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tr 3970x june

AMD Ryzen Threadripper 3970X 32-Core testing with a ASUS ROG ZENITH II EXTREME (1201 BIOS) and AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB on Ubuntu 20.10 via the Phoronix Test Suite.

Automated Executive Summary

3 had the most wins, coming in first place for 48% 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 0.997x the speed of 3 and 1 was 1x the speed of 2.

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

srsRAN (Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM) at 1.036x
srsRAN (Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM) at 1.026x
srsRAN (Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM) at 1.014x
srsRAN (Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM) at 1.013x
srsRAN (Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM) at 1.01x
VP9 libvpx Encoding (Speed: Speed 5 - Input: Bosphorus 4K) at 1.009x
Timed FFmpeg Compilation (Time To Compile) at 1.009x
NAS Parallel Benchmarks (Test / Class: EP.D) at 1.008x
srsRAN (Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM) at 1.008x

srsRAN (Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM) at 1.008x.

Test Systems:

1

2

3

Processor: AMD Ryzen Threadripper 3970X 32-Core @ 4.55GHz (32 Cores / 64 Threads), Motherboard: ASUS ROG ZENITH II EXTREME (1201 BIOS), Chipset: AMD Starship/Matisse, Memory: 64GB, Disk: Samsung SSD 980 PRO 500GB, Graphics: AMD Radeon RX 5600 OEM/5600 XT / 5700/5700 8GB (1750/875MHz), Audio: AMD Navi 10 HDMI Audio, Monitor: ASUS VP28U, Network: Aquantia AQC107 NBase-T/IEEE + Intel I211 + Intel Wi-Fi 6 AX200

OS: Ubuntu 20.10, Kernel: 5.11.0-rc6-phx (x86_64) 20210203, Desktop: GNOME Shell 3.38.1, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.1 (LLVM 11.0.0), Vulkan: 1.2.131, Compiler: GCC 10.2.0, File-System: ext4, Screen Resolution: 3840x2160

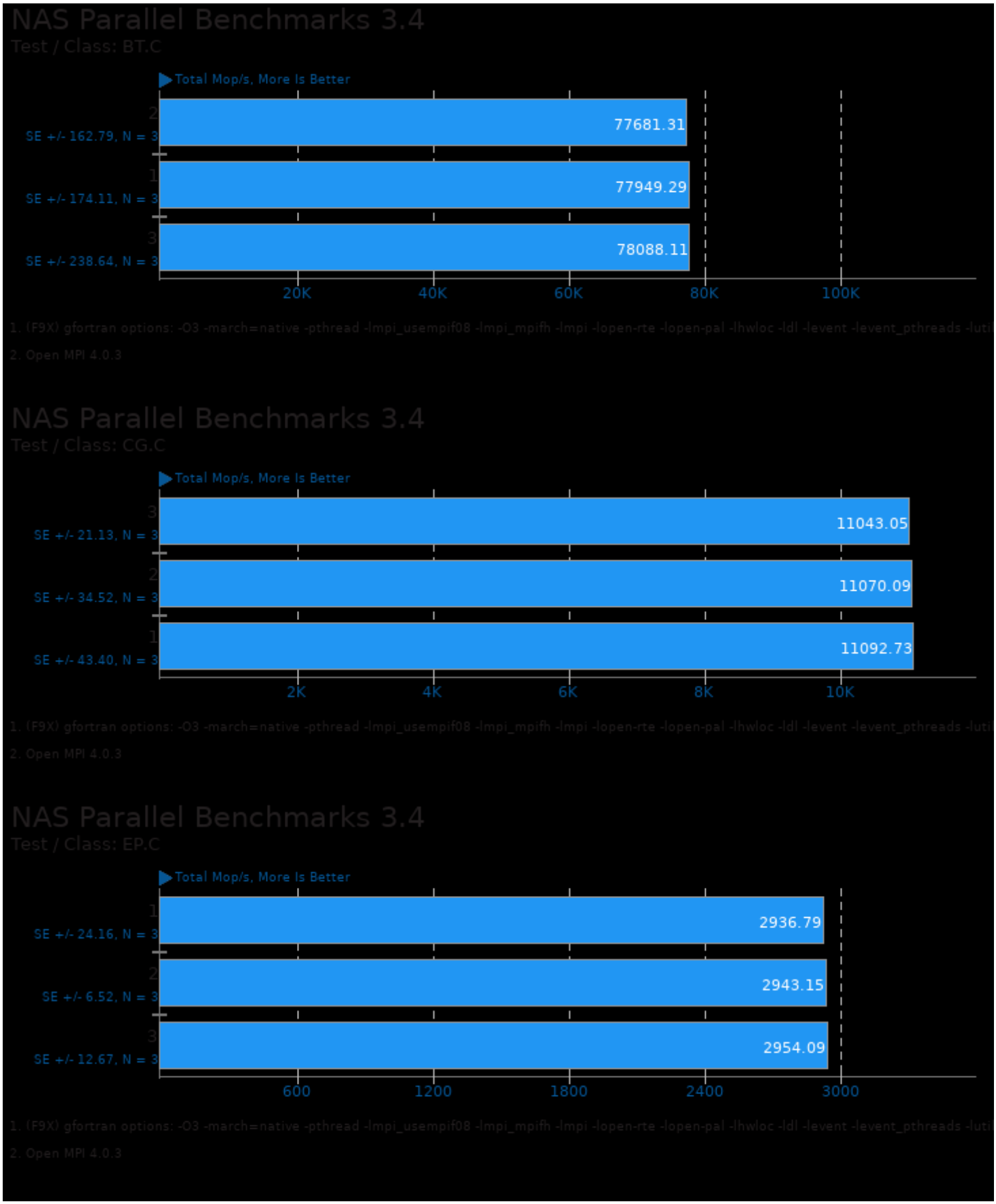
Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-JvwpWM/gcc-10-10.2.0/debian/tmp-gcn/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 schedutil (Boost: Enabled) - CPU Microcode: 0x8301039
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

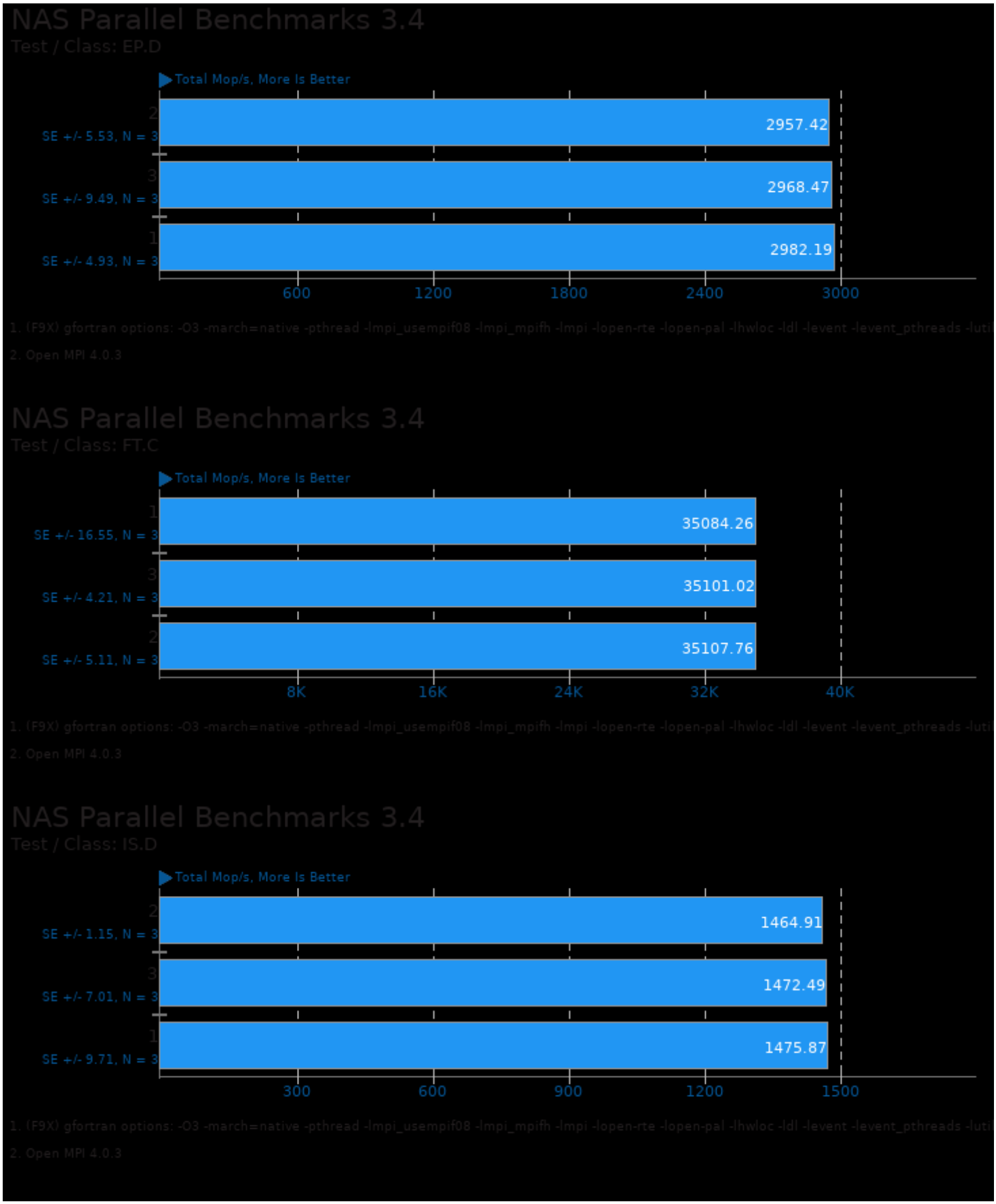
	1	2	3
NAS Parallel Benchmarks - BT.C (Mop/s)	77949	**77681**	**78088**
Normalized	99.82%	99.48%	100%
Standard Deviation	0.4%	0.4%	0.5%
NAS Parallel Benchmarks - CG.C (Mop/s)	**11093**	11070	**11043**
Normalized	100%	99.8%	99.55%
Standard Deviation	0.7%	0.5%	0.3%
NAS Parallel Benchmarks - EP.C (Mop/s)	**2937**	2943	**2954**
Normalized	99.41%	99.63%	100%
Standard Deviation	1.4%	0.4%	0.7%
NAS Parallel Benchmarks - EP.D (Mop/s)	**2982**	**2957**	2968
Normalized	100%	99.17%	99.54%
Standard Deviation	0.3%	0.3%	0.6%
NAS Parallel Benchmarks - FT.C (Mop/s)	**35084**	**35108**	35101
Normalized	99.93%	100%	99.98%

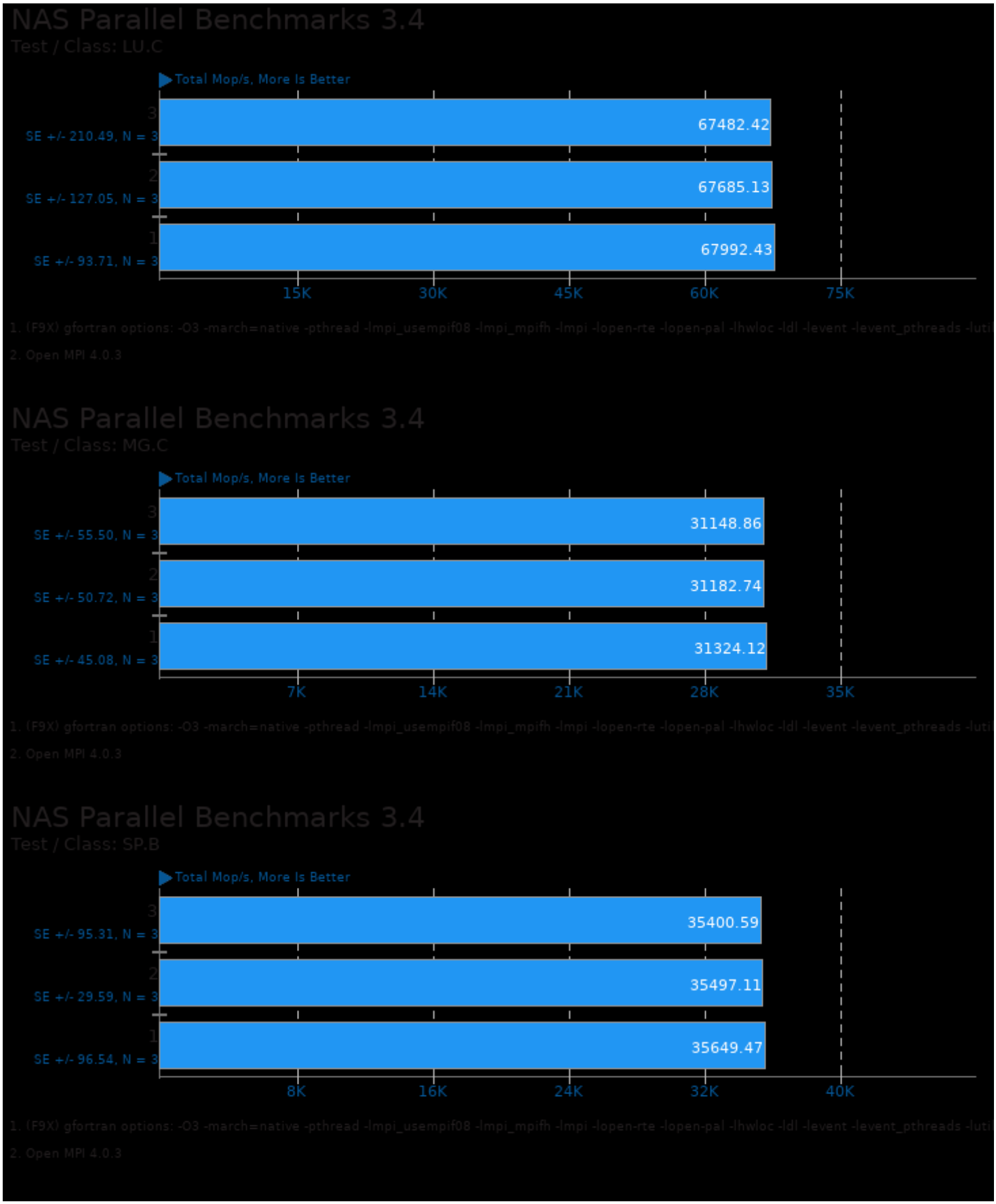
Standard Deviation	0.1%	0%	0%
NAS Parallel Benchmarks - IS.D (Mop/s)	**1476**	**1465**	1472
Normalized	100%	99.26%	99.77%
Standard Deviation	1.1%	0.1%	0.8%
NAS Parallel Benchmarks - LU.C (Mop/s)	**67992**	67685	**67482**
Normalized	100%	99.55%	99.25%
Standard Deviation	0.2%	0.3%	0.5%
NAS Parallel Benchmarks - MG.C (Mop/s)	**31324**	31183	**31149**
Normalized	100%	99.55%	99.44%
Standard Deviation	0.2%	0.3%	0.3%
NAS Parallel Benchmarks - SP.B (Mop/s)	**35649**	35497	**35401**
Normalized	100%	99.57%	99.3%
Standard Deviation	0.5%	0.1%	0.5%
NAS Parallel Benchmarks - SP.C (Mop/s)	**25636**	25591	**25557**
Normalized	100%	99.83%	99.69%
Standard Deviation	0.2%	0.1%	0.2%
srsRAN - OFDM_Test (Samples / Second)	**126033333**	126666667	**126800000**
Normalized	99.4%	99.89%	100%
Standard Deviation	1.2%	1.8%	0.7%
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	**369.0**	368.9	**367.3**
Normalized	100%	99.97%	99.54%
Standard Deviation	0.1%	0%	0.2%
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	**149.3**	149.5	**149.6**
Normalized	99.8%	99.93%	100%
Standard Deviation	1.3%	0.9%	0.3%
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	370.7	**369.5**	**372.0**
Normalized	99.65%	99.33%	100%
Standard Deviation	0.1%	0.1%	0.4%
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	232.1	**231.9**	**233.7**
Normalized	99.32%	99.23%	100%
Standard Deviation	0.3%	0.1%	0.1%
srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	399.1	**397.7**	**402.7**
Normalized	99.11%	98.76%	100%
Standard Deviation	0.5%	0.1%	1.2%
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	161.7	**160.5**	**162.8**
Normalized	99.32%	98.59%	100%
Standard Deviation	0.1%	0.1%	1.5%
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	**394.8**	**398.1**	**398.1**
Normalized	99.17%	100%	100%
Standard Deviation	0.4%	0.3%	0.6%
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	**275.8**	277.9	**278.5**
Normalized	99.03%	99.78%	100%
Standard Deviation	0.4%	0.4%	0.5%
srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)	**104.5**	107.2	**108.3**
Normalized	96.49%	98.98%	100%
Standard Deviation	1.8%	0.1%	1.1%
srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)	**58.5**	59.4	**60.0**
Normalized	97.5%	99%	100%
Standard Deviation	0.2%	0.1%	1.3%
srsRAN - 5.P.T.2.P.S.2.Q (eNb Mb/s)	**115.6**	**116.0**	**116.0**
Normalized	99.66%	100%	100%
Standard Deviation	0.3%	0%	0.4%
srsRAN - 5.P.T.2.P.S.2.Q (UE Mb/s)	**75.1**	75.2	**75.3**
Normalized	99.73%	99.87%	100%
Standard Deviation	0.3%	0.1%	0.2%

tr 3970x june

VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)	6.68	6.68	6.68
Standard Deviation	0.2%	0.7%	1.1%
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)	**14.17**	14.07	**14.05**
Normalized	100%	99.29%	99.15%
Standard Deviation	0.6%	0.9%	1.2%
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)	**14.29**	**14.24**	14.26
Normalized	100%	99.65%	99.79%
Standard Deviation	0.1%	0.3%	0.2%
VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)	**29.61**	**29.41**	29.60
Normalized	100%	99.32%	99.97%
Standard Deviation	1.1%	0.2%	0.7%
Timed FFmpeg Compilation - Time To Compile (sec)	21.063	**21.160**	**20.981**
Normalized	99.61%	99.15%	100%
Standard Deviation	0.4%	1.8%	0.3%
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	**42.497**	42.464	**42.460**
Normalized	99.91%	99.99%	100%
Standard Deviation	0.3%	0.2%	0.2%
ASTC Encoder - Medium (sec)	**4.0919**	4.0884	**4.0621**
Normalized	99.27%	99.36%	100%
Standard Deviation	0.5%	0.7%	0.4%
ASTC Encoder - Thorough (sec)	7.0486	**7.0450**	**7.0547**
Normalized	99.95%	100%	99.86%
Standard Deviation	0.6%	0.1%	0.4%
ASTC Encoder - Exhaustive (sec)	23.5466	**23.5709**	**23.5274**
Normalized	99.92%	99.82%	100%
Standard Deviation	0.2%	0.2%	0.2%
BRL-CAD - V.P.M (VGR Performance Metric)	541830	**542954**	**540942**
Normalized	99.79%	100%	99.63%

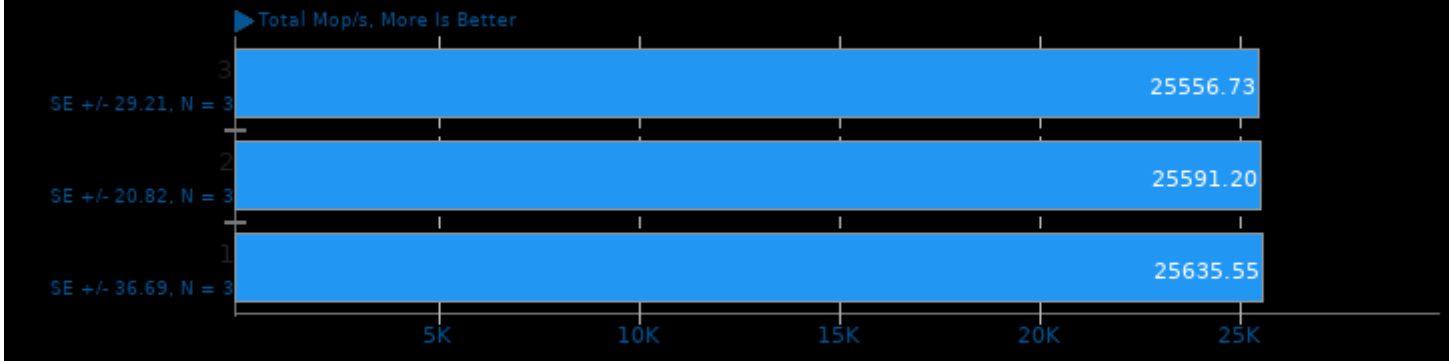

NAS Parallel Benchmarks 3.4
Test / Class: BT.C
Total Mop/s, More Is Better
2
SE +/- 162.79, N = 3
77681.31
1
SE +/- 174.11, N = 3
77949.29
3
SE +/- 238.64, N = 3
78088.11
20K
40K
60K
80K
100K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: CG.C
Total Mop/s, More Is Better
3
SE +/- 21.13, N = 3
11043.05
2
SE +/- 34.52, N = 3
11070.09
1
SE +/- 43.40, N = 3
11092.73
2K
4K
6K
8K
10K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: EP.C
Total Mop/s, More Is Better
1
SE +/- 24.16, N = 3
2936.79
2
SE +/- 6.52, N = 3
2943.15
3
SE +/- 12.67, N = 3
2954.09
600
1200
1800
2400
3000
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3


NAS Parallel Benchmarks 3.4
Test / Class: EP.D
Total Mop/s, More Is Better
2
SE +/- 5.53, N = 3
2957.42
3
SE +/- 9.49, N = 3
2968.47
1
SE +/- 4.93, N = 3
2982.19
600
1200
1800
2400
3000
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: FT.C
Total Mop/s, More Is Better
1
SE +/- 16.55, N = 3
35084.26
3
SE +/- 4.21, N = 3
35101.02
2
SE +/- 5.11, N = 3
35107.76
8K
16K
24K
32K
40K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: IS.D
Total Mop/s, More Is Better
2
SE +/- 1.15, N = 3
1464.91
3
SE +/- 7.01, N = 3
1472.49
1
SE +/- 9.71, N = 3
1475.87
300
600
900
1200
1500
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3


NAS Parallel Benchmarks 3.4
Test / Class: LU.C
Total Mop/s, More Is Better
SE +/- 210.49, N = 3
67482.42
SE +/- 127.05, N = 3
67685.13
SE +/- 93.71, N = 3
67992.43
15K
30K
45K
60K
75K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: MG.C
Total Mop/s, More Is Better
SE +/- 55.50, N = 3
31148.86
SE +/- 50.72, N = 3
31182.74
SE +/- 45.08, N = 3
31324.12
7K
14K
21K
28K
35K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3
NAS Parallel Benchmarks 3.4
Test / Class: SP.B
Total Mop/s, More Is Better
SE +/- 95.31, N = 3
35400.59
SE +/- 29.59, N = 3
35497.11
SE +/- 96.54, N = 3
35649.47
8K
16K
24K
32K
40K
1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti
2. Open MPI 4.0.3

NAS Parallel Benchmarks 3.4

Test / Class: SP.C

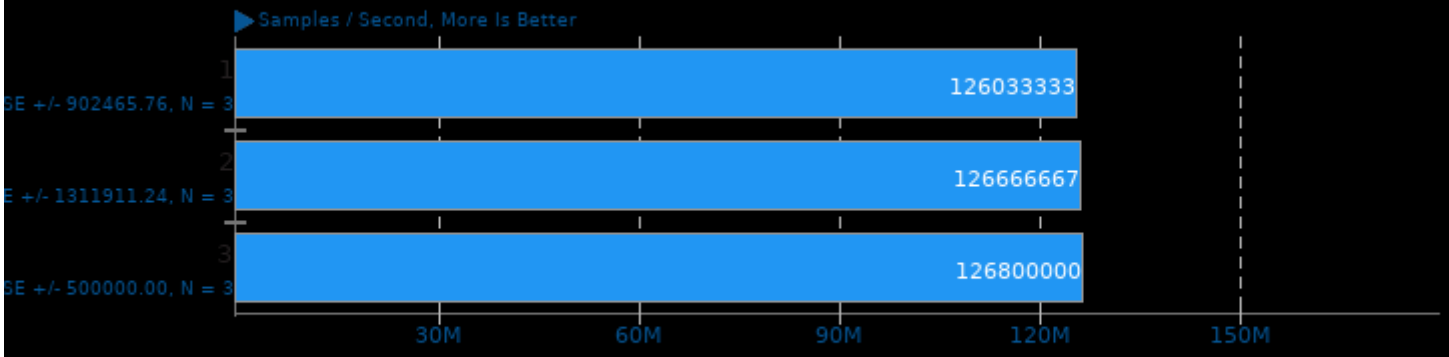


1. (F9X) gfortran options: -O3 -march=native -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-pal -lhwloc -ldl -levent -levent_pthreads -luti

2. Open MPI 4.0.3

srsRAN 21.04

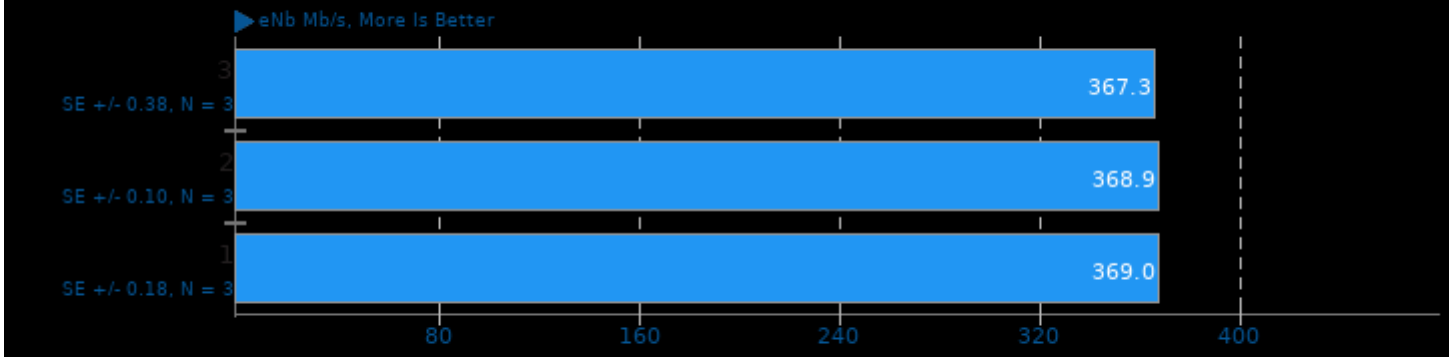
Test: OFDM_Test



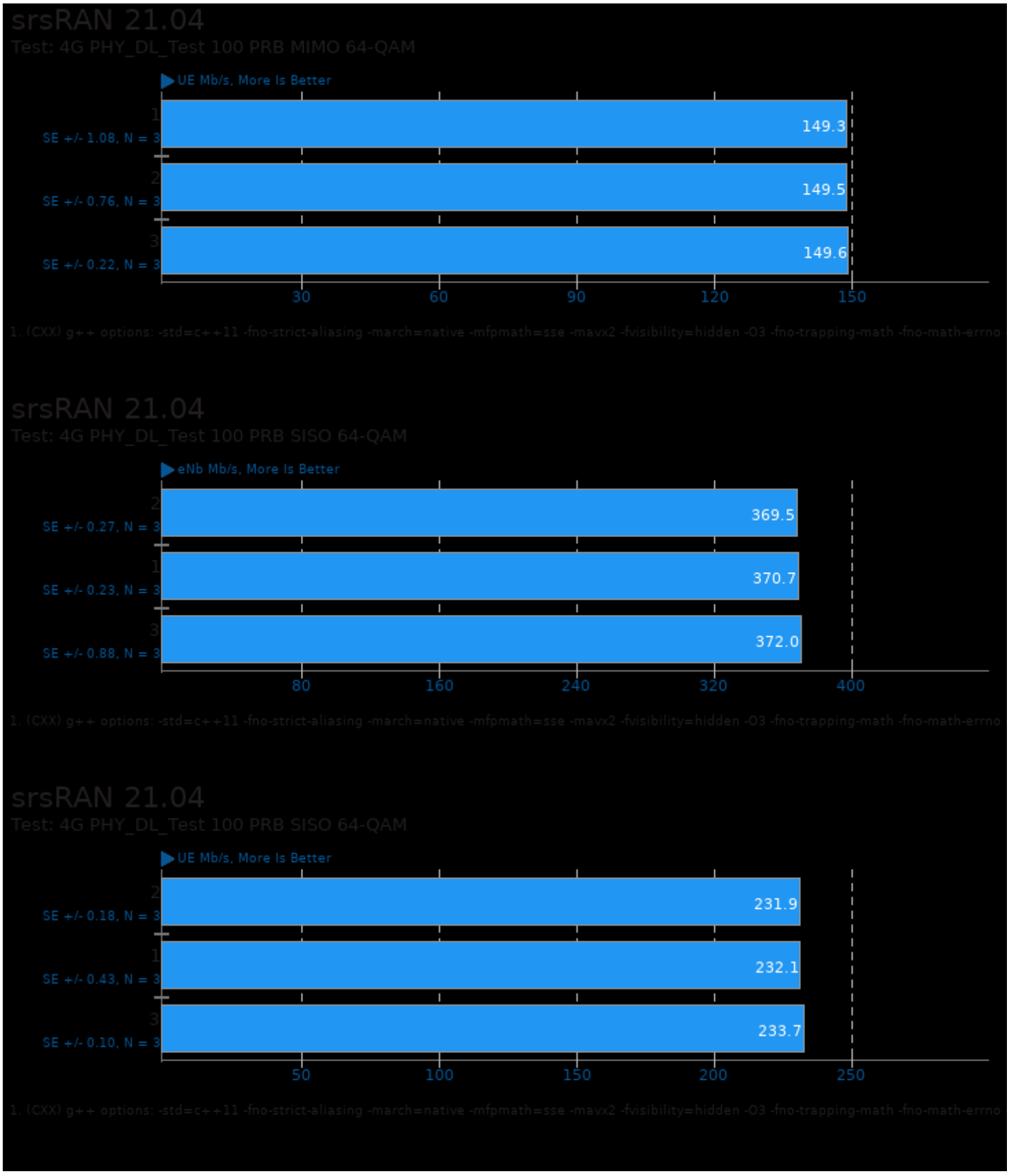
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

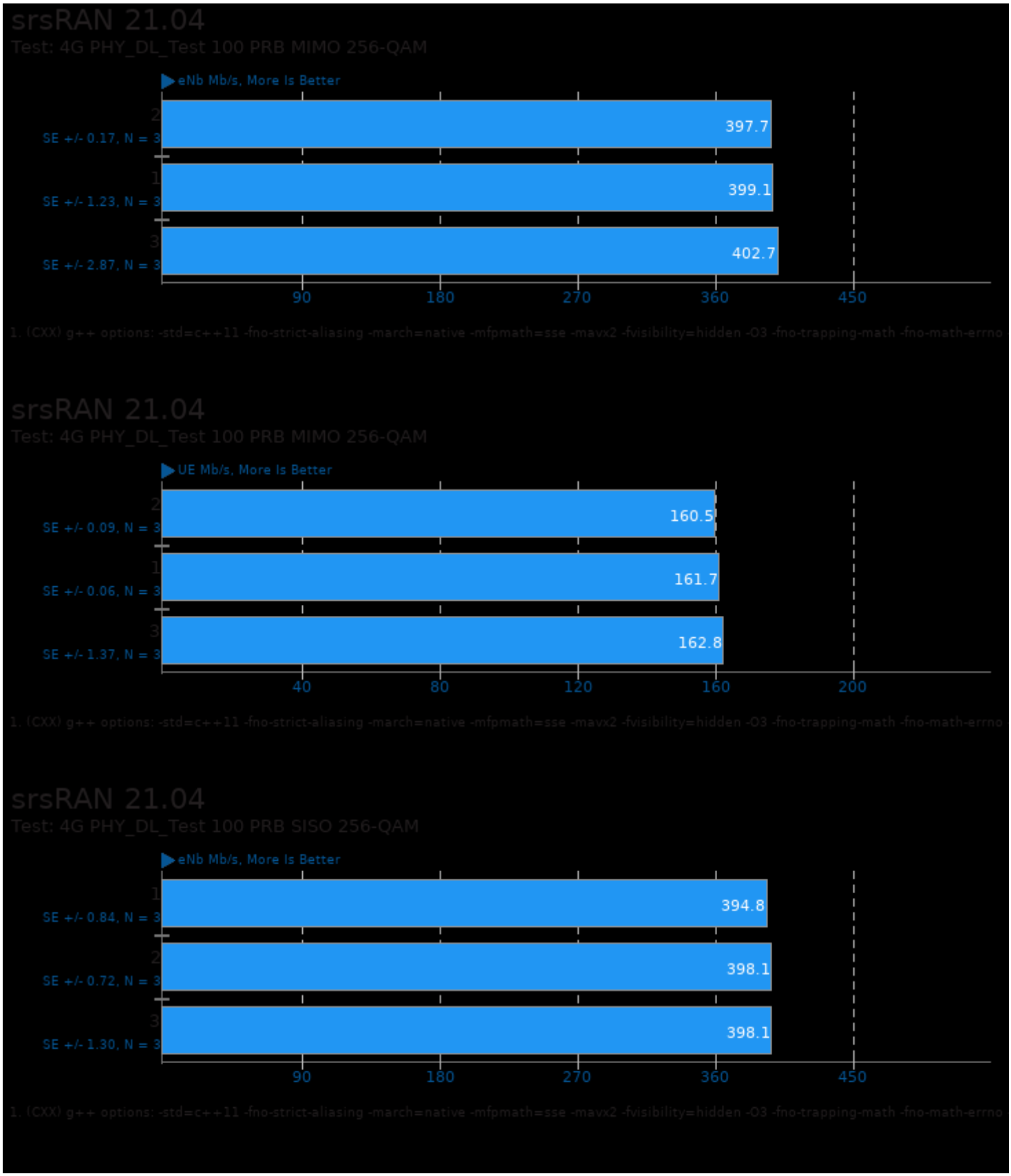
srsRAN 21.04

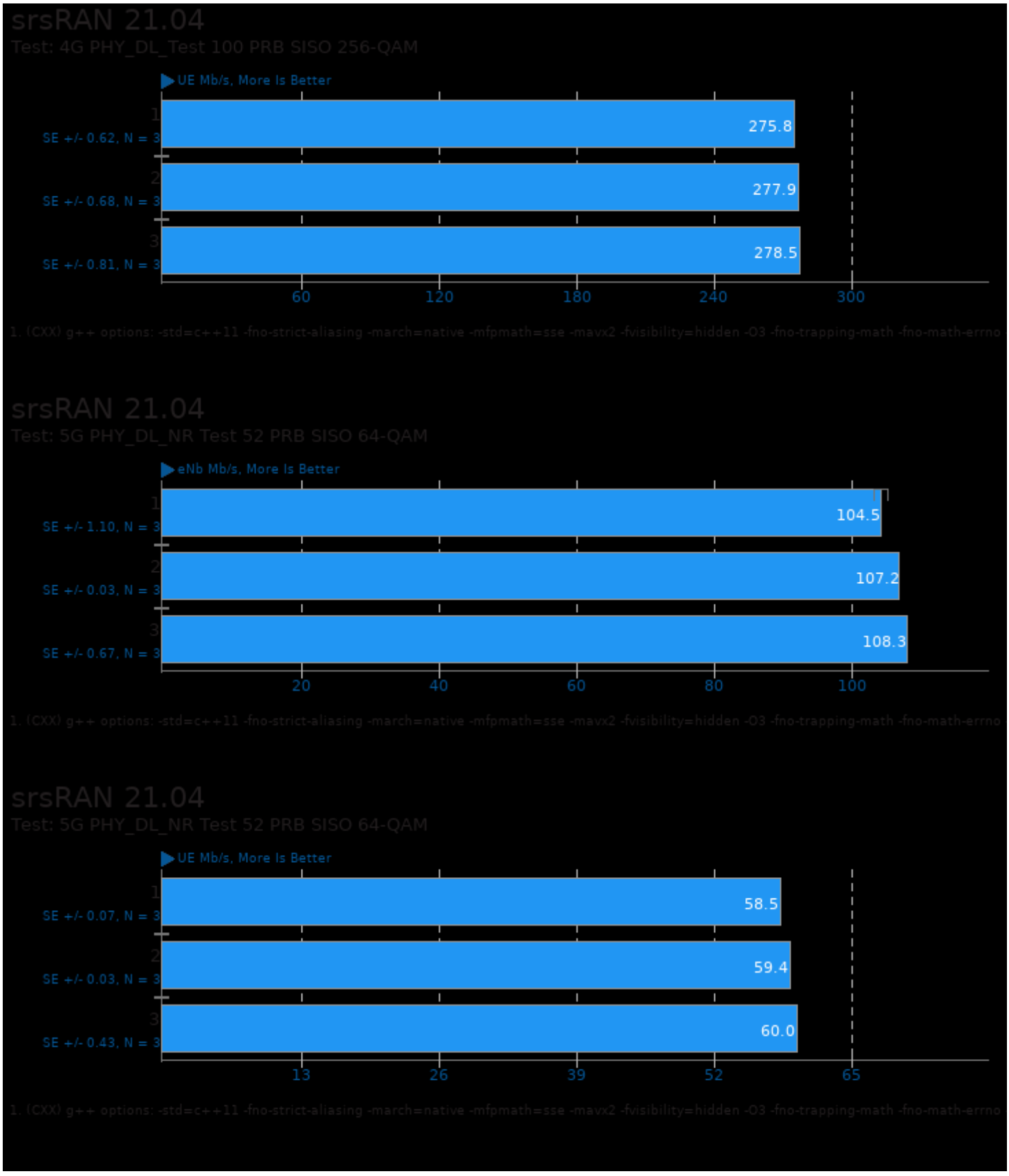
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM



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

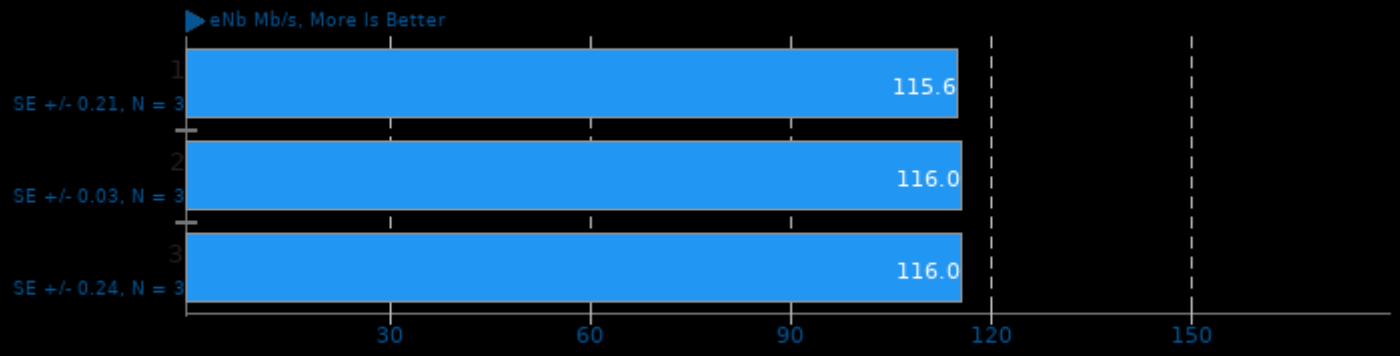

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
UE Mb/s, More Is Better
1
SE +/- 1.08, N = 3
149.3
2
SE +/- 0.76, N = 3
149.5
3
SE +/- 0.22, N = 3
149.6
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
eNb Mb/s, More Is Better
2
SE +/- 0.27, N = 3
369.5
1
SE +/- 0.23, N = 3
370.7
3
SE +/- 0.88, N = 3
372.0
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
2
SE +/- 0.18, N = 3
231.9
1
SE +/- 0.43, N = 3
232.1
3
SE +/- 0.10, N = 3
233.7
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
2
SE +/- 0.17, N = 3
397.7
1
SE +/- 1.23, N = 3
399.1
3
SE +/- 2.87, N = 3
402.7
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
2
SE +/- 0.09, N = 3
160.5
1
SE +/- 0.06, N = 3
161.7
3
SE +/- 1.37, N = 3
162.8
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
1
SE +/- 0.84, N = 3
394.8
2
SE +/- 0.72, N = 3
398.1
3
SE +/- 1.30, N = 3
398.1
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
1
SE +/- 0.62, N = 3
275.8
2
SE +/- 0.68, N = 3
277.9
3
SE +/- 0.81, N = 3
278.5
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
1
SE +/- 1.10, N = 3
104.5
2
SE +/- 0.03, N = 3
107.2
3
SE +/- 0.67, N = 3
108.3
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
1
SE +/- 0.07, N = 3
58.5
2
SE +/- 0.03, N = 3
59.4
3
SE +/- 0.43, N = 3
60.0
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

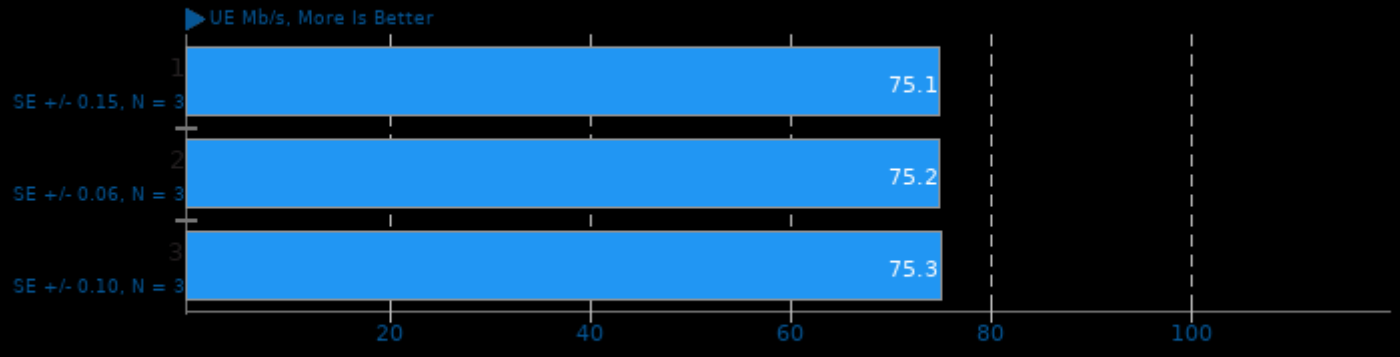
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM



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

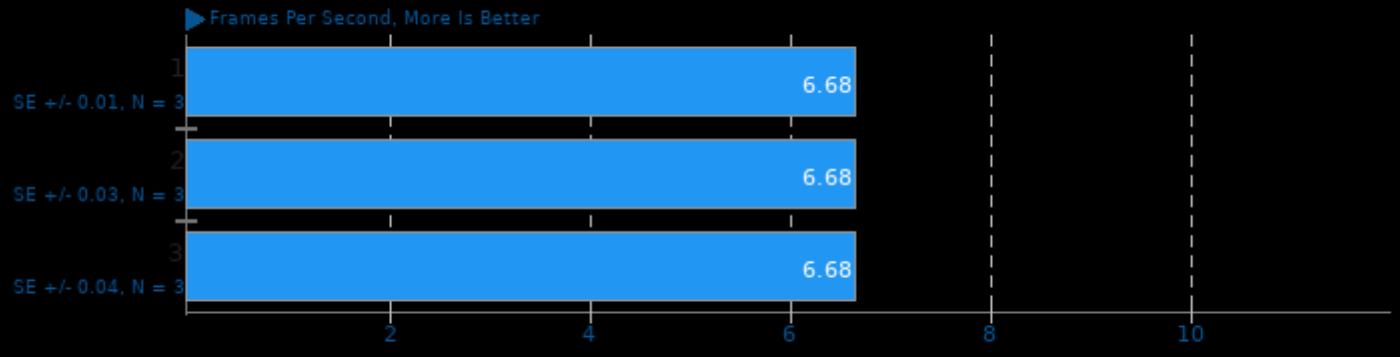
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM



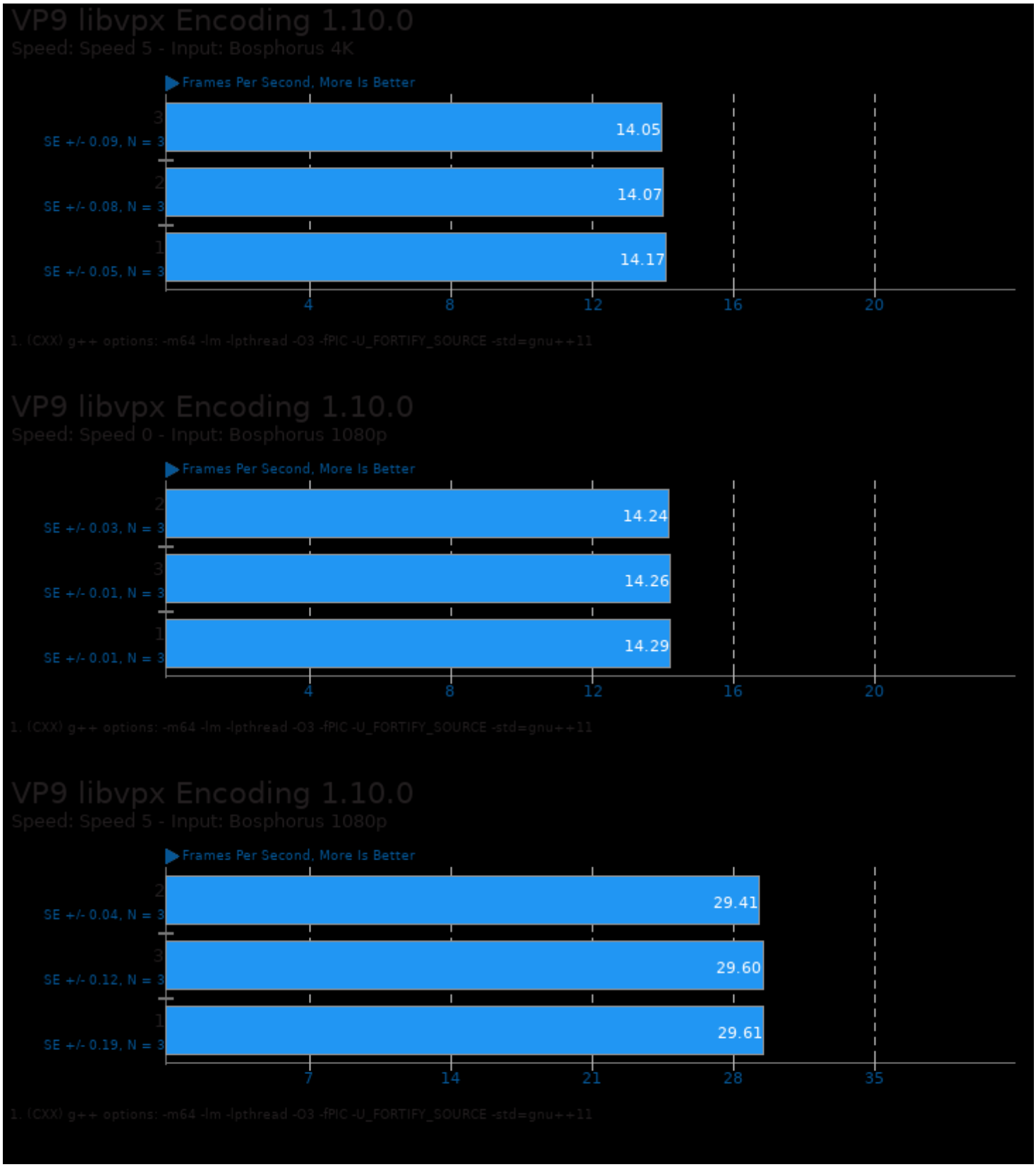
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

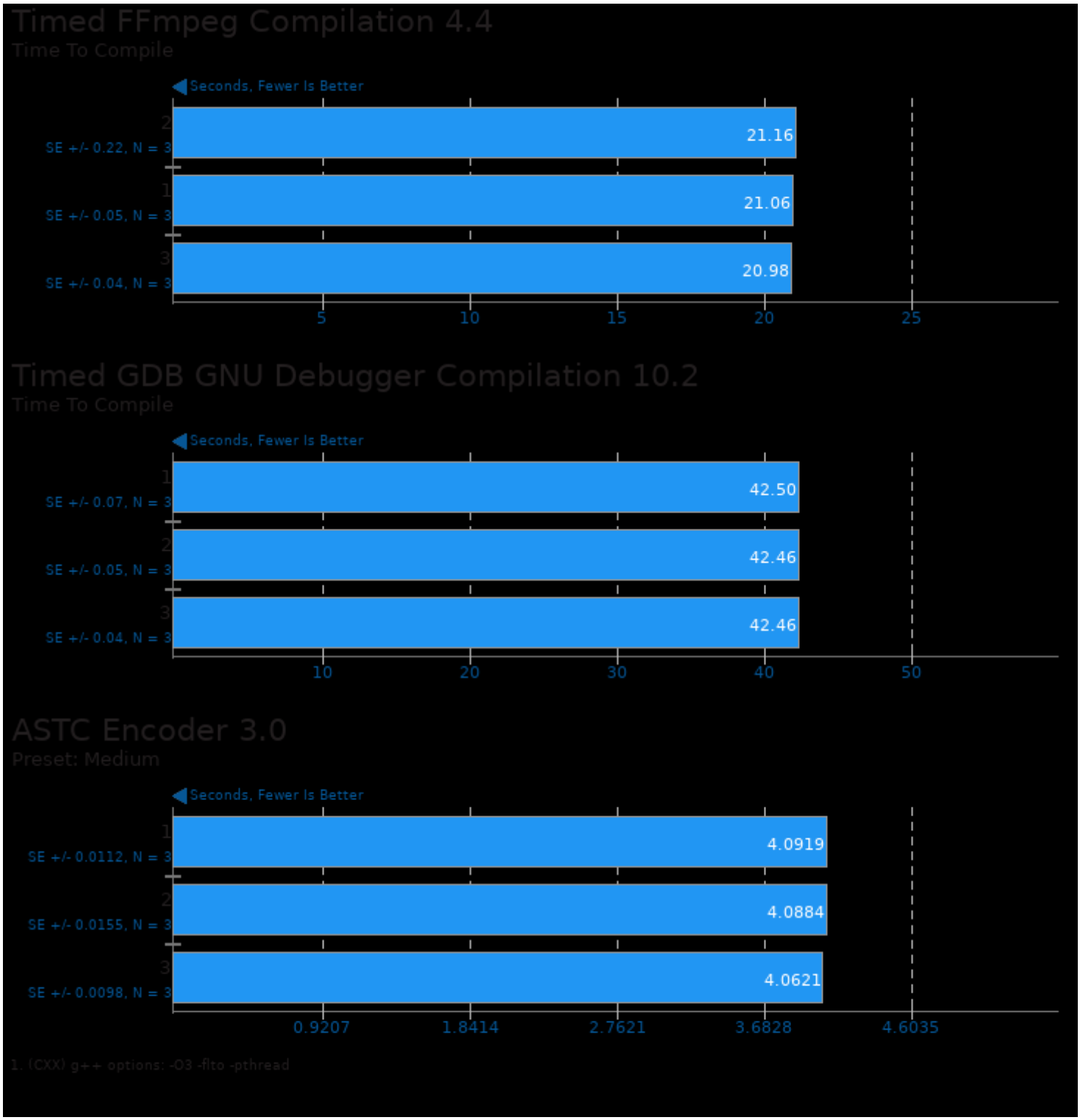
VP9 libvpx Encoding 1.10.0

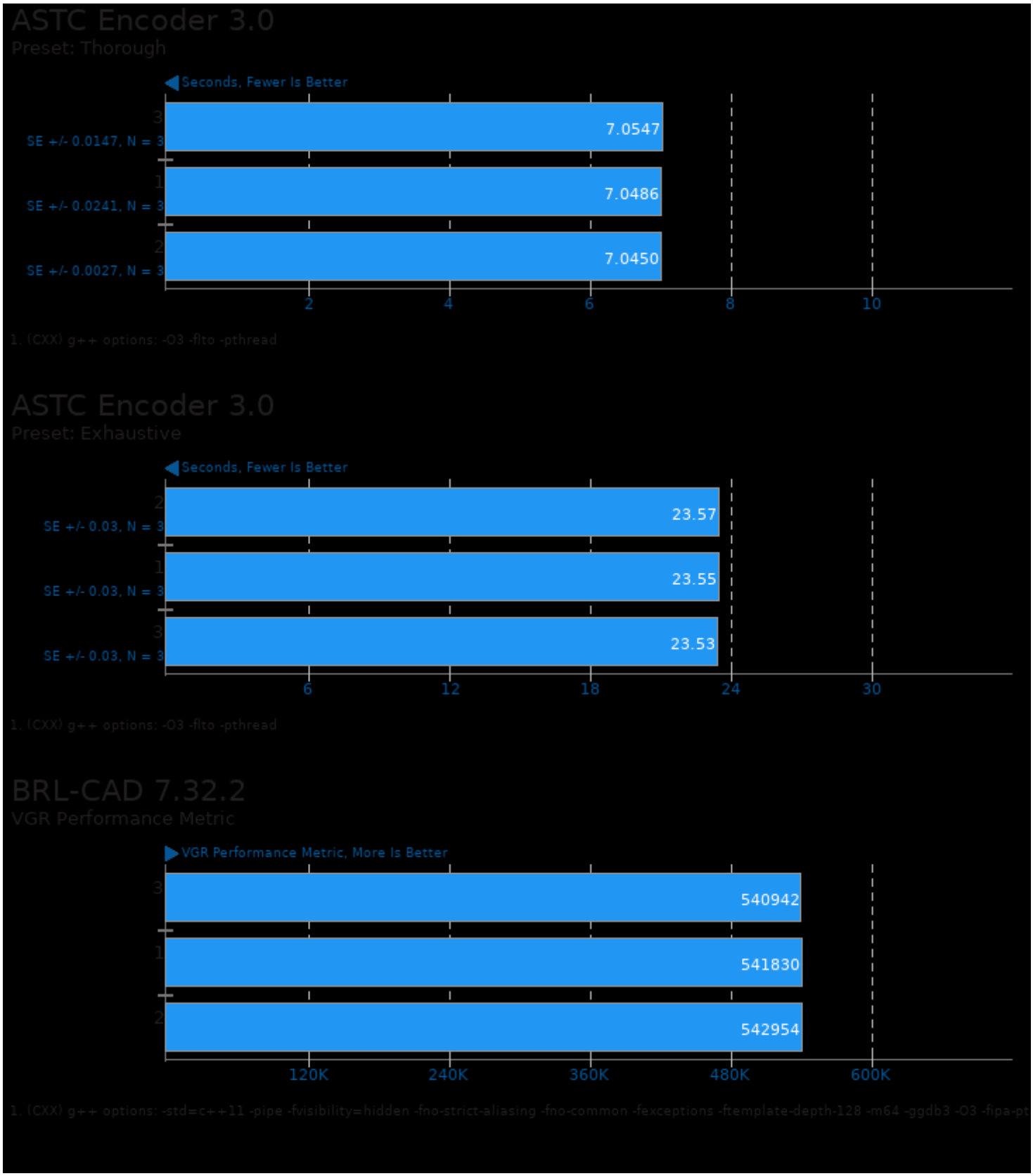
Speed: Speed 0 - Input: Bosphorus 4K



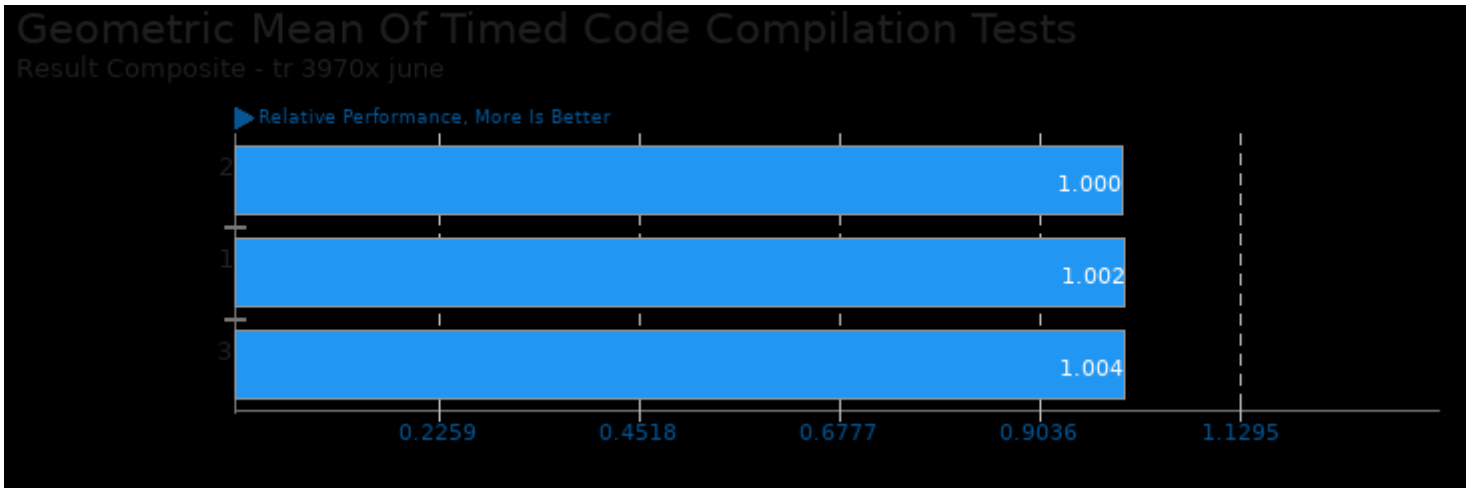
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11


VP9 libvpx Encoding 1.10.0
Speed: Speed 5 - Input: Bosphorus 4K
Frames Per Second, More Is Better
3
SE +/- 0.09, N = 3
14.05
2
SE +/- 0.08, N = 3
14.07
1
SE +/- 0.05, N = 3
14.17
4
8
12
16
20
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
2
SE +/- 0.03, N = 3
14.24
3
SE +/- 0.01, N = 3
14.26
1
SE +/- 0.01, N = 3
14.29
4
8
12
16
20
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
2
SE +/- 0.04, N = 3
29.41
3
SE +/- 0.12, N = 3
29.60
1
SE +/- 0.19, N = 3
29.61
7
14
21
28
35
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11

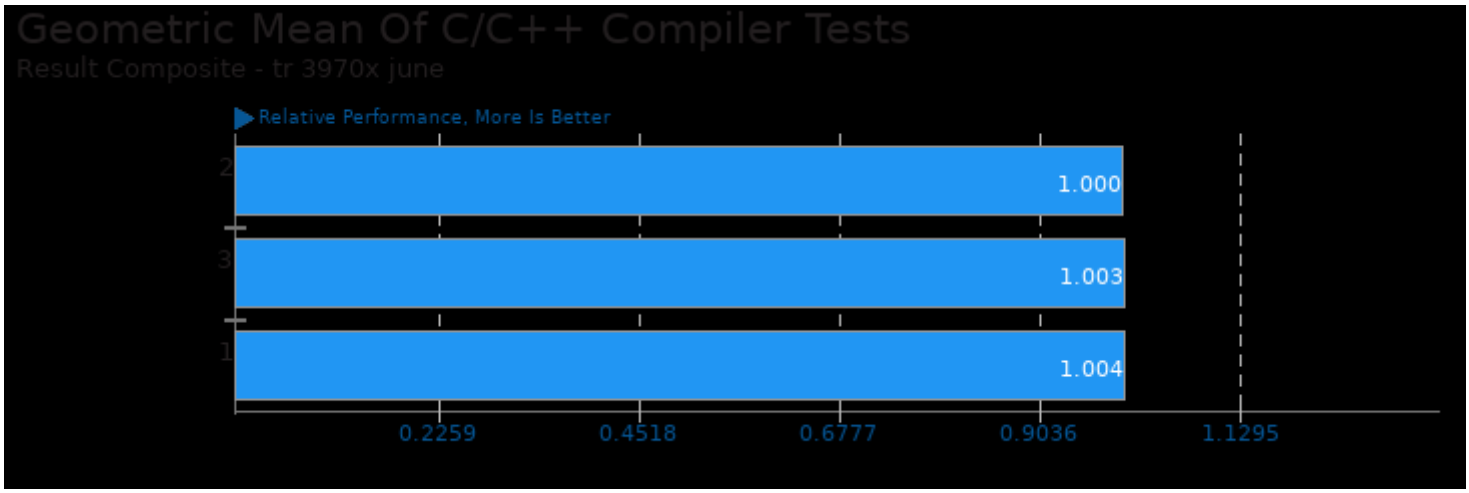

Timed FFmpeg Compilation 4.4
Time To Compile
Seconds, Fewer Is Better
2
SE +/- 0.22, N = 3
21.16
1
SE +/- 0.05, N = 3
21.06
3
SE +/- 0.04, N = 3
20.98
5
10
15
20
25
Timed GDB GNU Debugger Compilation 10.2
Time To Compile
Seconds, Fewer Is Better
1
SE +/- 0.07, N = 3
42.50
2
SE +/- 0.05, N = 3
42.46
3
SE +/- 0.04, N = 3
42.46
10
20
30
40
50
ASTC Encoder 3.0
Preset: Medium
Seconds, Fewer Is Better
1
SE +/- 0.0112, N = 3
4.0919
2
SE +/- 0.0155, N = 3
4.0884
3
SE +/- 0.0098, N = 3
4.0621
0.9207
1.8414
2.7621
3.6828
4.6035
1. (CXX) g++ options: -O3 -flto -pthread


ASTC Encoder 3.0
Preset: Thorough
Seconds, Fewer Is Better
3
SE +/- 0.0147, N = 3
7.0547
1
SE +/- 0.0241, N = 3
7.0486
2
SE +/- 0.0027, N = 3
7.0450
2
4
6
8
10
1. (CXX) g++ options: -O3 -flto -pthread
ASTC Encoder 3.0
Preset: Exhaustive
Seconds, Fewer Is Better
2
SE +/- 0.03, N = 3
23.57
1
SE +/- 0.03, N = 3
23.55
3
SE +/- 0.03, N = 3
23.53
6
12
18
24
30
1. (CXX) g++ options: -O3 -flto -pthread
BRL-CAD 7.32.2
VGR Performance Metric
VGR Performance Metric, More Is Better
3
540942
1
541830
2
542954
120K
240K
360K
480K
600K
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/build-gdb and pts/build-ffmpeg



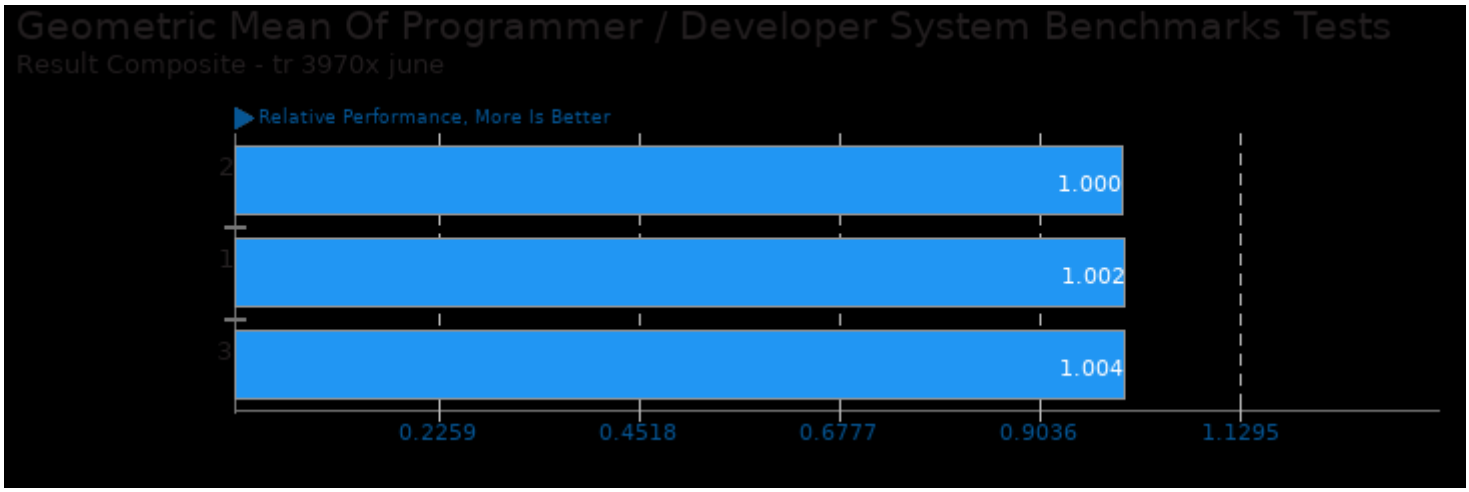
Geometric mean based upon tests: pts/brl-cad, pts/vpxenc and pts/npb



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



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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 16:26.