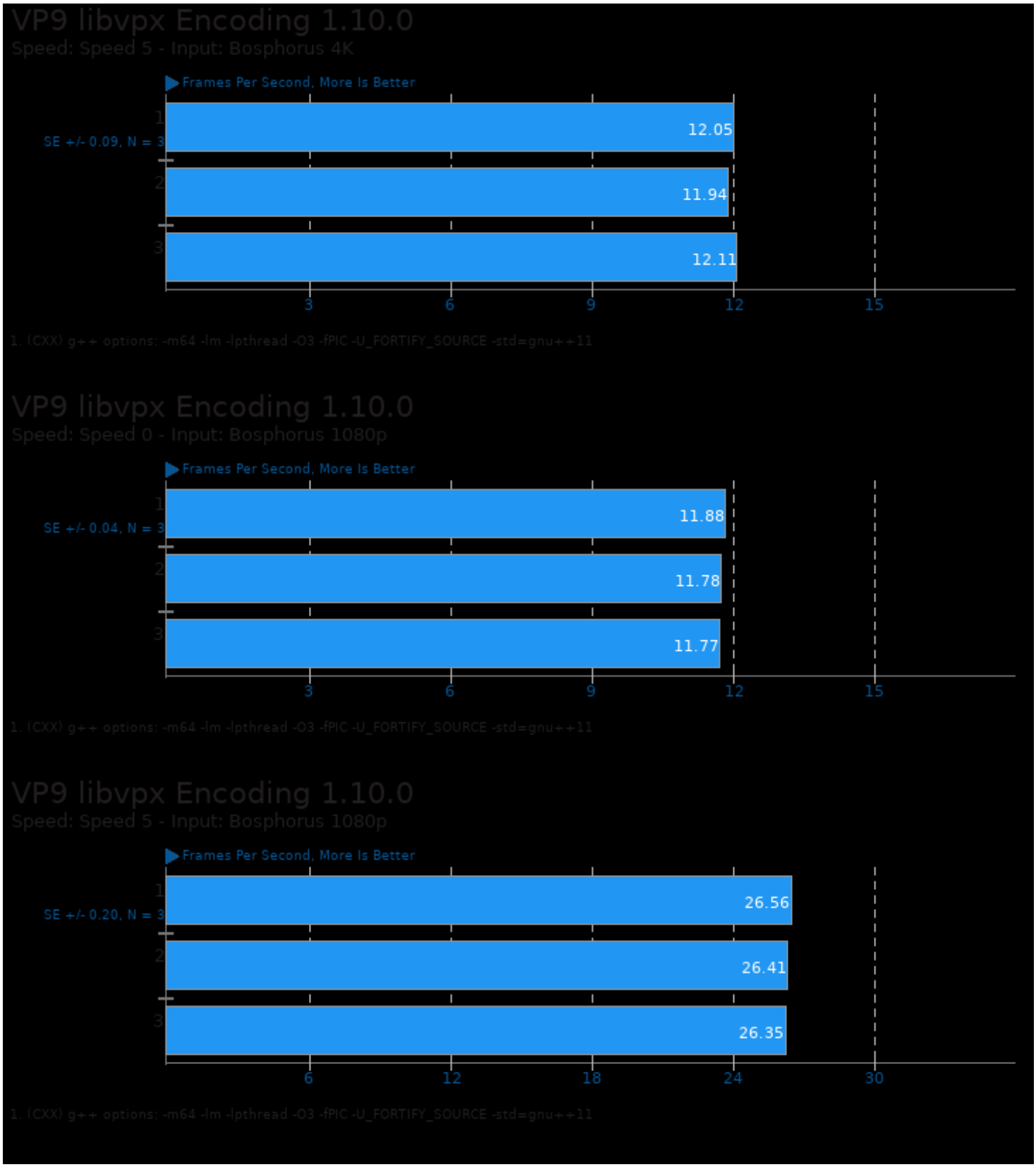
dav1d 0.9.0

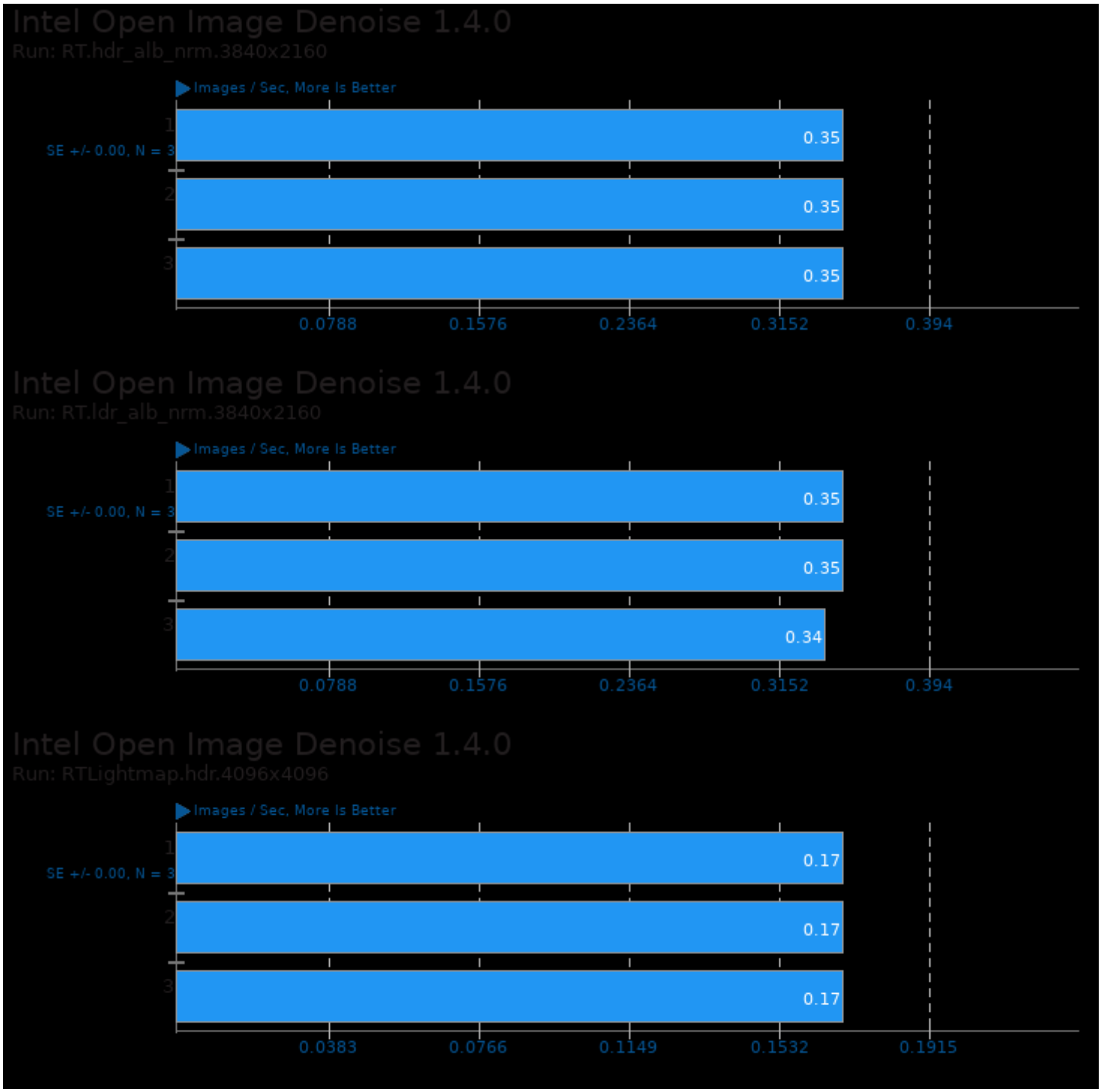
Video Input: Summer Nature 4K

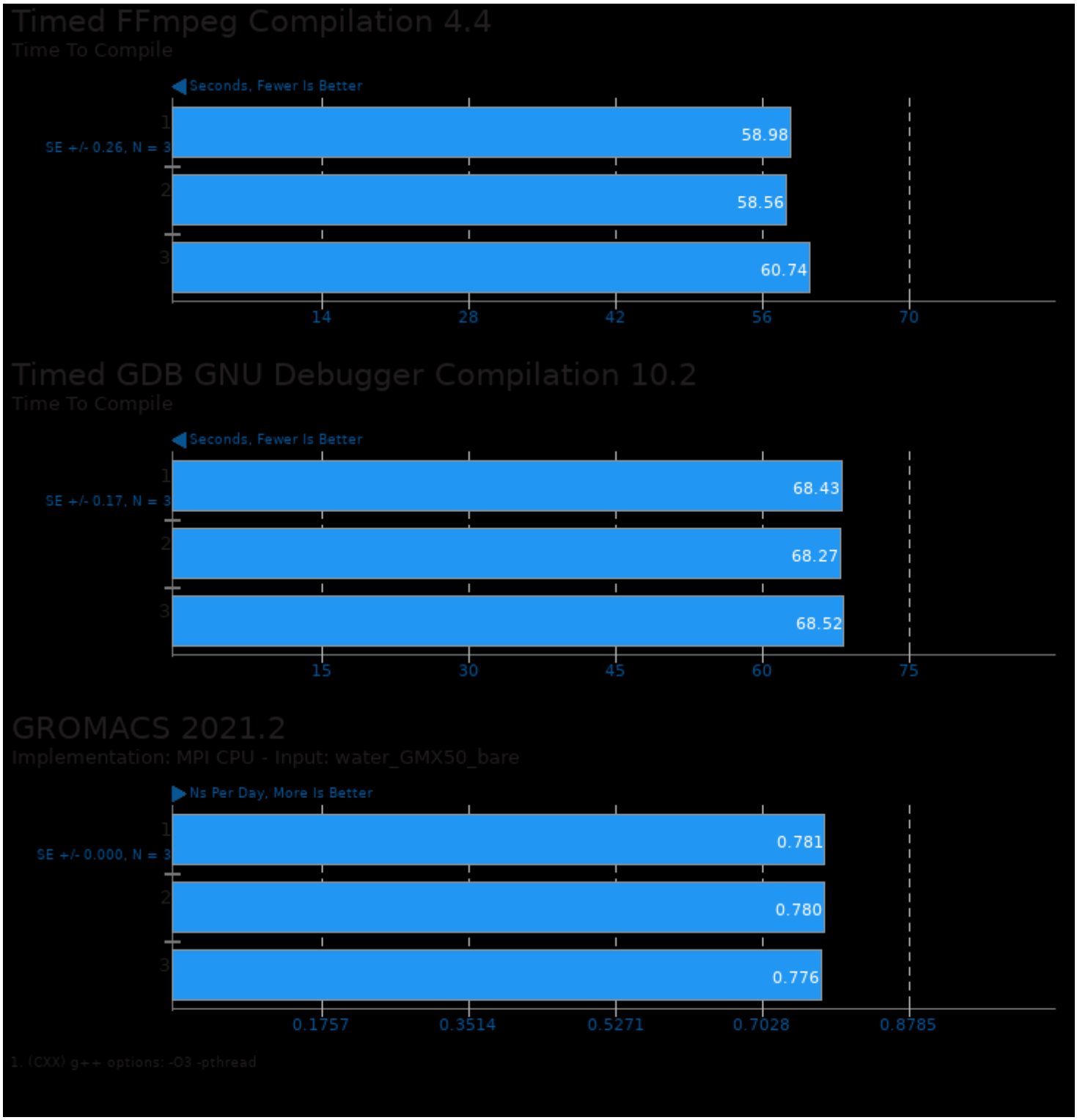


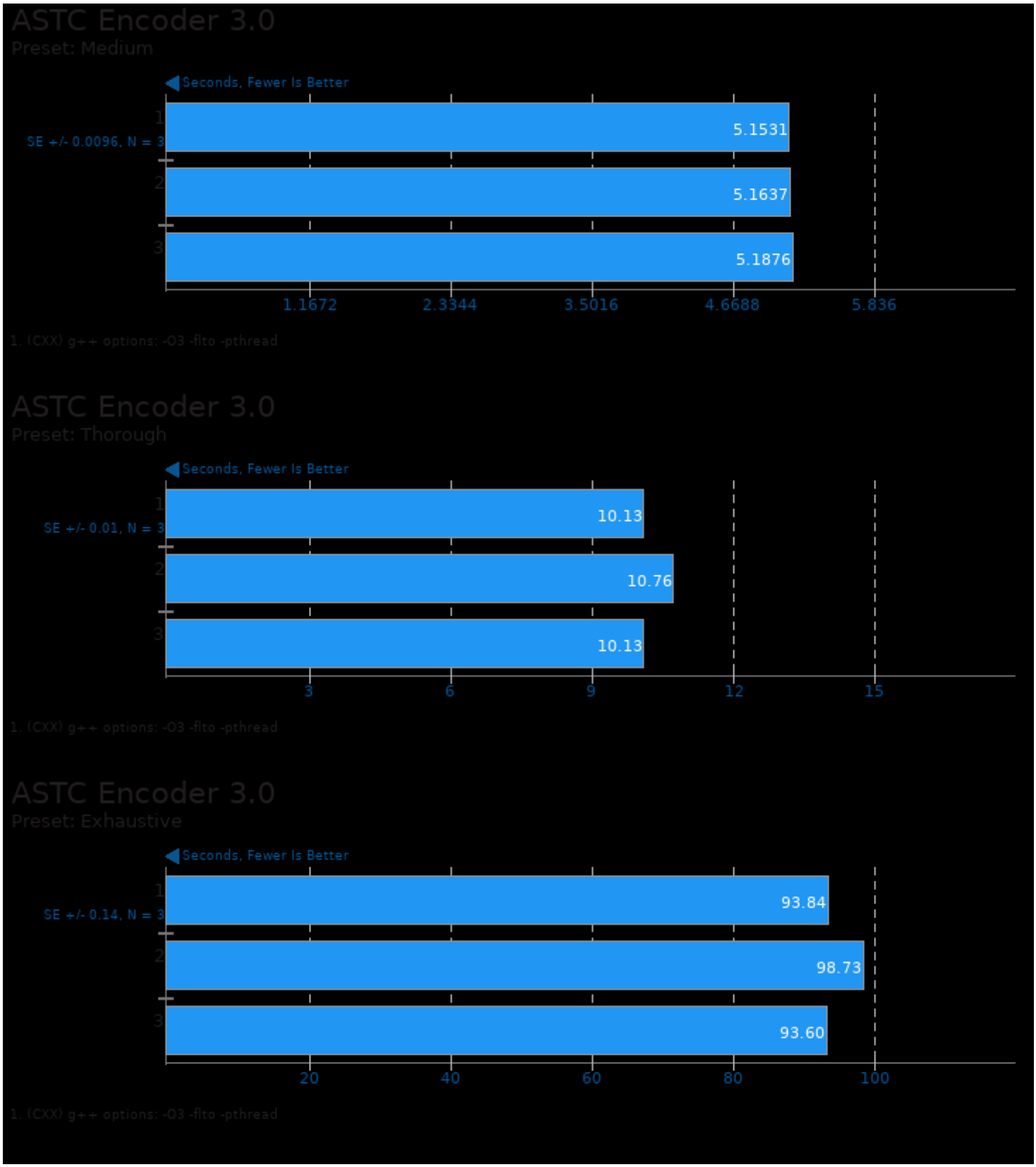
1. (CC) gcc options: -pthread -lm


dav1d 0.9.0
Video Input: Summer Nature 1080p
FPS, More Is Better
SE +/- 2.59, N = 3
1
MIN: 399.26 / MAX: 523.76
477.41
2
MIN: 410.52 / MAX: 519.32
478.56
3
MIN: 413.68 / MAX: 516.31
479.44
100
200
300
400
500
1. (CC) gcc options: -pthread -lm
dav1d 0.9.0
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
SE +/- 0.13, N = 3
1
MIN: 308.01 / MAX: 569.01
392.36
2
MIN: 306.94 / MAX: 539.26
387.38
3
MIN: 307.17 / MAX: 563.59
389.72
90
180
270
360
450
1. (CC) gcc options: -pthread -lm
VP9 libvpx Encoding 1.10.0
Speed: Speed 0 - Input: Bosphorus 4K
Frames Per Second, More Is Better
SE +/- 0.04, N = 3
1
5.80
2
5.85
3
5.74
1.3163
2.6326
3.9489
5.2652
6.5815
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

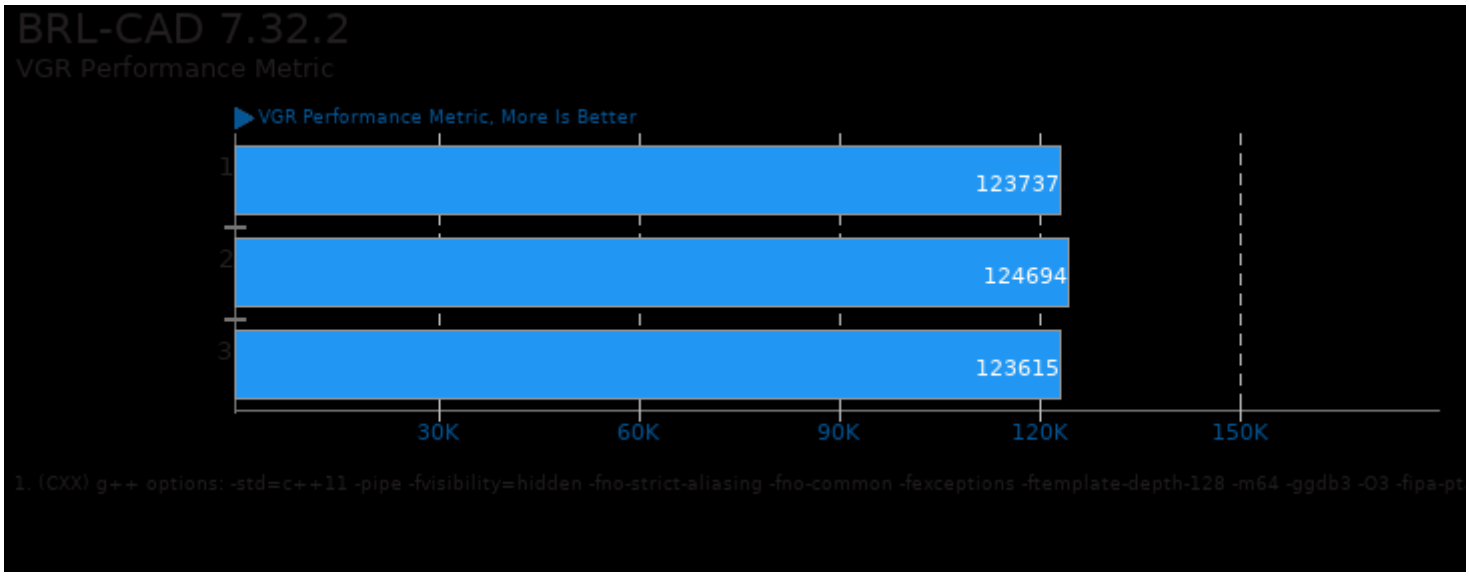

VP9 libvpx Encoding 1.10.0
Speed: Speed 5 - Input: Bosphorus 4K
Frames Per Second, More Is Better
SE +/- 0.09, N = 3
12.05
11.94
12.11
3
6
9
12
15
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11
VP9 libvpx Encoding 1.10.0
Speed: Speed 0 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
SE +/- 0.04, N = 3
11.88
11.78
11.77
3
6
9
12
15
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11
VP9 libvpx Encoding 1.10.0
Speed: Speed 5 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
SE +/- 0.20, N = 3
26.56
26.41
26.35
6
12
18
24
30
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11


Intel Open Image Denoise 1.4.0
Run: RT.hdr_alb_nrm.3840x2160
Images / Sec, More Is Better
SE +/- 0.00, N = 3
1
2
3
0.35
0.35
0.35
0.0788
0.1576
0.2364
0.3152
0.394
Intel Open Image Denoise 1.4.0
Run: RT.ldr_alb_nrm.3840x2160
Images / Sec, More Is Better
SE +/- 0.00, N = 3
1
2
3
0.35
0.35
0.34
0.0788
0.1576
0.2364
0.3152
0.394
Intel Open Image Denoise 1.4.0
Run: RTLightmap.hdr.4096x4096
Images / Sec, More Is Better
SE +/- 0.00, N = 3
1
2
3
0.17
0.17
0.17
0.0383
0.0766
0.1149
0.1532
0.1915

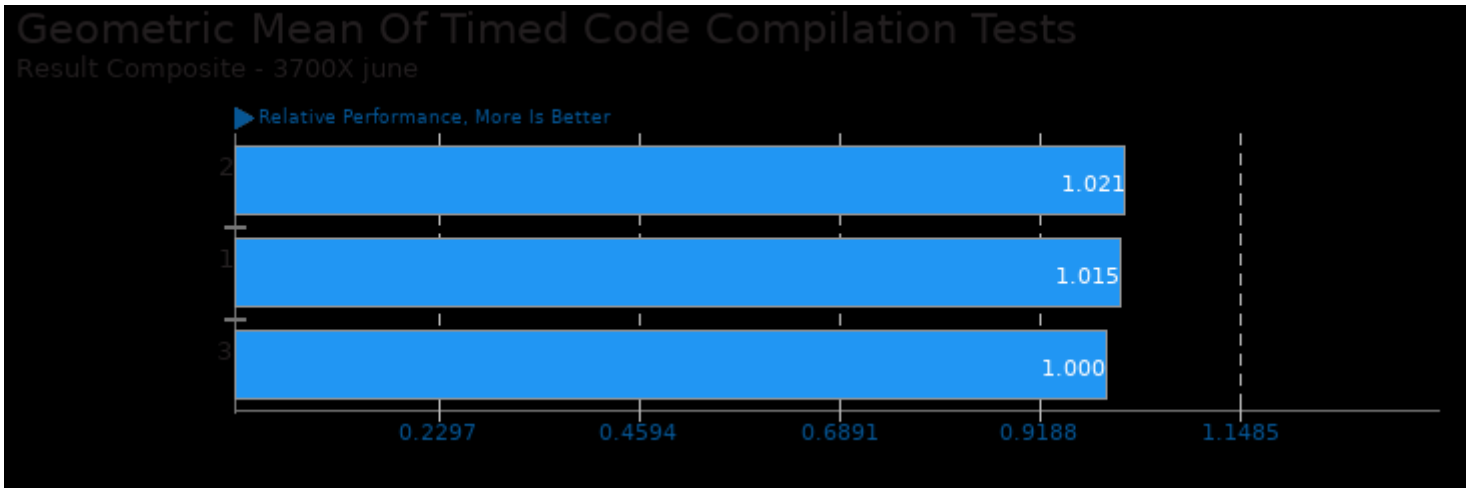

Timed FFmpeg Compilation 4.4
Time To Compile
Seconds, Fewer Is Better
SE +/- 0.26, N = 3
1
58.98
2
58.56
3
60.74
14
28
42
56
70
Timed GDB GNU Debugger Compilation 10.2
Time To Compile
Seconds, Fewer Is Better
SE +/- 0.17, N = 3
1
68.43
2
68.27
3
68.52
15
30
45
60
75
GROMACS 2021.2
Implementation: MPI CPU - Input: water_GMX50_bare
Ns Per Day, More Is Better
SE +/- 0.000, N = 3
1
0.781
2
0.780
3
0.776
0.1757
0.3514
0.5271
0.7028
0.8785
1. (CXX) g++ options: -O3 -pthread


ASTC Encoder 3.0
Preset: Medium
Seconds, Fewer Is Better
SE +/- 0.0096, N = 3
1
2
3
5.1531
5.1637
5.1876
1.1672
2.3344
3.5016
4.6688
5.836
1. (CXX) g++ options: -O3 -flto -pthread
ASTC Encoder 3.0
Preset: Thorough
Seconds, Fewer Is Better
SE +/- 0.01, N = 3
1
2
3
10.13
10.76
10.13
3
6
9
12
15
1. (CXX) g++ options: -O3 -flto -pthread
ASTC Encoder 3.0
Preset: Exhaustive
Seconds, Fewer Is Better
SE +/- 0.14, N = 3
1
2
3
93.84
98.73
93.60
20
40
60
80
100
1. (CXX) g++ options: -O3 -flto -pthread

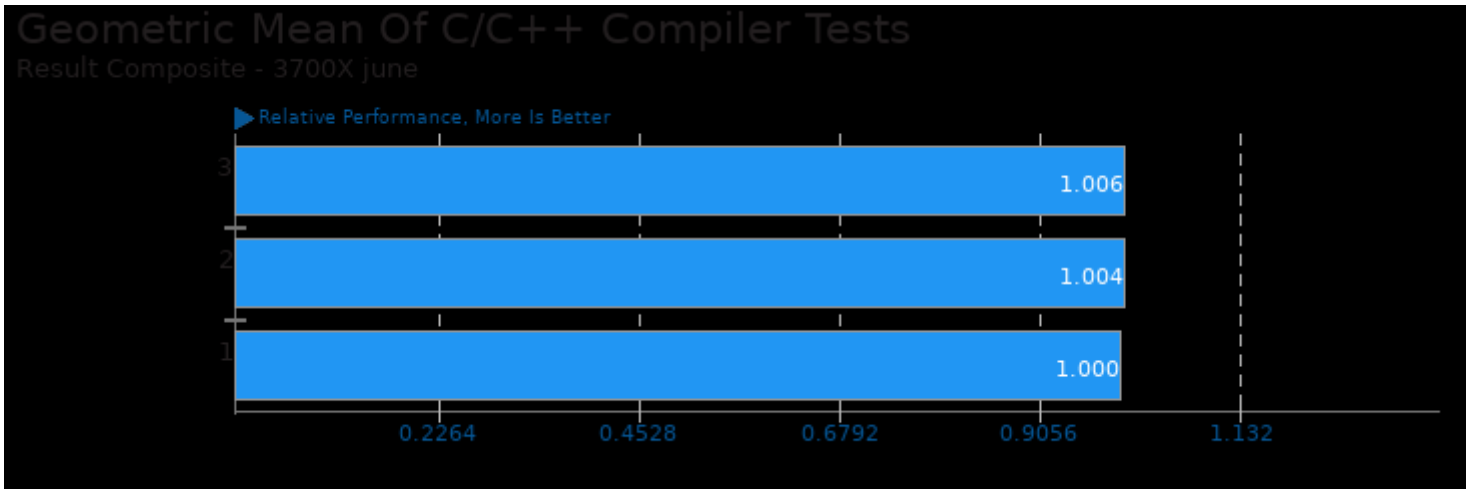
3700X june


BRL-CAD 7.32.2
VGR Performance Metric
VGR Performance Metric, More Is Better
1
123737
2
124694
3
123615
30K
60K
90K
120K
150K
1. (CXX) g++ options: -std=c++11 -pipe -fvisibility=hidden -fno-strict-aliasing -fno-common -fexceptions -ftemplate-depth-128 -m64 -ggdb3 -O3 -fipa-pt

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



Geometric mean based upon tests: pts/build-gdb and pts/build-ffmpeg



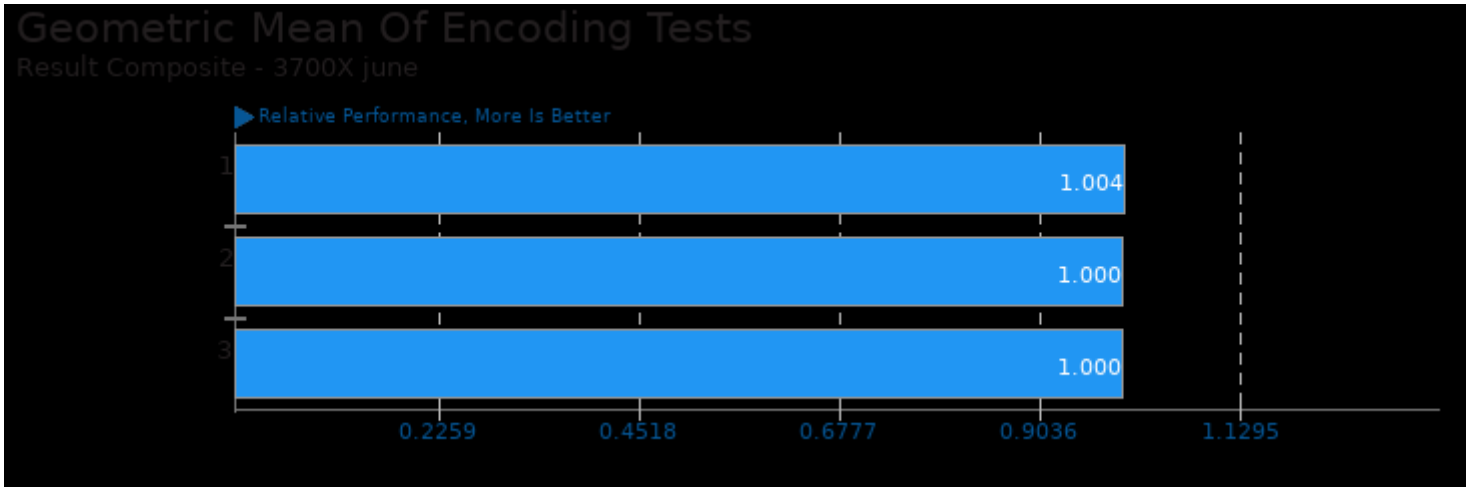
Geometric mean based upon tests: pts/vpxenc, pts/dav1d, pts/compress-zstd, pts/gromacs, pts/build-gdb and pts/build-ffmpeg



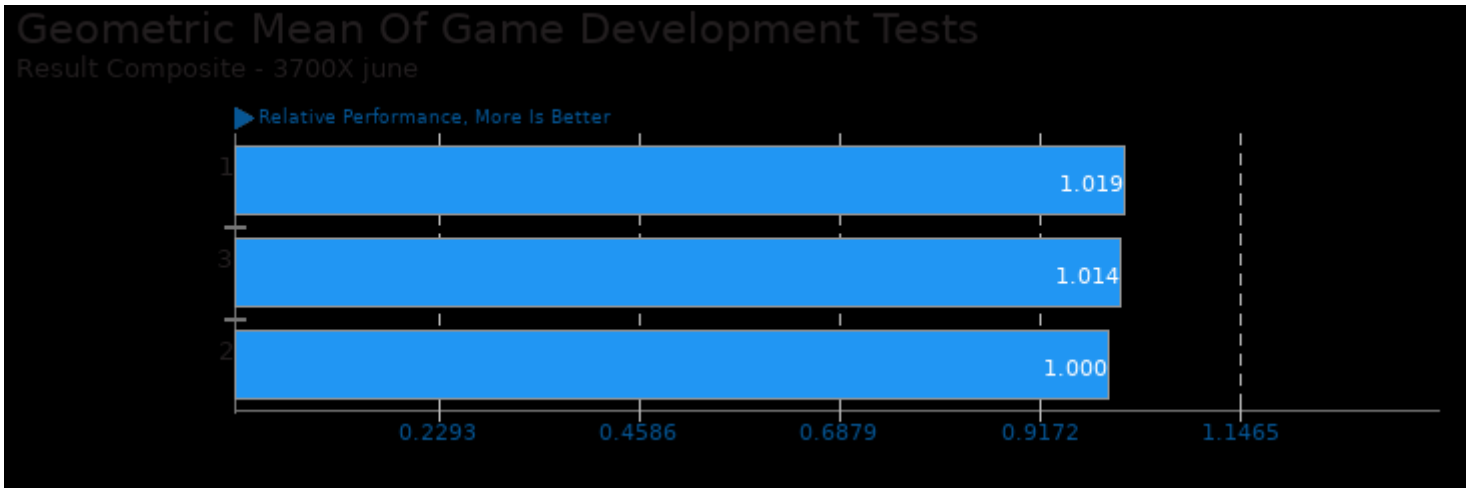
Geometric mean based upon tests: pts/brl-cad, pts/compress-zstd, pts/dav1d and pts/vpxenc



Geometric mean based upon tests: pts/vpxenc, pts/dav1d, pts/oidn, pts/astcenc and pts/brl-cad



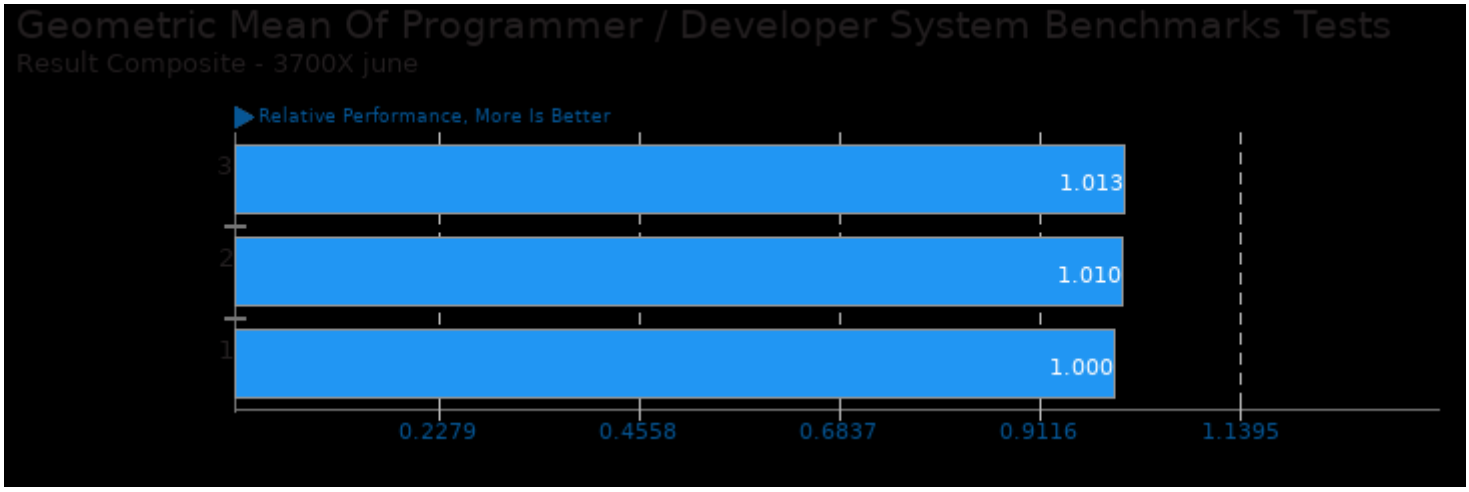
Geometric mean based upon tests: pts/vpxenc and pts/dav1d



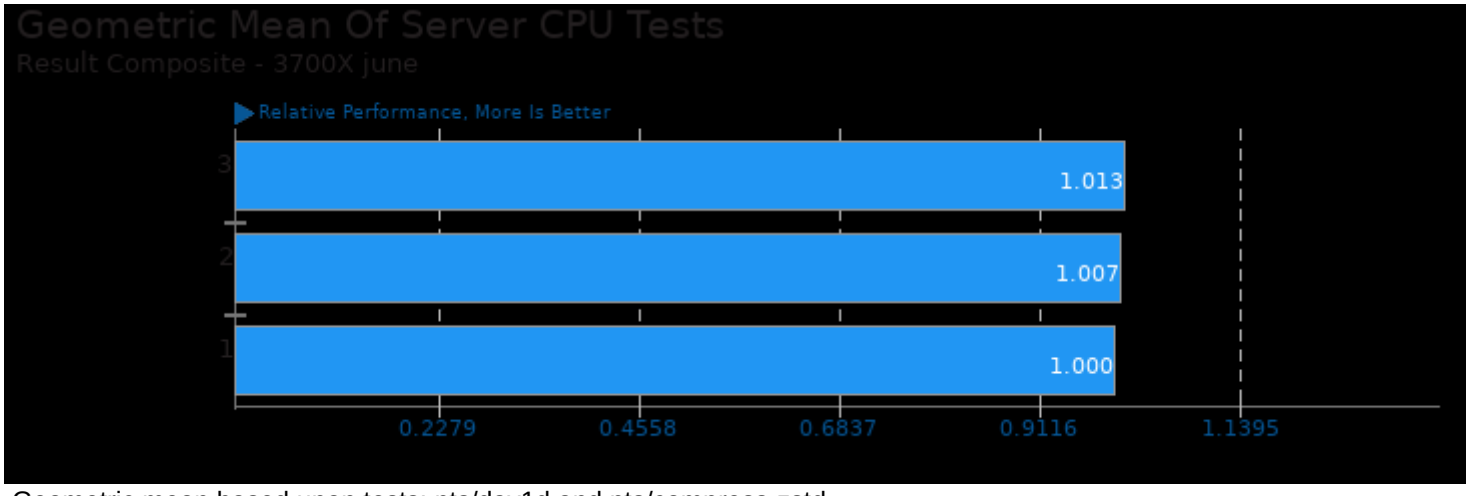
Geometric mean based upon tests: pts/astcenc and pts/oidn



Geometric mean based upon tests: pts/vpxenc, pts/dav1d, pts/gromacs, pts/compress-zstd, pts/build-gdb, pts/build-ffmpeg and pts/oidn

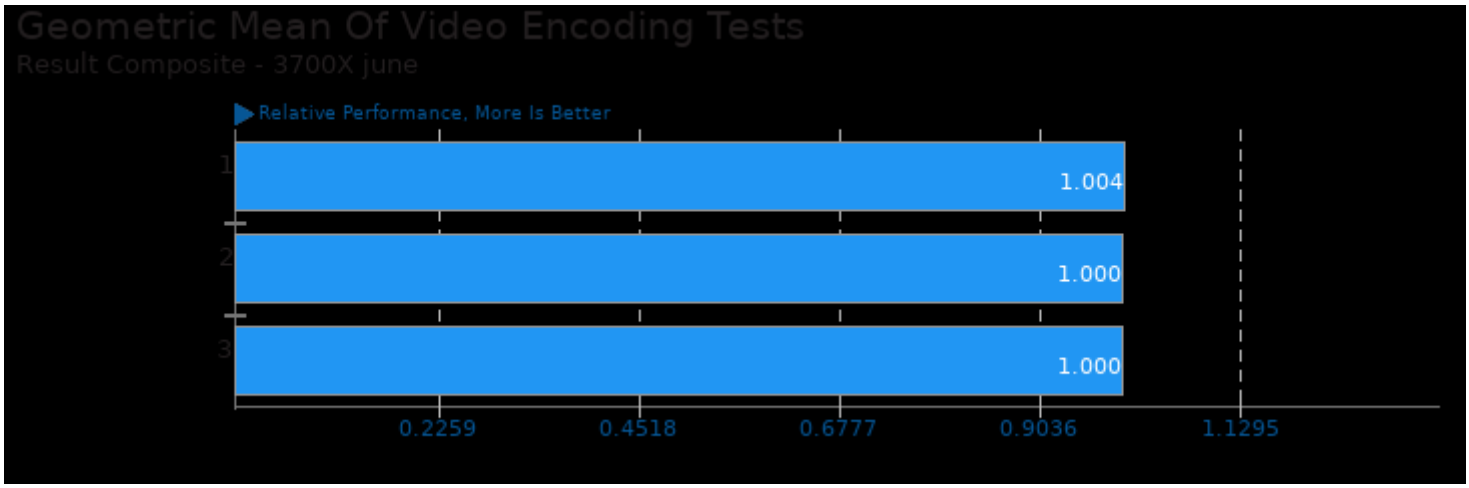


Geometric mean based upon tests: pts/compress-zstd, pts/build-gdb and pts/build-ffmpeg



Geometric mean based upon tests: pts/dav1d and pts/compress-zstd

3700X june



Geometric mean based upon tests: pts/vpxenc and pts/dav1d

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 19:48.