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ryzen-7-5700g-linux-benchmarks

AMD Ryzen 5 5600G testing with a ASUS TUF GAMING B550M-PLUS (WI-FI) (2423 BIOS) and ASUS AMD Cezanne 512MB on Ubuntu 21.04 via the Phoronix Test Suite.

Automated Executive Summary

AMD 5700G had the most wins, coming in first place for 28% of the tests.

Based on the geometric mean of all complete results, the fastest (5700G) was 1.085x the speed of the slowest (Ryzen 5 5600G). AMD 5700G was 0.995x the speed of 5700G, Ryzen 7 5700G was 0.999x the speed of AMD 5700G, AMD Ryzen 7 5700G was 0.998x the speed of Ryzen 7 5700G, 5600G AMD was 0.952x the speed of AMD Ryzen 7 5700G, 5600G was 0.996x the speed of 5600G AMD, AMD 5600G was 0.998x the speed of 5600G, Ryzen 5 5600G was 0.98x the speed of AMD 5600G.

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

LuxCoreRender (Scene: Danish Mood - Acceleration: CPU) at 1.557x
oneDNN (Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU) at 1.388x
Zstd Compression (Compression Level: 3, Long Mode - Compression Speed) at 1.379x
LuxCoreRender (Scene: LuxCore Benchmark - Acceleration: CPU) at 1.371x
Etcpak (Configuration: ETC1 + Dithering) at 1.364x
asmFish (1024 Hash Memory, 26 Depth) at 1.355x

OpenVKL (Benchmark: vklBenchmark ISPC) at 1.34x
GraphicsMagick (Operation: Swirl) at 1.333x
GraphicsMagick (Operation: Enhanced) at 1.331x
SVT-AV1 (Encoder Mode: Preset 4 - Input: Bosphorus 1080p) at 1.329x.

Test Systems:

Ryzen 7 5700G

AMD Ryzen 7 5700G

5700G

AMD 5700G

Processor: AMD Ryzen 7 5700G @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (WI-FI) (2423 BIOS), Chipset: AMD Renoir Root Complex, Memory: 16GB, Disk: 1000GB Samsung SSD 980 PRO 1TB + 500GB, Graphics: ASUS AMD Cezanne (2000/1800MHz), Audio: AMD Device 1637, Monitor: LG Ultra HD, Network: Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

OS: Ubuntu 21.04, Kernel: 5.11.0-25-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.11, Vulkan: 1.2.185, Compiler: GCC 10.3.0, 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-bootstrap --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-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/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-build-config=bootstrap-lto-lean --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: 0xa50000c
Python Notes: Python 3.9.5
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

5600G

5600G AMD

AMD 5600G

Ryzen 5 5600G

Processor: AMD Ryzen 5 5600G @ 3.90GHz (6 Cores / 12 Threads), Motherboard: ASUS TUF GAMING B550M-PLUS (WI-FI) (2423 BIOS), Chipset: AMD Renoir Root Complex, Memory: 16GB, Disk: 1000GB Samsung SSD 980 PRO 1TB + 500GB, Graphics: ASUS AMD Cezanne 512MB (1900/1800MHz), Audio: AMD Renoir Radeon HD Audio, Monitor: LG Ultra HD, Network: Realtek RTL8125 2.5GbE + Intel Wi-Fi 6 AX200

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OS: Ubuntu 21.04, Kernel: 5.11.0-31-generic (x86_64), Desktop: GNOME Shell 3.38.4, Display Server: X Server 1.20.11 + Wayland, OpenGL: 4.6 Mesa 21.3.0-devel (git-ad78643 2021-08-25 hirsute-oibaf-ppa) (LLVM 12.0.1), Vulkan: 1.2.185, Compiler: GCC 10.3.0, 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-bootstrap --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-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-gDeRY6/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-gDeRY6/gcc-10-10.3.0/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-build-config=bootstrap-lto-lean --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: 0xa50000c
Python Notes: Python 3.9.5
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 IBRS_FW STIBP: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Ryzen 7 5700G	AMD Ryzen 7	5700G	AMD 5700G	5600G	5600G AMD	AMD 5600G	Ryzen 5 5600G
QuantLib (MFLOPS)	3110	**3122**	3119	3100	2990	2984	2987	**2971**
Normalized	99.61%	100%	99.92%	99.3%	95.76%	95.6%	95.68%	95.18%
Standard Deviation			0.3%		0.1%			
Etcpak - DXT1 (Mpx/s)	1453	**1469**	1464	1443	1403	1409	**1403**	1410
Normalized	98.87%	100%	99.65%	98.22%	95.51%	95.87%	95.5%	95.95%
Standard Deviation			0.6%		0.1%			
Etcpak - ETC1 (Mpx/s)	**371.247**	366.53	369.864	370.794	353.779	354.092	353.774	**353.227**
Normalized	100%	98.73%	99.63%	99.88%	95.29%	95.38%	95.29%	95.15%
Standard Deviation			0.4%		0.1%			
Etcpak - ETC2 (Mpx/s)	228.752	227.587	228.047	**228.772**	218.371	218.347	218.341	**218.214**
Normalized	99.99%	99.48%	99.68%	100%	95.45%	95.44%	95.44%	95.38%
Standard Deviation			0.1%		0%			
Etcpak - ETC1 + Dithering (Mpx/s)	335.495	**335.613**	334.186	334.294	319.660	319.591	320.432	**246.086**
Normalized	99.96%	100%	99.57%	99.61%	95.25%	95.23%	95.48%	73.32%
Standard Deviation			0.5%		0%			
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	1.97898	1.98015	1.98452	**1.96989**	2.39788	2.40767	2.40797	**2.44305**
Normalized	99.54%	99.48%	99.26%	100%	82.15%	81.82%	81.81%	80.63%
Standard Deviation			0.1%		0.1%			
Xcompact3d Incompact3d - i.i.1.C.P.D (sec)	45.8513031	47.103138	44.7789269	45.4318733	46.1914622	46.0948753	**47.2426071**	**43.5188103**
Normalized	94.91%	92.39%	97.19%	95.79%	94.21%	94.41%	92.12%	100%
Standard Deviation			1.9%		0.8%			
WebP Image Encode - Default (Encode Time - sec)	1.137	1.138	**1.136**	1.161	1.194	1.192	1.201	**1.207**
Normalized	99.91%	99.82%	100%	97.85%	95.14%	95.3%	94.59%	94.12%
Standard Deviation			0.1%		0.2%			

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WebP Image Encode - Quality 100 (Encode Time - sec)	1.811	**1.797**	1.800	1.804	1.886	**1.891**	1.885	1.877
Normalized	99.23%	100%	99.83%	99.61%	95.28%	95.03%	95.33%	95.74%
Standard Deviation			0.4%		0.3%			
WebP Image Encode - Q.1.L (Encode Time - sec)	16.493	16.386	**16.056**	16.113	**17.142**	16.514	16.893	16.966
Normalized	97.35%	97.99%	100%	99.65%	93.66%	97.23%	95.05%	94.64%
Standard Deviation			0.1%		1.4%			
WebP Image Encode - Q.1.H.C (Encode Time - sec)	5.559	5.681	5.576	**5.547**		5.816	5.817	**5.821**
Normalized	99.78%	97.64%	99.48%	100%		95.37%	95.36%	95.29%
Standard Deviation			0.4%					
WebP Image Encode - Q.1.L.H.C (Encode Time - sec)	37.485	37.298	**37.229**	37.45		38.622	**38.875**	38.386
Normalized	99.32%	99.82%	100%	99.41%		96.39%	95.77%	96.99%
Standard Deviation			0.6%					
libgav1 - Chimera 1080p (FPS)	**178.44**	175.96	177.76	177.11		**172.89**	173.66	175.44
Normalized	100%	98.61%	99.62%	99.25%		96.89%	97.32%	98.32%
Standard Deviation			0.5%					
libgav1 - Summer Nature 4K (FPS)	63.52	63.07	64.53	**64.56**		**59.78**	60.3	60.5
Normalized	98.39%	97.69%	99.95%	100%		92.6%	93.4%	93.71%
Standard Deviation			0.2%					
libgav1 - S.N.1 (FPS)	217.29	214.72	218.39	**219.08**		**212.39**	214.59	216.35
Normalized	99.18%	98.01%	99.69%	100%		96.95%	97.95%	98.75%
Standard Deviation			0.4%					
libgav1 - C.1.1.b (FPS)	60.36	60.51	60.91	**61.41**		**54.36**	55.43	55.69
Normalized	98.29%	98.53%	99.19%	100%		88.52%	90.26%	90.69%
Standard Deviation			0.4%					
Chia Blockchain VDF - Square Plain C++ (IPS)	205800	206400	204600	**206600**		197600	196500	**195900**
Normalized	99.61%	99.9%	99.03%	100%		95.64%	95.11%	94.82%
Standard Deviation			0.3%					
LZ4 Compression - 3 - Compression Speed (MB/s)	64.5	**70.67**	68.38	67.44		64.9	64.54	**62.71**
Normalized	91.27%	100%	96.76%	95.43%		91.84%	91.33%	88.74%
Standard Deviation			2.5%					
LZ4 Compression - 3 - D.S (MB/s)	**11265**	**12277**	11793	11330		11950	11994	11563
Normalized	91.76%	100%	96.06%	92.29%		97.34%	97.7%	94.18%
Standard Deviation			2%					
LZ4 Compression - 9 - Compression Speed (MB/s)	64.22	65.64	**67.06**	65.23		**53.91**	64.8	62.56
Normalized	95.76%	97.88%	100%	97.27%		80.39%	96.63%	93.29%
Standard Deviation			2.5%					

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LZ4 Compression - 9 - D.S (MB/s)	11706	12176	11991	11917	12192	12086	11971
Normalized	96.01%	99.87%	98.35%	97.74%	100%	99.13%	98.18%
Standard Deviation			1%				
Zstd Compression - 19 - Compression Speed (MB/s)	30	30.1	29.8	29.8	26.7	26.9	26.4
Normalized	99.67%	100%	99%	99%	88.7%	89.37%	87.71%
Standard Deviation			0.3%				
Zstd Compression - 19 - D.S (MB/s)	3495	3458	3450	3508	3366	3388	3354
Normalized	99.63%	98.59%	98.35%	100%	95.95%	96.57%	95.63%
Standard Deviation			0.8%				
Zstd Compression - 19, Long Mode - Compression Speed (MB/s)	25.6	26	25.5	25.7	22.8	22.7	22.5
Normalized	98.46%	100%	98.08%	98.85%	87.69%	87.31%	86.54%
Standard Deviation			0.6%				
Zstd Compression - 19, Long Mode - D.S (MB/s)	3586	3674	3601	3584	3535	3482	3459
Normalized	97.6%	100%	98%	97.54%	96.22%	94.76%	94.15%
Standard Deviation			1.2%				
Zstd Compression - 3, Long Mode - Compression Speed (MB/s)	789.1	723.6	785.7	845.2	972.7	997.8	977
Normalized	79.08%	72.52%	78.74%	84.71%	97.48%	100%	97.92%
Standard Deviation			7.3%				
Zstd Compression - 3, Long Mode - D.S (MB/s)	4446	4432	4402	4394	4327	4322	4313
Normalized	100%	99.67%	99.01%	98.82%	97.32%	97.2%	97%
Standard Deviation			1.6%				
srsRAN - OFDM_Test (Samples / Second)	153300000	157400000	155666667	152500000	148400000	143600000	149700000
Normalized	97.4%	100%	98.9%	96.89%	94.28%	91.23%	95.11%
Standard Deviation			1.5%				
srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)	426.7	433.7	434.3	429.7	417.6	411.2	412.7
Normalized	98.25%	99.86%	100%	98.94%	96.15%	94.68%	95.03%
Standard Deviation			0.6%				
srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)	156.8	156.7	157.4	154.4	152.8	149.4	151.7
Normalized	99.62%	99.56%	100%	98.09%	97.08%	94.92%	96.38%
Standard Deviation			0.8%				
srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)	452.6	447.7	447.7	443.6	430.6	427.1	431.5
Normalized	100%	98.92%	98.92%	98.01%	95.14%	94.37%	95.34%
Standard Deviation			0.8%				
srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)	247.4	246.2	246.5	246.2	239.3	234.2	235.7
Normalized	100%	99.51%	99.64%	99.51%	96.73%	94.66%	95.27%
Standard Deviation			0.6%				

srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)	475.6	477.9	474.7	**479.7**	458.4	460.9	**457.4**
Normalized	99.15%	99.62%	98.96%	100%	95.56%	96.08%	95.35%
Standard Deviation			0.6%				
srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)	164.7	**167.1**	164.7	165.4	161.3	159.3	**158.8**
Normalized	98.56%	100%	98.56%	98.98%	96.53%	95.33%	95.03%
Standard Deviation			0.7%				
srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)	488.2	**494.2**	490.5	488.7	467.9	**460.3**	474.1
Normalized	98.79%	100%	99.25%	98.89%	94.68%	93.14%	95.93%
Standard Deviation			0.7%				
srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)	287.4	**290.7**	284.8	287.5	277.8	275.6	**274.9**
Normalized	98.86%	100%	97.97%	98.9%	95.56%	94.81%	94.56%
Standard Deviation			0.5%				
srsRAN - 5.P.T.5.P.S.6.Q (eNb	**155.1**	154.7	154.7	154.3	148.5	**146.4**	148.7
Normalized	100%	99.74%	99.74%	99.48%	95.74%	94.39%	95.87%
Standard Deviation			0.1%				
srsRAN - 5.P.T.5.P.S.6.Q (UE	**73.1**	**73.1**	72.6	72.7	70.1	**69.7**	70.2
Normalized	100%	100%	99.32%	99.45%	95.9%	95.35%	96.03%
Standard Deviation			0.4%				
srsRAN - 5.P.T.2.P.S.2.Q (eNb	168.4	**169.3**	169.0	168.8	159.7	**159.4**	162.8
Normalized	99.47%	100%	99.82%	99.7%	94.33%	94.15%	96.16%
Standard Deviation			0.4%				
srsRAN - 5.P.T.2.P.S.2.Q (UE	93.9	**94.5**	94.0	94	90.4	**89.6**	90.5
Normalized	99.37%	100%	99.47%	99.47%	95.66%	94.81%	95.77%
Standard Deviation			0.1%				
LibRaw - P.P.B (Mpix/sec)	48.14	**49.39**	48.10	48.2	45.33	44.78	**44.39**
Normalized	97.47%	100%	97.39%	97.59%	91.78%	90.67%	89.88%
Standard Deviation			0.2%				
John The Ripper - Blowfish (Real C/S)	18777	**18787**	18740	**18787**	15476	**15471**	15472
Normalized	99.95%	100%	99.75%	100%	82.38%	82.35%	82.35%
Standard Deviation			0.3%				
John The Ripper - MD5 (Real C/S)	1142000	**1145000**	1140000	1143000	897177	897984	**896870**
Normalized	99.74%	100%	99.56%	99.83%	78.36%	78.43%	78.33%
Standard Deviation			0.2%				
GraphicsMagick - Swirl (Iterations/min)	604	**624**	608	607	482	476	**468**
Normalized	96.79%	100%	97.44%	97.28%	77.24%	76.28%	75%
GraphicsMagick - Rotate (Iterations/min)	736	**822**	753	748	782	741	**697**
Normalized	89.54%	100%	91.61%	91%	95.13%	90.15%	84.79%
Standard Deviation			1.1%				

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GraphicsMagick - Sharpen	121	**122**	121	121	**92**	**92**	**92**
Normalized	99.18%	100%	99.18%	99.18%	75.41%	75.41%	75.41%
GraphicsMagick - Enhanced (Iterations/min)	226	**229**	227	227	174	173	**172**
Normalized	98.69%	100%	99.13%	99.13%	75.98%	75.55%	75.11%
GraphicsMagick - Resizing	959	**985**	962	961	899	886	**865**
Normalized	97.36%	100%	97.66%	97.56%	91.27%	89.95%	87.82%
GraphicsMagick - Noise-Gaussian (Iterations/min)	268	**275**	271	270	230	227	**223**
Normalized	97.45%	100%	98.55%	98.18%	83.64%	82.55%	81.09%
GraphicsMagick - HWB Color Space (Iterations/min)	790	**871**	811	807	789	759	**709**
Normalized	90.7%	100%	93.11%	92.65%	90.59%	87.14%	81.4%
dav1d - Chimera 1080p (FPS)	430.53	**449.09**	433.34	431.23	408.16	396.03	**393.05**
Normalized	95.87%	100%	96.49%	96.02%	90.89%	88.18%	87.52%
Standard Deviation			1%				
dav1d - Summer Nature 4K (FPS)	114.99	**121.6**	117.22	119.25	116.73	116.09	**113.82**
Normalized	94.56%	100%	96.4%	98.07%	96%	95.47%	93.6%
Standard Deviation			0.5%				
dav1d - S.N.1 (FPS)	419.44	**443.43**	434.72	435	396.02	391.3	**383.33**
Normalized	94.59%	100%	98.04%	98.1%	89.31%	88.24%	86.45%
Standard Deviation			0.9%				
dav1d - C.1.1.b (FPS)	265.53	**280.35**	271.47	276.11	272.31	269.33	**263.18**
Normalized	94.71%	100%	96.83%	98.49%	97.13%	96.07%	93.88%
Standard Deviation			0.4%				
OSPray - San Miguel - SciVis (FPS)	**15.38**	**15.38**	**15.38**	**15.38**	**12.20**	**12.20**	**12.20**
Normalized	100%	100%	100%	100%	79.32%	79.32%	79.32%
Standard Deviation			0%				
OSPray - XFrog Forest - SciVis (FPS)	2.79	**2.80**	**2.80**	**2.80**	2.28	2.28	**2.27**
Normalized	99.64%	100%	100%	100%	81.43%	81.43%	81.07%
Standard Deviation			0.3%				
OSPray - San Miguel - Path Tracer (FPS)	1.26	**1.27**	1.26	1.26	**0.98**	**0.98**	**0.98**
Normalized	99.21%	100%	99.21%	99.21%	77.17%	77.17%	77.17%
Standard Deviation			0.1%				
OSPray - NASA Streamlines - SciVis (FPS)	**20.83**	**20.83**	**20.83**	20.41	**16.95**	**16.95**	**16.95**
Normalized	100%	100%	100%	97.98%	81.37%	81.37%	81.37%
Standard Deviation			0%				
OSPray - XFrog Forest - Path Tracer (FPS)	**1.49**	**1.49**	**1.49**	1.48	1.21	1.21	**1.20**
Normalized	100%	100%	100%	99.33%	81.21%	81.21%	80.54%

Standard Deviation			0.4%				
OSPray - M.R - SciVis (FPS)	11.76	11.76	11.81	11.90	9.09	9.09	9.09
Normalized	98.82%	98.82%	99.24%	100%	76.39%	76.39%	76.39%
Standard Deviation			0.7%				
OSPray - NASA Streamlines - Path Tracer (FPS)	4.15	4.15	4.15	4.15	3.36	3.36	3.34
Normalized	100%	100%	100%	100%	80.96%	80.96%	80.48%
Standard Deviation			0%				
OSPray - M.R - Path Tracer (FPS)	166.67	166.67	166.67	166.67	142.86	142.86	142.86
Normalized	100%	100%	100%	100%	85.71%	85.71%	85.71%
Standard Deviation			0%				
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	684.791	679.763	677.619	688.137	544.366	541.126	537.548
Normalized	99.51%	98.78%	98.47%	100%	79.11%	78.64%	78.12%
Standard Deviation			0.3%				
AOM AV1 - Speed 0 Two-Pass - Bosphorus 4K (FPS)	0.14	0.14	0.14	0.14	0.13	0.13	0.13
Normalized	100%	100%	100%	100%	92.86%	92.86%	92.86%
Standard Deviation			0%				
AOM AV1 - Speed 4 Two-Pass - Bosphorus 4K (FPS)	3.43	3.51	3.50	3.43	3.37	3.37	3.37
Normalized	97.72%	100%	99.72%	97.72%	96.01%	96.01%	96.01%
Standard Deviation			0.3%				
AOM AV1 - Speed 6 Realtime - Bosphorus 4K (FPS)	12.78	13.14	13.02	12.71	12.84	12.7	12.6
Normalized	97.26%	100%	99.09%	96.73%	97.72%	96.65%	95.89%
Standard Deviation			0.6%				
AOM AV1 - Speed 6 Two-Pass - Bosphorus 4K (FPS)	6.39	6.5	6.49	6.43	6.45	6.44	6.45
Normalized	98.31%	100%	99.85%	98.92%	99.23%	99.08%	99.23%
Standard Deviation			0.6%				
AOM AV1 - Speed 8 Realtime - Bosphorus 4K (FPS)	37.78	39.26	38.86	37.29	39.51	38.45	38.57
Normalized	95.62%	99.37%	98.35%	94.38%	100%	97.32%	97.62%
Standard Deviation			0.6%				
AOM AV1 - Speed 9 Realtime - Bosphorus 4K (FPS)	47.75	50.42	49.54	47.77	55.37	53.67	53.21
Normalized	86.24%	91.06%	89.47%	86.27%	100%	96.93%	96.1%
Standard Deviation			0.6%				

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AOM AV1 - Speed 0 Two-Pass - Bosphorus 1080p (FPS)	**0.43**	**0.43**	**0.43**	**0.43**	**0.4**	**0.4**	**0.4**
Normalized	100%	100%	100%	100%	93.02%	93.02%	93.02%
Standard Deviation			0%				
AOM AV1 - Speed 4 Two-Pass - Bosphorus 1080p (FPS)	6.5	6.52	**6.39**	6.5	6.79	**6.86**	6.81
Normalized	94.75%	95.04%	93.15%	94.75%	98.98%	100%	99.27%
Standard Deviation			0.3%				
AOM AV1 - Speed 6 Realtime - Bosphorus 1080p (FPS)	22.89	**23.26**	**22.79**	22.84	23.23	23.05	23.02
Normalized	98.41%	100%	97.98%	98.19%	99.87%	99.1%	98.97%
Standard Deviation			0.4%				
AOM AV1 - Speed 6 Two-Pass - Bosphorus 1080p (FPS)	18.13	17.91	**17.22**	18.1	19.32	19.35	**19.46**
Normalized	93.17%	92.03%	88.49%	93.01%	99.28%	99.43%	100%
Standard Deviation			0.3%				
AOM AV1 - Speed 8 Realtime - Bosphorus 1080p (FPS)	90.54	93.4	**89.88**	91.93	**108.2**	107.6	106.86
Normalized	83.68%	86.32%	83.07%	84.96%	100%	99.45%	98.76%
Standard Deviation			0.8%				
AOM AV1 - Speed 9 Realtime - Bosphorus 1080p (FPS)	103.55	106.43	**101.43**	103.07	**129.98**	129.86	129.1
Normalized	79.67%	81.88%	78.04%	79.3%	100%	99.91%	99.32%
Standard Deviation			0.7%				
Embree - Pathtracer - Crown (FPS)	12.0821	12.1146	**12.4115**	12.179	9.6665	**9.6344**	9.7637
Normalized	97.35%	97.61%	100%	98.13%	77.88%	77.62%	78.67%
Standard Deviation			0.6%				
Embree - Pathtracer ISPC - Crown (FPS)	11.3032	11.4091	**11.4485**	11.2956	9.1054	**9.0694**	9.0794
Normalized	98.73%	99.66%	100%	98.66%	79.53%	79.22%	79.31%
Standard Deviation			0.3%				
Embree - Pathtracer - Asian Dragon (FPS)	14.248	14.3238	**14.4064**	14.2337	**11.1298**	11.2617	11.2116
Normalized	98.9%	99.43%	100%	98.8%	77.26%	78.17%	77.82%
Standard Deviation			0.9%				
Embree - Pathtracer - Asian Dragon Obj (FPS)	12.7469	12.8386	**12.8464**	12.8232	10.1757	10.1782	**10.1258**
Normalized	99.23%	99.94%	100%	99.82%	79.21%	79.23%	78.82%
Standard Deviation			0.7%				
Embree - Pathtracer ISPC - Asian Dragon (FPS)	13.0036	13.1037	**13.1045**	13.0443	**10.1923**	10.2064	10.2634
Normalized	99.23%	99.99%	100%	99.54%	77.78%	77.88%	78.32%
Standard Deviation			1%				

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Embree - Pathtracer ISPC - Asian Dragon Obj (FPS)	11.6111	11.5995	11.6600	**11.6848**	9.1977	9.0765	**9.0038**
Normalized	99.37%	99.27%	99.79%	100%	78.72%	77.68%	77.06%
Standard Deviation			0.2%				
Kvazaar - Bosphorus 4K - Slow (FPS)	5.89	5.91	**5.92**	**5.92**	**5.07**	5.09	5.08
Normalized	99.49%	99.83%	100%	100%	85.64%	85.98%	85.81%
Standard Deviation			0.5%				
Kvazaar - Bosphorus 4K - Medium (FPS)	5.97	6	**6.04**	6	**5.15**	5.16	5.17
Normalized	98.84%	99.34%	100%	99.34%	85.26%	85.43%	85.6%
Standard Deviation			0.3%				
Kvazaar - Bosphorus 1080p - Slow (FPS)	24.89	24.96	**25.02**	24.84	**20.06**	**20.06**	20.09
Normalized	99.48%	99.76%	100%	99.28%	80.18%	80.18%	80.3%
Standard Deviation			0.5%				
Kvazaar - Bosphorus 1080p - Medium (FPS)	**25.72**	25.69	25.64	25.66	21.12	21.01	**20.97**
Normalized	100%	99.88%	99.69%	99.77%	82.12%	81.69%	81.53%
Standard Deviation			0.2%				
Kvazaar - Bosphorus 4K - Very Fast (FPS)	16.21	**16.28**	16.18	**16.28**	14.32	14.29	**14.25**
Normalized	99.57%	100%	99.39%	100%	87.96%	87.78%	87.53%
Standard Deviation			0.1%				
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	27.28	27.44	27.25	**27.51**	**24.74**	24.78	24.77
Normalized	99.16%	99.75%	99.05%	100%	89.93%	90.08%	90.04%
Standard Deviation			0.2%				
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	58.32	58.68	58.57	**58.69**	52.54	**52.35**	52.58
Normalized	99.37%	99.98%	99.8%	100%	89.52%	89.2%	89.59%
Standard Deviation			0.8%				
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	**98.94**	98.08	97.86	98.12	88.71	88.19	**87.87**
Normalized	100%	99.13%	98.91%	99.17%	89.66%	89.13%	88.81%
Standard Deviation			0.6%				
rav1e - 1 (FPS)	0.536	**0.537**	0.534	0.534	**0.511**	0.524	0.517
Normalized	99.81%	100%	99.44%	99.44%	95.16%	97.58%	96.28%
Standard Deviation			0.6%				
rav1e - 5 (FPS)	1.55	1.558	**1.566**	1.555	**1.494**	1.512	1.499
Normalized	98.98%	99.49%	100%	99.3%	95.4%	96.55%	95.72%
Standard Deviation			0.1%				
rav1e - 6 (FPS)	2.054	2.062	**2.071**	2.058	**1.998**	2.01	2.002
Normalized	99.18%	99.57%	100%	99.37%	96.48%	97.05%	96.67%
Standard Deviation			0.2%				
rav1e - 10 (FPS)	**4.695**	4.656	4.671	4.641	4.479	4.472	**4.444**
Normalized	100%	99.17%	99.49%	98.85%	95.4%	95.25%	94.65%
Standard Deviation			0%				
SVT-AV1 - Preset 4 - Bosphorus 4K (FPS)	1.422	1.427	**1.429**	1.424	**1.331**	1.333	1.337
Normalized	99.51%	99.86%	100%	99.65%	93.14%	93.28%	93.56%
Standard Deviation			0.3%				

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SVT-AV1 - Preset 8 - Bosphorus 4K (FPS)	13.673	13.749	**13.869**	13.733	**13.002**	13.051	13.038
Normalized	98.59%	99.13%	100%	99.02%	93.75%	94.1%	94.01%
Standard Deviation			0.3%				
SVT-AV1 - Preset 4 - Bosphorus 1080p (FPS)	4.769	4.775	**4.786**	4.751	3.603	3.603	**3.6**
Normalized	99.64%	99.77%	100%	99.27%	75.28%	75.28%	75.22%
Standard Deviation			0.6%				
SVT-AV1 - Preset 8 - Bosphorus 1080p (FPS)	44.669	**45.063**	44.876	44.517	37.866	**37.843**	38.008
Normalized	99.13%	100%	99.59%	98.79%	84.03%	83.98%	84.34%
Standard Deviation			0.9%				
SVT-HEVC - 1 - Bosphorus 1080p (FPS)	8.2	**8.27**	8.26	8.25	7.12	**7.11**	7.12
Normalized	99.15%	100%	99.88%	99.76%	86.09%	85.97%	86.09%
Standard Deviation			0.1%				
SVT-HEVC - 7 - Bosphorus 1080p (FPS)	73.15	74.37	**74.38**	73.15	73.87	**70.91**	73.22
Normalized	98.35%	99.99%	100%	98.35%	99.31%	95.33%	98.44%
Standard Deviation			0.9%				
SVT-HEVC - 10 - Bosphorus 1080p (FPS)	153.85	**159.62**	157.43	158.39	152.63	153.49	**152.21**
Normalized	96.39%	100%	98.63%	99.23%	95.62%	96.16%	95.36%
Standard Deviation			0.7%				
SVT-VP9 - VMAF Optimized - Bosphorus 1080p (FPS)	97.89	98.77	**101.44**	98.05	97.28	97.42	**97.06**
Normalized	96.5%	97.37%	100%	96.66%	95.9%	96.04%	95.68%
Standard Deviation			2.1%				
SVT-VP9 - P.S.O - Bosphorus 1080p (FPS)	99.63	107.78	105.65	106.49	102.91	**110.53**	**99.44**
Normalized	90.14%	97.51%	95.58%	96.34%	93.11%	100%	89.97%
Standard Deviation			2.1%				
SVT-VP9 - V.Q.O - Bosphorus 1080p (FPS)	86.77	86.39	86.73	**85.7**	**91.99**	91.43	91.04
Normalized	94.33%	93.91%	94.28%	93.16%	100%	99.39%	98.97%
Standard Deviation			0.6%				
VP9 libvpx Encoding - Speed 0 - Bosphorus 4K (FPS)	6.14	**6.33**	6.13	6.09	**4.94**	4.99	**4.94**
Normalized	97%	100%	96.84%	96.21%	78.04%	78.83%	78.04%
Standard Deviation			0.8%				
VP9 libvpx Encoding - Speed 5 - Bosphorus 4K (FPS)	13.02	13.97	**14.01**	13.23	11.5	**11.22**	11.29
Normalized	92.93%	99.71%	100%	94.43%	82.08%	80.09%	80.59%
Standard Deviation			1.7%				
VP9 libvpx Encoding - Speed 0 - Bosphorus 1080p (FPS)	13.55	13.58	13.59	**13.62**	10.47	10.44	**10.36**
Normalized	99.49%	99.71%	99.78%	100%	76.87%	76.65%	76.06%
Standard Deviation			0.1%				

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VP9 libvpx Encoding - Speed 5 - Bosphorus 1080p (FPS)	**29.95**	29.73	29.86	29.58	**29.23**	29.53	29.6
Normalized	100%	99.27%	99.7%	98.76%	97.6%	98.6%	98.83%
Standard Deviation			0.2%				
x264 - H.2.V.E (FPS)	94.43	94.4	**97.93**	95.65	**79.29**	79.88	80.27
Normalized	96.43%	96.4%	100%	97.67%	80.97%	81.57%	81.97%
Standard Deviation			2.5%				
x265 - Bosphorus 4K (FPS)	10.47	**10.33**	10.66	10.48	**13.17**	12.74	13.01
Normalized	79.5%	78.44%	80.94%	79.57%	100%	96.74%	98.79%
Standard Deviation			1.9%				
x265 - Bosphorus 1080p (FPS)	46.6	**46.3**	47.15	47.68	47.9	47.71	**48.18**
Normalized	96.72%	96.1%	97.86%	98.96%	99.42%	99.02%	100%
Standard Deviation			1.7%				
Intel Open Image Denoise - RT.hdr_alb_nrm.3840x2160 (Images / Sec)	**0.31**	**0.31**	**0.31**	**0.31**	**0.27**	**0.27**	**0.27**
Normalized	100%	100%	100%	100%	87.1%	87.1%	87.1%
Standard Deviation			0.8%				
Intel Open Image Denoise - RT.ldr_alb_nrm.3840x2160 (Images / Sec)	**0.31**	**0.31**	**0.31**	**0.31**	**0.27**	**0.27**	**0.27**
Normalized	100%	100%	100%	100%	87.1%	87.1%	87.1%
Standard Deviation			0.6%				
Intel Open Image Denoise - RTLightmap.hdr.4096x4096 (Images / Sec)	0.15	**0.16**	**0.16**	0.15	0.14	**0.13**	**0.13**
Normalized	93.75%	100%	100%	93.75%	87.5%	81.25%	81.25%
Standard Deviation			0.2%				
OpenVKL - vklBenchmark ISPC (Items / Sec)	62	62	62	**63**	**47**	**47**	**47**
Normalized	98.41%	98.41%	98.41%	100%	74.6%	74.6%	74.6%
OpenVKL - v.S (Items / Sec)	**31**	**31**	**31**	29	**26**	**26**	**26**
Normalized	100%	100%	100%	93.55%	83.87%	83.87%	83.87%
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)	397499	397104	**398104**	398059	318049	**318021**	320014
Normalized	99.85%	99.75%	100%	99.99%	79.89%	79.88%	80.38%
Standard Deviation			0.2%				
7-Zip Compression - C.S.T (MIPS)	44083	44393	**44947**	44761	38233	38324	**38096**
Normalized	98.08%	98.77%	100%	99.59%	85.06%	85.26%	84.76%
Standard Deviation			1.1%				

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Stockfish - Total Time (Nodes/s)	27926614	28221769	**28632289**	28177495	22930715	**22797430**	23245614
Normalized	97.54%	98.57%	100%	98.41%	80.09%	79.62%	81.19%
Standard Deviation			0.8%				
asmFish - 1.H.M.2.D (Nodes/s)	33520741	34028787	**34352524**	33166695	25762270	**25350310**	25812989
Normalized	97.58%	99.06%	100%	96.55%	74.99%	73.79%	75.14%
Standard Deviation			0.9%				
PJSIP - INVITE (Responses/sec)	4247	4306	**4223**	4305	**4634**	4621	4614
Normalized	91.65%	92.92%	91.13%	92.9%	100%	99.72%	99.57%
Standard Deviation			0.6%				
PJSIP - OPTIONS, Stateful	3592	**3509**	3533	3531	**3797**	3709	3694
Normalized	94.6%	92.42%	93.05%	92.99%	100%	97.68%	97.29%
Standard Deviation			1.3%				
PJSIP - OPTIONS, Stateless (Responses/sec)	85969	**85105**	85591	85330	88016	**88644**	88621
Normalized	96.98%	96.01%	96.56%	96.26%	99.29%	100%	99.97%
Standard Deviation			0.3%				
libavif avifenc - 0 (sec)	61.622	61.981	61.811	**61.133**	72.988	72.299	**73.1**
Normalized	99.21%	98.63%	98.9%	100%	83.76%	84.56%	83.63%
Standard Deviation			0.8%				
libavif avifenc - 2 (sec)	32.534	32.724	**32.494**	32.655	37.501	38.234	**38.34**
Normalized	99.88%	99.3%	100%	99.51%	86.65%	84.99%	84.75%
Standard Deviation			0.5%				
libavif avifenc - 6 (sec)	11.775	11.726	11.702	**11.63**	**13.285**	13.23	13.206
Normalized	98.77%	99.18%	99.38%	100%	87.54%	87.91%	88.07%
Standard Deviation			0.8%				
libavif avifenc - 10 (sec)	3.094	3.118	3.097	**3.068**	3.294	3.303	**3.306**
Normalized	99.16%	98.4%	99.06%	100%	93.14%	92.89%	92.8%
Standard Deviation			1.2%				
libavif avifenc - 6, Lossless (sec)	51.251	**51.1**	51.143	51.2	64.123	**64.99**	64.145
Normalized	99.71%	100%	99.92%	99.8%	79.69%	78.63%	79.66%
Standard Deviation			0.3%				
libavif avifenc - 10, Lossless (sec)	5.362	5.295	5.267	**5.24**	5.683	**5.734**	5.695
Normalized	97.72%	98.96%	99.49%	100%	92.2%	91.38%	92.01%
Standard Deviation			0.9%				
Timed Apache Compilation - Time To Compile (sec)	**19.263**	19.265	**19.263**	19.264	20.1	**20.408**	20.176
Normalized	100%	99.99%	100%	99.99%	95.84%	94.39%	95.47%
Standard Deviation			0.1%				
Timed FFmpeg Compilation - Time To Compile (sec)	**51.178**	51.789	51.870	51.596	61.027	**61.668**	61.207
Normalized	100%	98.82%	98.67%	99.19%	83.86%	82.99%	83.61%
Standard Deviation			0.3%				

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Timed GCC Compilation - Time To	**992.827**	993.707	992.863	994.895	**1129**	1127	1127
Normalized	100%	99.91%	100%	99.79%	87.96%	88.12%	88.1%
Standard Deviation			0.2%				
Timed GDB GNU Debugger Compilation - Time To Compile (sec)	**61.777**	61.945	62.316	61.79	68.641	68.791	**68.953**
Normalized	100%	99.73%	99.14%	99.98%	90%	89.8%	89.59%
Standard Deviation			0.1%				
Timed Godot Game Engine Compilation - Time To Compile (sec)	**127.504**	127.534	127.692	128.002	**149.176**	148.925	148.747
Normalized	100%	99.98%	99.85%	99.61%	85.47%	85.62%	85.72%
Standard Deviation			0%				
Timed ImageMagick Compilation - Time To Compile (sec)	**28.957**	29.762	29.282	29.497	32.77	**32.996**	32.935
Normalized	100%	97.3%	98.89%	98.17%	88.36%	87.76%	87.92%
Standard Deviation			0.5%				
Timed Linux Kernel Compilation - Time To Compile (sec)	**82.011**	83.389	82.258	83.124	98.611	100.419	**100.57**
Normalized	100%	98.35%	99.7%	98.66%	83.17%	81.67%	81.55%
Standard Deviation			1%				
Timed LLVM Compilation - Ninja	702.983	703.547	704.496	**702.018**	**834.585**	833.834	834.482
Normalized	99.86%	99.78%	99.65%	100%	84.12%	84.19%	84.13%
Standard Deviation			0%				
Timed LLVM Compilation - Unix	**719.181**	725.293	729.832	720.22	851.099	**859.389**	852.09
Normalized	100%	99.16%	98.54%	99.86%	84.5%	83.69%	84.4%
Standard Deviation			1.2%				
Timed Mesa Compilation - Time To	51.279	51.583	**51.248**	51.516	58.444	58.65	**58.784**
Normalized	99.94%	99.35%	100%	99.48%	87.69%	87.38%	87.18%
Standard Deviation			0.3%				
Timed MPlayer Compilation - Time To Compile (sec)	**33.458**	33.85	33.657	33.71	39.41	**39.96**	39.805
Normalized	100%	98.84%	99.41%	99.25%	84.9%	83.73%	84.05%
Standard Deviation			0.2%				
Timed Node.js Compilation - Time To Compile (sec)	466.142	465.727	465.040	**462.468**	541.02	**541.799**	540.908
Normalized	99.21%	99.3%	99.45%	100%	85.48%	85.36%	85.5%
Standard Deviation			0%				
Timed PHP Compilation - Time To Compile (sec)	**54.73**	55.038	54.968	54.995	61.223	**61.767**	61.578
Normalized	100%	99.44%	99.57%	99.52%	89.39%	88.61%	88.88%
Standard Deviation			0.1%				

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Build2 - Time To Compile (sec)	**135.625**	136.822	135.823	136.933	**161.123**	157.578	159.15
Normalized	100%	99.13%	99.85%	99.04%	84.17%	86.07%	85.22%
Standard Deviation			0.4%				
C-Ray - Total Time - 4.1.R.P.P (sec)	58.409	**58.371**	58.496	58.4	**76.098**	75.821	75.837
Normalized	99.93%	100%	99.79%	99.95%	76.71%	76.99%	76.97%
Standard Deviation			0.1%				
POV-Ray - Trace Time (sec)	**41.698**	41.868	41.894	41.847	50.742	50.804	**50.832**
Normalized	100%	99.59%	99.53%	99.64%	82.18%	82.08%	82.03%
Standard Deviation			0.4%				
Smallpt - G.I.R.1.S (sec)	9.156	**9.13**	9.189	9.151	12.019	12.005	**12.03**
Normalized	99.72%	100%	99.36%	99.77%	75.96%	76.05%	75.89%
Standard Deviation			0.6%				
YafaRay - T.T.F.S.S (sec)	124.632	123.838	123.915	**123.605**	**148.363**	148.065	147.737
Normalized	99.18%	99.81%	99.75%	100%	83.31%	83.48%	83.67%
Standard Deviation			0.1%				
rays1bench - Large Scene (mrays/s)	65.9	**66.43**	66.28	66.16	52.79	**52.7**	52.76
Normalized	99.2%	100%	99.77%	99.59%	79.47%	79.33%	79.42%
Standard Deviation			0.7%				
oneDNN - IP Shapes 1D - f32 - CPU (ms)	4.24401	4.26204	4.27201	**4.21959**	4.89621	**4.89957**	4.88416
Normalized	99.42%	99%	98.77%	100%	86.18%	86.12%	86.39%
Standard Deviation			0.4%				
oneDNN - IP Shapes 3D - f32 - CPU (ms)	**12.0002**	11.7199	11.8368	11.7058	**11.567**	11.8556	11.6283
Normalized	96.39%	98.7%	97.72%	98.81%	100%	97.57%	99.47%
Standard Deviation			0.4%				
oneDNN - IP Shapes 1D - u8s8f32 - CPU (ms)	1.5978	1.57915	**1.57810**	1.60269	**1.88608**	1.88345	1.88011
Normalized	98.77%	99.93%	100%	98.47%	83.67%	83.79%	83.94%
Standard Deviation			0.5%				
oneDNN - IP Shapes 3D - u8s8f32 - CPU (ms)	2.64139	2.67515	2.68422	**2.637**	3.06353	**3.22721**	3.09502
Normalized	99.83%	98.57%	98.24%	100%	86.08%	81.71%	85.2%
Standard Deviation			0.4%				
oneDNN - C.B.S.A - f32 - CPU (ms)	23.037	22.6691	22.8425	**23.0475**	22.0964	22.0846	**22.0682**
Normalized	95.79%	97.35%	96.61%	95.75%	99.87%	99.93%	100%
Standard Deviation			0.7%				
oneDNN - D.B.s - f32 - CPU (ms)	7.09455	6.75718	6.78940	**8.09124**	6.82341	**6.50022**	6.78598
Normalized	91.62%	96.2%	95.74%	80.34%	95.26%	100%	95.79%
Standard Deviation			7.7%				
oneDNN - D.B.s - f32 - CPU (ms)	7.01644	6.99788	**6.96262**	6.97057	**8.38868**	8.35825	8.34628
Normalized	99.23%	99.5%	100%	99.89%	83%	83.3%	83.42%
Standard Deviation			1.5%				

oneDNN - C.B.S.A - u8s8f32 - CPU (ms)	24.0019	23.837	23.7188	23.8825	22.9336	23.008	23.058
Normalized	95.55%	96.21%	96.69%	96.03%	100%	99.68%	99.46%
Standard Deviation			0.4%				
oneDNN - D.B.s - u8s8f32 - CPU (ms)	1.97617	1.99453	1.98431	1.9909	2.40225	2.40345	2.4013
Normalized	100%	99.08%	99.59%	99.26%	82.26%	82.22%	82.3%
Standard Deviation			0.2%				
oneDNN - D.B.s - u8s8f32 - CPU (ms)	2.94199	2.92605	3.02070	2.94276	4.01194	4.06271	4.03927
Normalized	99.46%	100%	96.87%	99.43%	72.93%	72.02%	72.44%
Standard Deviation			3.4%				
oneDNN - R.N.N.T - f32 - CPU (ms)	3649	3638	3654	3641	3962	3968	3961
Normalized	99.69%	100%	99.56%	99.91%	91.81%	91.68%	91.83%
Standard Deviation			0.1%				
oneDNN - R.N.N.I - f32 - CPU (ms)	2249	2248	2259	2260	2388	2390	2386
Normalized	99.93%	100%	99.49%	99.48%	94.15%	94.07%	94.22%
Standard Deviation			0.1%				
oneDNN - R.N.N.T - u8s8f32 - CPU (ms)	3638	3655	3677	3633	3962	3965	3958
Normalized	99.87%	99.39%	98.81%	100%	91.69%	91.63%	91.79%
Standard Deviation			2.4%				
oneDNN - R.N.N.I - u8s8f32 - CPU (ms)	2251	2230	2266	2268	2388	2394	2394
Normalized	99.05%	100%	98.43%	98.34%	93.37%	93.15%	93.15%
Standard Deviation			1.2%				
oneDNN - M.M.B.S.T - f32 - CPU (ms)	4.55085	4.5518	4.56065	4.59327	4.42583	4.43135	4.4109
Normalized	96.92%	96.9%	96.72%	96.03%	99.66%	99.54%	100%
Standard Deviation			0.6%				
oneDNN - R.N.N.T - bf16bf16bf16 - CPU	3650	3653	3659	3631	3959	3971	3972
Normalized	99.5%	99.41%	99.24%	100%	91.73%	91.45%	91.43%
Standard Deviation			0.2%				
oneDNN - R.N.N.I - bf16bf16bf16 - CPU	2274	2244	2261	2245	2401	2401	2404
Normalized	98.68%	100%	99.25%	99.96%	93.48%	93.47%	93.37%
Standard Deviation			0.7%				
oneDNN - M.M.B.S.T - u8s8f32 - CPU (ms)	3.32921	3.26699	3.29409	3.31535	3.9576	3.94076	3.94958
Normalized	98.13%	100%	99.18%	98.54%	82.55%	82.9%	82.72%
Standard Deviation			0.5%				
AOBench - 2048 x 2048 - Total Time (sec)	28.56	28.492	28.530	28.538	29.752	30.052	29.806
Normalized	99.76%	100%	99.87%	99.84%	95.76%	94.81%	95.59%
Standard Deviation			0.1%				

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Timed Erlang/OTP Compilation - Time To Compile (sec)	**123.656**	124.005	124.073	123.915	130.238	**130.53**	130.314
Normalized	100%	99.72%	99.66%	99.79%	94.95%	94.73%	94.89%
Standard Deviation			0.1%				
Timed Wasmer Compilation - Time To Compile (sec)	77.875	78.49	77.857	**77.394**	84.74	85.217	**85.591**
Normalized	99.38%	98.6%	99.41%	100%	91.33%	90.82%	90.42%
Standard Deviation			0.4%				
dcraw - R.T.P.I.C (sec)	34.187	**34.083**	36.171	36.429	37.72	35.453	**37.721**
Normalized	99.7%	100%	94.23%	93.56%	90.36%	96.14%	90.36%
Standard Deviation			0.3%				
DeepSpeech - CPU	67.30556	**67.36989**	66.84321	67.11456	**59.65085**	61.11755	59.657
Normalized	88.63%	88.54%	89.24%	88.88%	100%	97.6%	99.99%
Standard Deviation			0.5%				
FLAC Audio Encoding - WAV To FLAC (sec)	6.81	**6.764**	6.811	6.829	**7.589**	7.555	7.582
Normalized	99.32%	100%	99.31%	99.05%	89.13%	89.53%	89.21%
Standard Deviation			0.6%				
LAME MP3 Encoding - WAV To MP3 (sec)	6.036	6.042	5.989	**5.951**	6.236	**6.305**	6.281
Normalized	98.59%	98.49%	99.37%	100%	95.43%	94.39%	94.75%
Standard Deviation			1%				
Ogg Audio Encoding - WAV To Ogg (sec)	15.601	16.141	**15.532**	15.688	16.511	16.54	**16.559**
Normalized	99.56%	96.23%	100%	99.01%	94.07%	93.91%	93.8%
Standard Deviation			0.8%				
Opus Codec Encoding - WAV To Opus Encode (sec)	6.537	6.585	**6.427**	6.53	**7.102**	7.072	7.082
Normalized	98.32%	97.6%	100%	98.42%	90.5%	90.88%	90.75%
Standard Deviation			1.9%				
eSpeak-NG Speech Engine - T.T.S.S (sec)	23.225	22.617	22.697	**22.57**	24.538	24.525	**26.051**
Normalized	97.18%	99.79%	99.44%	100%	91.98%	92.03%	86.64%
Standard Deviation			1.7%				
Ngspice - C2670 (sec)	160.348	156.451	157.419	**155.545**	162.781	**166.395**	162.036
Normalized	97%	99.42%	98.81%	100%	95.55%	93.48%	95.99%
Standard Deviation			0.7%				
Ngspice - C7552 (sec)	158.482	159.942	151.960	**149.19**	165.966	**167.708**	161.885
Normalized	94.14%	93.28%	98.18%	100%	89.89%	88.96%	92.16%
Standard Deviation			2.4%				
Radiance Benchmark - Serial (sec)	468.39	468.438	468.331	**467.811**	**487.725**	487.393	486.738
Normalized	99.88%	99.87%	99.89%	100%	95.92%	95.98%	96.11%
Radiance Benchmark - SMP Parallel (sec)	150.795	**147.998**	**150.947**	149.3	150.888	149.847	150.543
Normalized	98.15%	100%	98.05%	99.13%	98.08%	98.77%	98.31%
RNNoise (sec)	15.946	15.879	15.884	**15.85**	16.56	16.632	**16.732**
Normalized	99.4%	99.82%	99.79%	100%	95.71%	95.3%	94.73%
Standard Deviation			0.6%				

Tachyon - Total Time (sec)	**84.7624**	85.1734	84.9893	**102.9702**	102.4086	102.5015
Normalized	100%	99.52%	99.73%	82.32%	82.77%	82.69%
Standard Deviation		0.1%				
VOSK Speech Recognition Toolkit	17.912	**16.765**	18.069	20.495	20.619	**20.715**
Normalized	93.6%	100%	92.78%	81.8%	81.31%	80.93%
Standard Deviation		2.2%				
Google SynthMark - VoiceMark_100	921.127	**922.695**	908.926	**898.753**	899.023	901.782
Normalized	99.83%	100%	98.51%	97.41%	97.43%	97.73%
Standard Deviation		0.6%				
SecureMark - SecureMark-TLS	316694		**319480**	**301390**	304496	302698
Normalized	99.13%		100%	94.34%	95.31%	94.75%
Node.js V8 Web Tooling Benchmark	**12.18**		**12.3**			
Normalized	99.02%		100%			
Liquid-DSP - 2 - 256 - 57 (samples/s)	**152720000**		152000000	147110000	146990000	**146910000**
Normalized	100%		99.53%	96.33%	96.25%	96.2%
Liquid-DSP - 4 - 256 - 57 (samples/s)	**297290000**		295810000	**292430000**	293350000	293480000
Normalized	100%		99.5%	98.37%	98.67%	98.72%
Liquid-DSP - 8 - 256 - 57 (samples/s)	519520000		**526160000**	**444160000**	456130000	450880000
Normalized	98.74%		100%	84.42%	86.69%	85.69%
Liquid-DSP - 16 - 256 - 57 (samples/s)	**541770000**		539080000	449680000	**448450000**	449210000
Normalized	100%		99.5%	83%	82.77%	82.92%
Liquid-DSP - 32 - 256 - 57 (samples/s)	**541660000**		540490000	**449290000**	450050000	450540000
Normalized	100%		99.78%	82.95%	83.09%	83.18%
libjpeg-turbo tjbench - D.T (Megapixels/sec)	**252.743957**		252.359807	243.184224	242.357159	**240.507289**
Normalized	100%		99.85%	96.22%	95.89%	95.16%
GROMACS - MPI CPU - water_GMX50_bare (Ns/Day)	0.794		**0.796**	0.755	0.757	**0.754**
Normalized	99.75%		100%	94.85%	95.1%	94.72%
ASTC Encoder - Medium (sec)	4.2653		**4.2625**	4.5887	4.5919	**4.603**
Normalized	99.93%		100%	92.89%	92.83%	92.6%
ASTC Encoder - Thorough (sec)	7.4717		**7.3956**	**9.2064**	9.202	9.1996
Normalized	98.98%		100%	80.33%	80.37%	80.39%
ASTC Encoder - Exhaustive (sec)	67.8002		**67.7827**	**85.8631**	85.7927	85.7947
Normalized	99.97%		100%	78.94%	79.01%	79.01%

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Basis Universal - ETC1S (sec)	23.538	**23.45**	25.8	**25.929**	25.87
Normalized	99.63%	100%	90.89%	90.44%	90.65%
Basis Universal - UASTC Level 0 (sec)	5.881	**5.846**	6.471	6.475	**6.481**
Normalized	99.4%	100%	90.34%	90.29%	90.2%
Basis Universal - UASTC Level 2 (sec)	**25.57**	25.572	32.22	**32.223**	32.19
Normalized	100%	99.99%	79.36%	79.35%	79.43%
Basis Universal - UASTC Level 3 (sec)	48.157	**48.081**	**61.638**	**61.638**	61.599
Normalized	99.84%	100%	78.01%	78.01%	78.05%
Darktable - Boat - CPU-only (sec)	5.751	**5.721**	6.494	**6.536**	6.487
Normalized	99.48%	100%	88.1%	87.53%	88.19%
Darktable - Masskrug - CPU-only (sec)	**5.774**	5.851	6.621	6.59	**6.648**
Normalized	100%	98.68%	87.21%	87.62%	86.85%
Darktable - Server Rack - CPU-only (sec)	0.197	**0.201**	0.197	**0.196**	**0.201**
Normalized	99.49%	97.51%	99.49%	100%	97.51%
Darktable - Server Room - CPU-only (sec)	**4.547**	4.562	5.098	5.09	**5.139**
Normalized	100%	99.67%	89.19%	89.33%	88.48%
GEGL - Crop (sec)	**7.349**	7.448	**7.688**	7.674	7.677
Normalized	100%	98.67%	95.59%	95.76%	95.73%
GEGL - Scale (sec)	5.092	**5.012**	5.178	5.214	**5.284**
Normalized	98.43%	100%	96.79%	96.13%	94.85%
GEGL - Cartoon (sec)	**71.076**	72.481	75.068	75.046	**75.233**
Normalized	100%	98.06%	94.68%	94.71%	94.47%
GEGL - Reflect (sec)	**24.689**	24.871	26.002	25.966	**26.018**
Normalized	100%	99.27%	94.95%	95.08%	94.89%
GEGL - Antialias (sec)	31.964	**32.213**	31.452	**31.262**	31.364
Normalized	97.8%	97.05%	99.4%	100%	99.67%
GEGL - Tile Glass (sec)	**23.037**	23.154	**24.064**	24.016	24.044
Normalized	100%	99.49%	95.73%	95.92%	95.81%
GEGL - Wavelet Blur (sec)	**46.5**	47.278	**49.337**	49.224	49.329
Normalized	100%	98.35%	94.25%	94.47%	94.27%
GEGL - Color Enhance (sec)	**43.806**	44.523	46.406	**46.48**	46.45
Normalized	100%	98.39%	94.4%	94.25%	94.31%
GEGL - Rotate 90 Degrees (sec)	36.41	**36.501**	33.843	**33.84**	33.944
Normalized	92.94%	92.71%	99.99%	100%	99.69%
GIMP - resize (sec)	7.845	**7.879**	**7.284**	7.346	7.322
Normalized	92.85%	92.45%	100%	99.16%	99.48%
GIMP - rotate (sec)	**9.655**	9.72	9.985	9.964	**9.993**
Normalized	100%	99.33%	96.7%	96.9%	96.62%
GIMP - auto-levels (sec)	**10.5**	10.412	10.21	**10.18**	10.223
Normalized	96.95%	97.77%	99.71%	100%	99.58%

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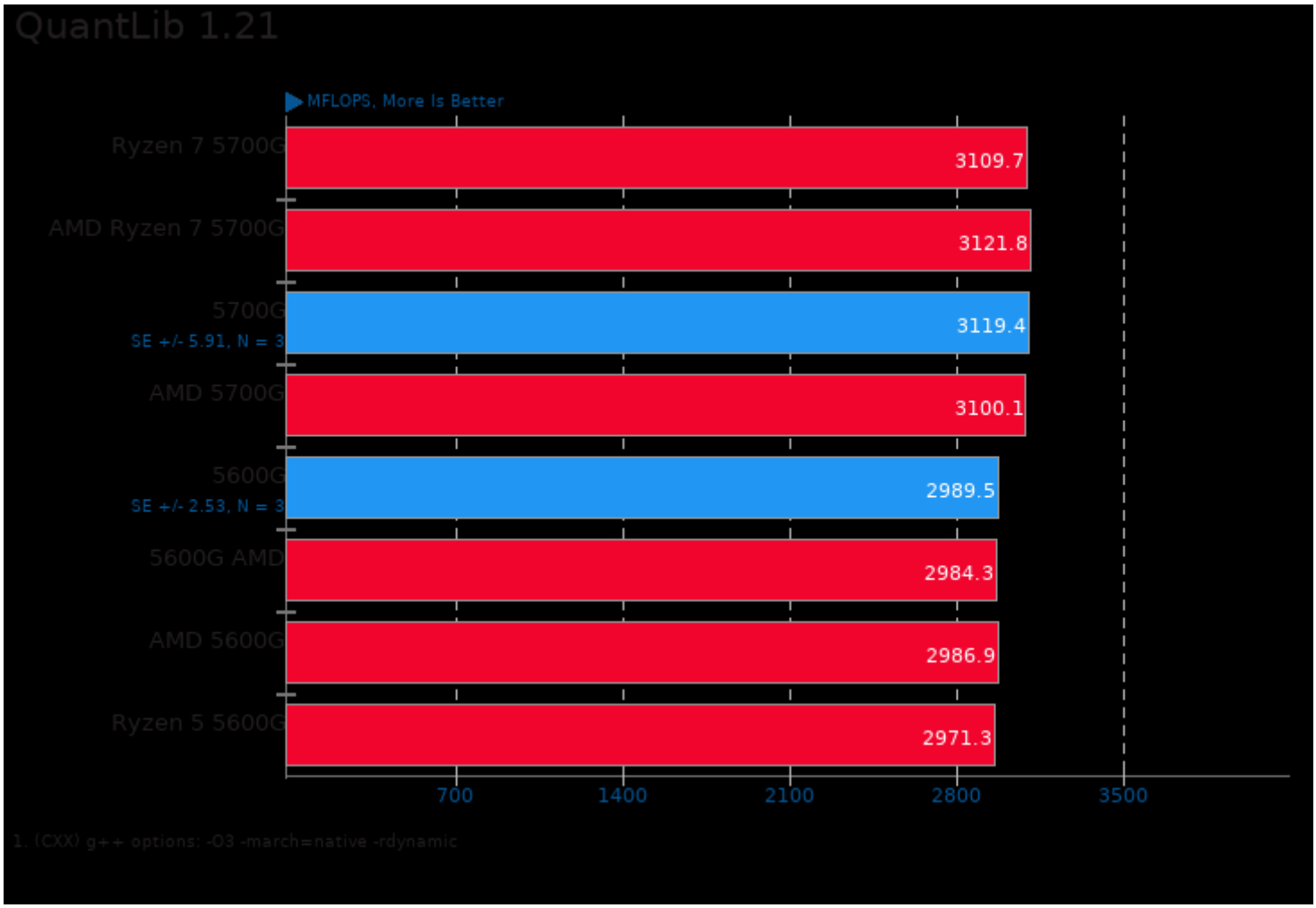
GIMP - unsharp-mask (sec)	12.375	12.337	12.065	12.042	12.091
Normalized	97.31%	97.61%	99.81%	100%	99.59%
Hugin - P.P.A.S.T (sec)	39.33	39.426	41.248	41.383	41.105
Normalized	100%	99.76%	95.35%	95.04%	95.68%
LibreOffice - 2.D.T.P (sec)	6.742	6.758	7.964	7.84	7.946
Normalized	100%	99.76%	84.66%	85.99%	84.85%
OCRMyPDF - P.6.P.P.D (sec)	18.074	18.062	20.726	20.788	20.622
Normalized	99.93%	100%	87.15%	86.89%	87.59%
GNU Octave Benchmark (sec)	6.368	6.146	6.339	6.28	6.254
Normalized	96.51%	100%	96.96%	97.87%	98.27%
RawTherapee - T.B.T (sec)	61.192	60.964	57.507	57.503	57.506
Normalized	93.97%	94.32%	99.99%	100%	99.99%
Google Draco - Lion	5140	5197	5258	5274	5253
Normalized	100%	98.9%	97.76%	97.46%	97.85%
Google Draco - Church Facade (ms)	7011	6892	7270	7116	7075
Normalized	98.3%	100%	94.8%	96.85%	97.41%
TNN - CPU - DenseNet (ms)	2719	2726	2843	2835	2832
Normalized	100%	99.74%	95.63%	95.93%	96.01%
TNN - CPU - MobileNet v2 (ms)	230.464	232.278	237.931	237.583	238.05
Normalized	100%	99.22%	96.86%	97%	96.81%
TNN - CPU - SqueezeNet v1.1 (ms)	216.983	219.304	227.893	227.906	228.155
Normalized	100%	98.94%	95.21%	95.21%	95.1%
ctx_clock - C.S.T (Clocks)	152	152	195	156	195
Normalized	100%	100%	77.95%	97.44%	77.95%
Blender - BMW27 - CPU-Only (sec)	146.41	145.67	189.15	188.68	188.81
Normalized	99.49%	100%	77.01%	77.2%	77.15%
Blender - Classroom - CPU-Only (sec)	429.96	427.78	558.82	557.79	555.17
Normalized	99.49%	100%	76.55%	76.69%	77.05%
Blender - Fishy Cat - CPU-Only (sec)	195.59	194.5	251.24	250.96	250.37
Normalized	99.44%	100%	77.42%	77.5%	77.69%
Blender - Barbershop - CPU-Only (sec)	573.49	572.02	746.66	746.18	745.65
Normalized	99.74%	100%	76.61%	76.66%	76.71%
Blender - Pabellon Barcelona - CPU-Only (sec)	475.45	472.2	616.27	614.54	616.34
Normalized	99.32%	100%	76.62%	76.84%	76.61%

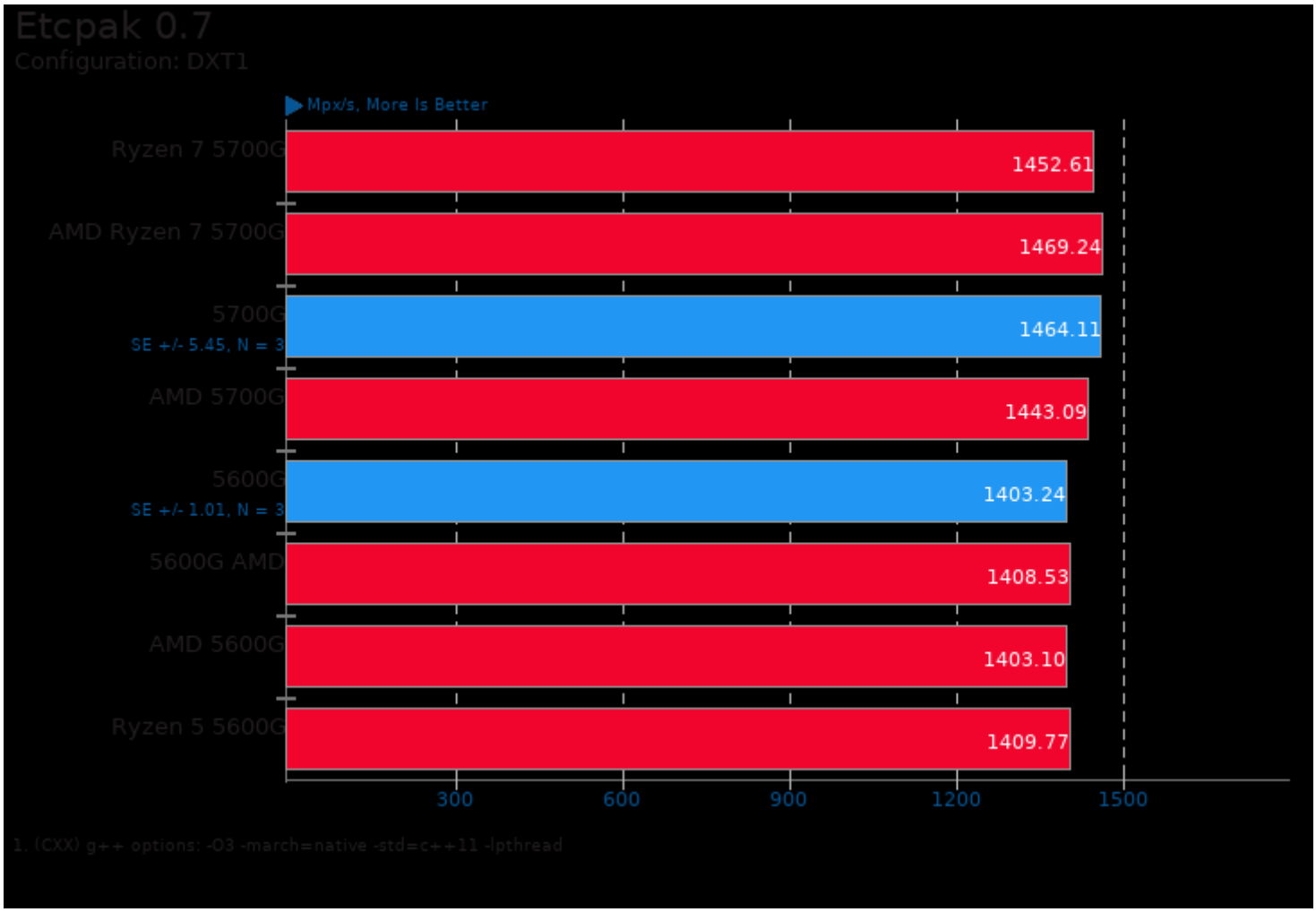
ONNX Runtime - fcn-resnet101-11 - OpenMP CPU (Inferences/min)	**76**	**76**	**66**	67	**66**
Normalized	100%	100%	86.84%	88.16%	86.84%
ONNX Runtime - super-resolution-10 - OpenMP CPU (Inferences/min)	**5535**	5509	4992	4990	**4974**
Normalized	100%	99.53%	90.19%	90.15%	89.86%
NeatBench - All (FPS)	12.6	**12.5**	**13.4**	**13.4**	13.1
Normalized	94.03%	93.28%	100%	100%	97.76%
NeatBench - CPU (FPS)	12.3	**12**	**13.1**	12.9	13
Normalized	93.89%	91.6%	100%	98.47%	99.24%
Natron - Spaceship (FPS)	**2.8**	**2.8**	2.5	2.5	**2.4**
Normalized	100%	100%	89.29%	89.29%	85.71%
LuaJIT - Composite (Mflops)	**1792**	1791	1709	1710	**1707**
Normalized	100%	99.95%	95.35%	95.4%	95.25%
Standard Deviation	0.1%				
LuaJIT - Monte Carlo (Mflops)	577.69	**577.84**	551.81	551.69	**551.28**
Normalized	99.97%	100%	95.5%	95.47%	95.4%
Standard Deviation	0.3%				
LuaJIT - F.F.T (Mflops)	382.91	**390.03**	379.93	379.64	**373.91**
Normalized	98.17%	100%	97.41%	97.34%	95.87%
Standard Deviation	0.1%				
LuaJIT - S.M.M (Mflops)	1652	**1656**	1574	**1572**	1576
Normalized	99.79%	100%	95.06%	94.96%	95.19%
Standard Deviation	0.3%				
LuaJIT - D.L.M.F (Mflops)	**4024**	4008	3823	3824	**3817**
Normalized	100%	99.59%	95%	95.04%	94.85%
Standard Deviation	0.1%				
LuaJIT - J.S.O.R	2325	**2326**	**2216**	2221	2218
Normalized	99.94%	100%	95.27%	95.5%	95.35%
Standard Deviation	0.1%				
LuxCoreRender - DLSC - CPU (M samples/sec)	**2.00**	**2**	1.57	**1.55**	1.56
Normalized	100%	100%	78.5%	77.5%	78%
Standard Deviation	0.3%				
LuxCoreRender - Danish Mood - CPU (M samples/sec)	1.39	**1.51**	**0.97**	1.04	0.99
Normalized	92.05%	100%	64.24%	68.87%	65.56%
Standard Deviation	0%				
LuxCoreRender - Orange Juice - CPU (M samples/sec)	**3.06**	**3.06**	**2.36**	**2.36**	**2.36**
Normalized	100%	100%	77.12%	77.12%	77.12%
Standard Deviation	0.6%				

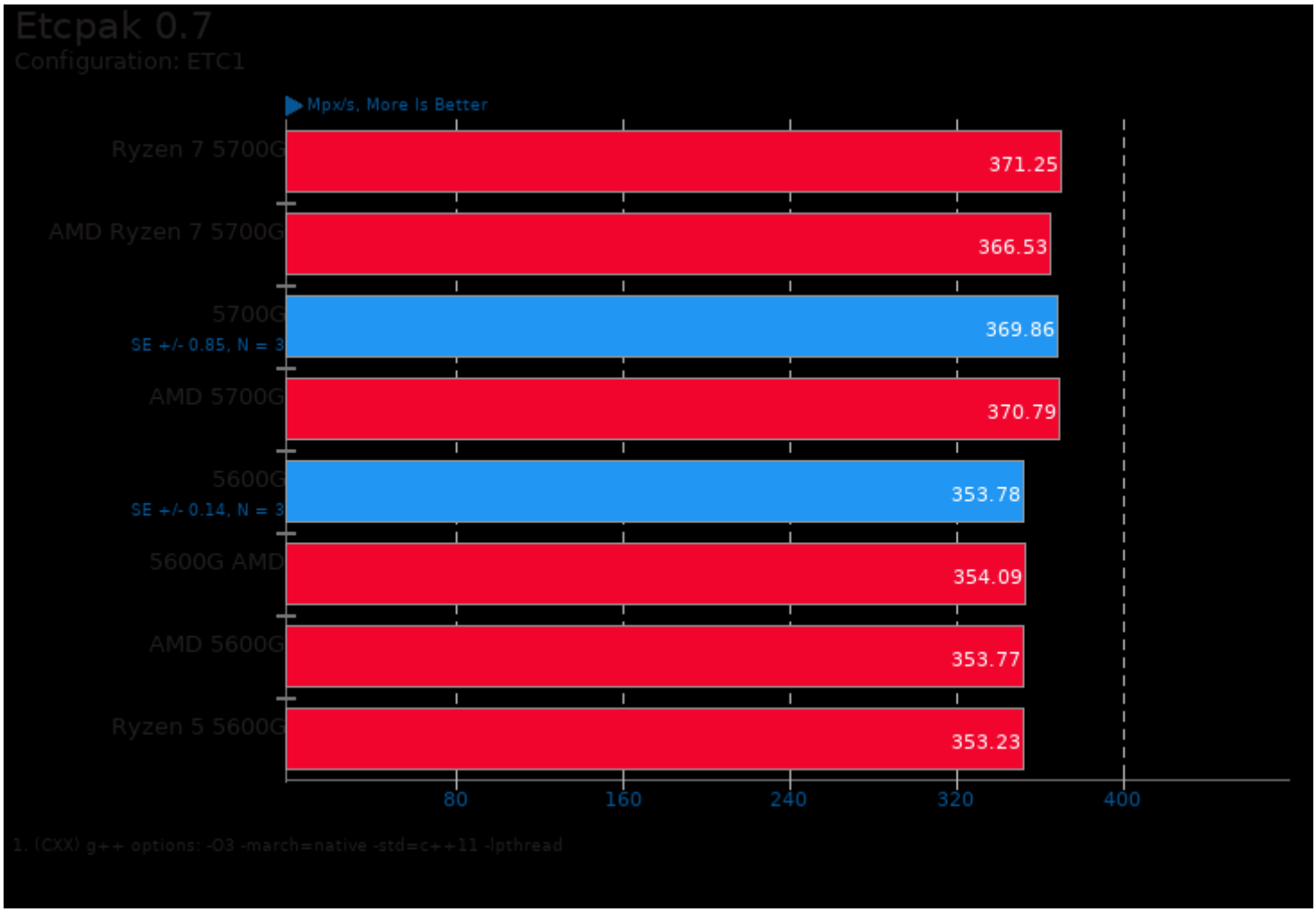
ryzen-7-5700g-linux-benchmarks

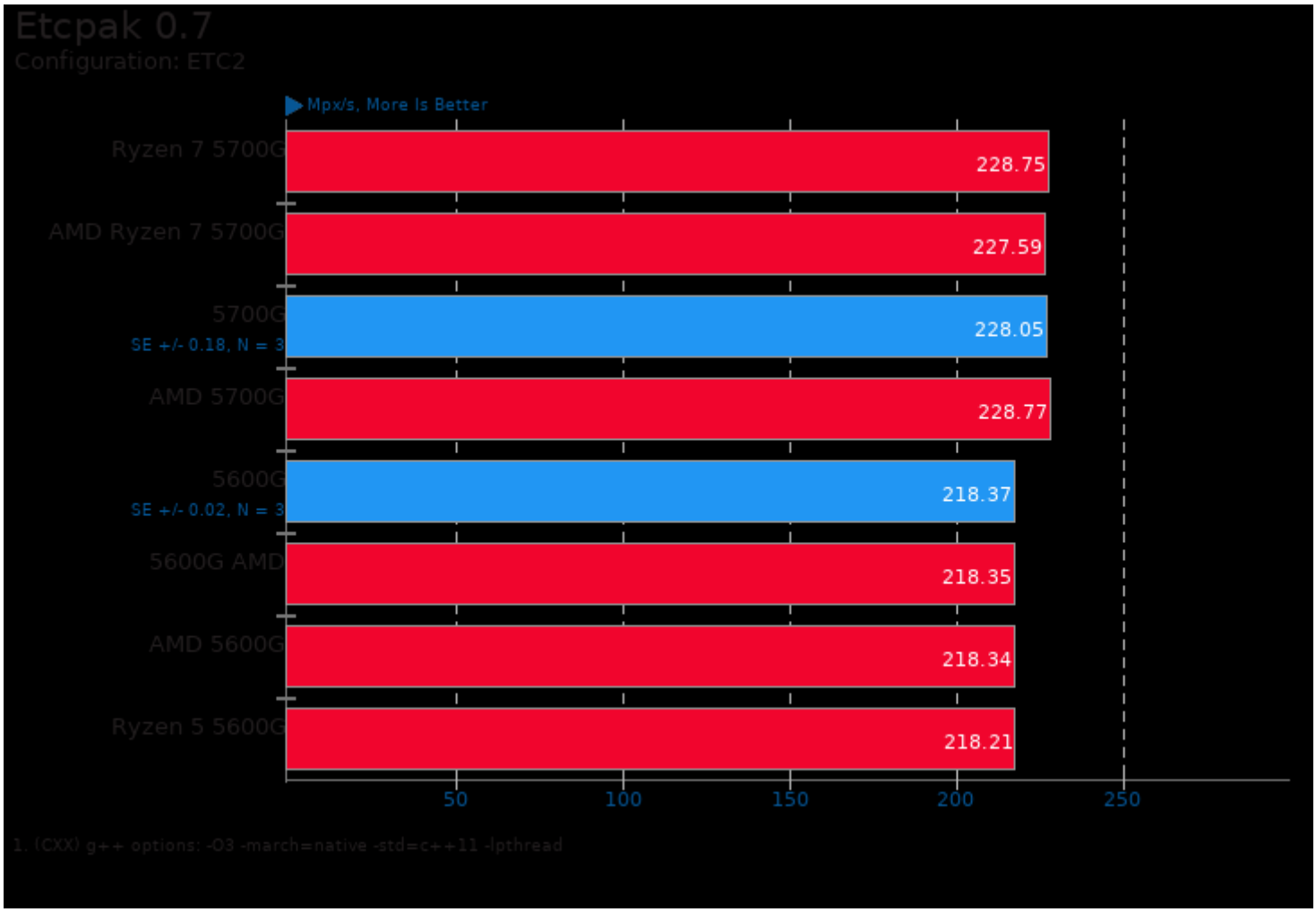
LuxCoreRender - LuxCore Benchmark - CPU (M samples/sec)	1.58	**1.59**	**1.16**	**1.16**	**1.16**
Normalized	99.37%	100%	72.96%	72.96%	72.96%
Standard Deviation	0.6%				
LuxCoreRender - R.C.a.P - CPU (M samples/sec)	**8.70**	8.63	6.85	**6.83**	6.84
Normalized	100%	99.2%	78.74%	78.51%	78.62%
Standard Deviation	0.2%				
Timed Eigen Compilation - Time To	63.333	**62.144**	64.75	64.926	**65.471**
Normalized	98.12%	100%	95.98%	95.72%	94.92%
Standard Deviation	1.7%				
KTX-Software toktx - UASTC 3 (sec)		**10.418**	13.065	13.067	**13.073**
Normalized		100%	79.74%	79.73%	79.69%
KTX-Software toktx - Zstd Compression 9 (sec)		**3.034**	3.294	3.341	**3.392**
Normalized		100%	92.11%	90.81%	89.45%
KTX-Software toktx - Z.C.1 (sec)		**22.87**	**24.196**	23.579	23.922
Normalized		100%	94.52%	96.99%	95.6%
KTX-Software toktx - U.3.Z.C.1 (sec)		**17.121**	19.861	19.966	**20.115**
Normalized		100%	86.2%	85.75%	85.12%
KTX-Software toktx - U.4.Z.C.1 (sec)		**290.815**	**377.823**	377.507	377.354
Normalized		100%	76.97%	77.04%	77.07%
G'MIC - 2.F.P.1.T (sec)		**96.493**	98.425	100.103	**112.098**
Normalized		100%	98.04%	96.39%	86.08%
G'MIC - P.I.O.A.3.V.1.T (sec)		**11.396**	**12.581**	11.883	12.075
Normalized		100%	90.58%	95.9%	94.38%
G'MIC - 3.E.F.I.R.C.1.T (sec)		**42.223**	43.867	**43.952**	43.889
Normalized		100%	96.25%	96.07%	96.2%
Appleseed - Emily (sec)		**352.365228**	445.378598	445.638676	**446.502876**
Normalized		100%	79.12%	79.07%	78.92%
Appleseed - Disney Material (sec)		**218.55206**	283.181989	283.536082	**283.804558**
Normalized		100%	77.18%	77.08%	77.01%
Appleseed - Material Tester (sec)		**190.598944**	245.954654	**246.850356**	244.611951
Normalized		100%	77.49%	77.21%	77.92%
PHPBench - P.B.S (Score)		**821256**	783210	790673	**780541**
Normalized		100%	95.37%	96.28%	95.04%

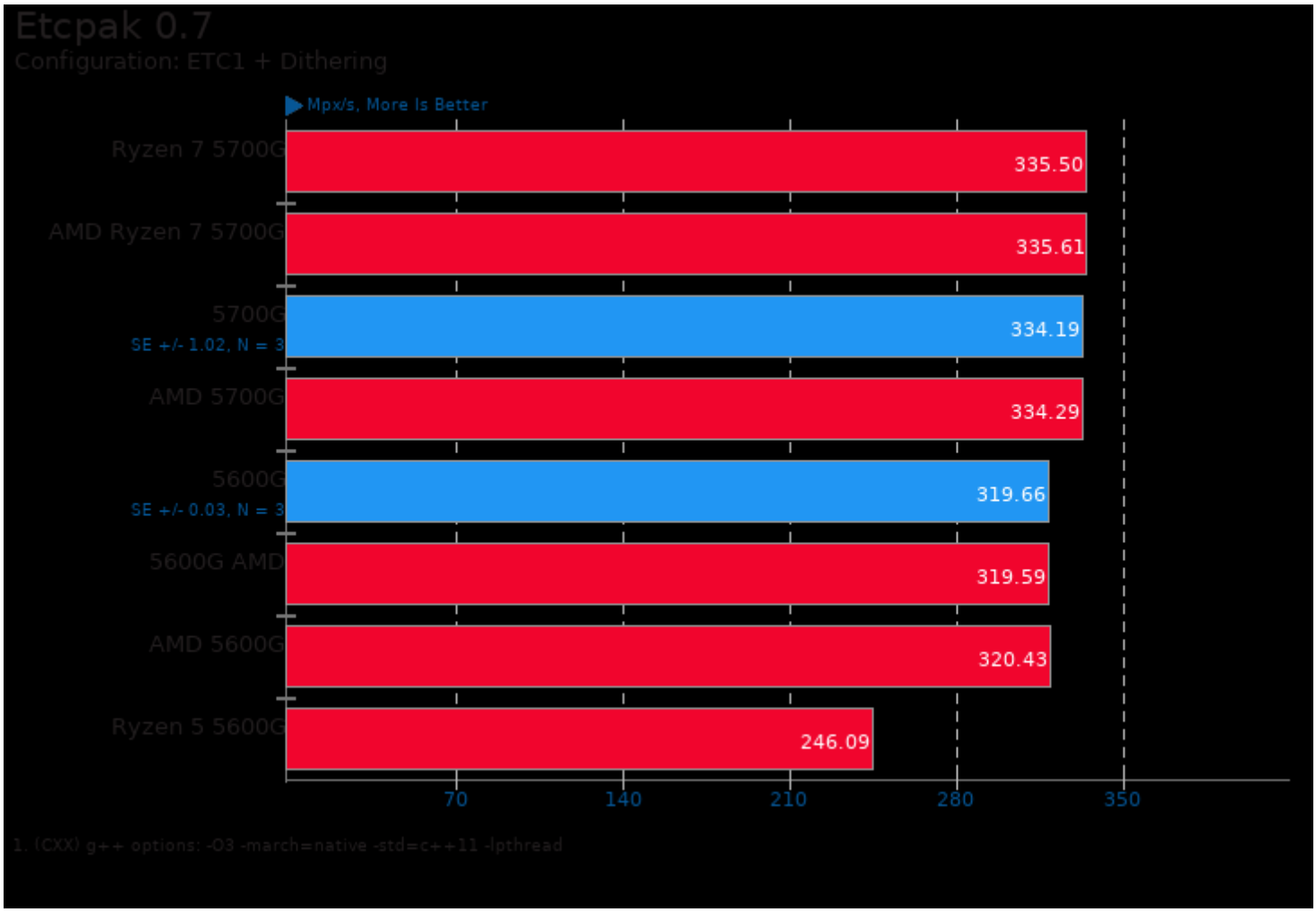
WavPack Audio Encoding - WAV To WavPack (sec)	**11.712**	12.259	12.269	**12.297**
Normalized	100%	95.54%	95.46%	95.24%
Git - T.T.C.C.G.C (sec)	**44.337**	45.366	**45.435**	45.432
Normalized	100%	97.73%	97.58%	97.59%
BRL-CAD - V.P.M (VGR Performance Metric)	**146457**		**115841**	116312
Normalized	100%		79.1%	79.42%
Chaos Group V-RAY - CPU (vsamples)	**11026**		8656	**8443**
Normalized	100%		78.51%	76.57%
LeelaChessZero - BLAS (Nodes/s)	**618**		719	**738**
Normalized	83.74%		97.43%	100%
Standard Deviation	1.9%			
LeelaChessZero - Eigen (Nodes/s)	**598**		**712**	685
Normalized	83.99%		100%	96.21%
Standard Deviation	3.2%			

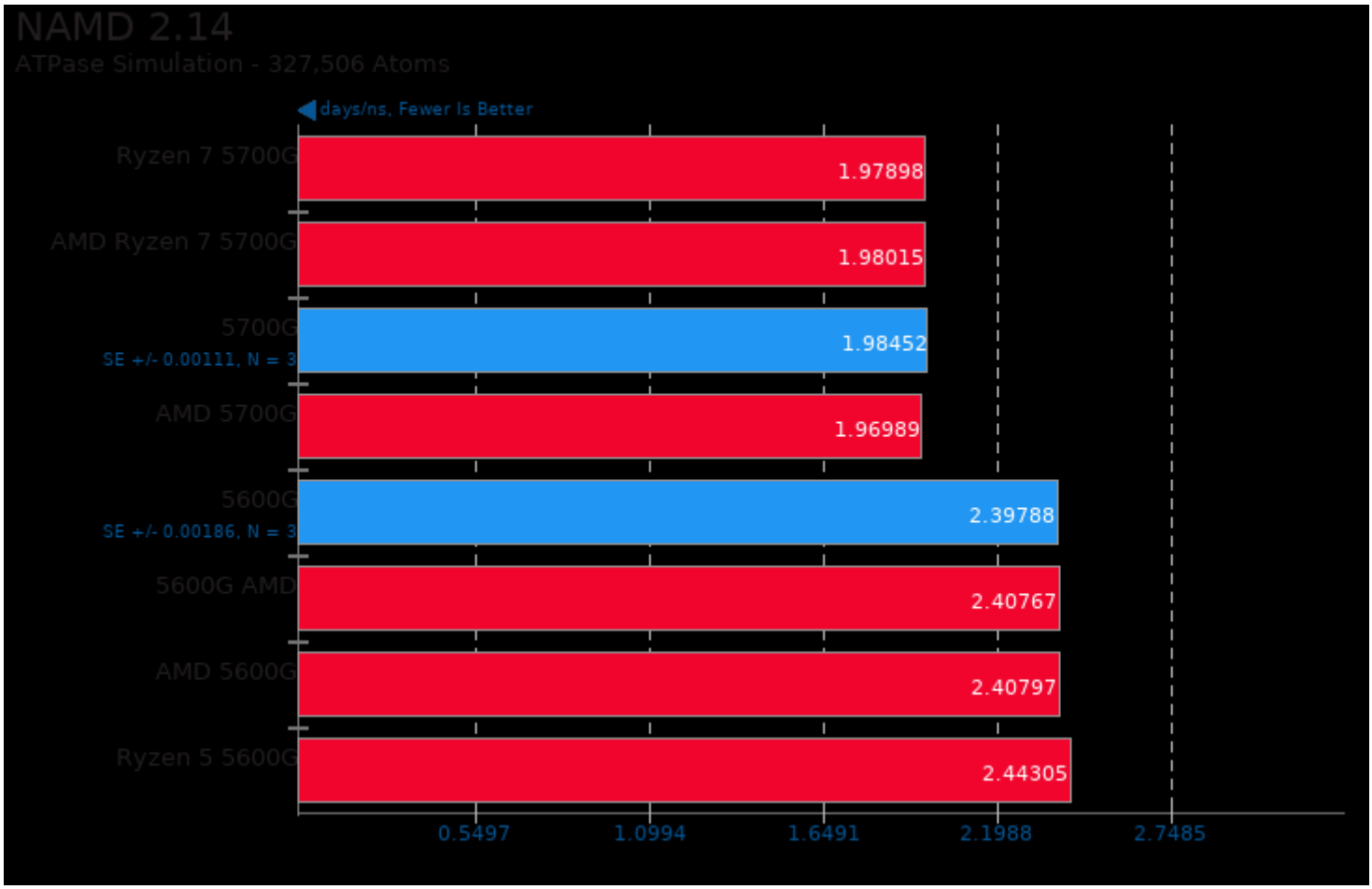

QuantLib 1.21
MFLOPS, More Is Better
Ryzen 7 5700G
3109.7
AMD Ryzen 7 5700G
3121.8
5700G
SE +/- 5.91, N = 3
3119.4
AMD 5700G
3100.1
5600G
SE +/- 2.53, N = 3
2989.5
5600G AMD
2984.3
AMD 5600G
2986.9
Ryzen 5 5600G
2971.3
700
1400
2100
2800
3500
1. (CXX) g++ options: -O3 -march=native -rdynamic

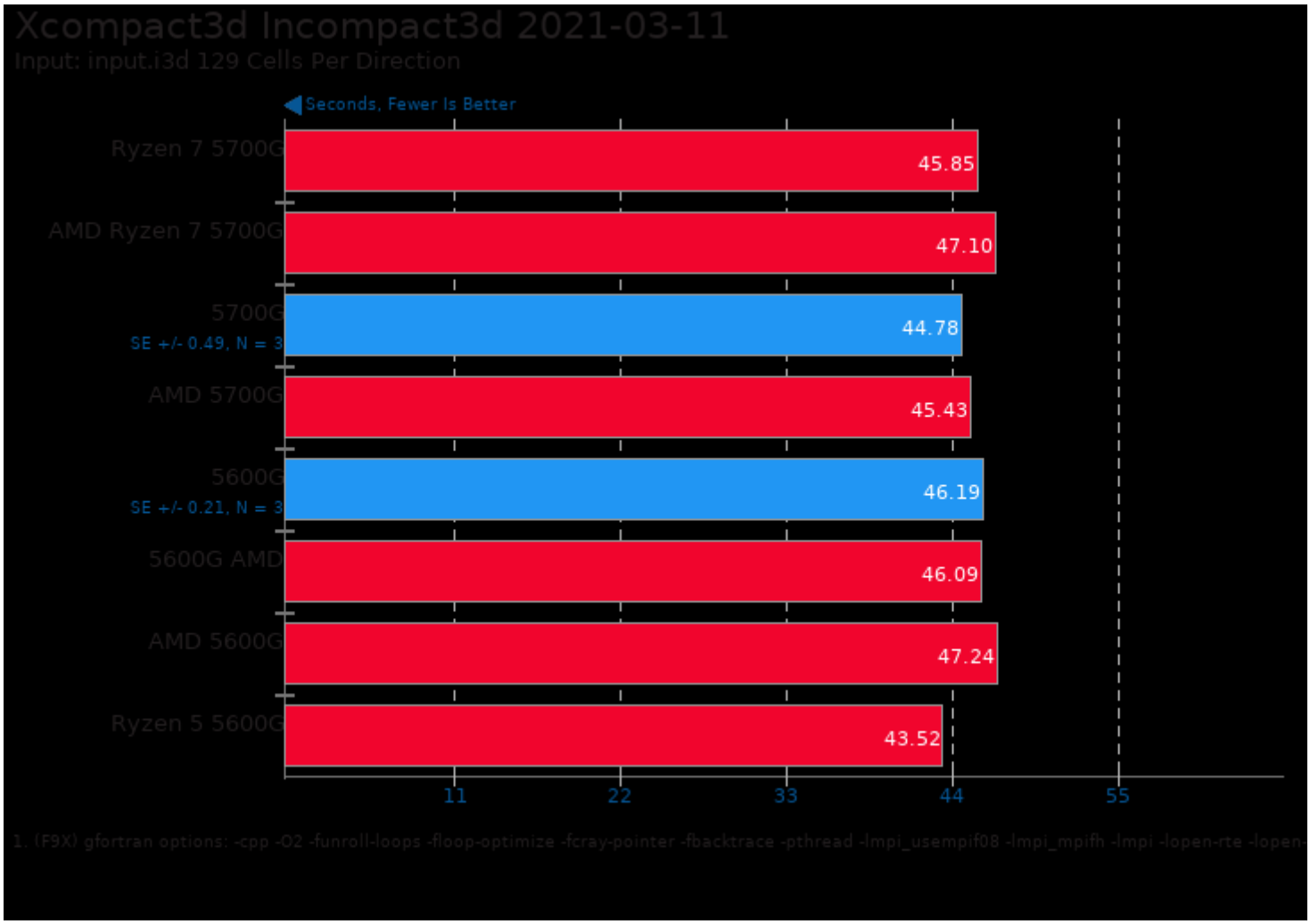

Etcpak 0.7
Configuration: DXT1
Mpx/s, More Is Better
Ryzen 7 5700G
1452.61
AMD Ryzen 7 5700G
1469.24
5700G
SE +/- 5.45, N = 3
1464.11
AMD 5700G
1443.09
5600G
SE +/- 1.01, N = 3
1403.24
5600G AMD
1408.53
AMD 5600G
1403.10
Ryzen 5 5600G
1409.77
300
600
900
1200
1500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

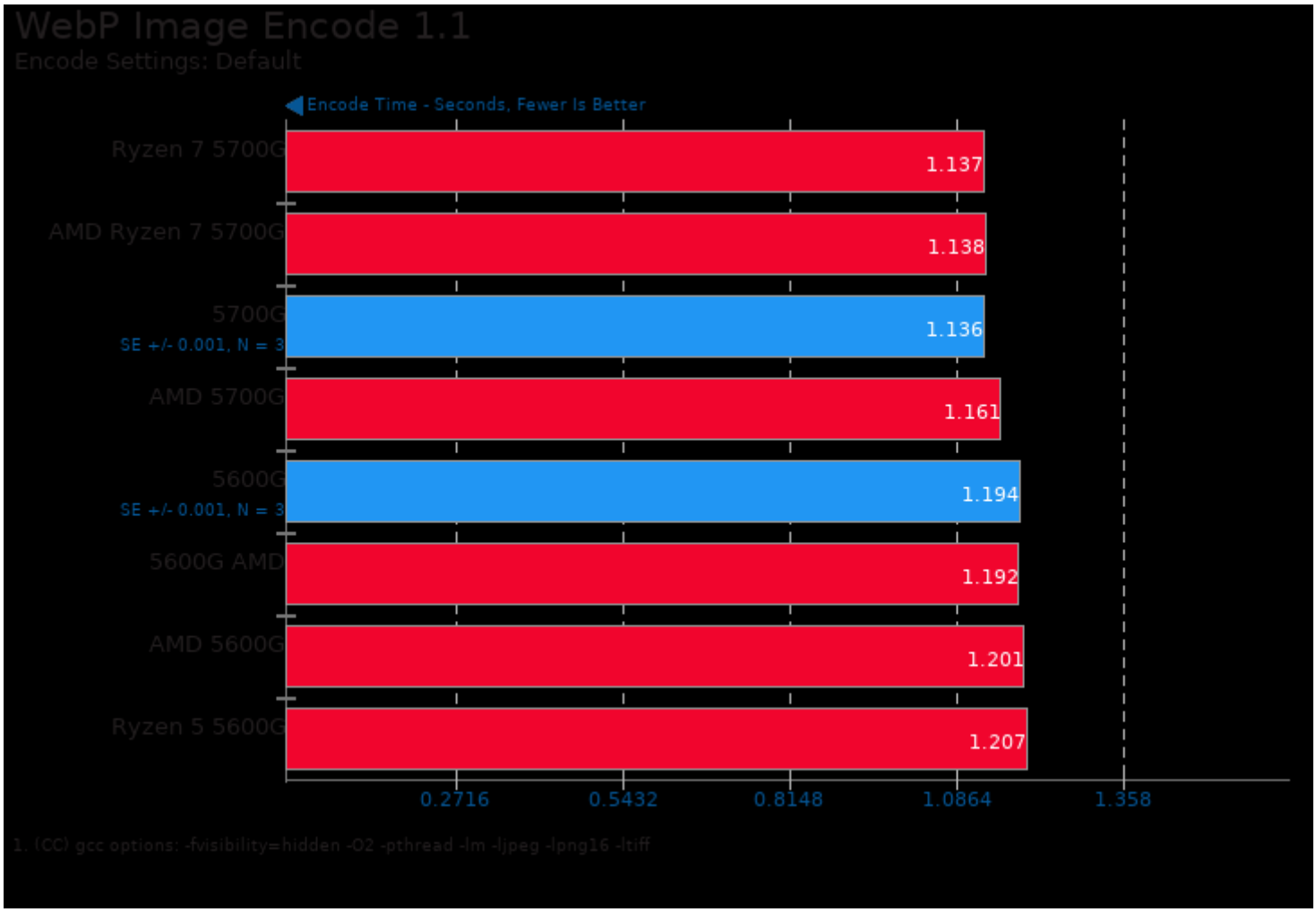

Etcpak 0.7
Configuration: ETC1
Mpx/s, More Is Better
Ryzen 7 5700G
371.25
AMD Ryzen 7 5700G
366.53
5700G
SE +/- 0.85, N = 3
369.86
AMD 5700G
370.79
5600G
SE +/- 0.14, N = 3
353.78
5600G AMD
354.09
AMD 5600G
353.77
Ryzen 5 5600G
353.23
80
160
240
320
400
1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

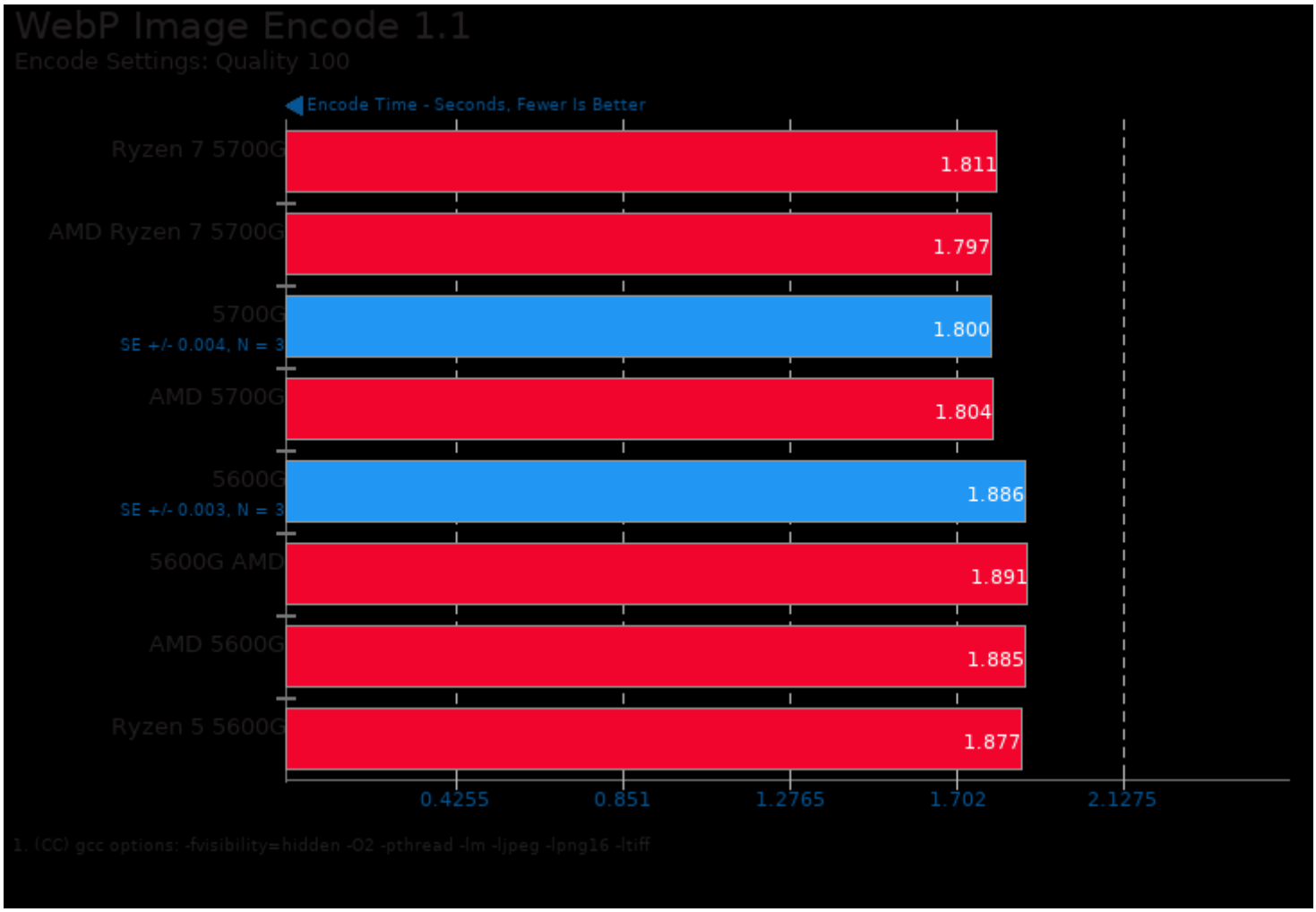

Etcpak 0.7
Configuration: ETC2
Mpx/s, More Is Better
Ryzen 7 5700G
228.75
AMD Ryzen 7 5700G
227.59
5700G
SE +/- 0.18, N = 3
228.05
AMD 5700G
228.77
5600G
SE +/- 0.02, N = 3
218.37
5600G AMD
218.35
AMD 5600G
218.34
Ryzen 5 5600G
218.21
50
100
150
200
250
1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

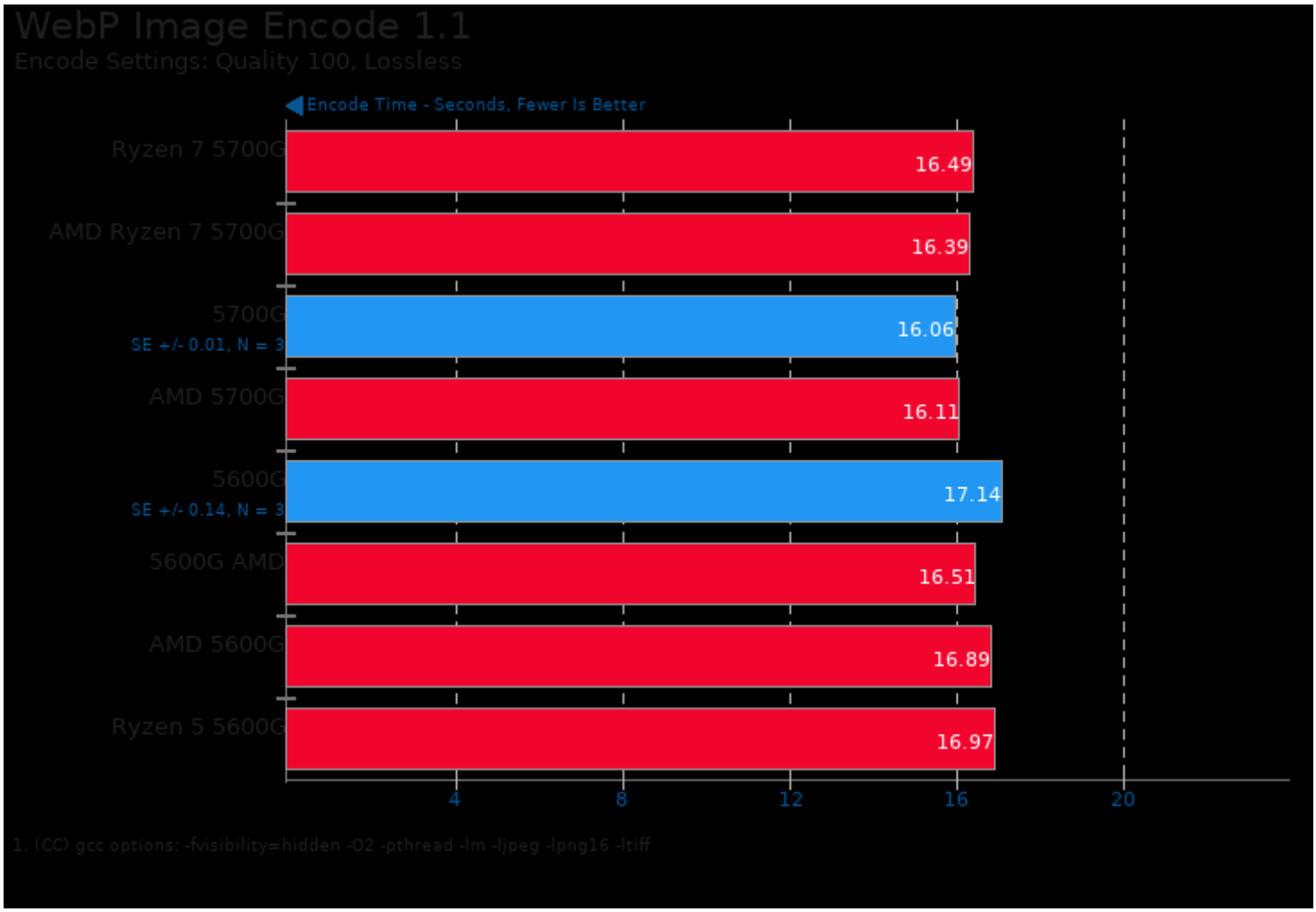

Etcpak 0.7
Configuration: ETC1 + Dithering
Mpx/s, More Is Better
Ryzen 7 5700G
335.50
AMD Ryzen 7 5700G
335.61
5700G
SE +/- 1.02, N = 3
334.19
AMD 5700G
334.29
5600G
SE +/- 0.03, N = 3
319.66
5600G AMD
319.59
AMD 5600G
320.43
Ryzen 5 5600G
246.09
70
140
210
280
350
1. (CXX) g++ options: -O3 -march=native -std=c++11 -lpthread

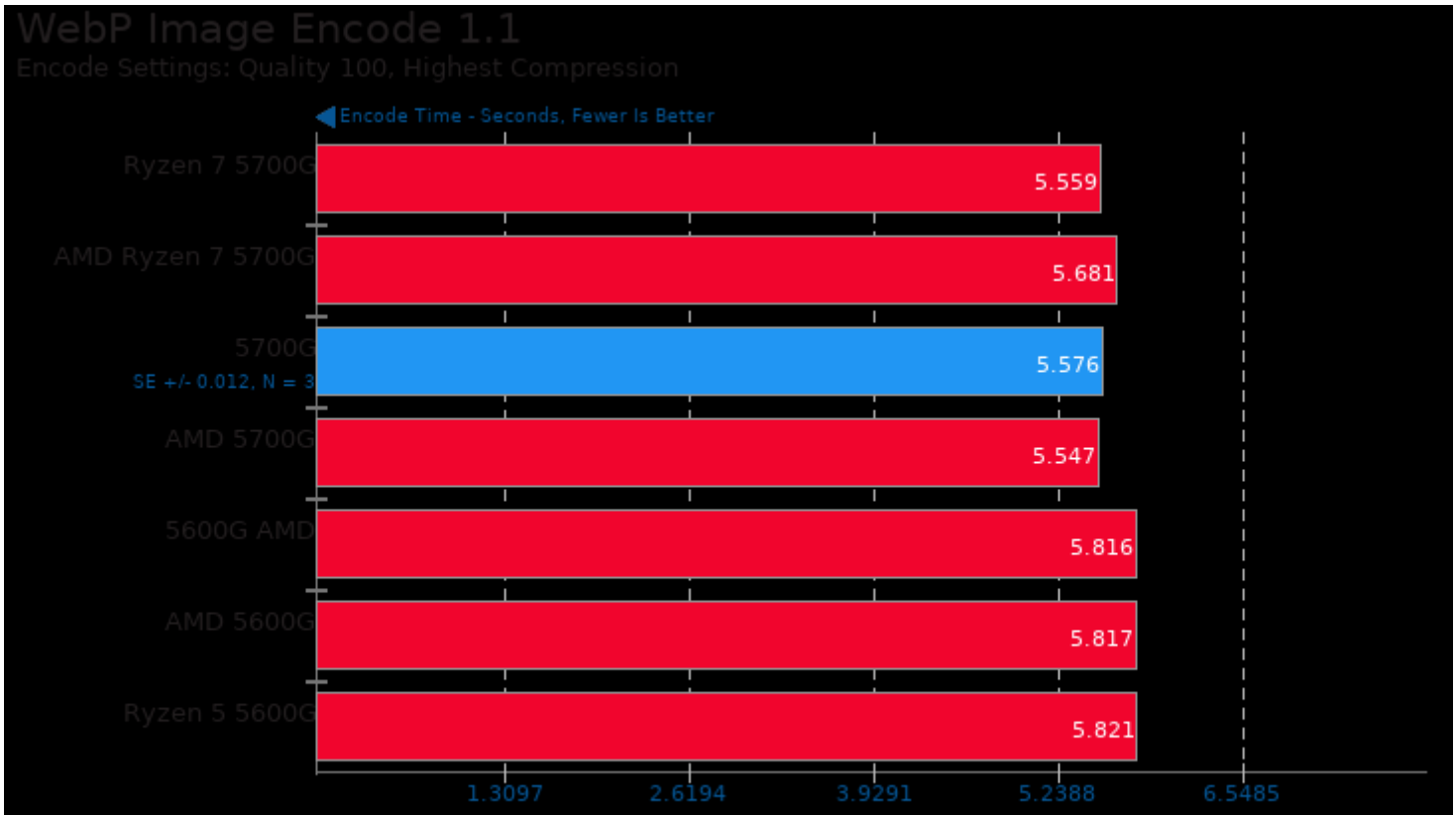

NAMD 2.14
ATPase Simulation - 327,506 Atoms
days/ns, Fewer Is Better
Ryzen 7 5700G
1.97898
AMD Ryzen 7 5700G
1.98015
5700G
SE +/- 0.00111, N = 3
1.98452
AMD 5700G
1.96989
5600G
SE +/- 0.00186, N = 3
2.39788
5600G AMD
2.40767
AMD 5600G
2.40797
Ryzen 5 5600G
2.44305
0.5497
1.0994
1.6491
2.1988
2.7485

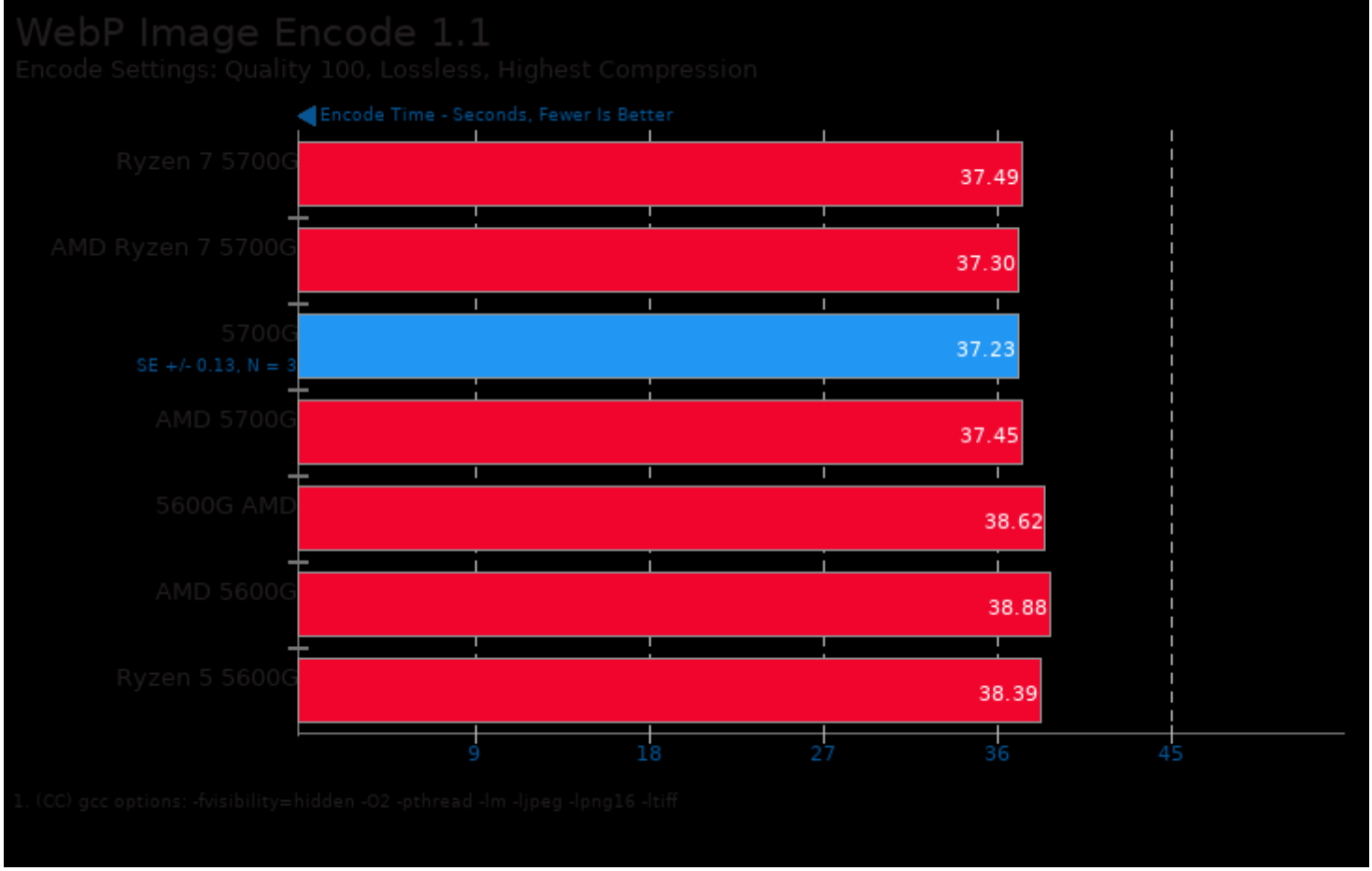

Xcompact3d Incompact3d 2021-03-11
Input: input.i3d 129 Cells Per Direction
Seconds, Fewer Is Better
Ryzen 7 5700G
45.85
AMD Ryzen 7 5700G
47.10
5700G
SE +/- 0.49, N = 3
44.78
AMD 5700G
45.43
5600G
SE +/- 0.21, N = 3
46.19
5600G AMD
46.09
AMD 5600G
47.24
Ryzen 5 5600G
43.52
11
22
33
44
55
1. (F9X) gfortran options: -cpp -O2 -funroll-loops -floop-optimize -fcray-pointer -fbacktrace -pthread -lmpi_usempif08 -lmpi_mpifh -lmpi -lopen-rte -lopen-

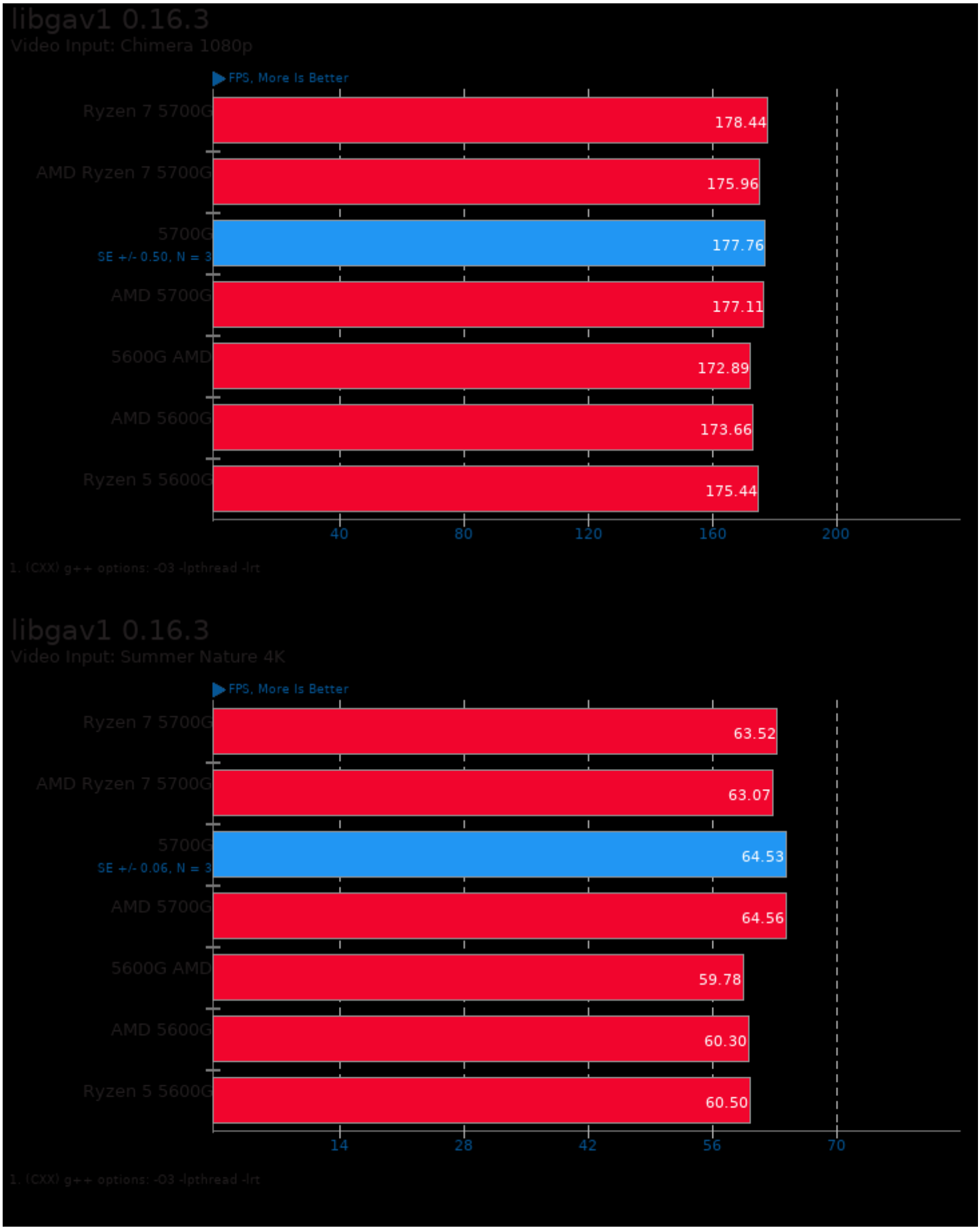

WebP Image Encode 1.1
Encode Settings: Default
Encode Time - Seconds, Fewer Is Better
Ryzen 7 5700G
1.137
AMD Ryzen 7 5700G
1.138
5700G
SE +/- 0.001, N = 3
1.136
AMD 5700G
1.161
5600G
SE +/- 0.001, N = 3
1.194
5600G AMD
1.192
AMD 5600G
1.201
Ryzen 5 5600G
1.207
0.2716
0.5432
0.8148
1.0864
1.358
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

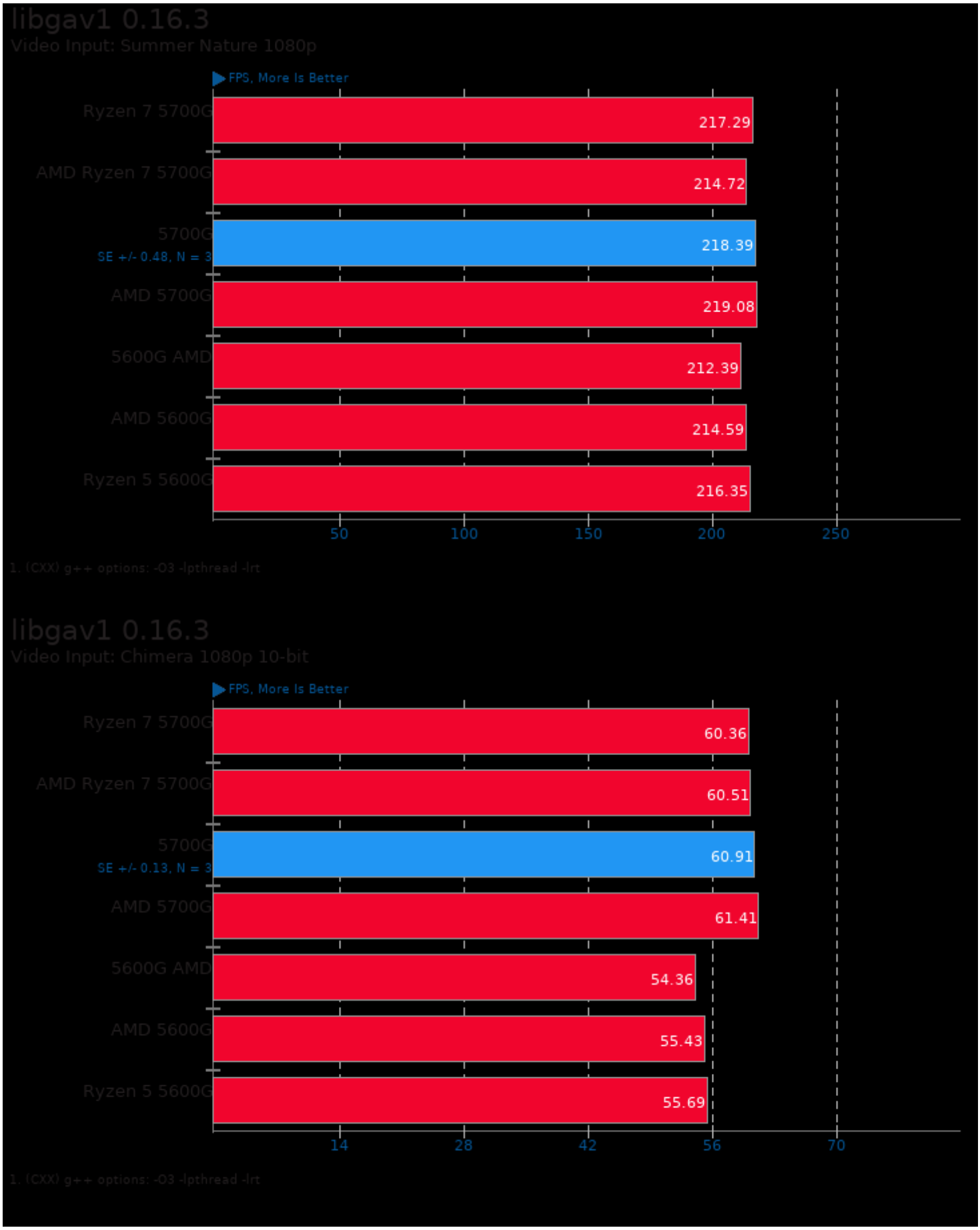

WebP Image Encode 1.1
Encode Settings: Quality 100
Encode Time - Seconds, Fewer Is Better
Ryzen 7 5700G
1.811
AMD Ryzen 7 5700G
1.797
5700G
SE +/- 0.004, N = 3
1.800
AMD 5700G
1.804
5600G
SE +/- 0.003, N = 3
1.886
5600G AMD
1.891
AMD 5600G
1.885
Ryzen 5 5600G
1.877
0.4255
0.851
1.2765
1.702
2.1275
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

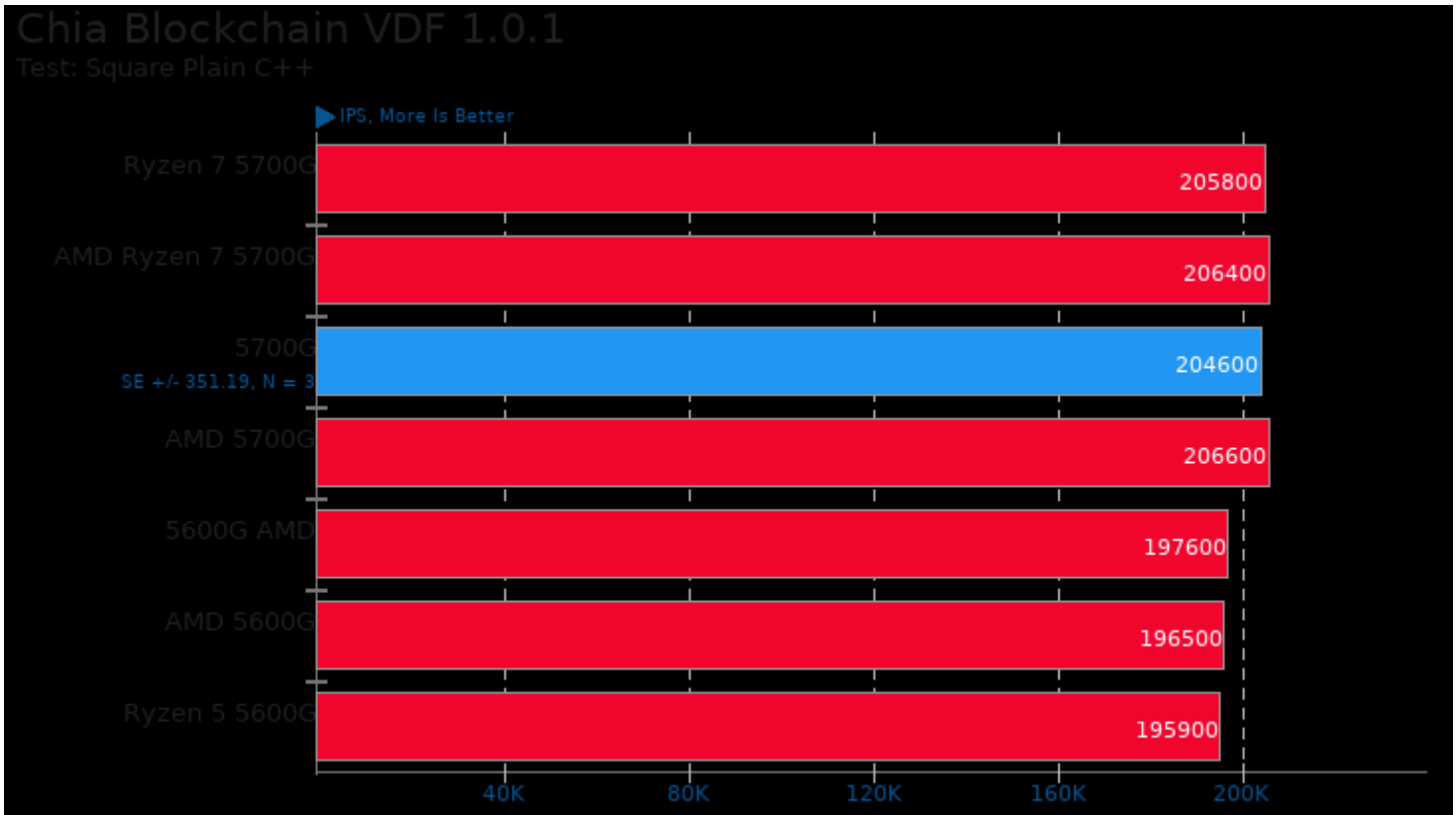

WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless
Encode Time - Seconds, Fewer Is Better
Ryzen 7 5700G
16.49
AMD Ryzen 7 5700G
16.39
5700G
SE +/- 0.01, N = 3
16.06
AMD 5700G
16.11
5600G
SE +/- 0.14, N = 3
17.14
5600G AMD
16.51
AMD 5600G
16.89
Ryzen 5 5600G
16.97
4
8
12
16
20
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

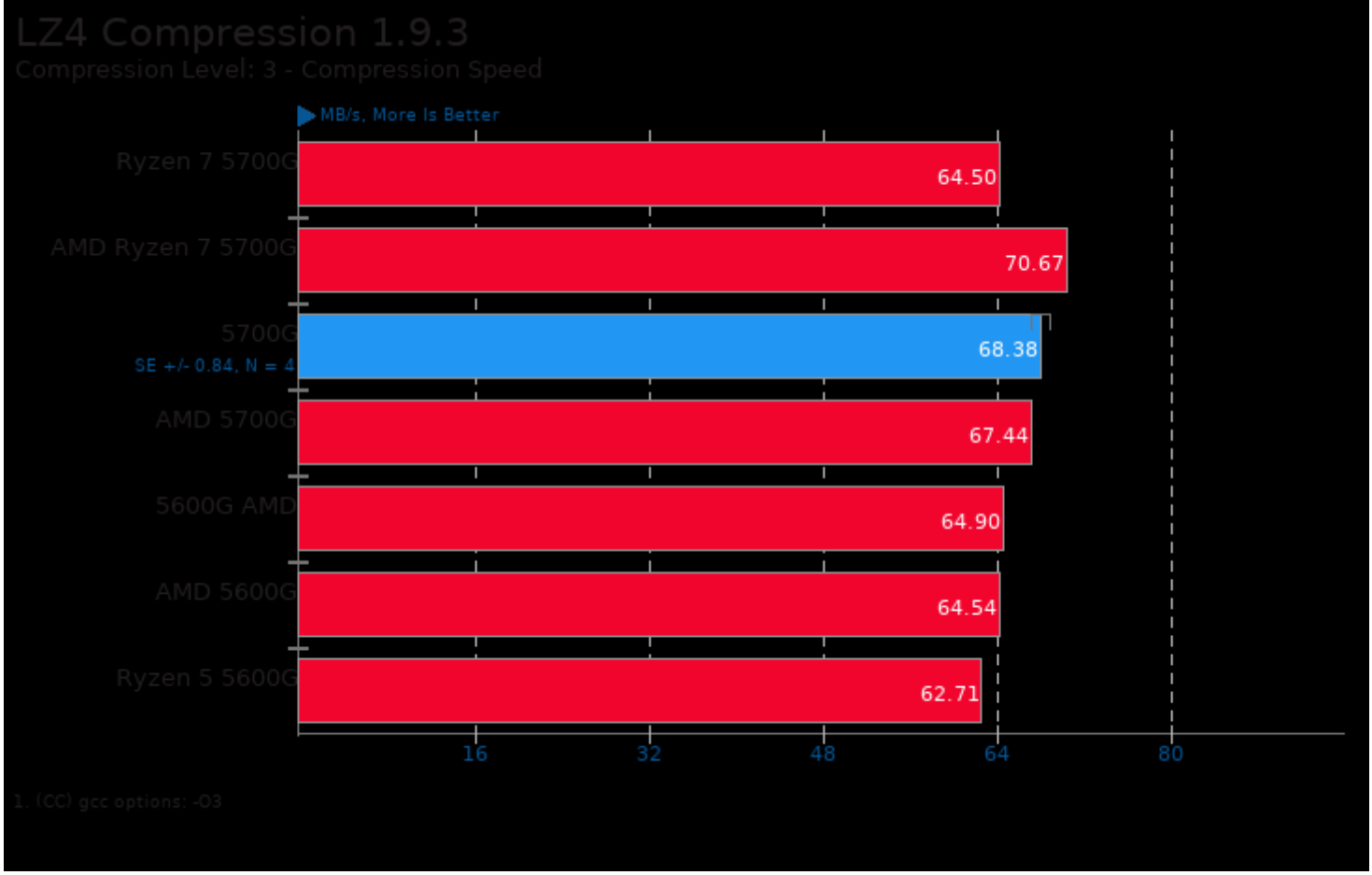

WebP Image Encode 1.1
Encode Settings: Quality 100, Highest Compression
Encode Time - Seconds, Fewer Is Better
Ryzen 7 5700G
5.559
AMD Ryzen 7 5700G
5.681
5700G
SE +/- 0.012, N = 3
5.576
AMD 5700G
5.547
5600G AMD
5.816
AMD 5600G
5.817
Ryzen 5 5600G
5.821
1.3097
2.6194
3.9291
5.2388
6.5485
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

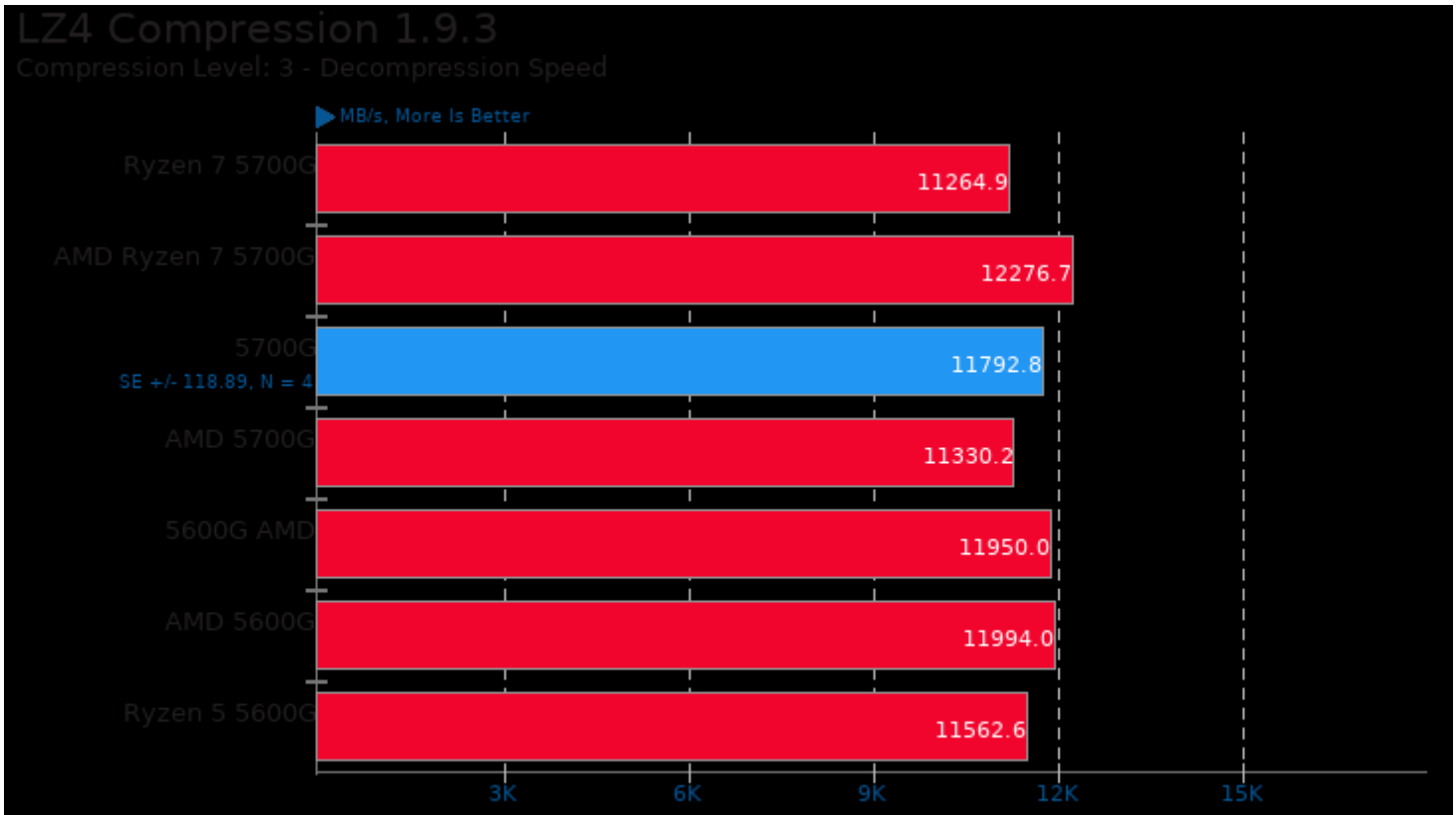

WebP Image Encode 1.1
Encode Settings: Quality 100, Lossless, Highest Compression
Encode Time - Seconds, Fewer Is Better
Ryzen 7 5700G
37.49
AMD Ryzen 7 5700G
37.30
5700G
SE +/- 0.13, N = 3
37.23
AMD 5700G
37.45
5600G AMD
38.62
AMD 5600G
38.88
Ryzen 5 5600G
38.39
9
18
27
36
45
1. (CC) gcc options: -fvisibility=hidden -O2 -pthread -lm -ljpeg -lpng16 -ltiff

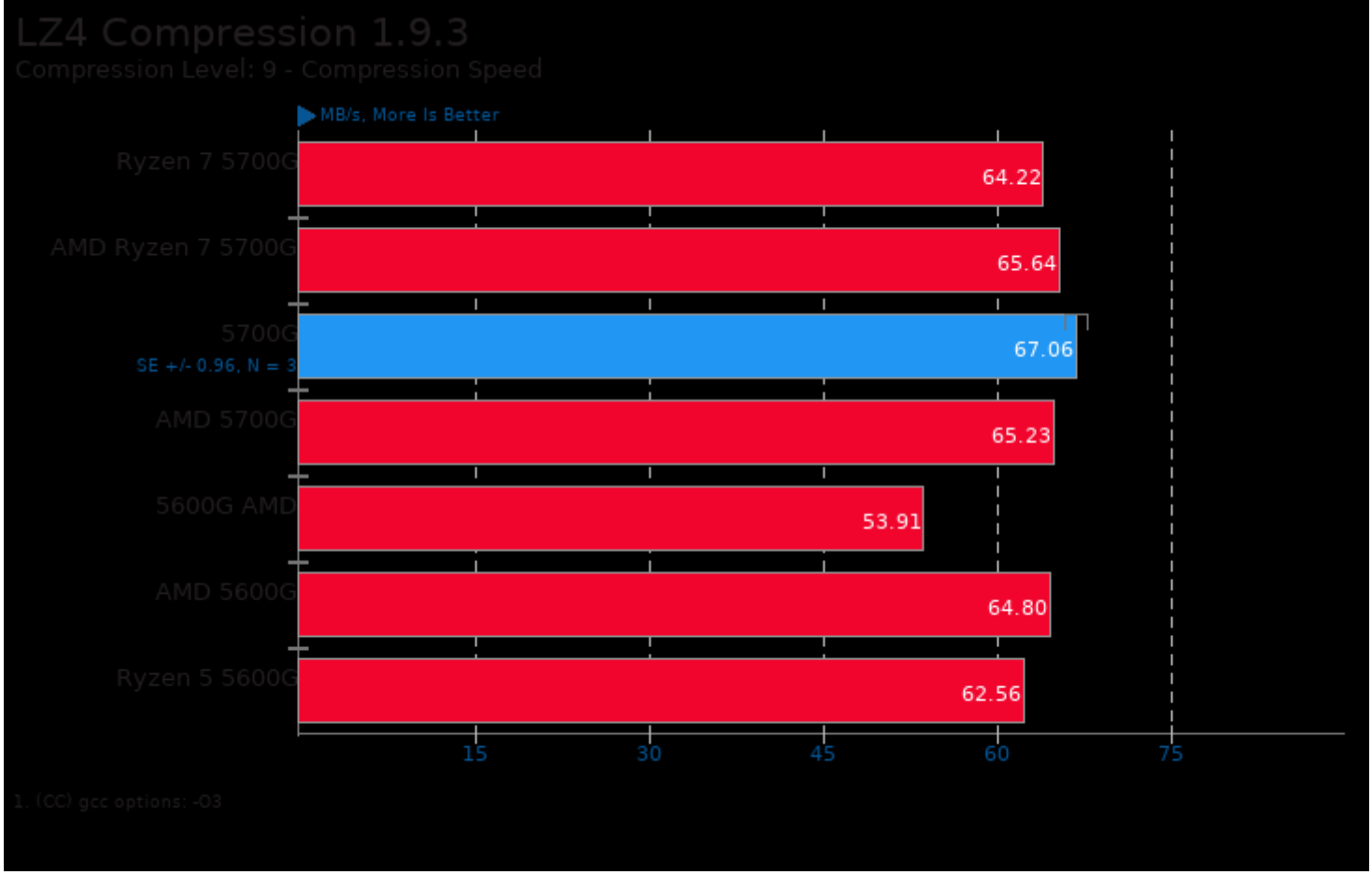

libgav1 0.16.3
Video Input: Chimera 1080p
FPS, More Is Better
Ryzen 7 5700G
178.44
AMD Ryzen 7 5700G
175.96
5700G
SE +/- 0.50, N = 3
177.76
AMD 5700G
177.11
5600G AMD
172.89
AMD 5600G
173.66
Ryzen 5 5600G
175.44
40
80
120
160
200
1. (CXX) g++ options: -O3 -lpthread -lrt
libgav1 0.16.3
Video Input: Summer Nature 4K
FPS, More Is Better
Ryzen 7 5700G
63.52
AMD Ryzen 7 5700G
63.07
5700G
SE +/- 0.06, N = 3
64.53
AMD 5700G
64.56
5600G AMD
59.78
AMD 5600G
60.30
Ryzen 5 5600G
60.50
14
28
42
56
70
1. (CXX) g++ options: -O3 -lpthread -lrt

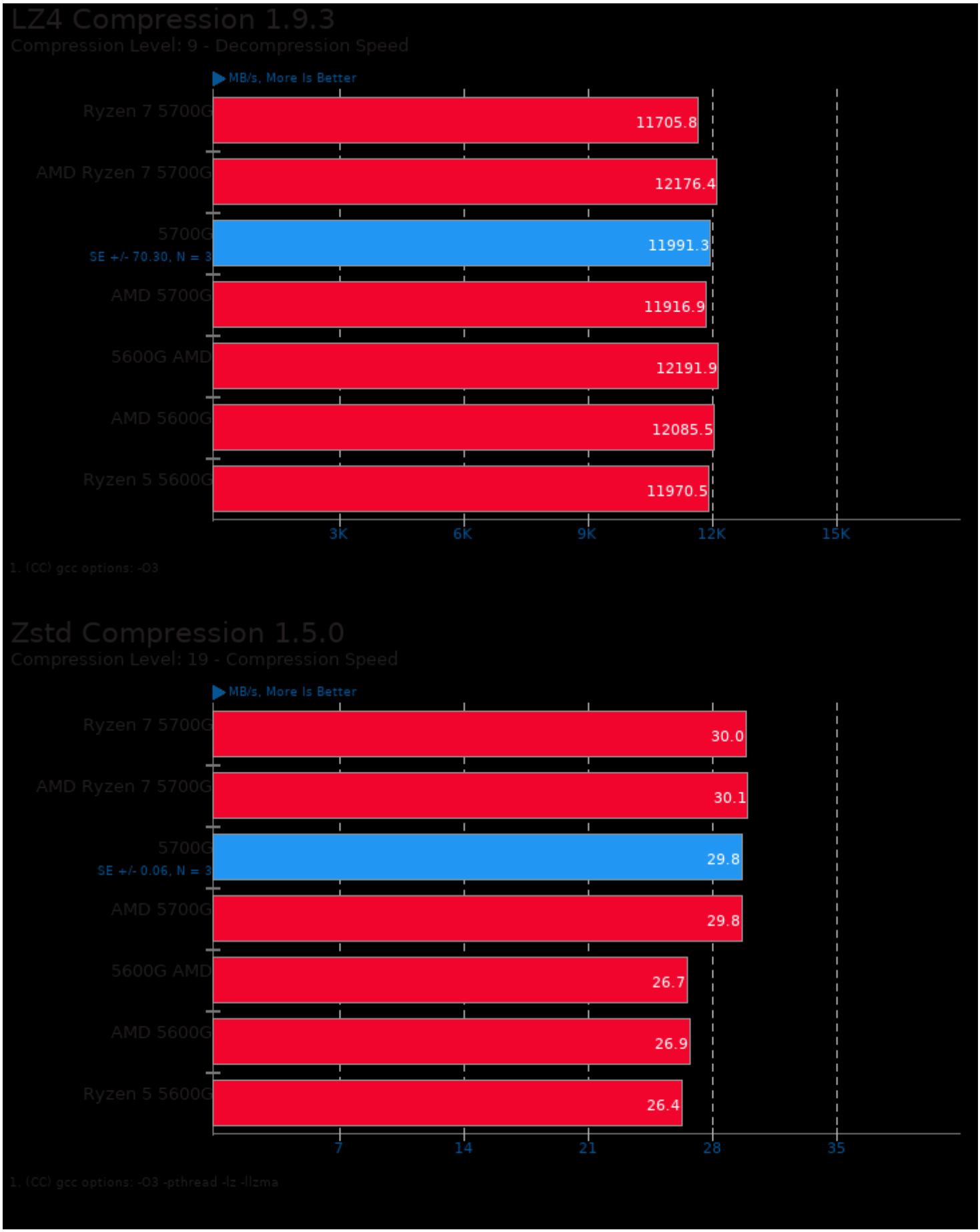

libgav1 0.16.3
Video Input: Summer Nature 1080p
FPS, More Is Better
Ryzen 7 5700G
217.29
AMD Ryzen 7 5700G
214.72
5700G
SE +/- 0.48, N = 3
218.39
AMD 5700G
219.08
5600G AMD
212.39
AMD 5600G
214.59
Ryzen 5 5600G
216.35
50
100
150
200
250
1. (CXX) g++ options: -O3 -lpthread -lrt
libgav1 0.16.3
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
Ryzen 7 5700G
60.36
AMD Ryzen 7 5700G
60.51
5700G
SE +/- 0.13, N = 3
60.91
AMD 5700G
61.41
5600G AMD
54.36
AMD 5600G
55.43
Ryzen 5 5600G
55.69
14
28
42
56
70
1. (CXX) g++ options: -O3 -lpthread -lrt

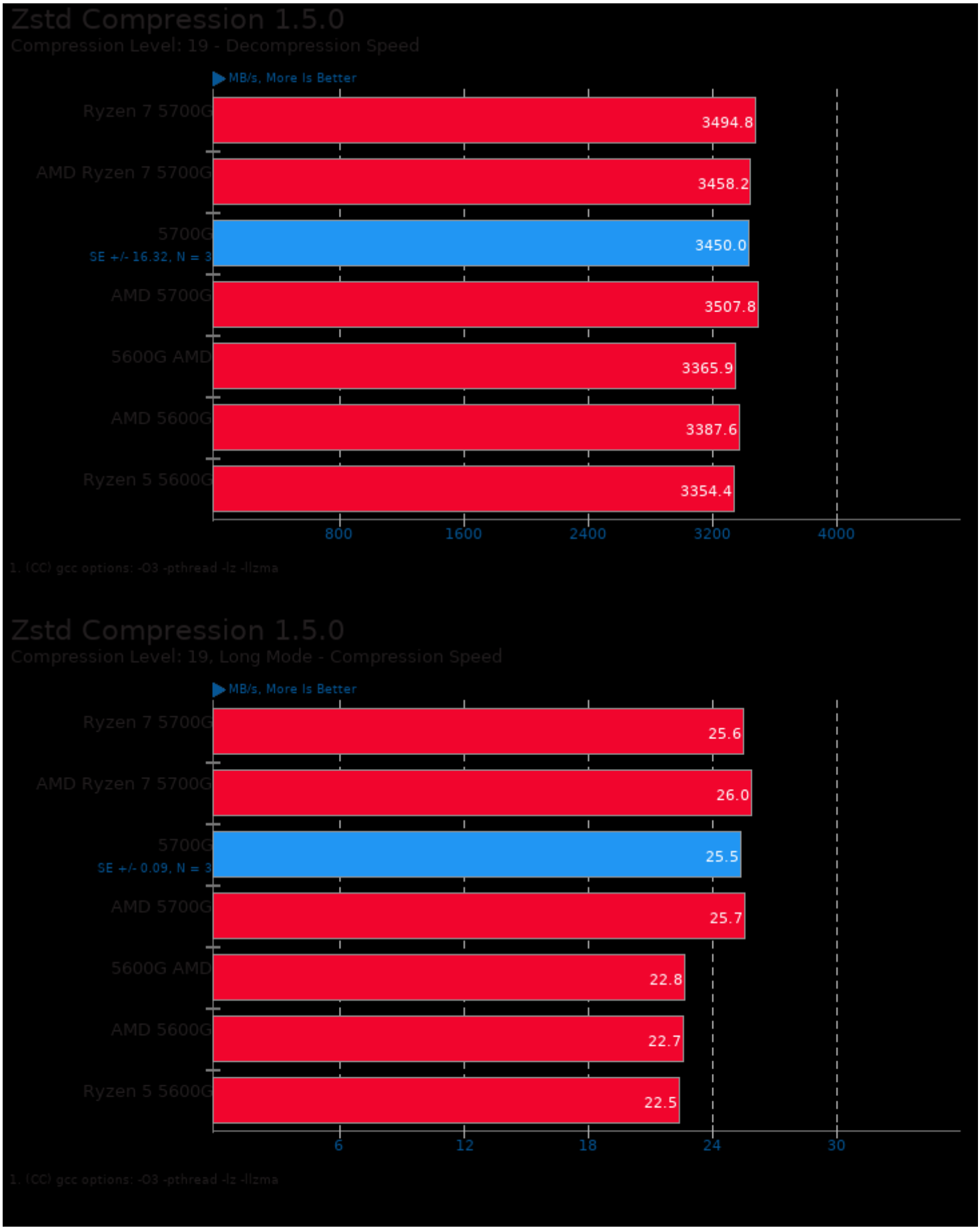

Chia Blockchain VDF 1.0.1
Test: Square Plain C++
IPS, More Is Better
Ryzen 7 5700G
205800
AMD Ryzen 7 5700G
206400
5700G
SE +/- 351.19, N = 3
204600
AMD 5700G
206600
5600G AMD
197600
AMD 5600G
196500
Ryzen 5 5600G
195900
40K
80K
120K
160K
200K
1. (CXX) g++ options: -flto -no-pie -lgmpxx -lgmp -lboost_system -pthread

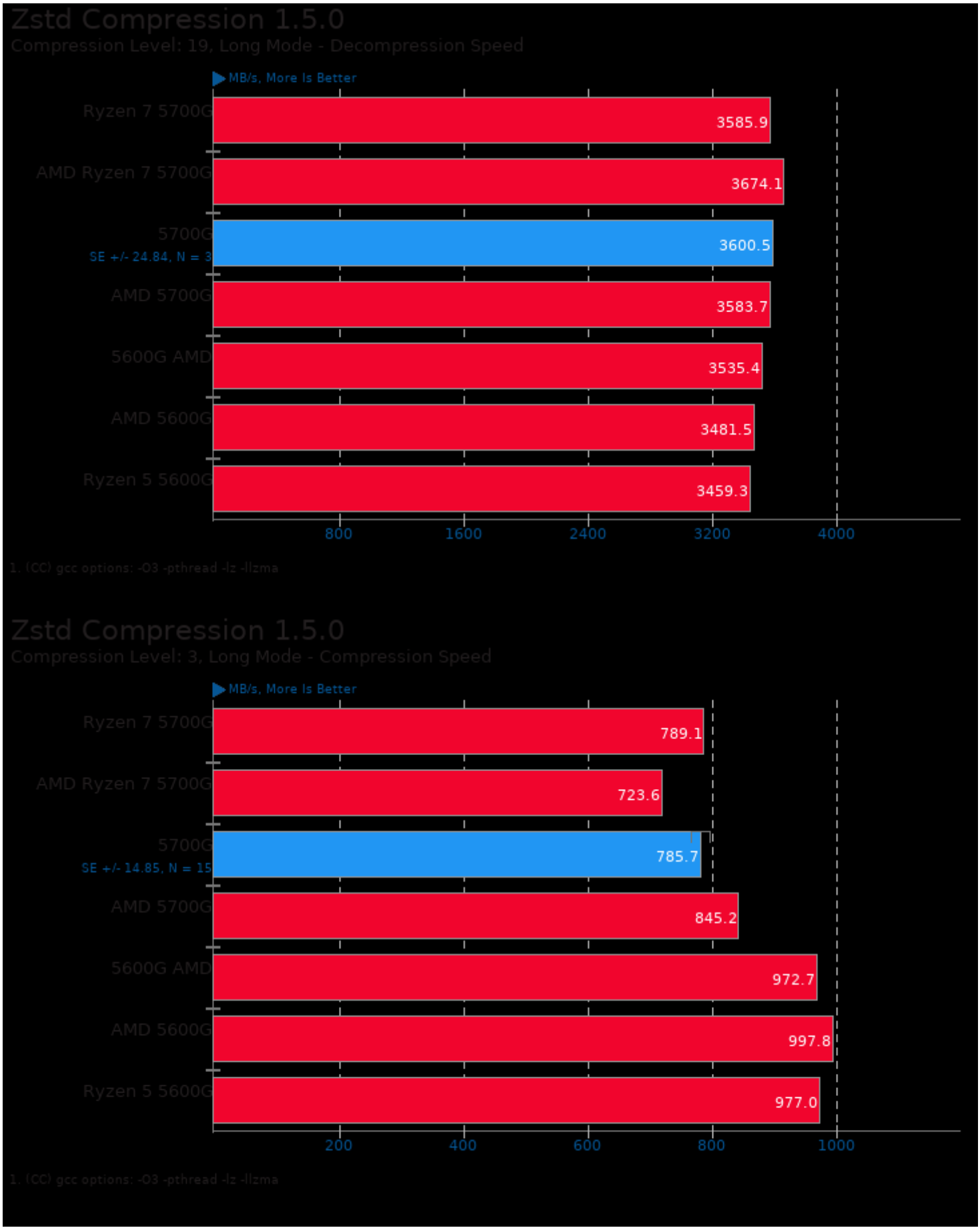

LZ4 Compression 1.9.3
Compression Level: 3 - Compression Speed
MB/s, More Is Better
Ryzen 7 5700G
64.50
AMD Ryzen 7 5700G
70.67
5700G
SE +/- 0.84, N = 4
68.38
AMD 5700G
67.44
5600G AMD
64.90
AMD 5600G
64.54
Ryzen 5 5600G
62.71
16
32
48
64
80
1. (CC) gcc options: -O3


LZ4 Compression 1.9.3
Compression Level: 3 - Decompression Speed
MB/s, More Is Better
Ryzen 7 5700G
11264.9
AMD Ryzen 7 5700G
12276.7
5700G
SE +/- 118.89, N = 4
11792.8
AMD 5700G
11330.2
5600G AMD
11950.0
AMD 5600G
11994.0
Ryzen 5 5600G
11562.6
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3

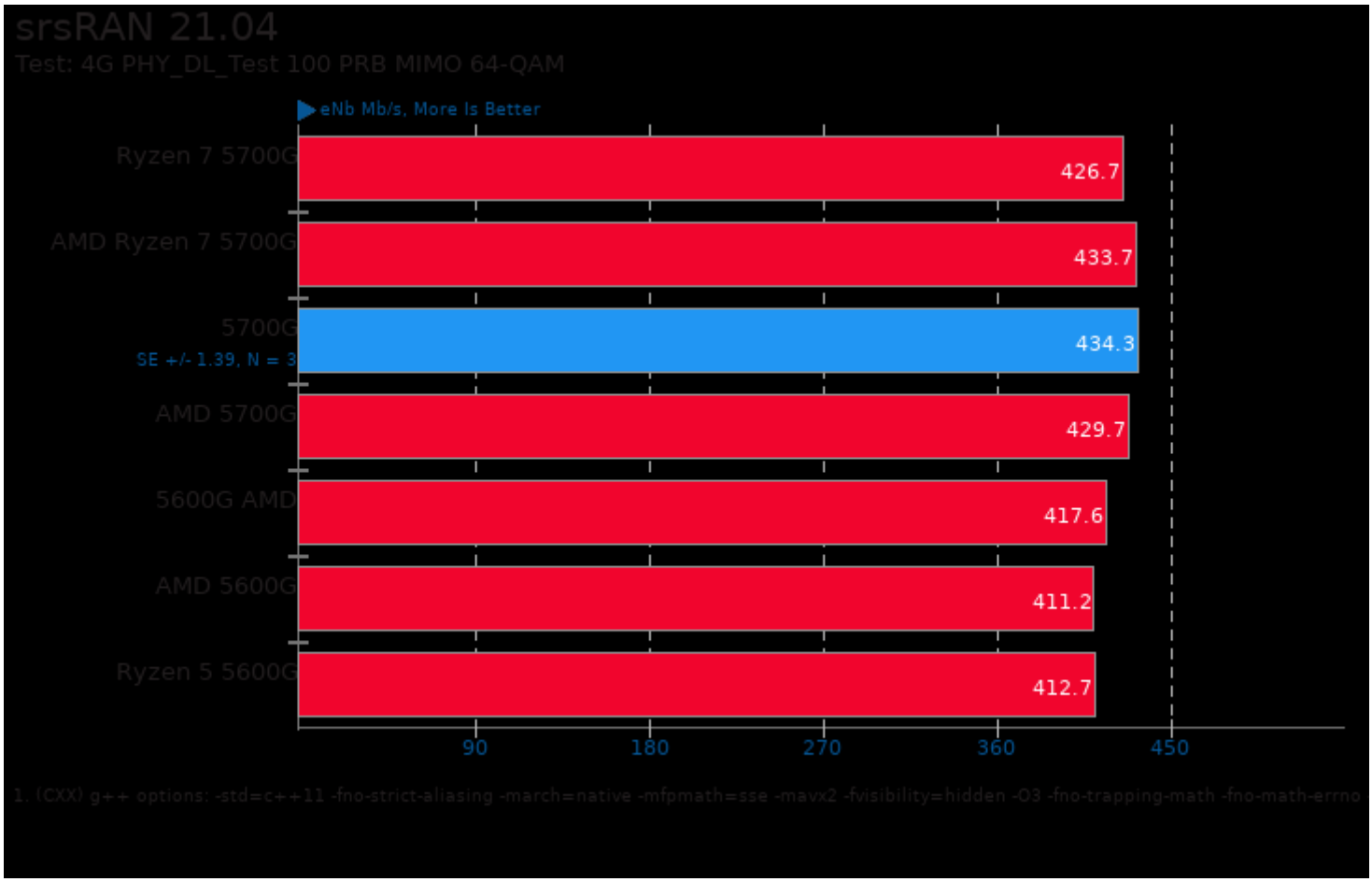

LZ4 Compression 1.9.3
Compression Level: 9 - Compression Speed
MB/s, More Is Better
Ryzen 7 5700G
64.22
AMD Ryzen 7 5700G
65.64
5700G
SE +/- 0.96, N = 3
67.06
AMD 5700G
65.23
5600G AMD
53.91
AMD 5600G
64.80
Ryzen 5 5600G
62.56
15
30
45
60
75
1. (CC) gcc options: -O3

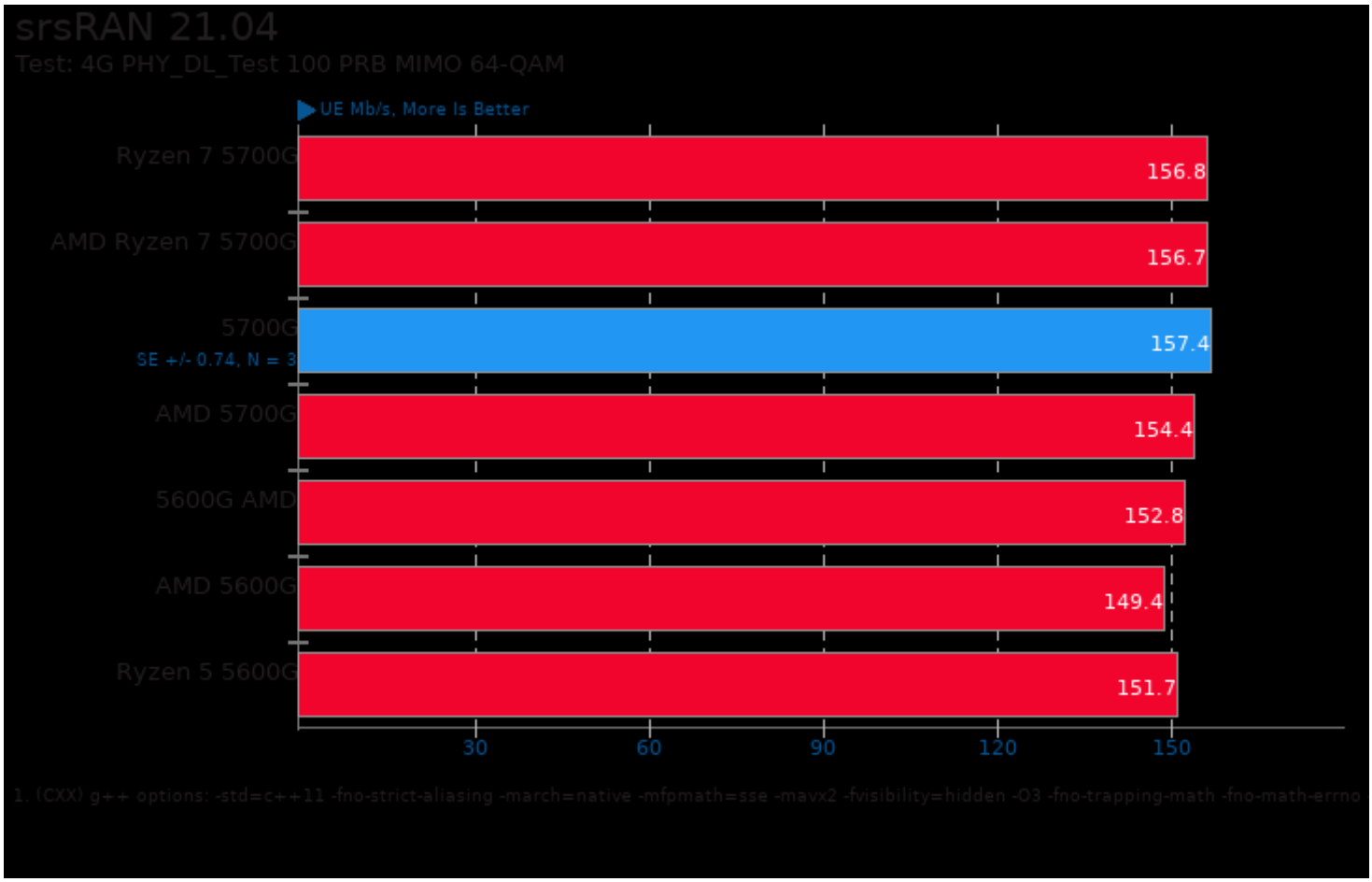

LZ4 Compression 1.9.3
Compression Level: 9 - Decompression Speed
MB/s, More Is Better
Ryzen 7 5700G
11705.8
AMD Ryzen 7 5700G
12176.4
5700G
SE +/- 70.30, N = 3
11991.3
AMD 5700G
11916.9
5600G AMD
12191.9
AMD 5600G
12085.5
Ryzen 5 5600G
11970.5
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3
Zstd Compression 1.5.0
Compression Level: 19 - Compression Speed
MB/s, More Is Better
Ryzen 7 5700G
30.0
AMD Ryzen 7 5700G
30.1
5700G
SE +/- 0.06, N = 3
29.8
AMD 5700G
29.8
5600G AMD
26.7
AMD 5600G
26.9
Ryzen 5 5600G
26.4
7
14
21
28
35
1. (CC) gcc options: -O3 -pthread -lz -llzma

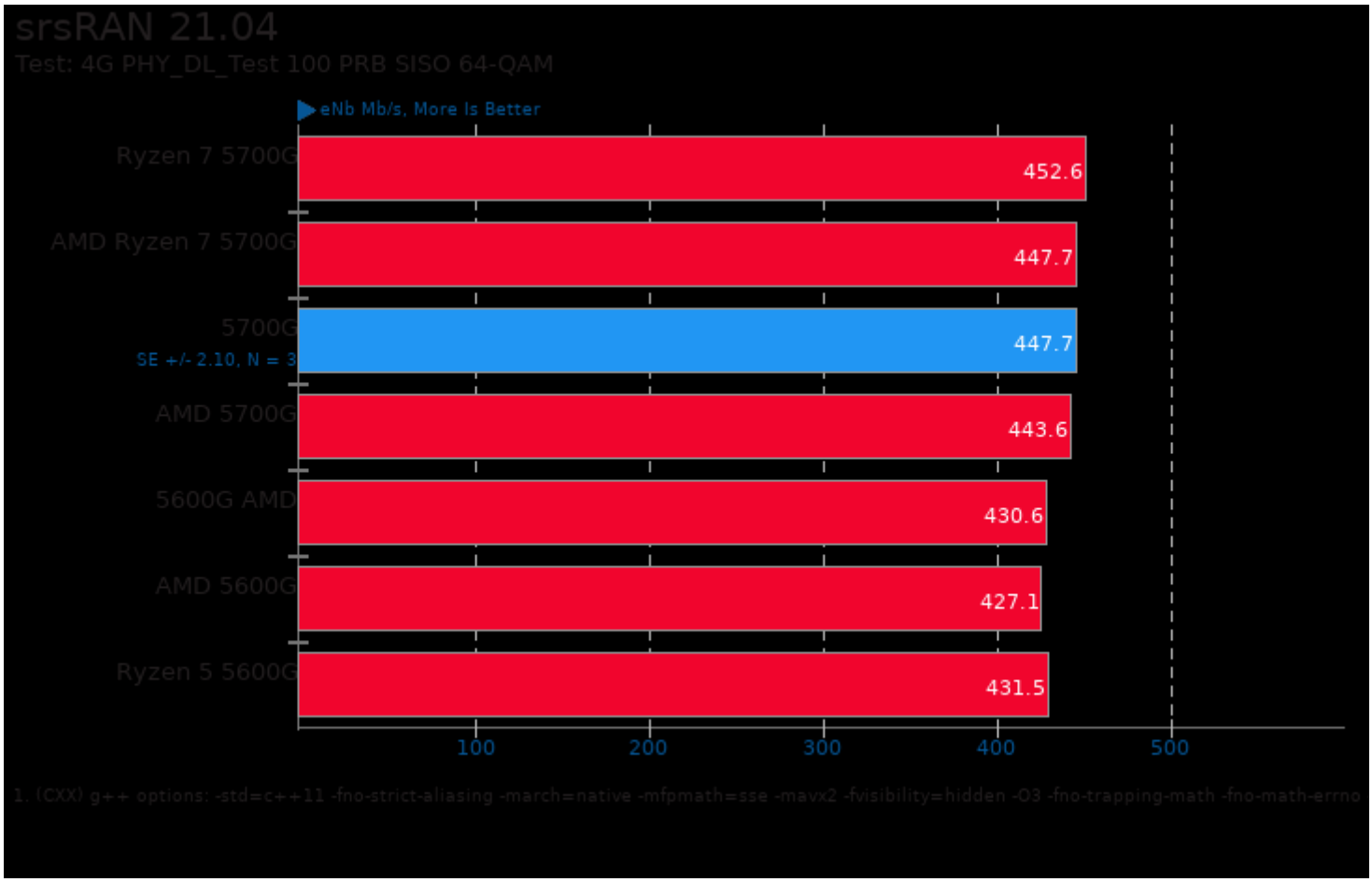

Zstd Compression 1.5.0
Compression Level: 19 - Decompression Speed
MB/s, More Is Better
Ryzen 7 5700G
3494.8
AMD Ryzen 7 5700G
3458.2
5700G
SE +/- 16.32, N = 3
3450.0
AMD 5700G
3507.8
5600G AMD
3365.9
AMD 5600G
3387.6
Ryzen 5 5600G
3354.4
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Compression Speed
MB/s, More Is Better
Ryzen 7 5700G
25.6
AMD Ryzen 7 5700G
26.0
5700G
SE +/- 0.09, N = 3
25.5
AMD 5700G
25.7
5600G AMD
22.8
AMD 5600G
22.7
Ryzen 5 5600G
22.5
6
12
18
24
30
1. (CC) gcc options: -O3 -pthread -lz -llzma

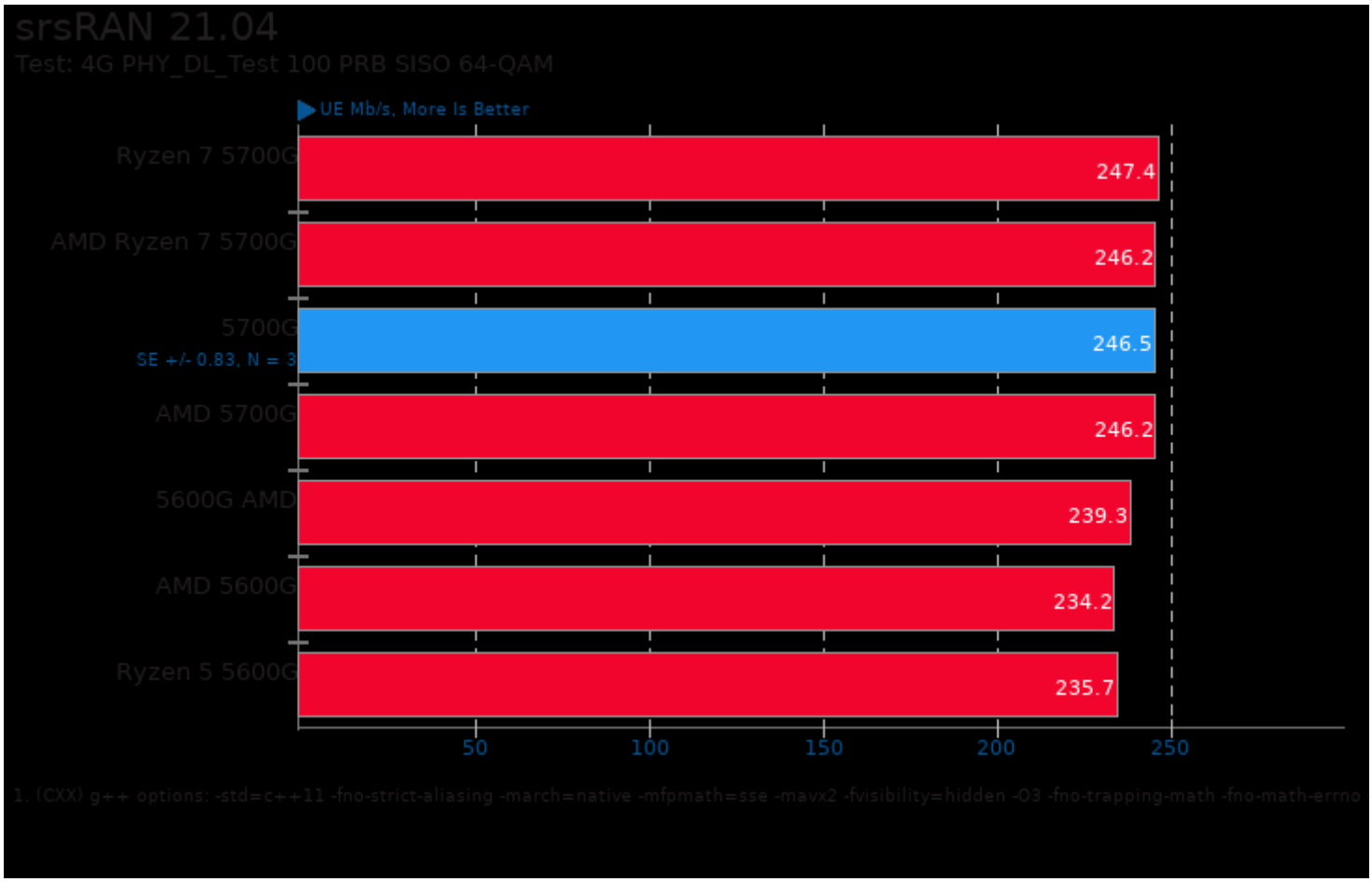

Zstd Compression 1.5.0
Compression Level: 19, Long Mode - Decompression Speed
MB/s, More Is Better
Ryzen 7 5700G
3585.9
AMD Ryzen 7 5700G
3674.1
5700G
SE +/- 24.84, N = 3
3600.5
AMD 5700G
3583.7
5600G AMD
3535.4
AMD 5600G
3481.5
Ryzen 5 5600G
3459.3
800
1600
2400
3200
4000
1. (CC) gcc options: -O3 -pthread -lz -llzma
Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Compression Speed
MB/s, More Is Better
Ryzen 7 5700G
789.1
AMD Ryzen 7 5700G
723.6
5700G
SE +/- 14.85, N = 15
785.7
AMD 5700G
845.2
5600G AMD
972.7
AMD 5600G
997.8
Ryzen 5 5600G
977.0
200
400
600
800
1000
1. (CC) gcc options: -O3 -pthread -lz -llzma

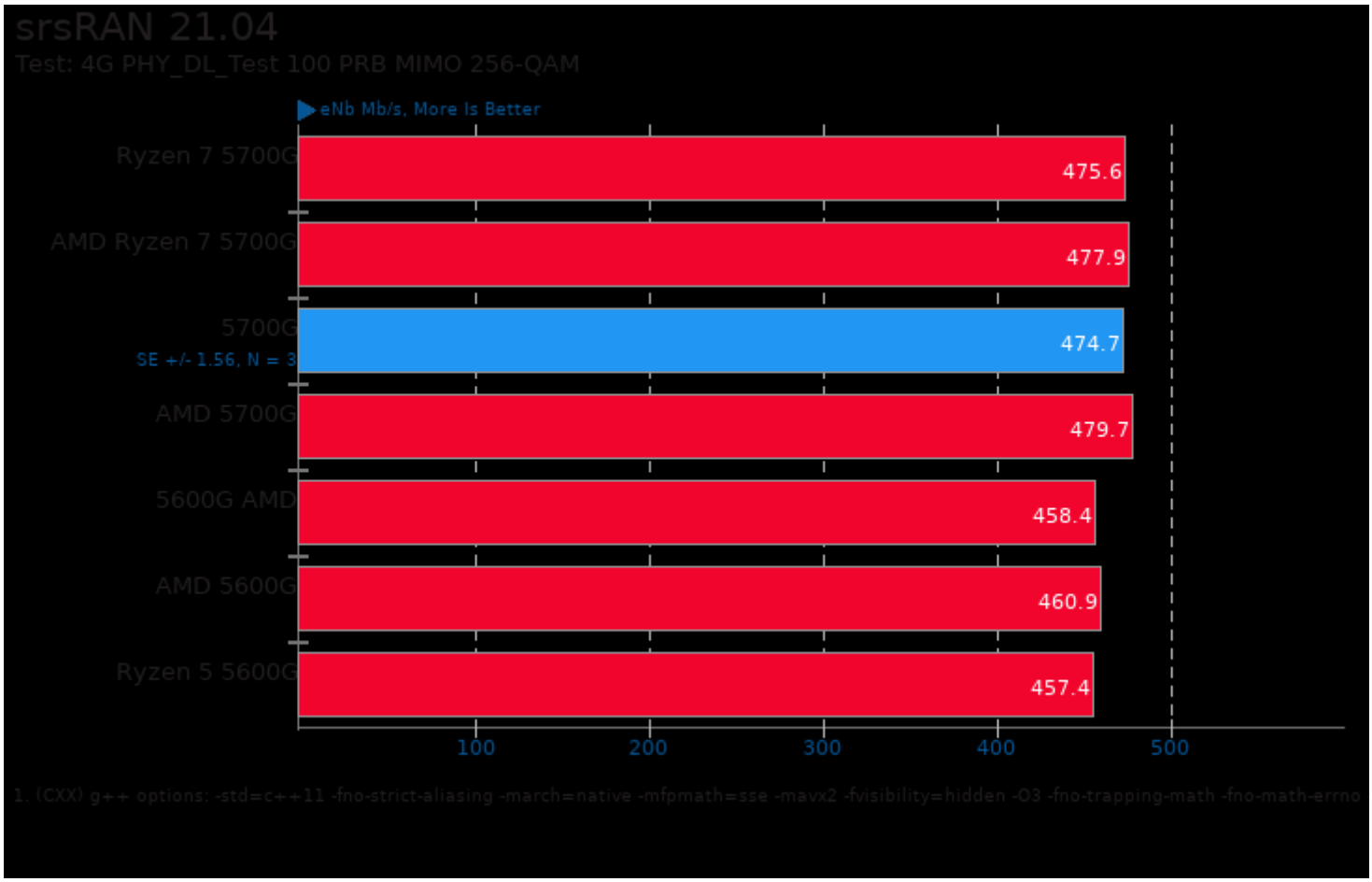

Zstd Compression 1.5.0
Compression Level: 3, Long Mode - Decompression Speed
MB/s, More Is Better
Ryzen 7 5700G
4446.4
AMD Ryzen 7 5700G
4431.8
5700G
SE +/- 18.06, N = 15
4402.3
AMD 5700G
4393.9
5600G AMD
4327.1
AMD 5600G
4321.7
Ryzen 5 5600G
4312.8
1000
2000
3000
4000
5000
1. (CC) gcc options: -O3 -pthread -lz -llzma
srsRAN 21.04
Test: OFDM_Test
Samples / Second, More Is Better
Ryzen 7 5700G
153300000
AMD Ryzen 7 5700G
157400000
5700G
SE +/- 1369103.52, N = 3
155666667
AMD 5700G
152500000
5600G AMD
148400000
AMD 5600G
143600000
Ryzen 5 5600G
149700000
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

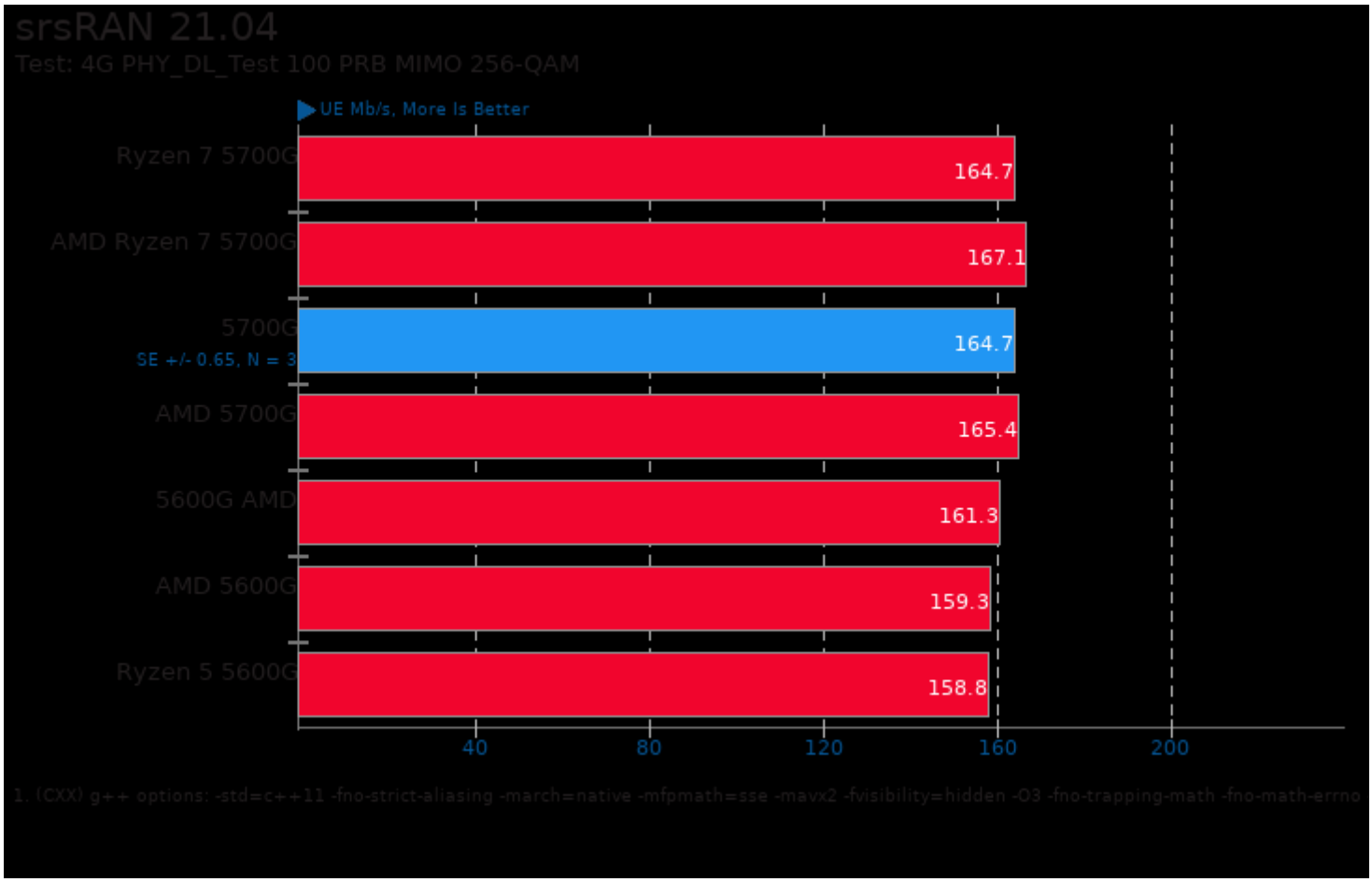

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
426.7
AMD Ryzen 7 5700G
433.7
5700G
SE +/- 1.39, N = 3
434.3
AMD 5700G
429.7
5600G AMD
417.6
AMD 5600G
411.2
Ryzen 5 5600G
412.7
90
180
270
360
450
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

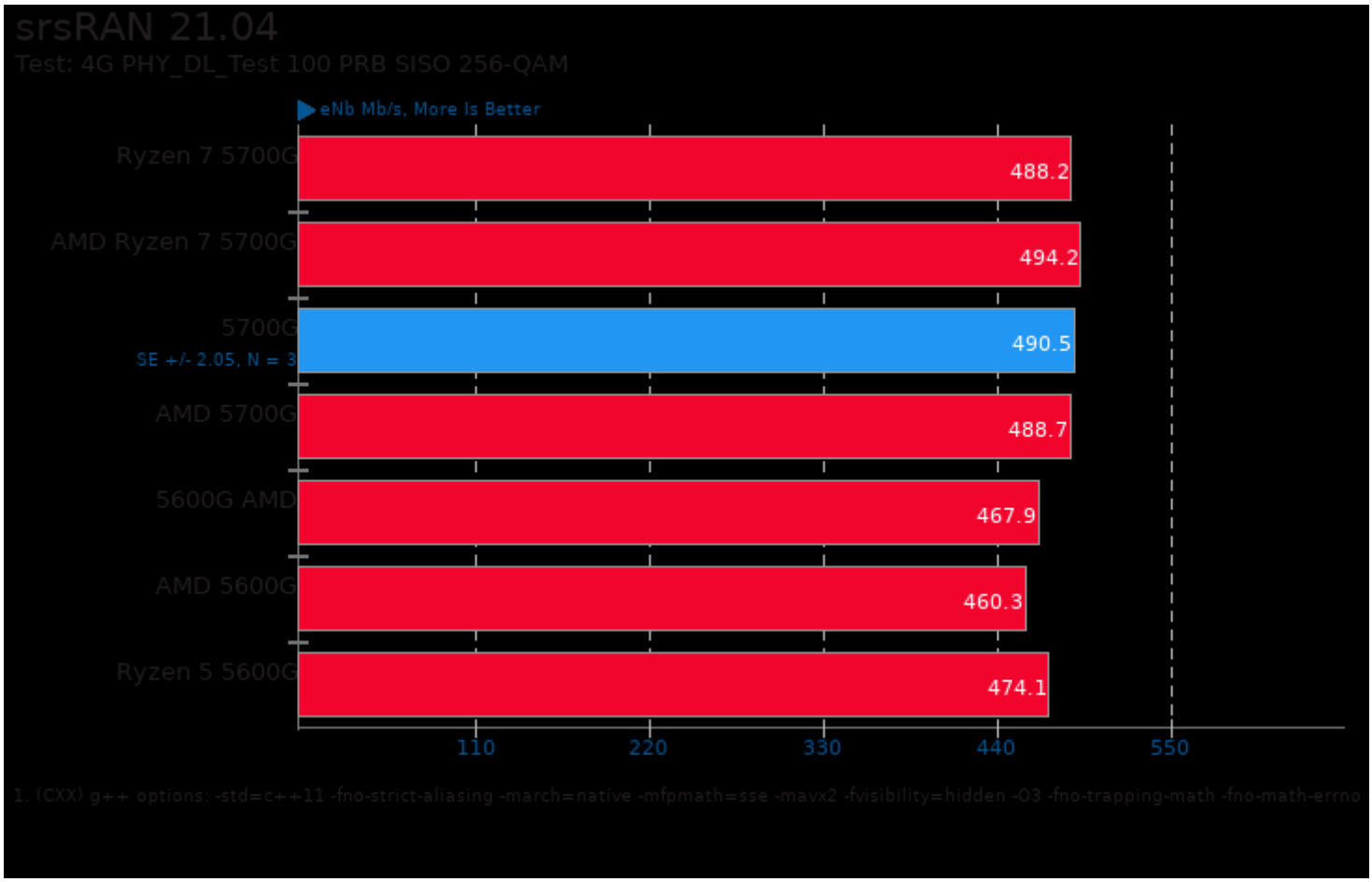

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 64-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
156.8
AMD Ryzen 7 5700G
156.7
5700G
SE +/- 0.74, N = 3
157.4
AMD 5700G
154.4
5600G AMD
152.8
AMD 5600G
149.4
Ryzen 5 5600G
151.7
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

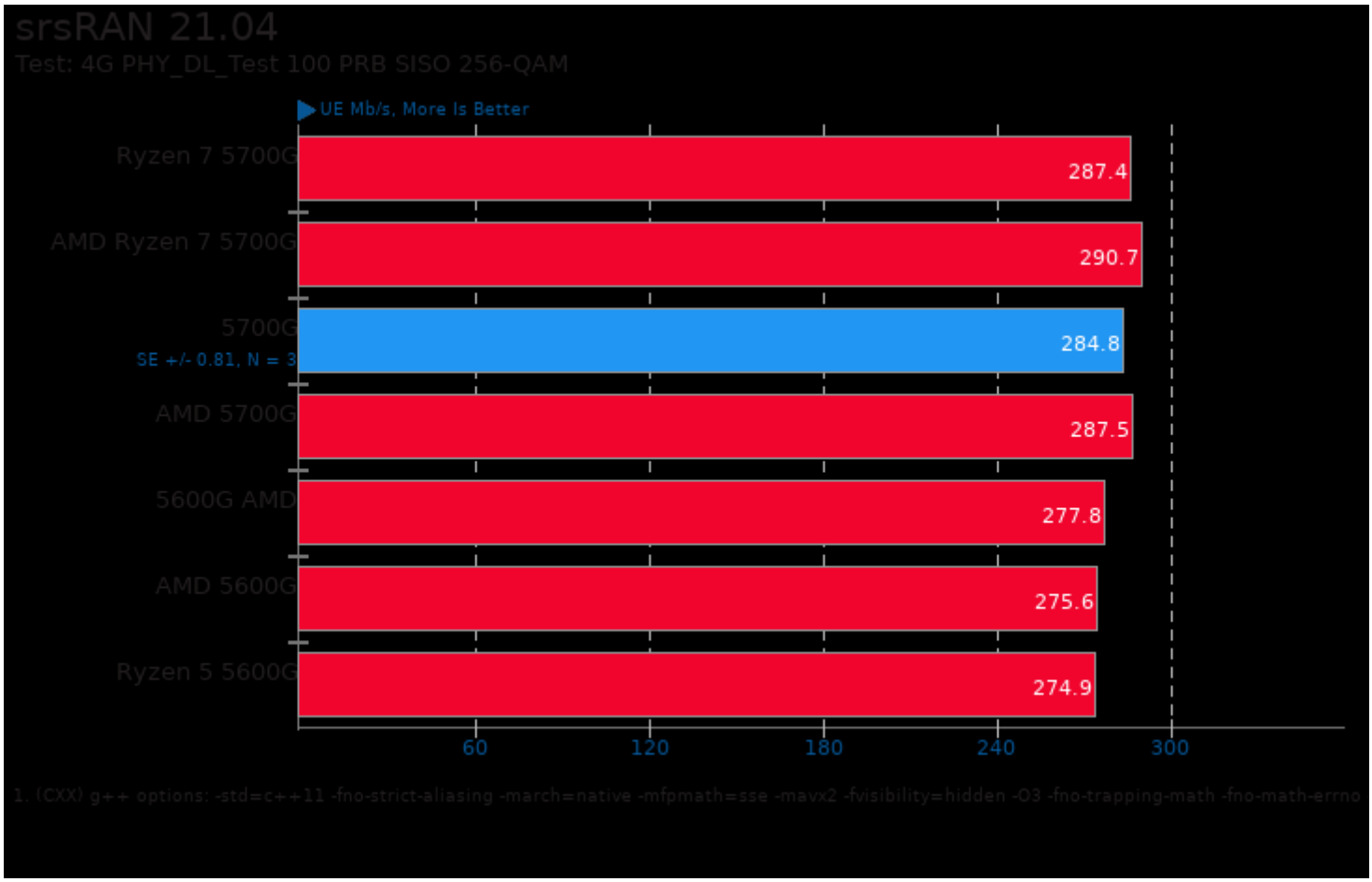

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
452.6
AMD Ryzen 7 5700G
447.7
5700G
447.7
SE +/- 2.10, N = 3
AMD 5700G
443.6
5600G AMD
430.6
AMD 5600G
427.1
Ryzen 5 5600G
431.5
100
200
300
400
500
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

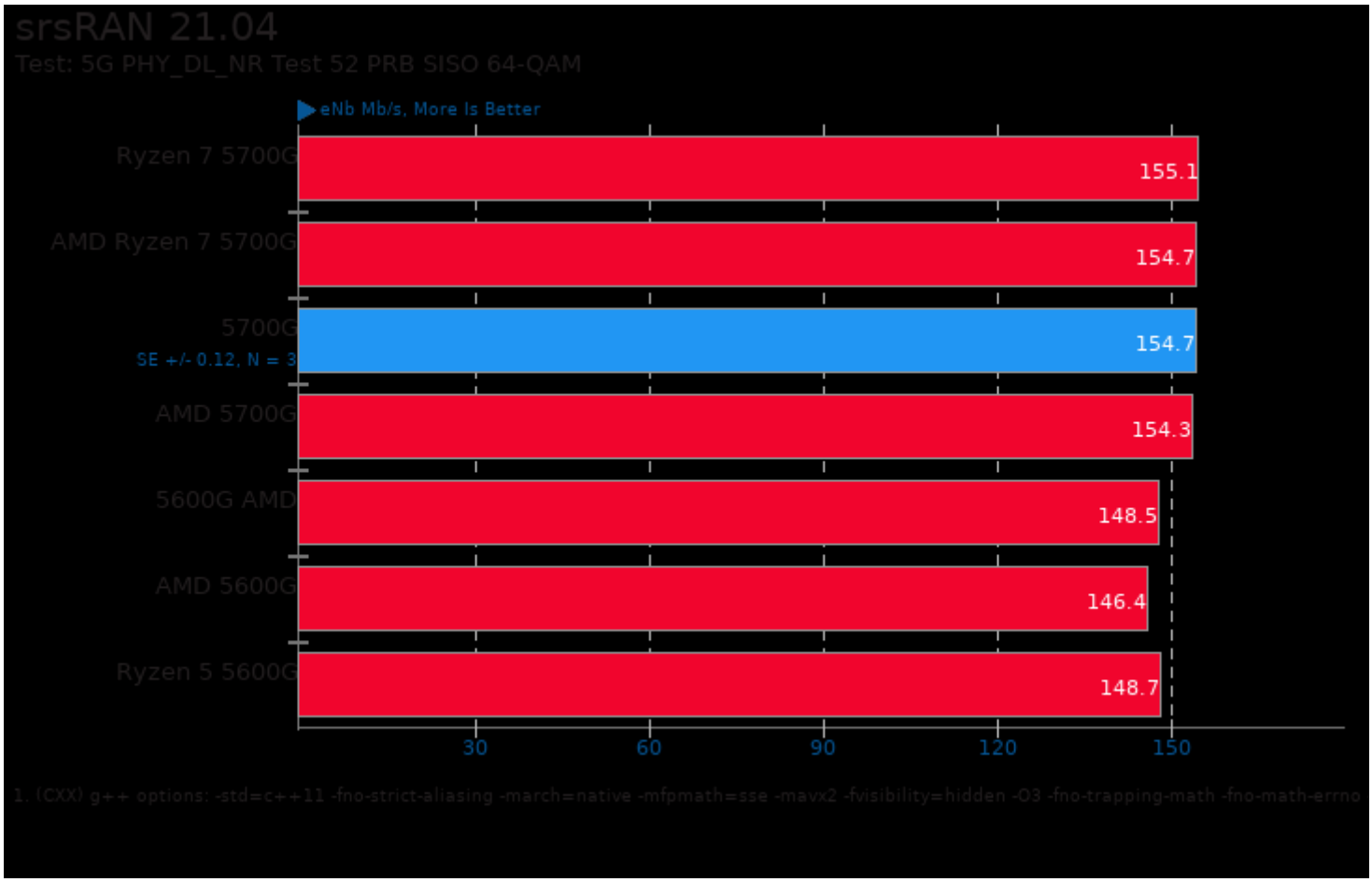

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 64-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
247.4
AMD Ryzen 7 5700G
246.2
5700G
SE +/- 0.83, N = 3
246.5
AMD 5700G
246.2
5600G AMD
239.3
AMD 5600G
234.2
Ryzen 5 5600G
235.7
50
100
150
200
250
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

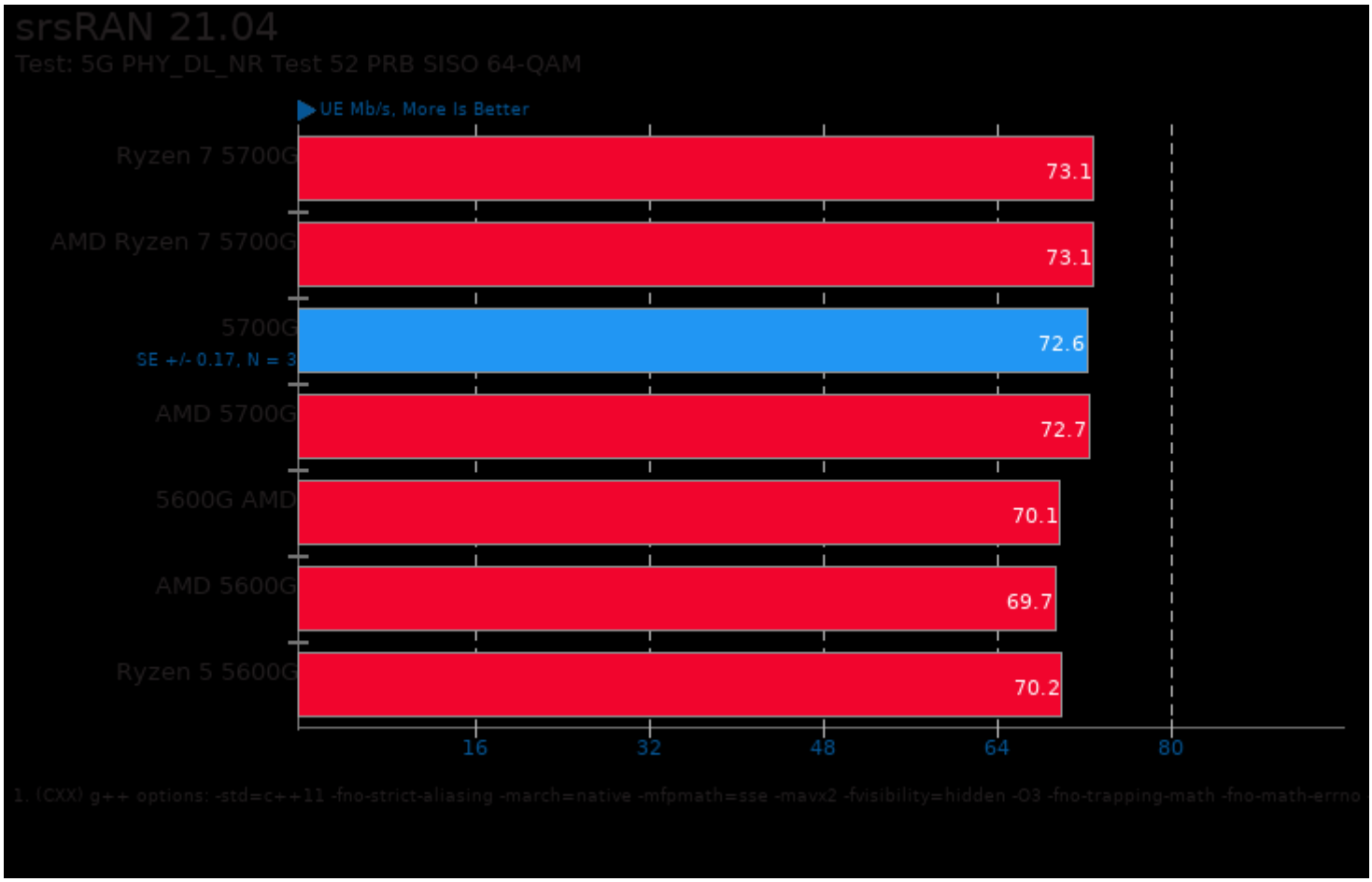

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
475.6
AMD Ryzen 7 5700G
477.9
5700G
474.7
SE +/- 1.56, N = 3
AMD 5700G
479.7
5600G AMD
458.4
AMD 5600G
460.9
Ryzen 5 5600G
457.4
100
200
300
400
500
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

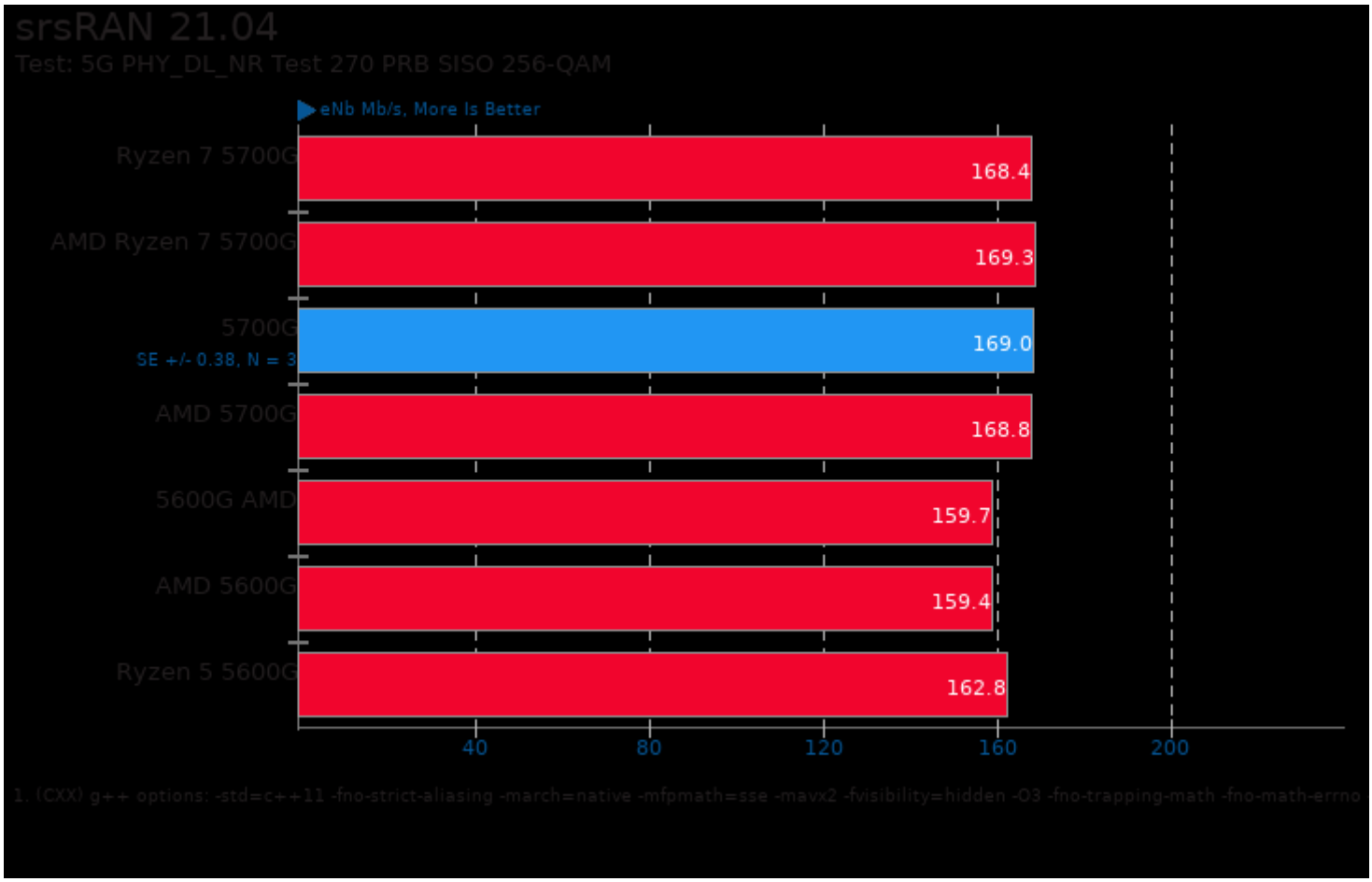

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB MIMO 256-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
164.7
AMD Ryzen 7 5700G
167.1
5700G
164.7
SE +/- 0.65, N = 3
AMD 5700G
165.4
5600G AMD
161.3
AMD 5600G
159.3
Ryzen 5 5600G
158.8
40
80
120
160
200
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

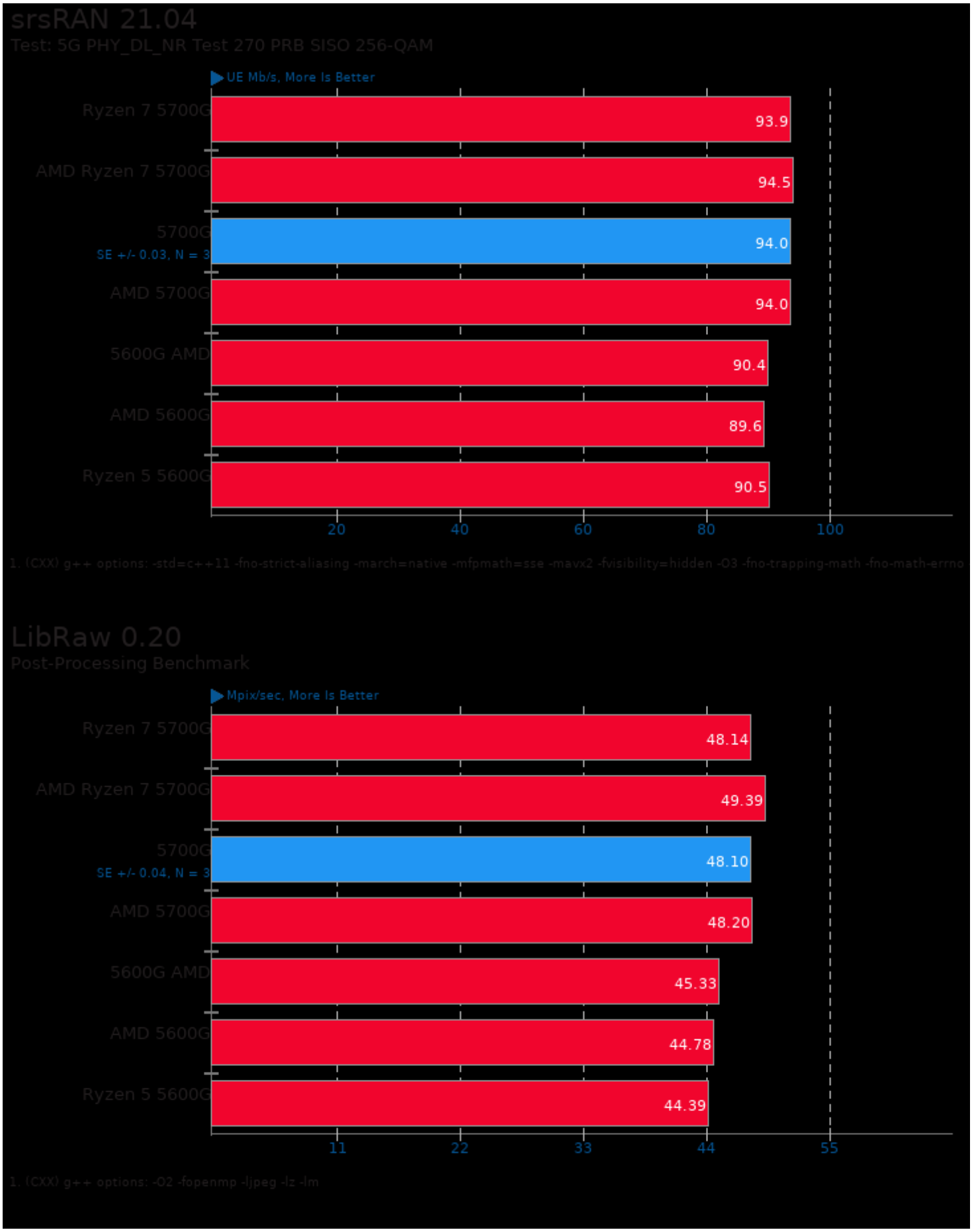

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
488.2
AMD Ryzen 7 5700G
494.2
5700G
490.5
SE +/- 2.05, N = 3
AMD 5700G
488.7
5600G AMD
467.9
AMD 5600G
460.3
Ryzen 5 5600G
474.1
110
220
330
440
550
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

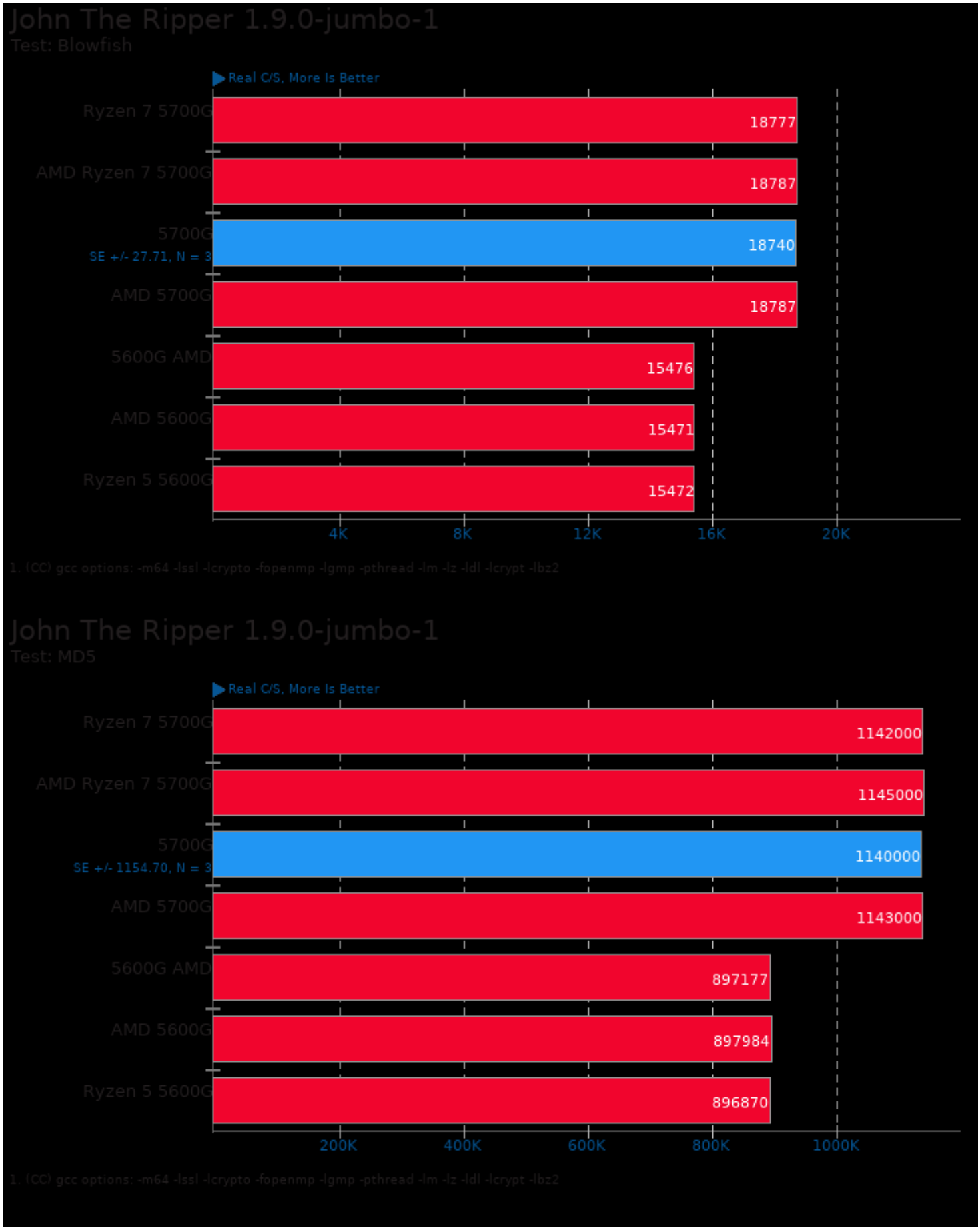

srsRAN 21.04
Test: 4G PHY_DL_Test 100 PRB SISO 256-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
287.4
AMD Ryzen 7 5700G
290.7
5700G
SE +/- 0.81, N = 3
284.8
AMD 5700G
287.5
5600G AMD
277.8
AMD 5600G
275.6
Ryzen 5 5600G
274.9
60
120
180
240
300
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

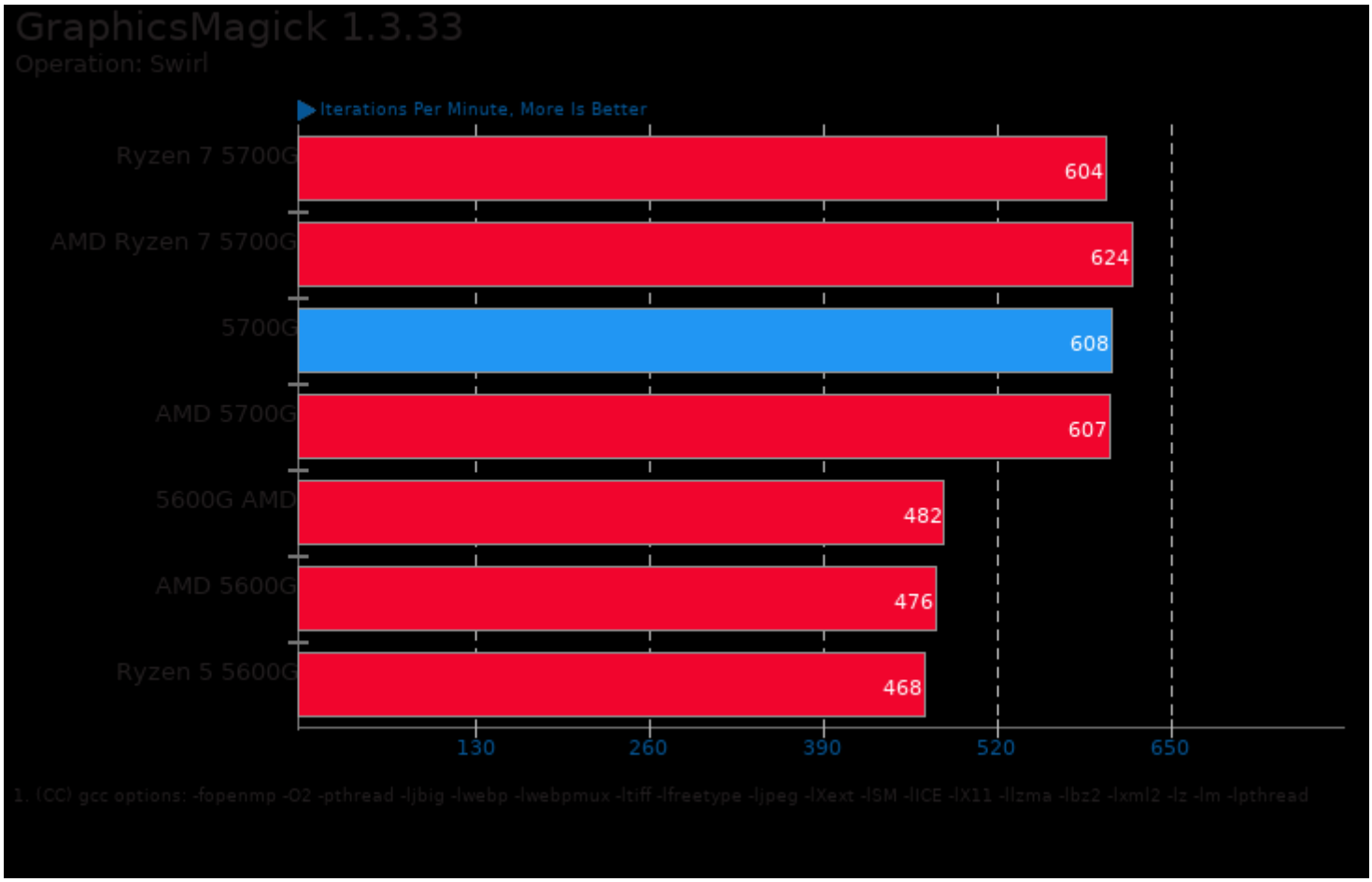

srsRAN 21.04
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
155.1
AMD Ryzen 7 5700G
154.7
5700G
SE +/- 0.12, N = 3
154.7
AMD 5700G
154.3
5600G AMD
148.5
AMD 5600G
146.4
Ryzen 5 5600G
148.7
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

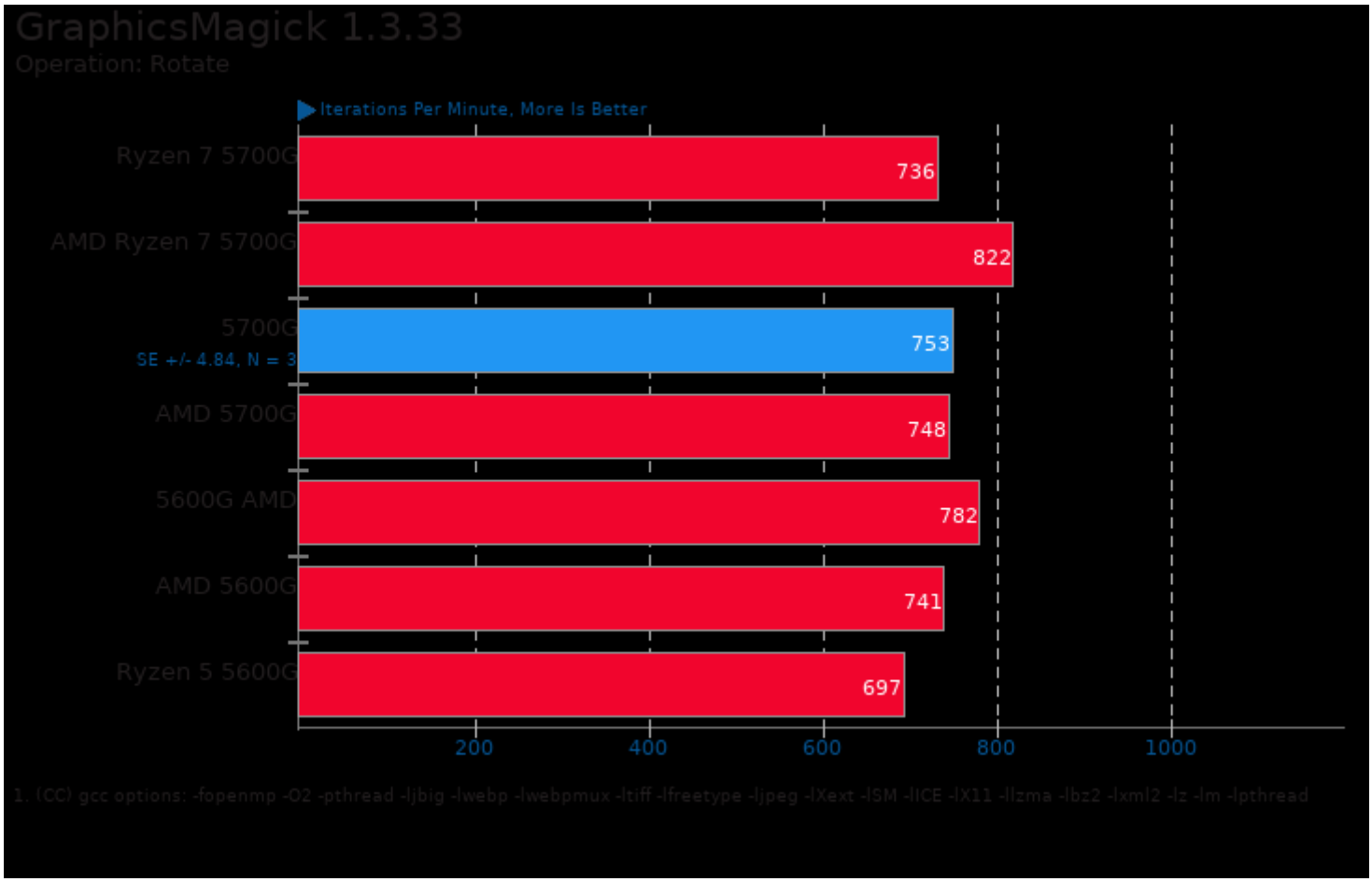

srsRAN 21.04
Test: 5G PHY_DL_NR Test 52 PRB SISO 64-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
AMD Ryzen 7 5700G
5700G
SE +/- 0.17, N = 3
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
73.1
73.1
72.6
72.7
70.1
69.7
70.2
16
32
48
64
80
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

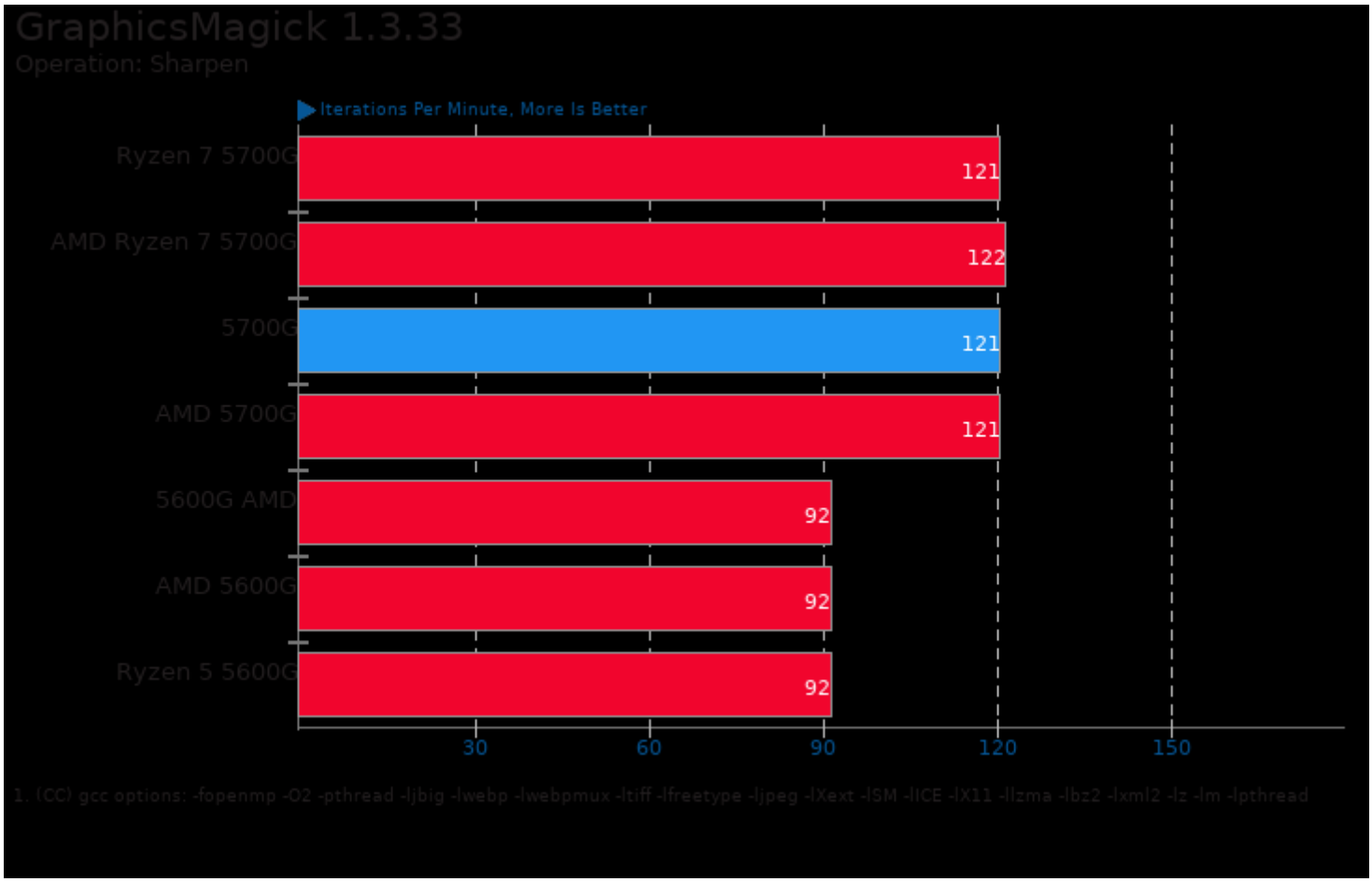

srsRAN 21.04
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM
eNb Mb/s, More Is Better
Ryzen 7 5700G
168.4
AMD Ryzen 7 5700G
169.3
5700G
SE +/- 0.38, N = 3
169.0
AMD 5700G
168.8
5600G AMD
159.7
AMD 5600G
159.4
Ryzen 5 5600G
162.8
40
80
120
160
200
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

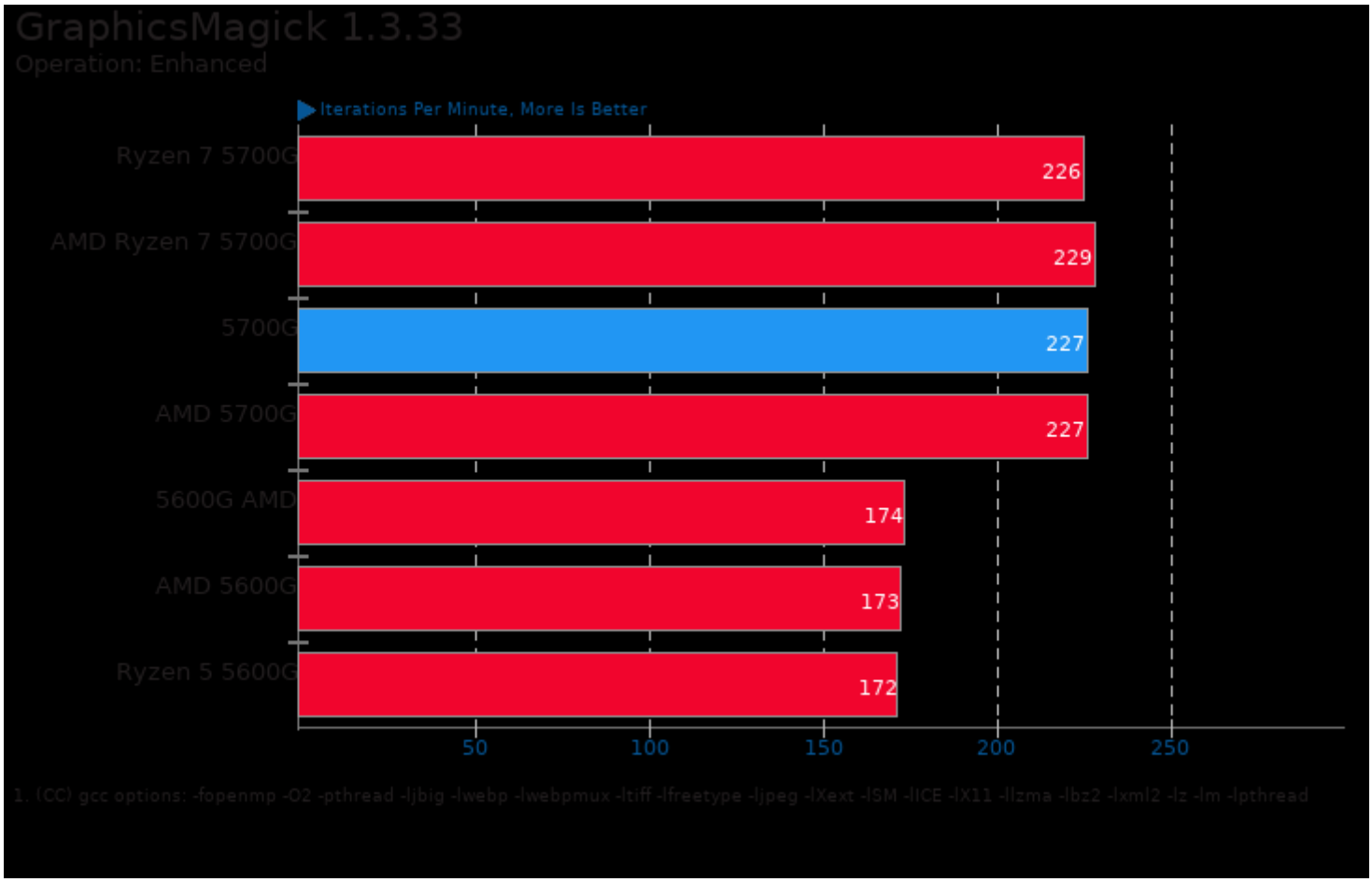

srsRAN 21.04
Test: 5G PHY_DL_NR Test 270 PRB SISO 256-QAM
UE Mb/s, More Is Better
Ryzen 7 5700G
93.9
AMD Ryzen 7 5700G
94.5
5700G
SE +/- 0.03, N = 3
94.0
AMD 5700G
94.0
5600G AMD
90.4
AMD 5600G
89.6
Ryzen 5 5600G
90.5
20
40
60
80
100
1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno
LibRaw 0.20
Post-Processing Benchmark
Mpix/sec, More Is Better
Ryzen 7 5700G
48.14
AMD Ryzen 7 5700G
49.39
5700G
SE +/- 0.04, N = 3
48.10
AMD 5700G
48.20
5600G AMD
45.33
AMD 5600G
44.78
Ryzen 5 5600G
44.39
11
22
33
44
55
1. (CXX) g++ options: -O2 -fopenmp -ljpeg -lz -lm

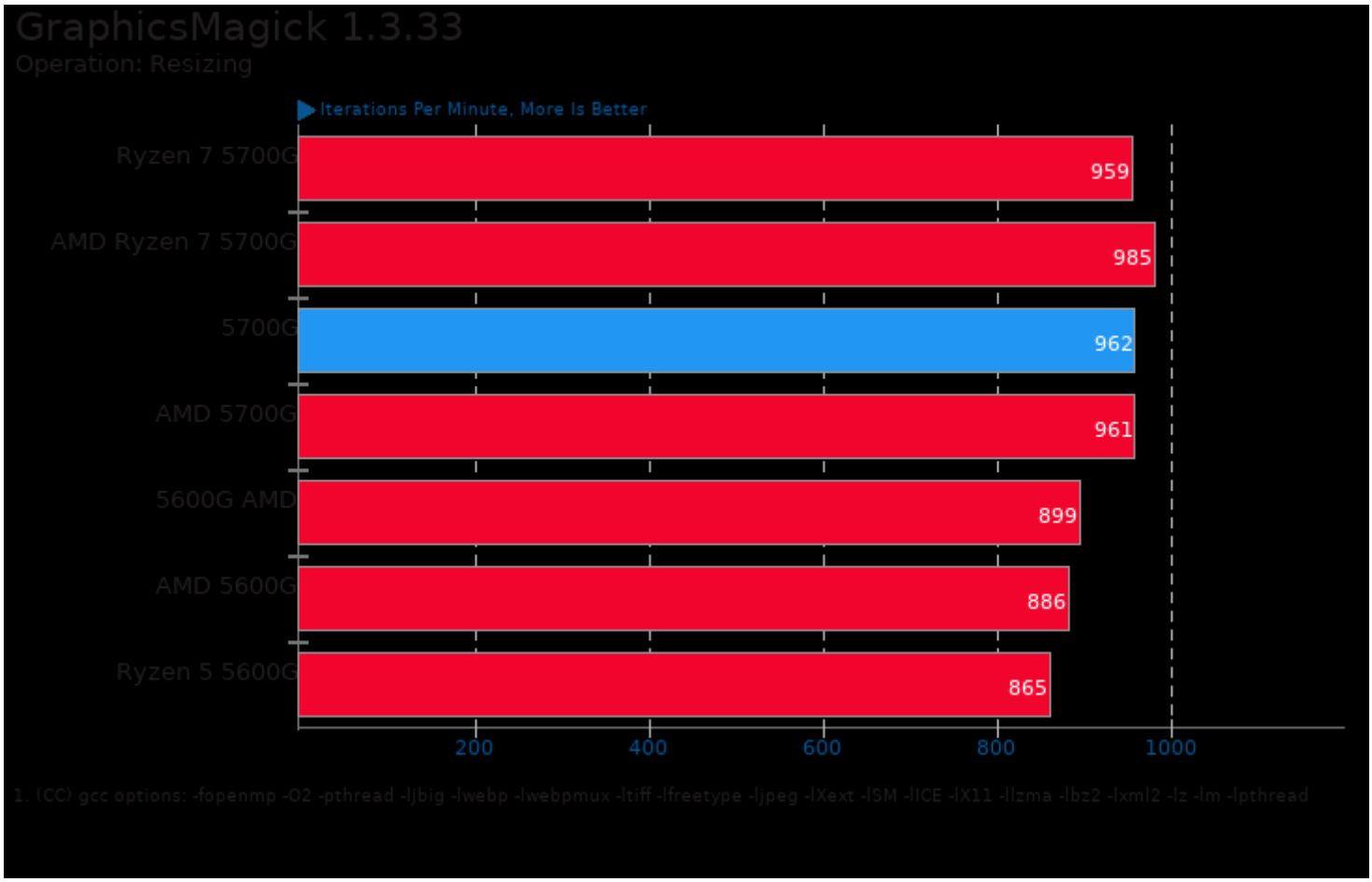

John The Ripper 1.9.0-jumbo-1
Test: Blowfish
Real C/S, More Is Better
Ryzen 7 5700G
18777
AMD Ryzen 7 5700G
18787
5700G
SE +/- 27.71, N = 3
18740
AMD 5700G
18787
5600G AMD
15476
AMD 5600G
15471
Ryzen 5 5600G
15472
4K
8K
12K
16K
20K
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2
John The Ripper 1.9.0-jumbo-1
Test: MD5
Real C/S, More Is Better
Ryzen 7 5700G
1142000
AMD Ryzen 7 5700G
1145000
5700G
SE +/- 1154.70, N = 3
1140000
AMD 5700G
1143000
5600G AMD
897177
AMD 5600G
897984
Ryzen 5 5600G
896870
200K
400K
600K
800K
1000K
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -lgmp -pthread -lm -lz -ldl -lcrypt -lbz2

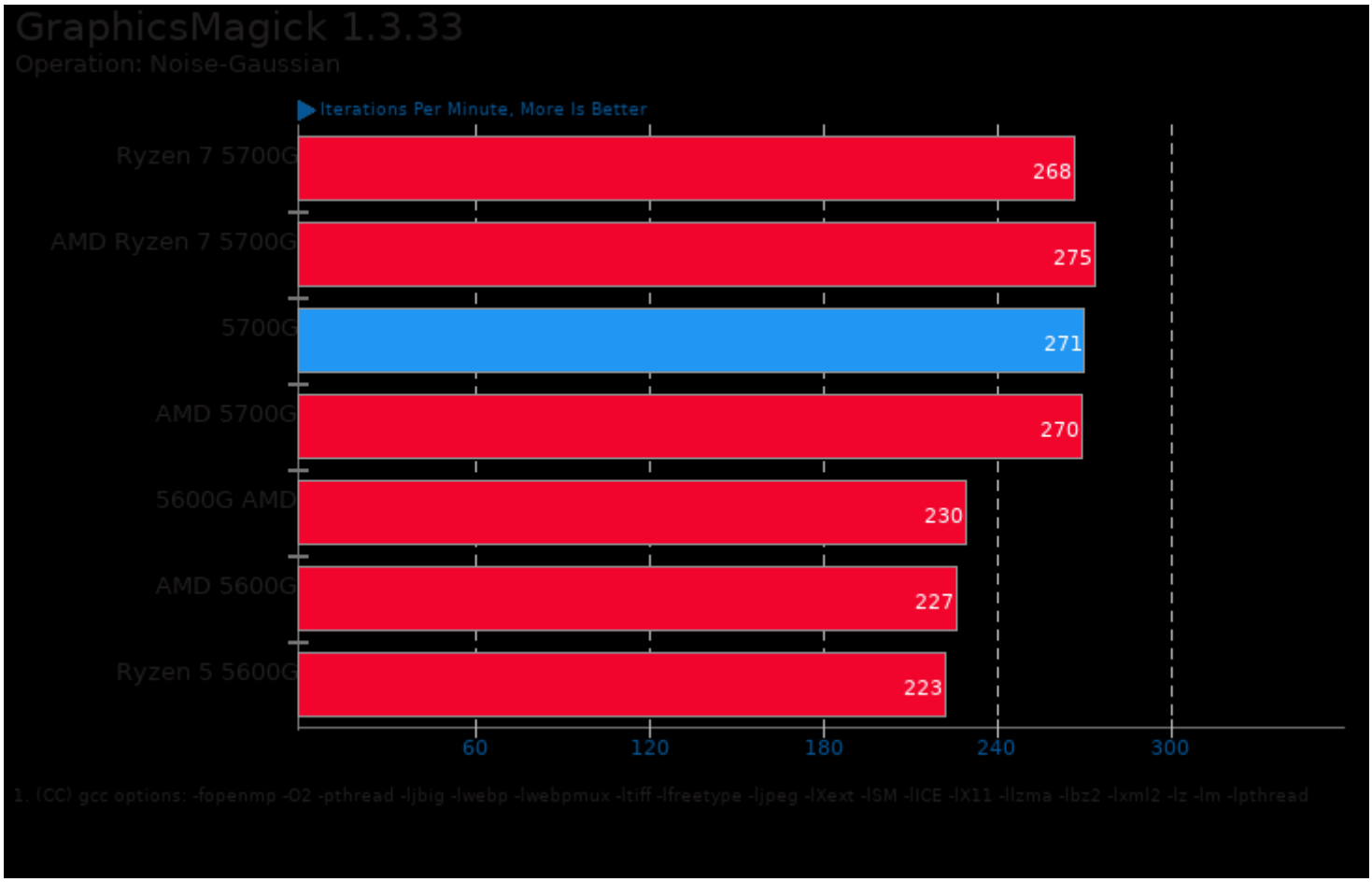

GraphicsMagick 1.3.33
Operation: Swirl
Iterations Per Minute, More Is Better
Ryzen 7 5700G
604
AMD Ryzen 7 5700G
624
5700G
608
AMD 5700G
607
5600G AMD
482
AMD 5600G
476
Ryzen 5 5600G
468
130
260
390
520
650
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread


GraphicsMagick 1.3.33
Operation: Rotate
Iterations Per Minute, More Is Better
Ryzen 7 5700G
736
AMD Ryzen 7 5700G
822
5700G
753
SE +/- 4.84, N = 3
AMD 5700G
748
5600G AMD
782
AMD 5600G
741
Ryzen 5 5600G
697
200
400
600
800
1000
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread


GraphicsMagick 1.3.33
Operation: Sharpen
Iterations Per Minute, More Is Better
Ryzen 7 5700G
121
AMD Ryzen 7 5700G
122
5700G
121
AMD 5700G
121
5600G AMD
92
AMD 5600G
92
Ryzen 5 5600G
92
30
60
90
120
150
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread

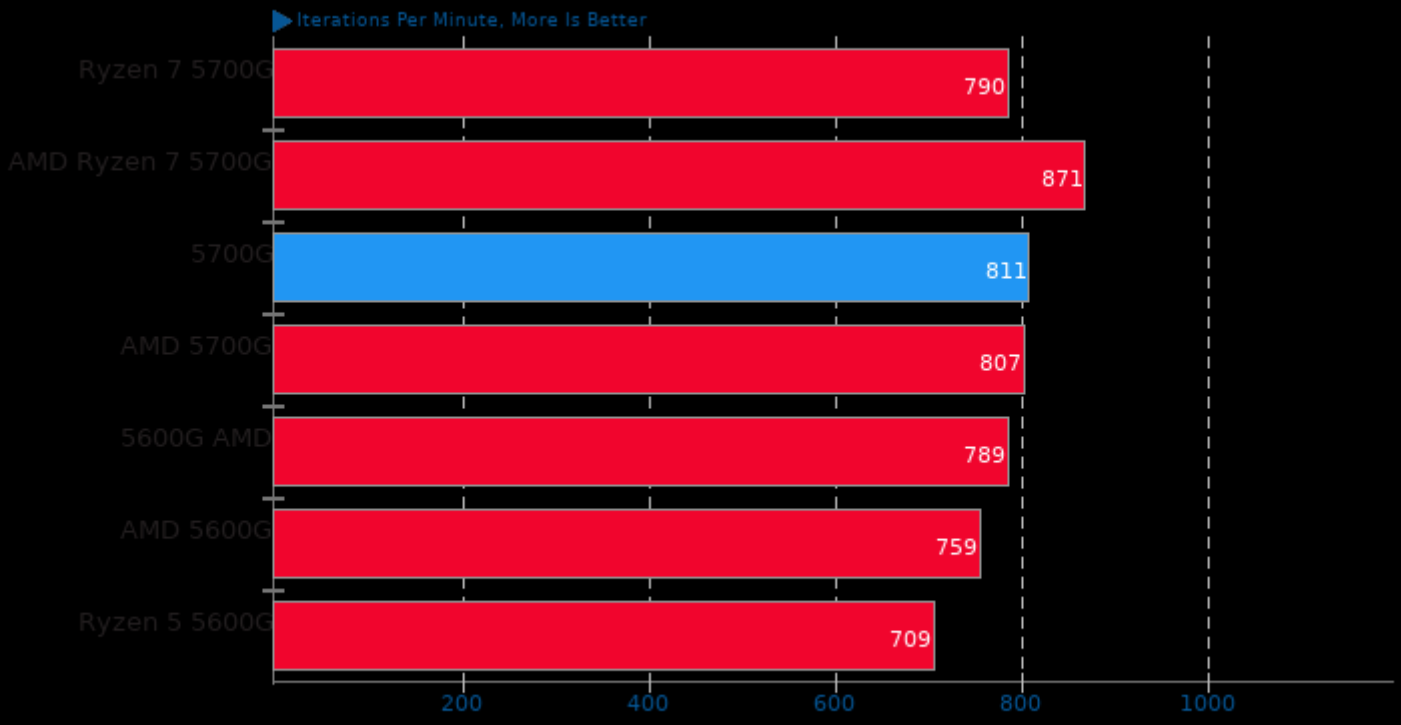

GraphicsMagick 1.3.33
Operation: Enhanced
Iterations Per Minute, More Is Better
Ryzen 7 5700G
226
AMD Ryzen 7 5700G
229
5700G
227
AMD 5700G
227
5600G AMD
174
AMD 5600G
173
Ryzen 5 5600G
172
50
100
150
200
250
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread


GraphicsMagick 1.3.33
Operation: Resizing
Iterations Per Minute, More Is Better
Ryzen 7 5700G
959
AMD Ryzen 7 5700G
985
5700G
962
AMD 5700G
961
5600G AMD
899
AMD 5600G
886
Ryzen 5 5600G
865
200
400
600
800
1000
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread


GraphicsMagick 1.3.33
Operation: Noise-Gaussian
Iterations Per Minute, More Is Better
Ryzen 7 5700G
AMD Ryzen 7 5700G
5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
268
275
271
270
230
227
223
60
120
180
240
300
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread

GraphicsMagick 1.3.33

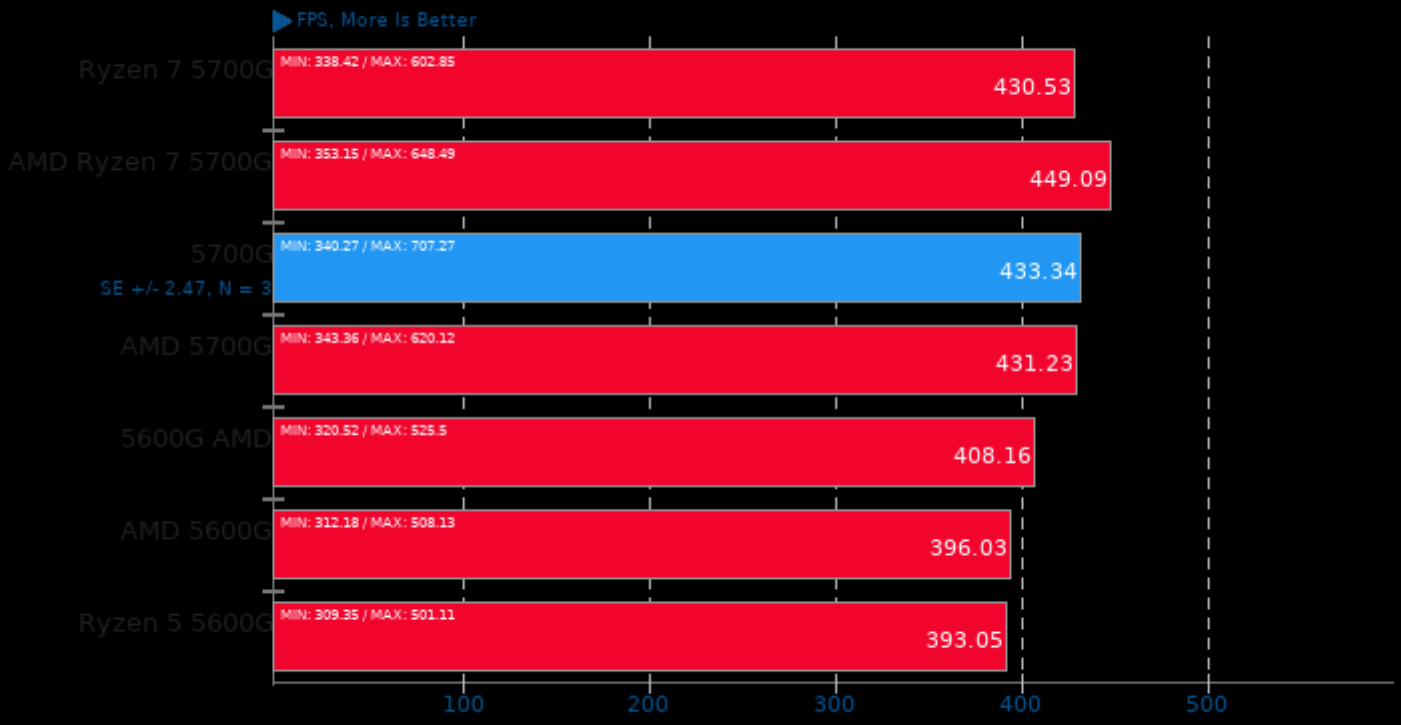
Operation: HWB Color Space



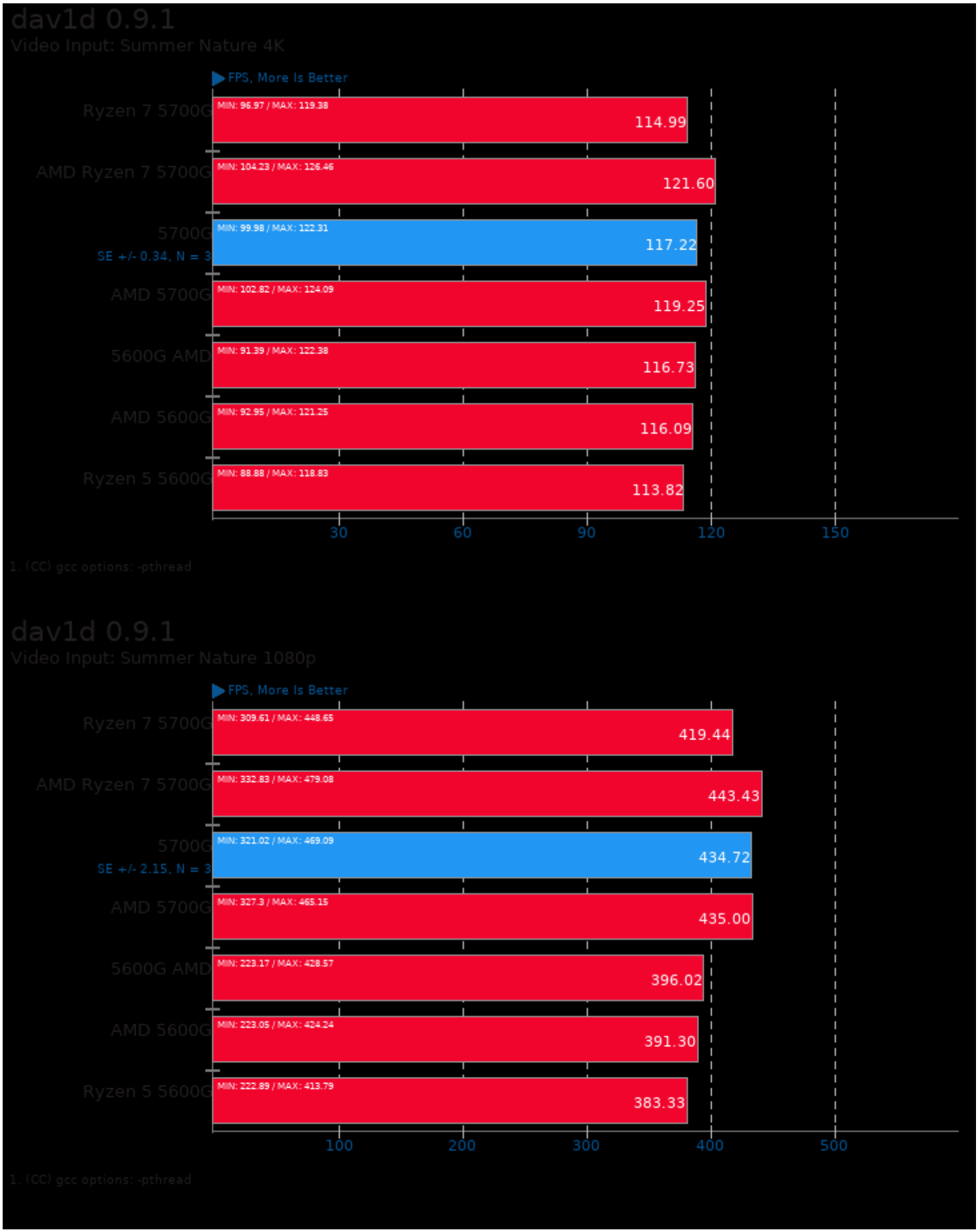
1. (CC) gcc options: -fopenmp -O2 -pthread -ljbig -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lm -lpthread

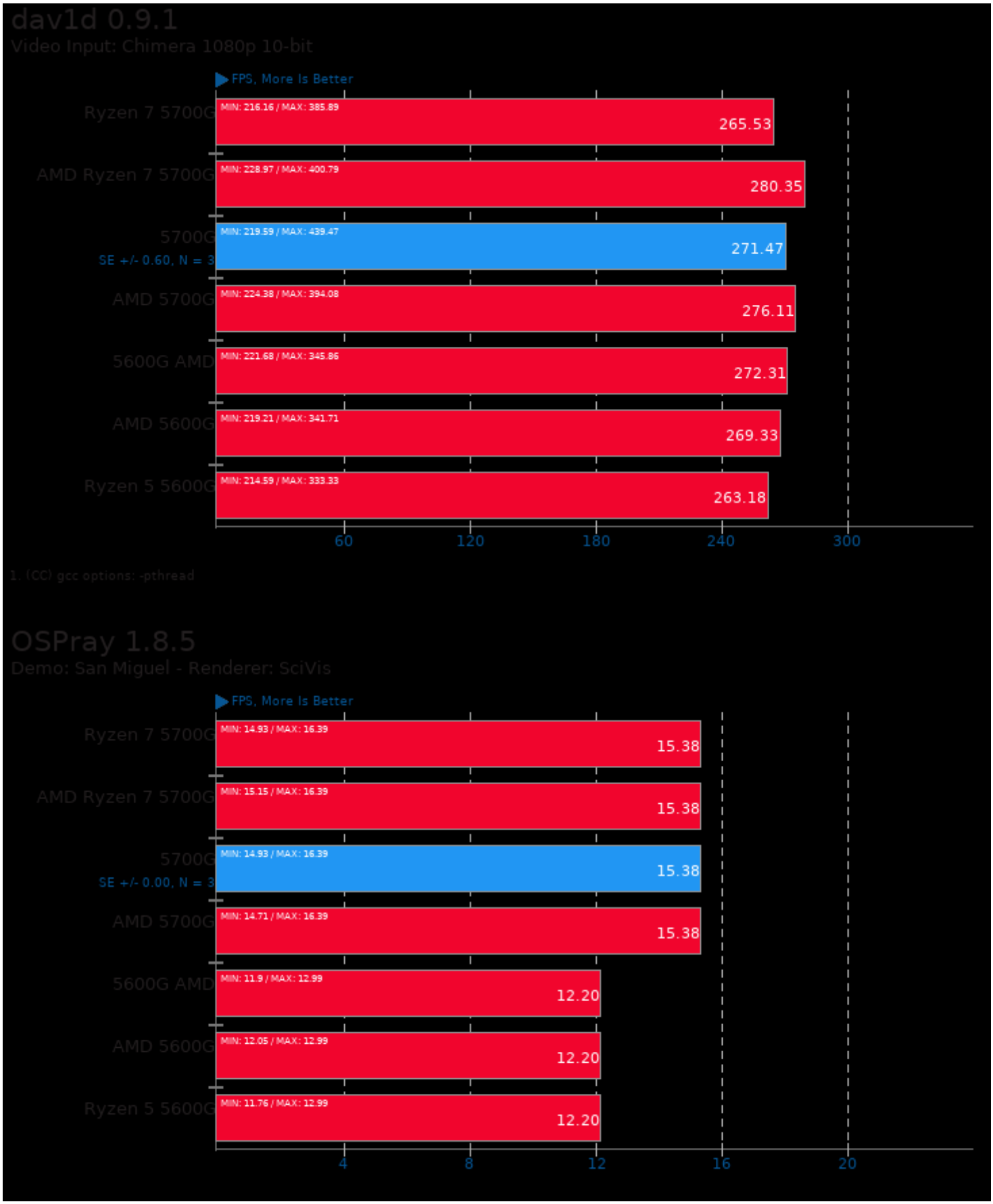
dav1d 0.9.1

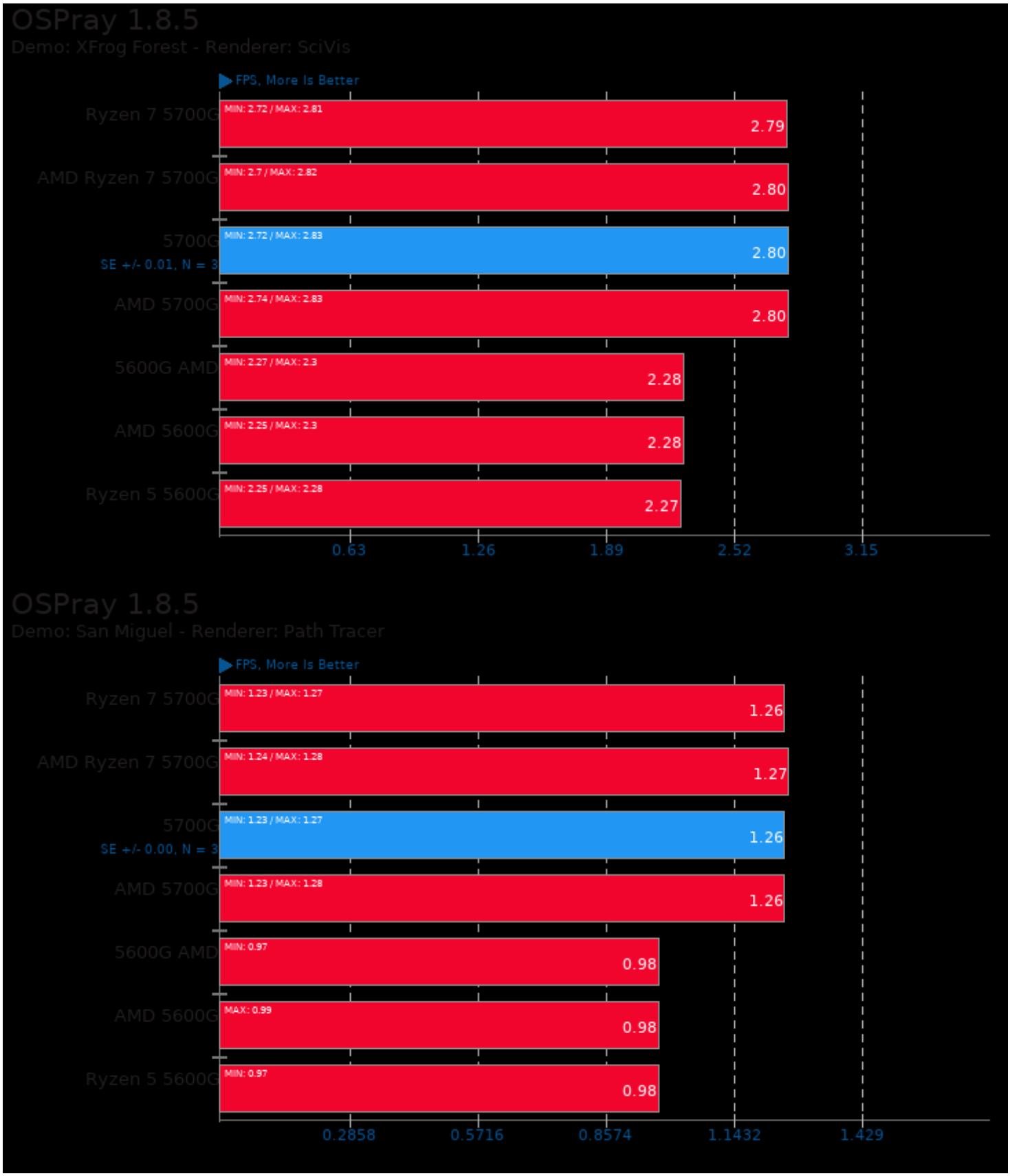
Video Input: Chimera 1080p

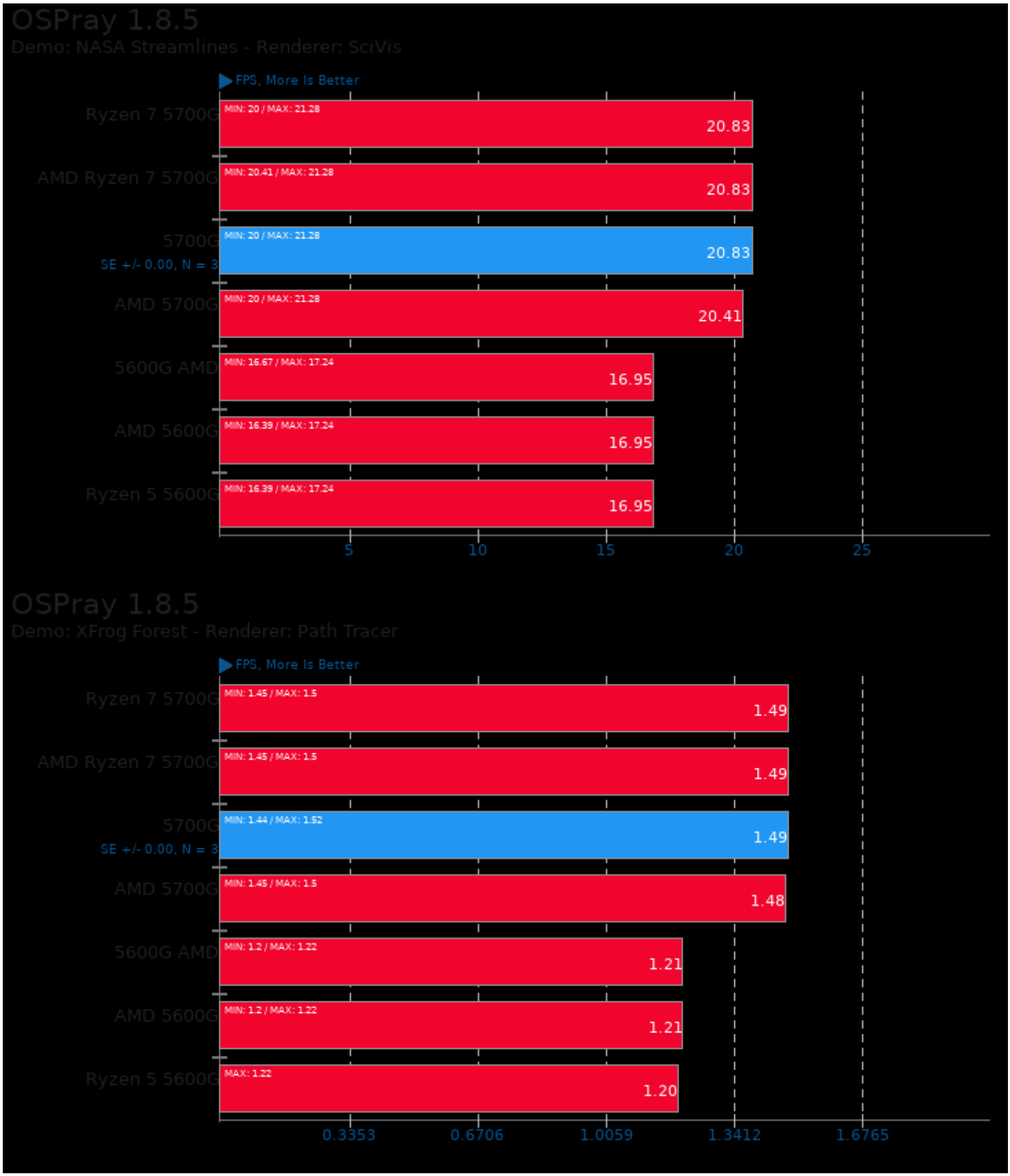


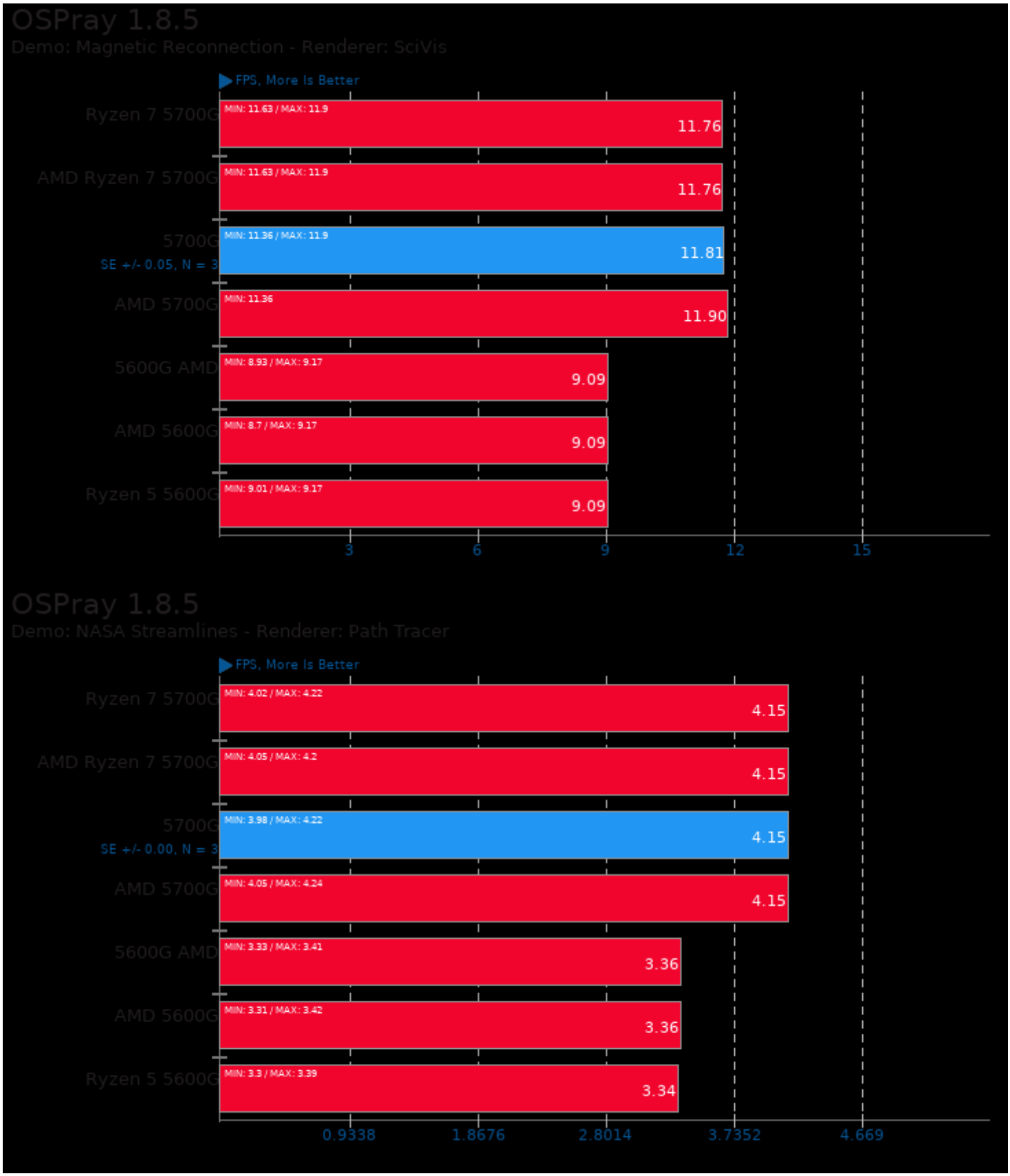
1. (CC) gcc options: -pthread


dav1d 0.9.1
Video Input: Summer Nature 4K
FPS, More Is Better
Ryzen 7 5700G
MIN: 96.97 / MAX: 119.38
114.99
AMD Ryzen 7 5700G
MIN: 104.23 / MAX: 126.46
121.60
5700G
SE +/- 0.34, N = 3
MIN: 99.98 / MAX: 122.31
117.22
AMD 5700G
MIN: 102.82 / MAX: 124.09
119.25
5600G AMD
MIN: 91.39 / MAX: 122.38
116.73
AMD 5600G
MIN: 92.95 / MAX: 121.25
116.09
Ryzen 5 5600G
MIN: 88.88 / MAX: 118.83
113.82
30
60
90
120
150
1. (CC) gcc options: -pthread
dav1d 0.9.1
Video Input: Summer Nature 1080p
FPS, More Is Better
Ryzen 7 5700G
MIN: 309.61 / MAX: 448.65
419.44
AMD Ryzen 7 5700G
MIN: 332.83 / MAX: 479.08
443.43
5700G
SE +/- 2.15, N = 3
MIN: 321.02 / MAX: 469.09
434.72
AMD 5700G
MIN: 327.3 / MAX: 465.15
435.00
5600G AMD
MIN: 223.17 / MAX: 428.57
396.02
AMD 5600G
MIN: 223.05 / MAX: 424.24
391.30
Ryzen 5 5600G
MIN: 222.89 / MAX: 413.79
383.33
100
200
300
400
500
1. (CC) gcc options: -pthread

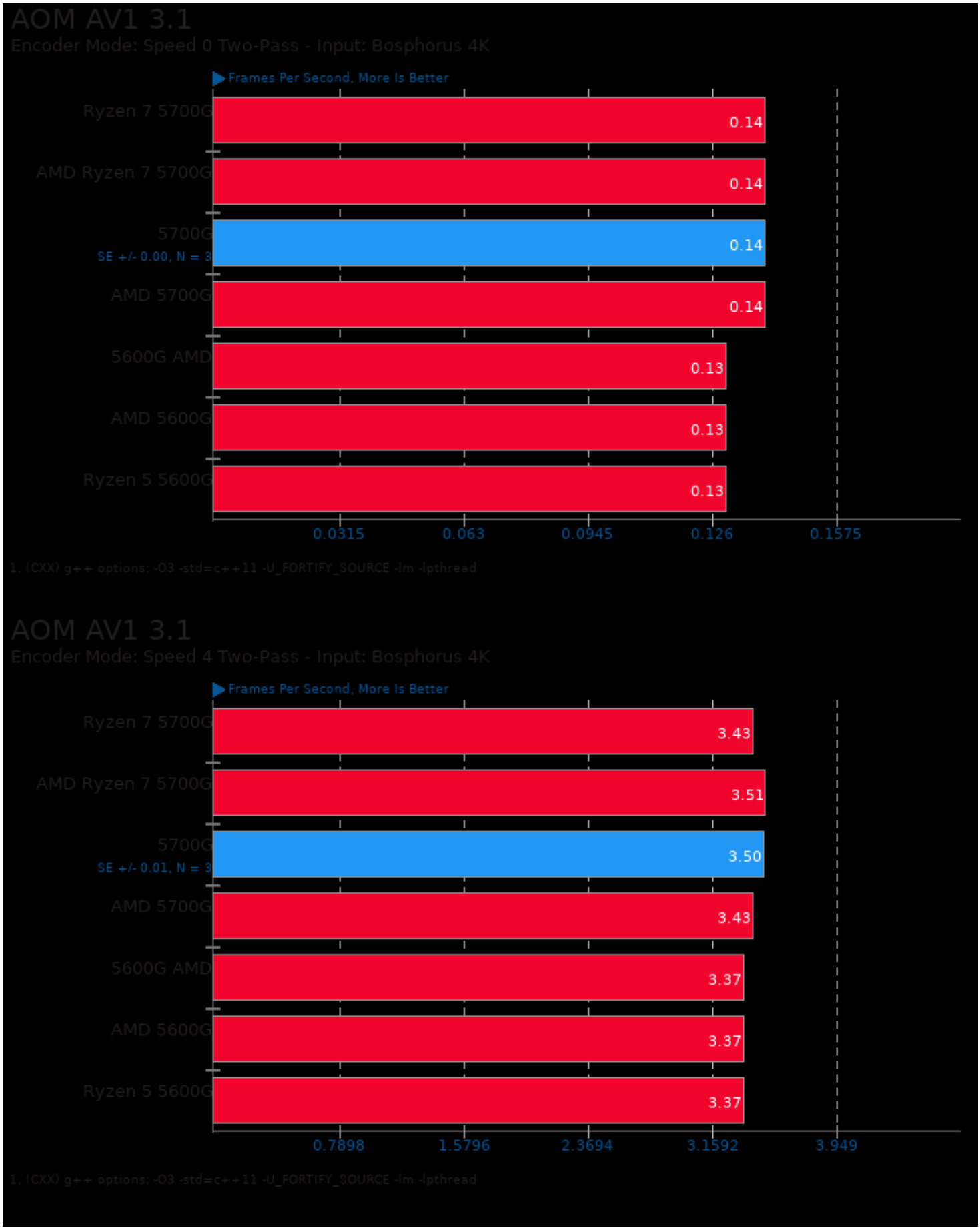

dav1d 0.9.1
Video Input: Chimera 1080p 10-bit
FPS, More Is Better
Ryzen 7 5700G
MIN: 216.16 / MAX: 385.89
265.53
AMD Ryzen 7 5700G
MIN: 228.97 / MAX: 400.79
280.35
5700G
SE +/- 0.60, N = 3
MIN: 219.59 / MAX: 439.47
271.47
AMD 5700G
MIN: 224.38 / MAX: 394.08
276.11
5600G AMD
MIN: 221.68 / MAX: 345.86
272.31
AMD 5600G
MIN: 219.21 / MAX: 341.71
269.33
Ryzen 5 5600G
MIN: 214.59 / MAX: 333.33
263.18
60
120
180
240
300
1. (CC) gcc options: -pthread
OSPray 1.8.5
Demo: San Miguel - Renderer: SciVis
FPS, More Is Better
Ryzen 7 5700G
MIN: 14.93 / MAX: 16.39
15.38
AMD Ryzen 7 5700G
MIN: 15.15 / MAX: 16.39
15.38
5700G
SE +/- 0.00, N = 3
MIN: 14.93 / MAX: 16.39
15.38
AMD 5700G
MIN: 14.71 / MAX: 16.39
15.38
5600G AMD
MIN: 11.9 / MAX: 12.99
12.20
AMD 5600G
MIN: 12.05 / MAX: 12.99
12.20
Ryzen 5 5600G
MIN: 11.76 / MAX: 12.99
12.20
4
8
12
16
20

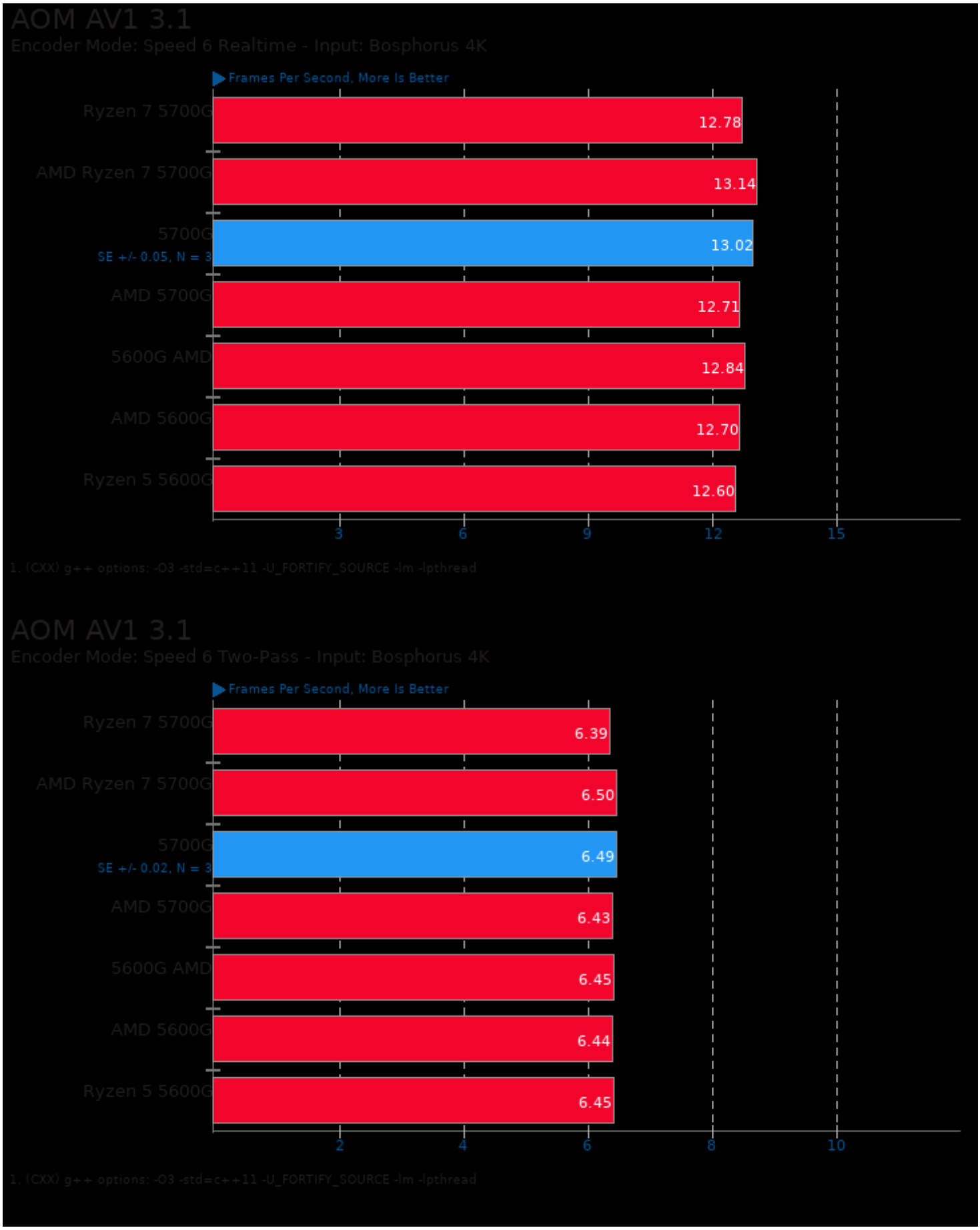

OSPray 1.8.5
Demo: XFrog Forest - Renderer: SciVis
FPS, More Is Better
Ryzen 7 5700G
MIN: 2.72 / MAX: 2.81
2.79
AMD Ryzen 7 5700G
MIN: 2.7 / MAX: 2.82
2.80
5700G
MIN: 2.72 / MAX: 2.83
2.80
SE +/- 0.01, N = 3
AMD 5700G
MIN: 2.74 / MAX: 2.83
2.80
5600G AMD
MIN: 2.27 / MAX: 2.3
2.28
AMD 5600G
MIN: 2.25 / MAX: 2.3
2.28
Ryzen 5 5600G
MIN: 2.25 / MAX: 2.28
2.27
0.63
1.26
1.89
2.52
3.15
OSPray 1.8.5
Demo: San Miguel - Renderer: Path Tracer
FPS, More Is Better
Ryzen 7 5700G
MIN: 1.23 / MAX: 1.27
1.26
AMD Ryzen 7 5700G
MIN: 1.24 / MAX: 1.28
1.27
5700G
MIN: 1.23 / MAX: 1.27
1.26
SE +/- 0.00, N = 3
AMD 5700G
MIN: 1.23 / MAX: 1.28
1.26
5600G AMD
MIN: 0.97
0.98
AMD 5600G
MAX: 0.99
0.98
Ryzen 5 5600G
MIN: 0.97
0.98
0.2858
0.5716
0.8574
1.1432
1.429

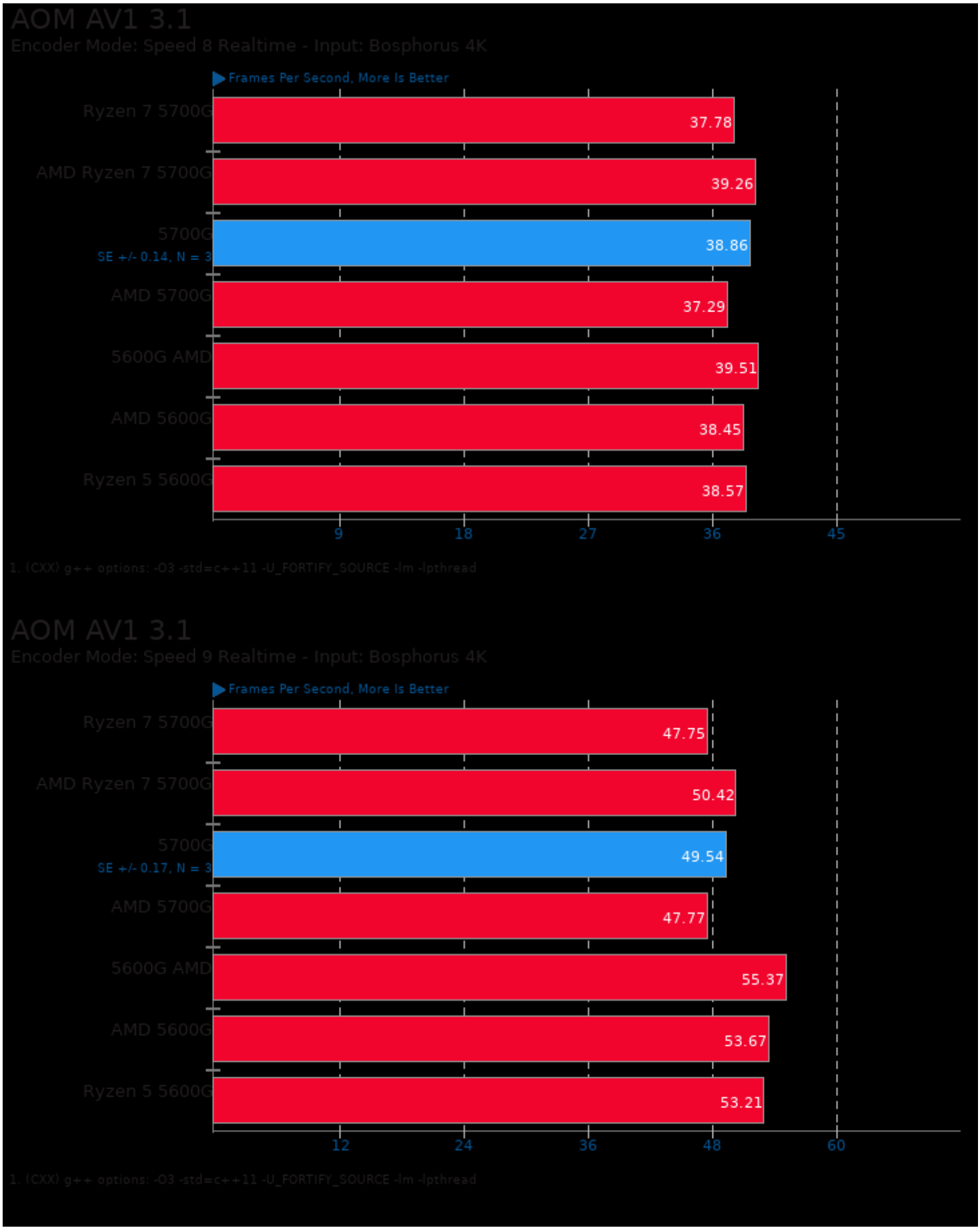

OSPray 1.8.5
Demo: NASA Streamlines - Renderer: SciVis
FPS, More Is Better
Ryzen 7 5700G
MIN: 20 / MAX: 21.28
20.83
AMD Ryzen 7 5700G
MIN: 20.41 / MAX: 21.28
20.83
5700G
SE +/- 0.00, N = 3
MIN: 20 / MAX: 21.28
20.83
AMD 5700G
MIN: 20 / MAX: 21.28
20.41
5600G AMD
MIN: 16.67 / MAX: 17.24
16.95
AMD 5600G
MIN: 16.39 / MAX: 17.24
16.95
Ryzen 5 5600G
MIN: 16.39 / MAX: 17.24
16.95
5
10
15
20
25
OSPray 1.8.5
Demo: XFrog Forest - Renderer: Path Tracer
FPS, More Is Better
Ryzen 7 5700G
MIN: 1.45 / MAX: 1.5
1.49
AMD Ryzen 7 5700G
MIN: 1.45 / MAX: 1.5
1.49
5700G
SE +/- 0.00, N = 3
MIN: 1.44 / MAX: 1.52
1.49
AMD 5700G
MIN: 1.45 / MAX: 1.5
1.48
5600G AMD
MIN: 1.2 / MAX: 1.22
1.21
AMD 5600G
MIN: 1.2 / MAX: 1.22
1.21
Ryzen 5 5600G
MAX: 1.22
1.20
0.3353
0.6706
1.0059
1.3412
1.6765

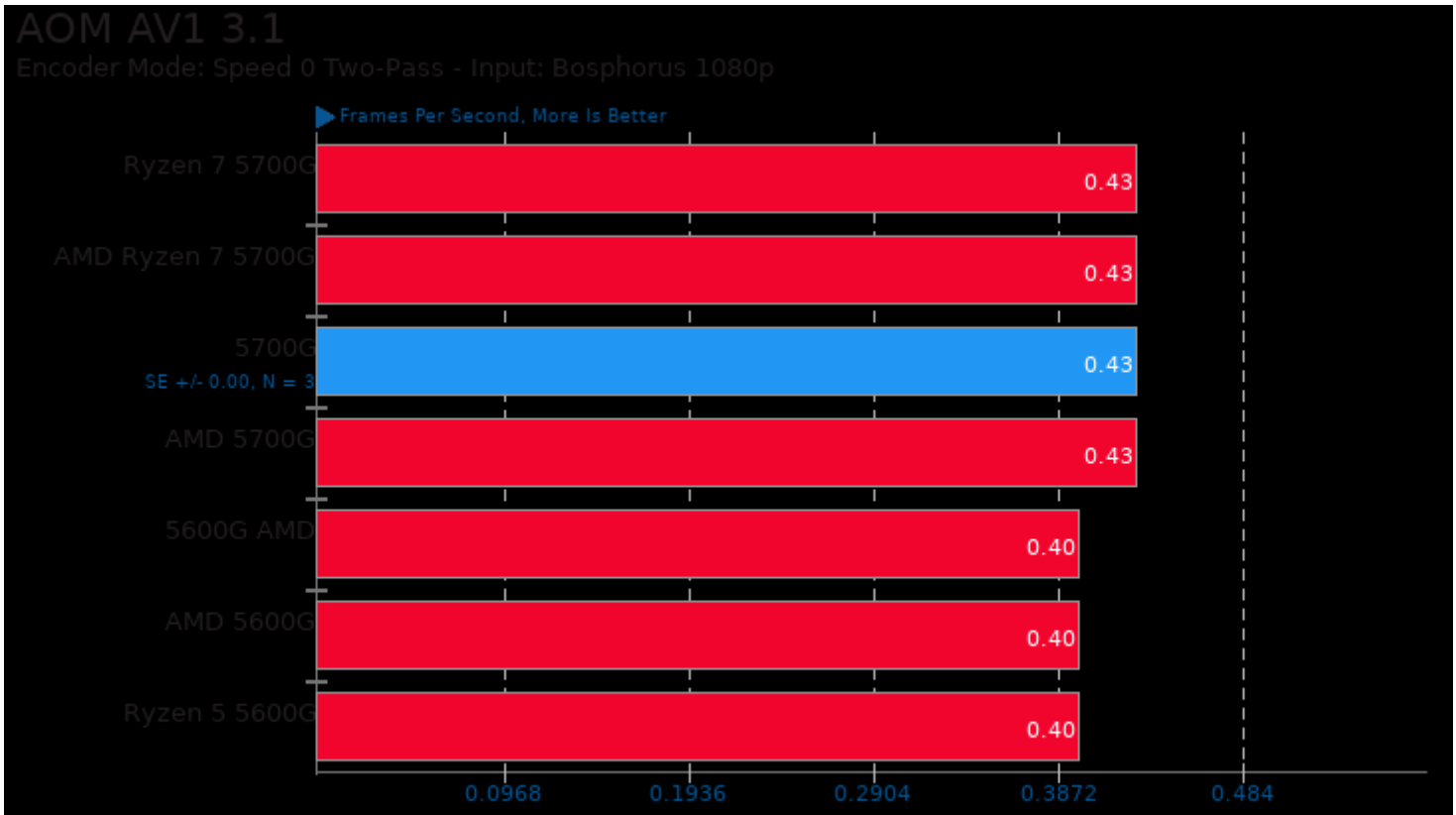

OSPray 1.8.5
Demo: Magnetic Reconnection - Renderer: SciVis
FPS, More Is Better
Ryzen 7 5700G
MIN: 11.63 / MAX: 11.9
11.76
AMD Ryzen 7 5700G
MIN: 11.63 / MAX: 11.9
11.76
5700G
SE +/- 0.05, N = 3
MIN: 11.36 / MAX: 11.9
11.81
AMD 5700G
MIN: 11.36
11.90
5600G AMD
MIN: 8.93 / MAX: 9.17
9.09
AMD 5600G
MIN: 8.7 / MAX: 9.17
9.09
Ryzen 5 5600G
MIN: 9.01 / MAX: 9.17
9.09
3
6
9
12
15
OSPray 1.8.5
Demo: NASA Streamlines - Renderer: Path Tracer
FPS, More Is Better
Ryzen 7 5700G
MIN: 4.02 / MAX: 4.22
4.15
AMD Ryzen 7 5700G
MIN: 4.05 / MAX: 4.2
4.15
5700G
SE +/- 0.00, N = 3
MIN: 3.98 / MAX: 4.22
4.15
AMD 5700G
MIN: 4.05 / MAX: 4.24
4.15
5600G AMD
MIN: 3.33 / MAX: 3.41
3.36
AMD 5600G
MIN: 3.31 / MAX: 3.42
3.36
Ryzen 5 5600G
MIN: 3.3 / MAX: 3.39
3.34
0.9338
1.8676
2.8014
3.7352
4.669


OSPray 1.8.5
Demo: Magnetic Reconnection - Renderer: Path Tracer
FPS, More Is Better
Ryzen 7 5700G
MIN: 142.86
166.67
AMD Ryzen 7 5700G
MIN: 142.86 / MAX: 200
166.67
5700G
MIN: 125 / MAX: 200
166.67
SE +/- 0.00, N = 3
AMD 5700G
MIN: 142.86 / MAX: 200
166.67
5600G AMD
MIN: 111.11 / MAX: 166.67
142.86
AMD 5600G
MIN: 125 / MAX: 166.67
142.86
Ryzen 5 5600G
MIN: 125 / MAX: 166.67
142.86
40
80
120
160
200
TTSIOD 3D Renderer 2.3b
Phong Rendering With Soft-Shadow Mapping
FPS, More Is Better
Ryzen 7 5700G
684.79
AMD Ryzen 7 5700G
679.76
5700G
677.62
SE +/- 1.25, N = 3
AMD 5700G
688.14
5600G AMD
544.37
AMD 5600G
541.13
Ryzen 5 5600G
537.55
150
300
450
600
750
1. (CXX) g++ options: -O3 -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -fopenmp -fwhole-pr

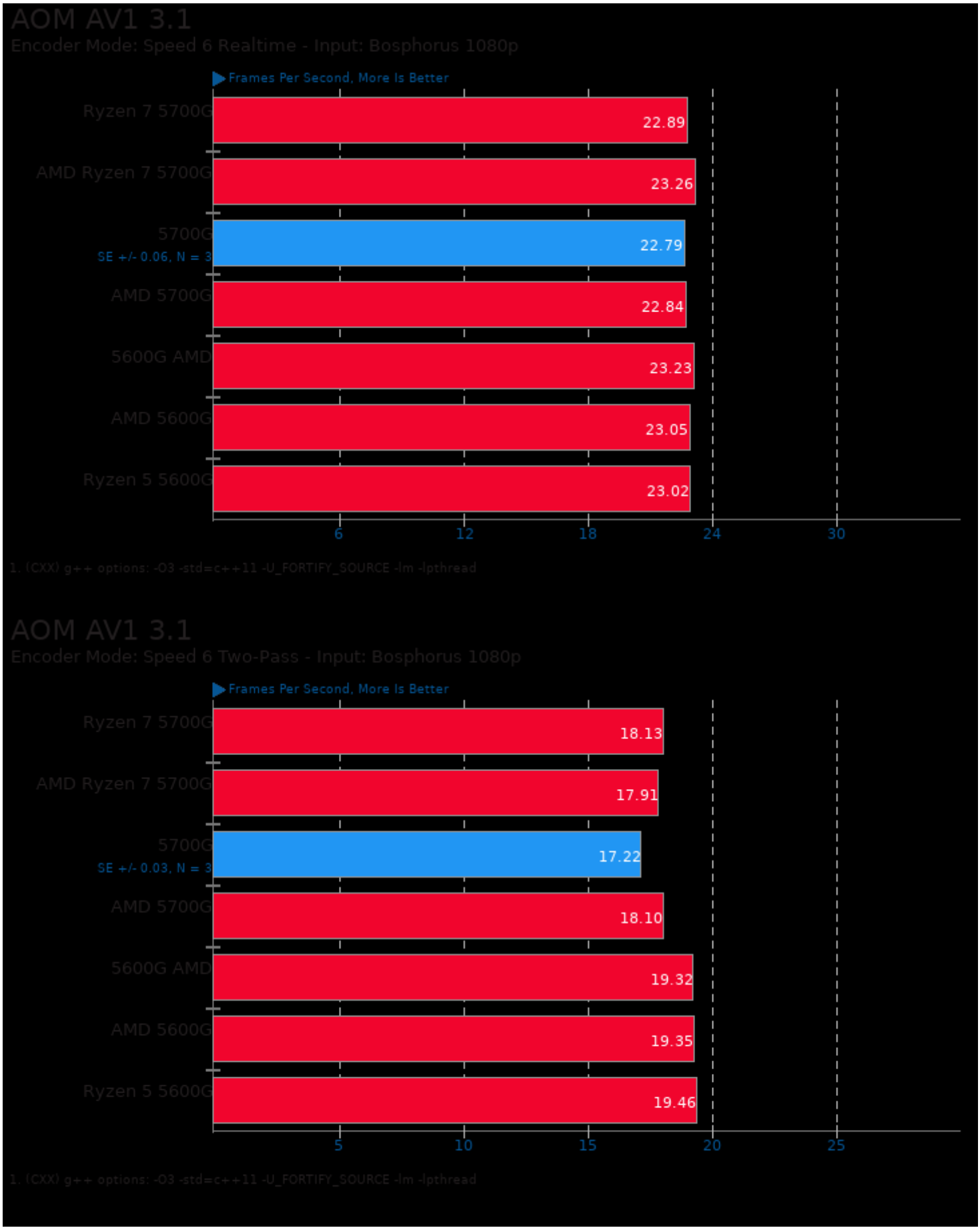

AOM AV1 3.1
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
0.14
AMD Ryzen 7 5700G
0.14
5700G
SE +/- 0.00, N = 3
0.14
AMD 5700G
0.14
5600G AMD
0.13
AMD 5600G
0.13
Ryzen 5 5600G
0.13
0.0315
0.063
0.0945
0.126
0.1575
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
3.43
AMD Ryzen 7 5700G
3.51
5700G
SE +/- 0.01, N = 3
3.50
AMD 5700G
3.43
5600G AMD
3.37
AMD 5600G
3.37
Ryzen 5 5600G
3.37
0.7898
1.5796
2.3694
3.1592
3.949
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

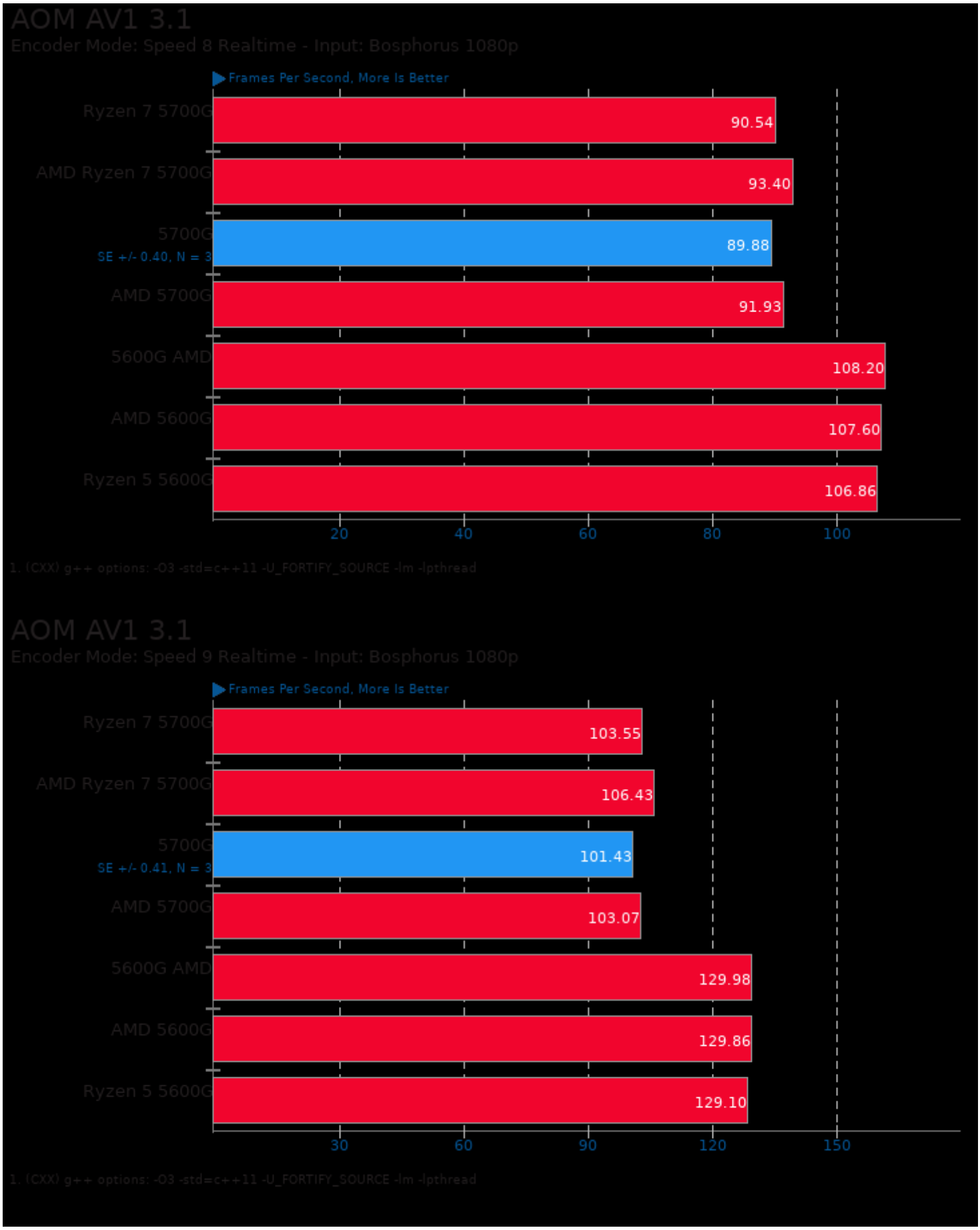

AOM AV1 3.1
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
12.78
AMD Ryzen 7 5700G
13.14
5700G
SE +/- 0.05, N = 3
13.02
AMD 5700G
12.71
5600G AMD
12.84
AMD 5600G
12.70
Ryzen 5 5600G
12.60
3
6
9
12
15
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
6.39
AMD Ryzen 7 5700G
6.50
5700G
SE +/- 0.02, N = 3
6.49
AMD 5700G
6.43
5600G AMD
6.45
AMD 5600G
6.44
Ryzen 5 5600G
6.45
2
4
6
8
10
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

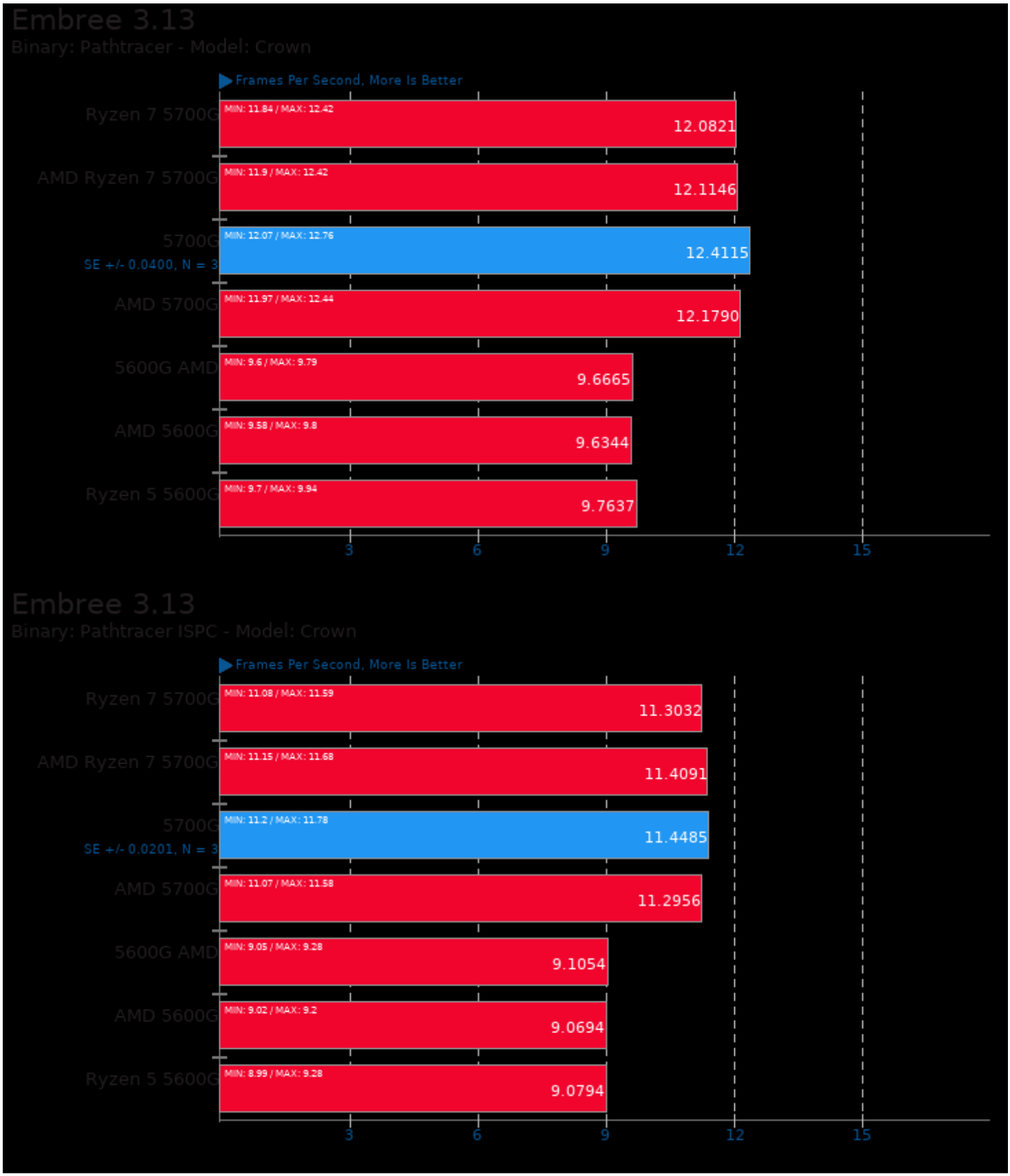

AOM AV1 3.1
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
37.78
AMD Ryzen 7 5700G
39.26
5700G
SE +/- 0.14, N = 3
38.86
AMD 5700G
37.29
5600G AMD
39.51
AMD 5600G
38.45
Ryzen 5 5600G
38.57
9
18
27
36
45
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
47.75
AMD Ryzen 7 5700G
50.42
5700G
SE +/- 0.17, N = 3
49.54
AMD 5700G
47.77
5600G AMD
55.37
AMD 5600G
53.67
Ryzen 5 5600G
53.21
12
24
36
48
60
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

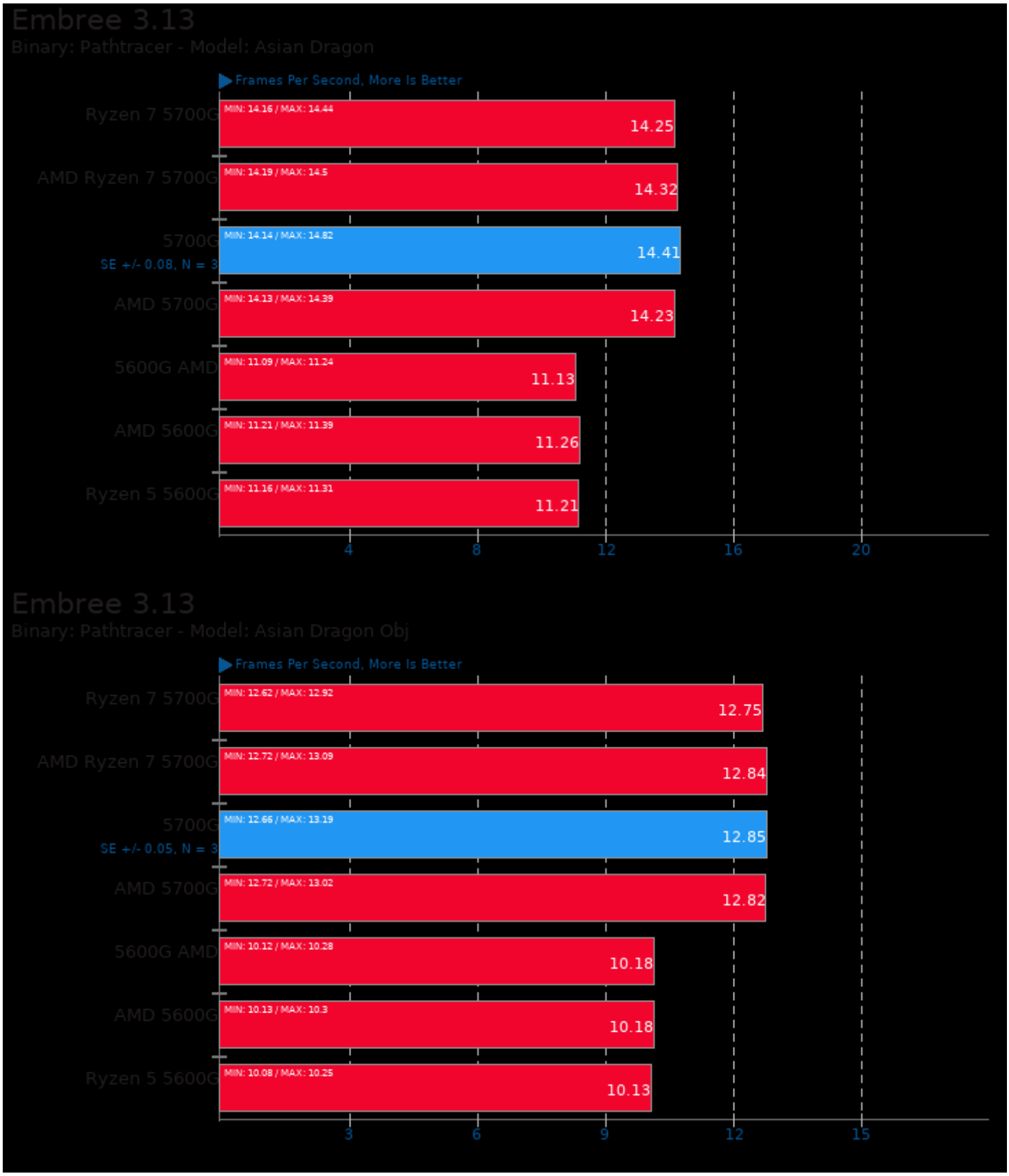

AOM AV1 3.1
Encoder Mode: Speed 0 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
0.43
AMD Ryzen 7 5700G
0.43
5700G
SE +/- 0.00, N = 3
0.43
AMD 5700G
0.43
5600G AMD
0.40
AMD 5600G
0.40
Ryzen 5 5600G
0.40
0.0968
0.1936
0.2904
0.3872
0.484
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

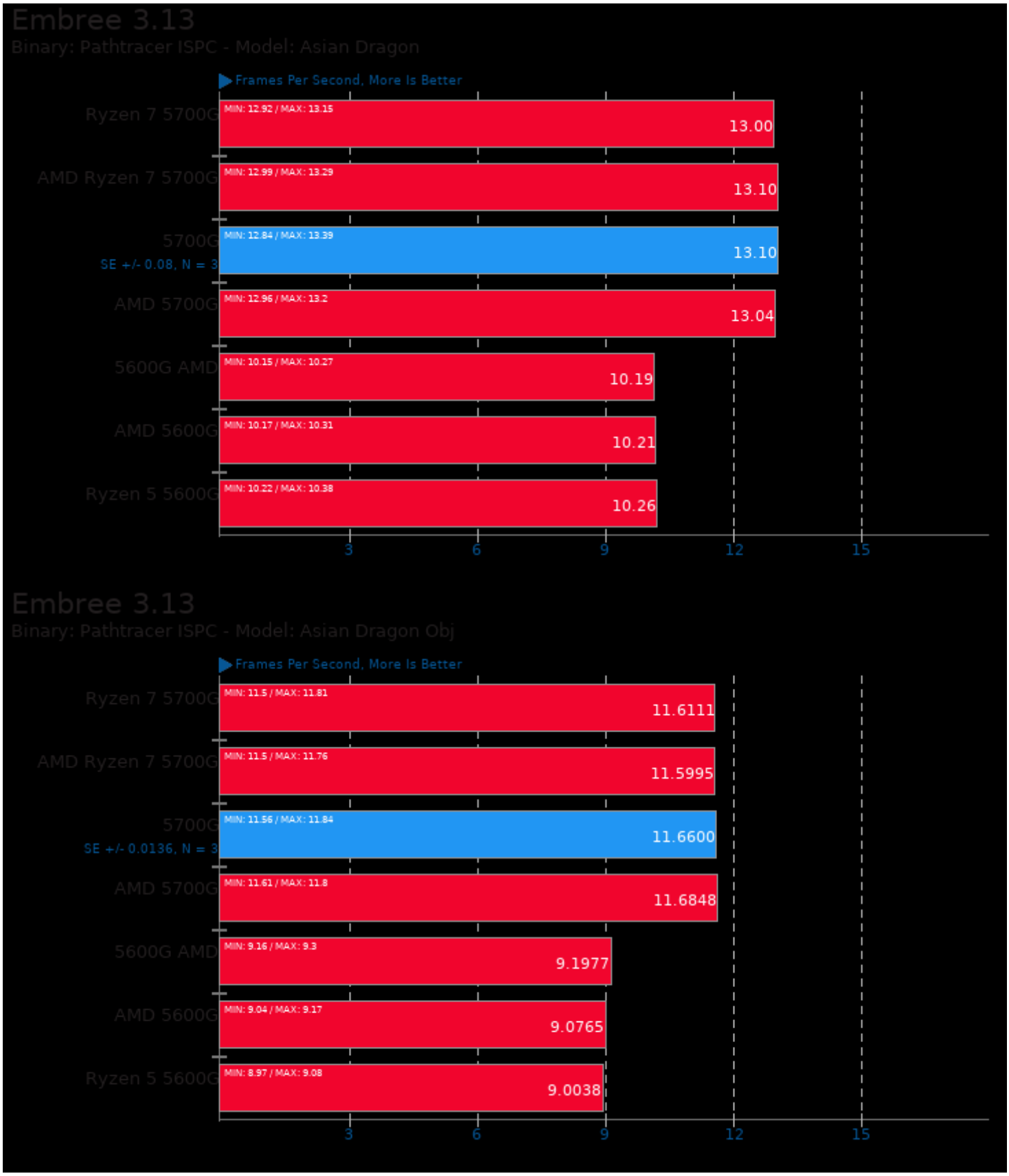

AOM AV1 3.1
Encoder Mode: Speed 4 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
6.50
AMD Ryzen 7 5700G
6.52
5700G
SE +/- 0.01, N = 3
6.39
AMD 5700G
6.50
5600G AMD
6.79
AMD 5600G
6.86
Ryzen 5 5600G
6.81
2
4
6
8
10
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

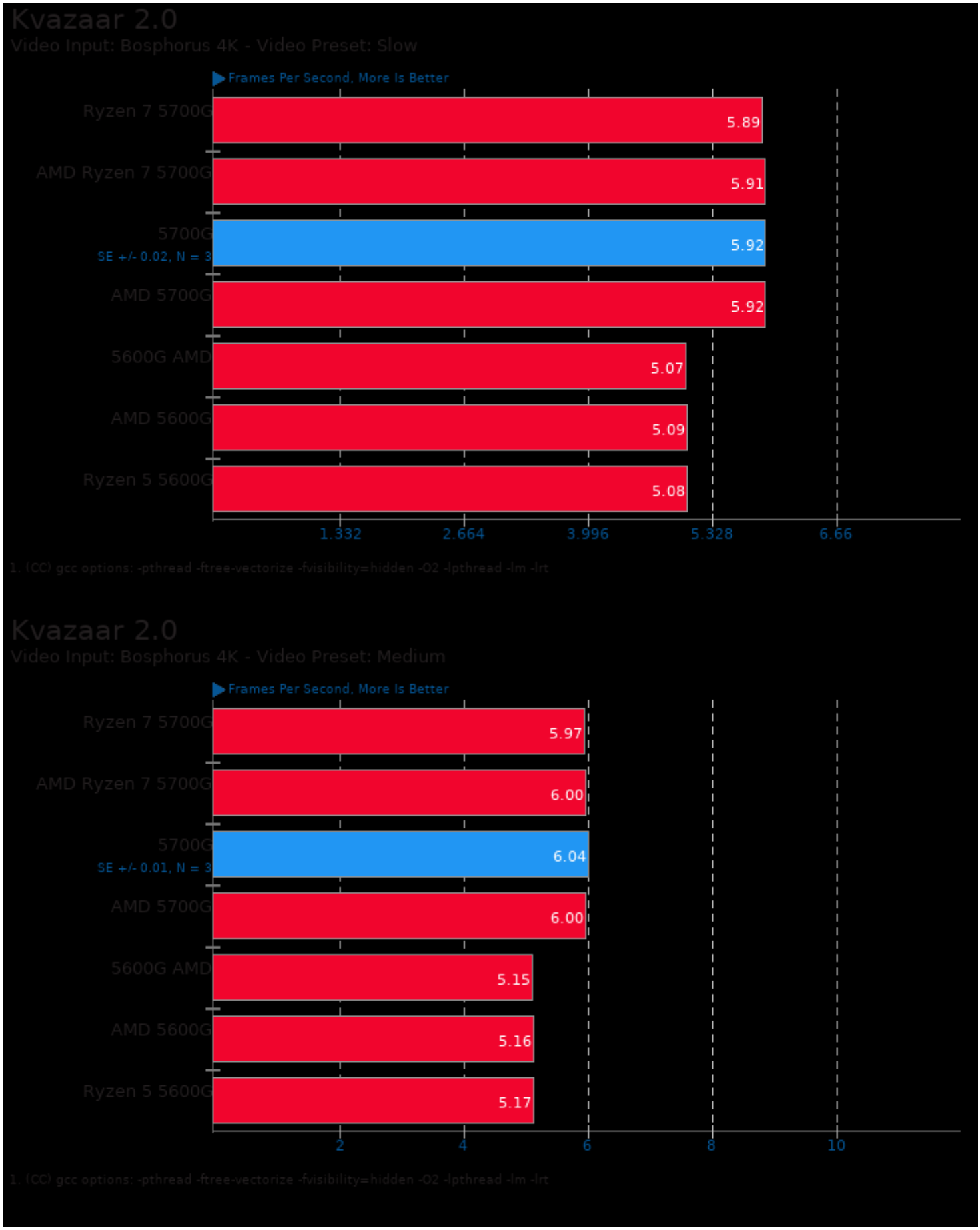

AOM AV1 3.1
Encoder Mode: Speed 6 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
22.89
AMD Ryzen 7 5700G
23.26
5700G
SE +/- 0.06, N = 3
22.79
AMD 5700G
22.84
5600G AMD
23.23
AMD 5600G
23.05
Ryzen 5 5600G
23.02
6
12
18
24
30
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 6 Two-Pass - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
18.13
AMD Ryzen 7 5700G
17.91
5700G
SE +/- 0.03, N = 3
17.22
AMD 5700G
18.10
5600G AMD
19.32
AMD 5600G
19.35
Ryzen 5 5600G
19.46
5
10
15
20
25
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

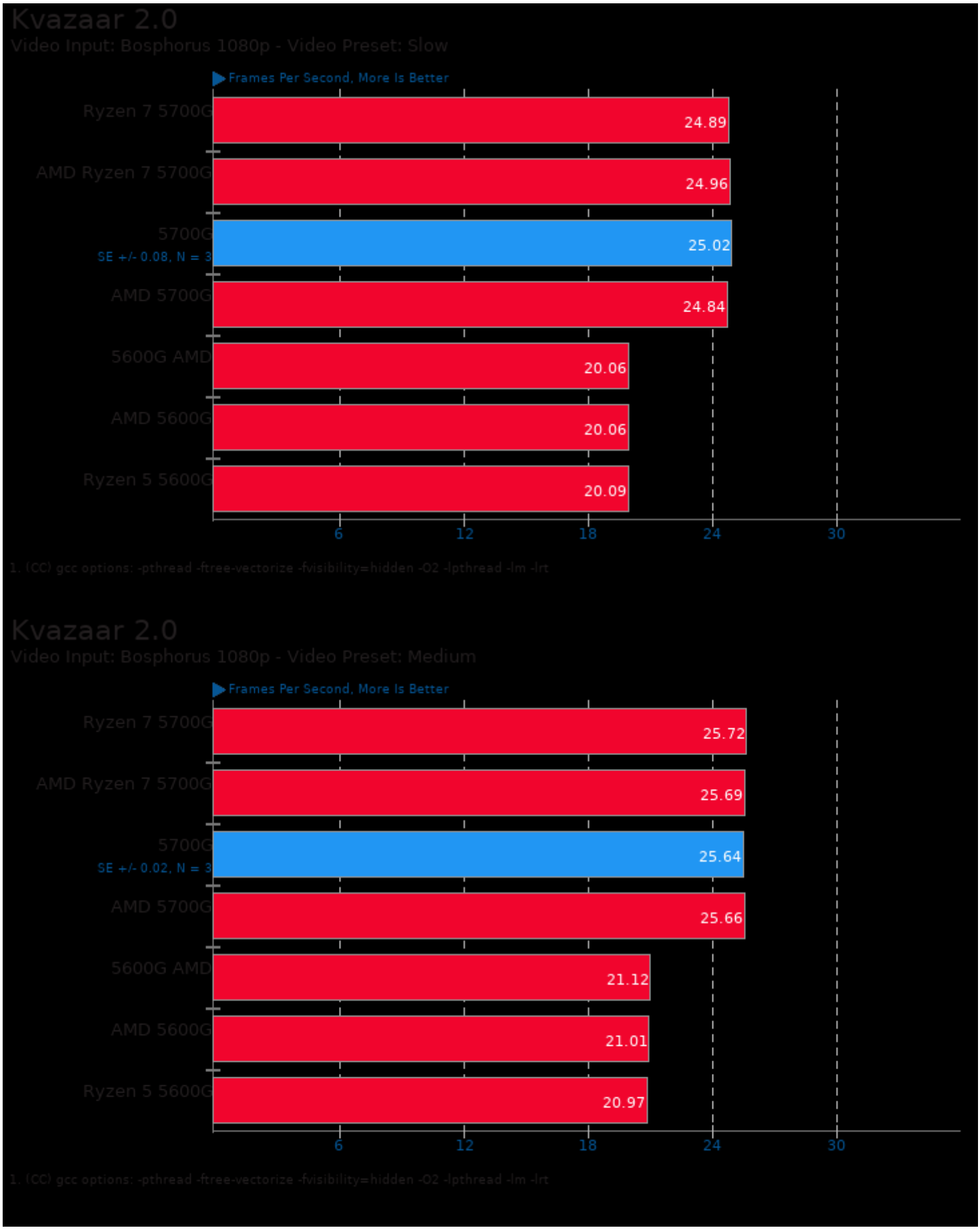

AOM AV1 3.1
Encoder Mode: Speed 8 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
90.54
AMD Ryzen 7 5700G
93.40
5700G
SE +/- 0.40, N = 3
89.88
AMD 5700G
91.93
5600G AMD
108.20
AMD 5600G
107.60
Ryzen 5 5600G
106.86
20
40
60
80
100
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread
AOM AV1 3.1
Encoder Mode: Speed 9 Realtime - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
103.55
AMD Ryzen 7 5700G
106.43
5700G
SE +/- 0.41, N = 3
101.43
AMD 5700G
103.07
5600G AMD
129.98
AMD 5600G
129.86
Ryzen 5 5600G
129.10
30
60
90
120
150
1. (CXX) g++ options: -O3 -std=c++11 -U_FORTIFY_SOURCE -lm -lpthread

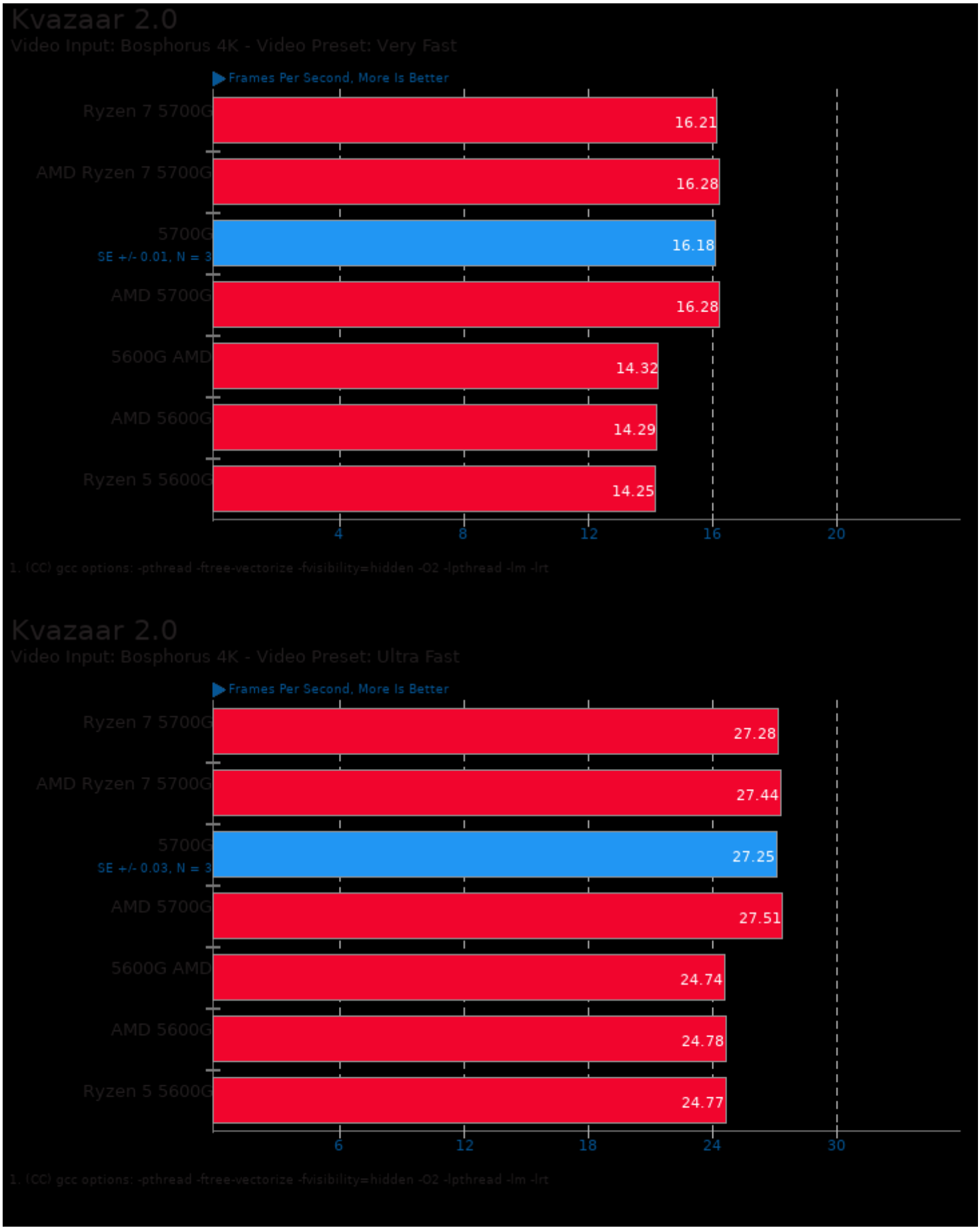

Embree 3.13
Binary: Pathtracer - Model: Crown
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 11.84 / MAX: 12.42
12.0821
AMD Ryzen 7 5700G
MIN: 11.9 / MAX: 12.42
12.1146
5700G
MIN: 12.07 / MAX: 12.76
12.4115
SE +/- 0.0400, N = 3
AMD 5700G
MIN: 11.97 / MAX: 12.44
12.1790
5600G AMD
MIN: 9.6 / MAX: 9.79
9.6665
AMD 5600G
MIN: 9.58 / MAX: 9.8
9.6344
Ryzen 5 5600G
MIN: 9.7 / MAX: 9.94
9.7637
3
6
9
12
15
Embree 3.13
Binary: Pathtracer ISPC - Model: Crown
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 11.08 / MAX: 11.59
11.3032
AMD Ryzen 7 5700G
MIN: 11.15 / MAX: 11.68
11.4091
5700G
MIN: 11.2 / MAX: 11.78
11.4485
SE +/- 0.0201, N = 3
AMD 5700G
MIN: 11.07 / MAX: 11.58
11.2956
5600G AMD
MIN: 9.05 / MAX: 9.28
9.1054
AMD 5600G
MIN: 9.02 / MAX: 9.2
9.0694
Ryzen 5 5600G
MIN: 8.99 / MAX: 9.28
9.0794
3
6
9
12
15


Embree 3.13
Binary: Pathtracer - Model: Asian Dragon
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 14.16 / MAX: 14.44
14.25
AMD Ryzen 7 5700G
MIN: 14.19 / MAX: 14.5
14.32
5700G
SE +/- 0.08, N = 3
MIN: 14.14 / MAX: 14.82
14.41
AMD 5700G
MIN: 14.13 / MAX: 14.39
14.23
5600G AMD
MIN: 11.09 / MAX: 11.24
11.13
AMD 5600G
MIN: 11.21 / MAX: 11.39
11.26
Ryzen 5 5600G
MIN: 11.16 / MAX: 11.31
11.21
4
8
12
16
20
Embree 3.13
Binary: Pathtracer - Model: Asian Dragon Obj
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 12.62 / MAX: 12.92
12.75
AMD Ryzen 7 5700G
MIN: 12.72 / MAX: 13.09
12.84
5700G
SE +/- 0.05, N = 3
MIN: 12.66 / MAX: 13.19
12.85
AMD 5700G
MIN: 12.72 / MAX: 13.02
12.82
5600G AMD
MIN: 10.12 / MAX: 10.28
10.18
AMD 5600G
MIN: 10.13 / MAX: 10.3
10.18
Ryzen 5 5600G
MIN: 10.08 / MAX: 10.25
10.13
3
6
9
12
15

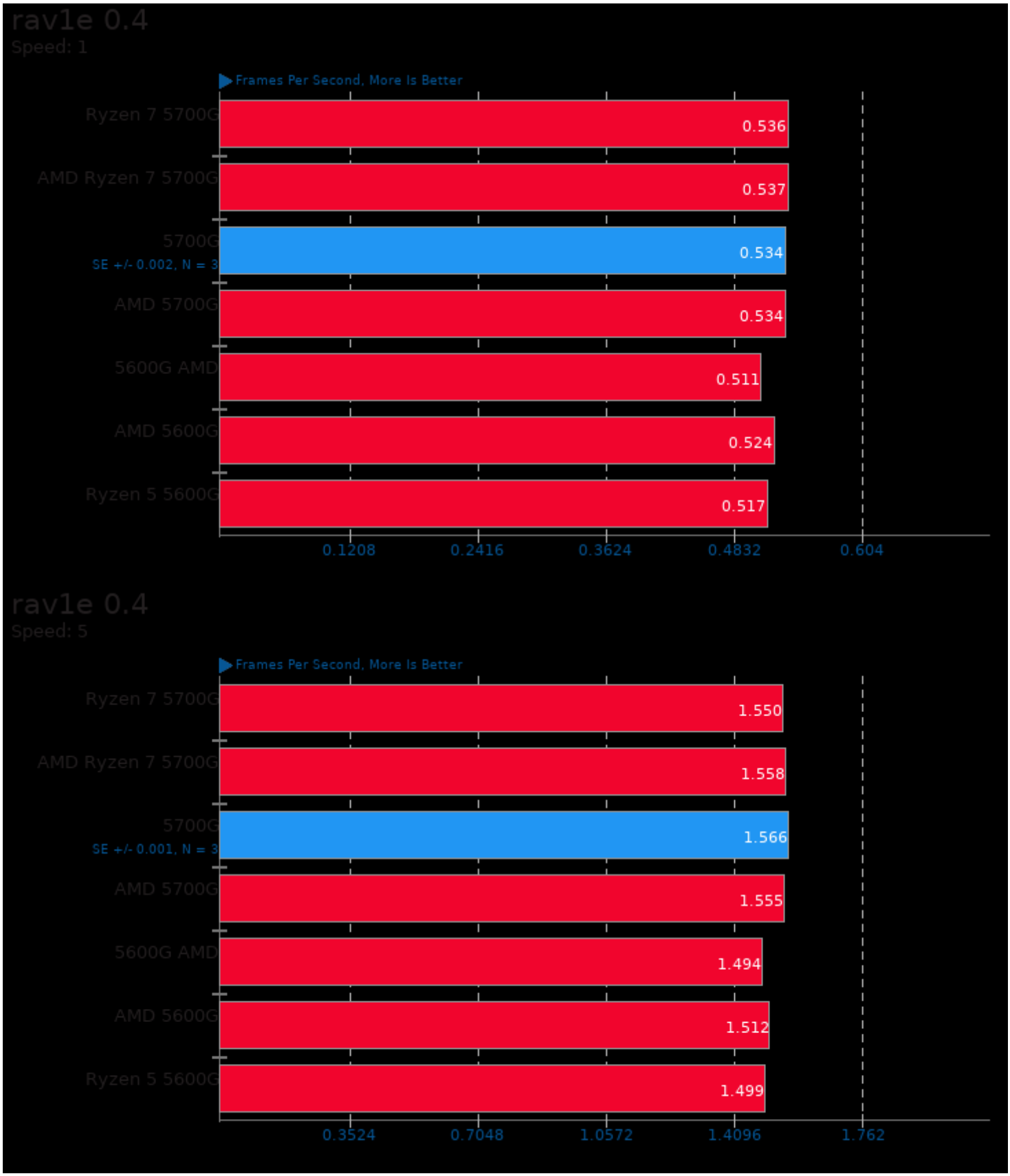

Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 12.92 / MAX: 13.15
13.00
AMD Ryzen 7 5700G
MIN: 12.99 / MAX: 13.29
13.10
5700G
SE +/- 0.08, N = 3
MIN: 12.84 / MAX: 13.39
13.10
AMD 5700G
MIN: 12.96 / MAX: 13.2
13.04
5600G AMD
MIN: 10.15 / MAX: 10.27
10.19
AMD 5600G
MIN: 10.17 / MAX: 10.31
10.21
Ryzen 5 5600G
MIN: 10.22 / MAX: 10.38
10.26
3
6
9
12
15
Embree 3.13
Binary: Pathtracer ISPC - Model: Asian Dragon Obj
Frames Per Second, More Is Better
Ryzen 7 5700G
MIN: 11.5 / MAX: 11.81
11.6111
AMD Ryzen 7 5700G
MIN: 11.5 / MAX: 11.76
11.5995
5700G
SE +/- 0.0136, N = 3
MIN: 11.56 / MAX: 11.84
11.6600
AMD 5700G
MIN: 11.61 / MAX: 11.8
11.6848
5600G AMD
MIN: 9.16 / MAX: 9.3
9.1977
AMD 5600G
MIN: 9.04 / MAX: 9.17
9.0765
Ryzen 5 5600G
MIN: 8.97 / MAX: 9.08
9.0038
3
6
9
12
15

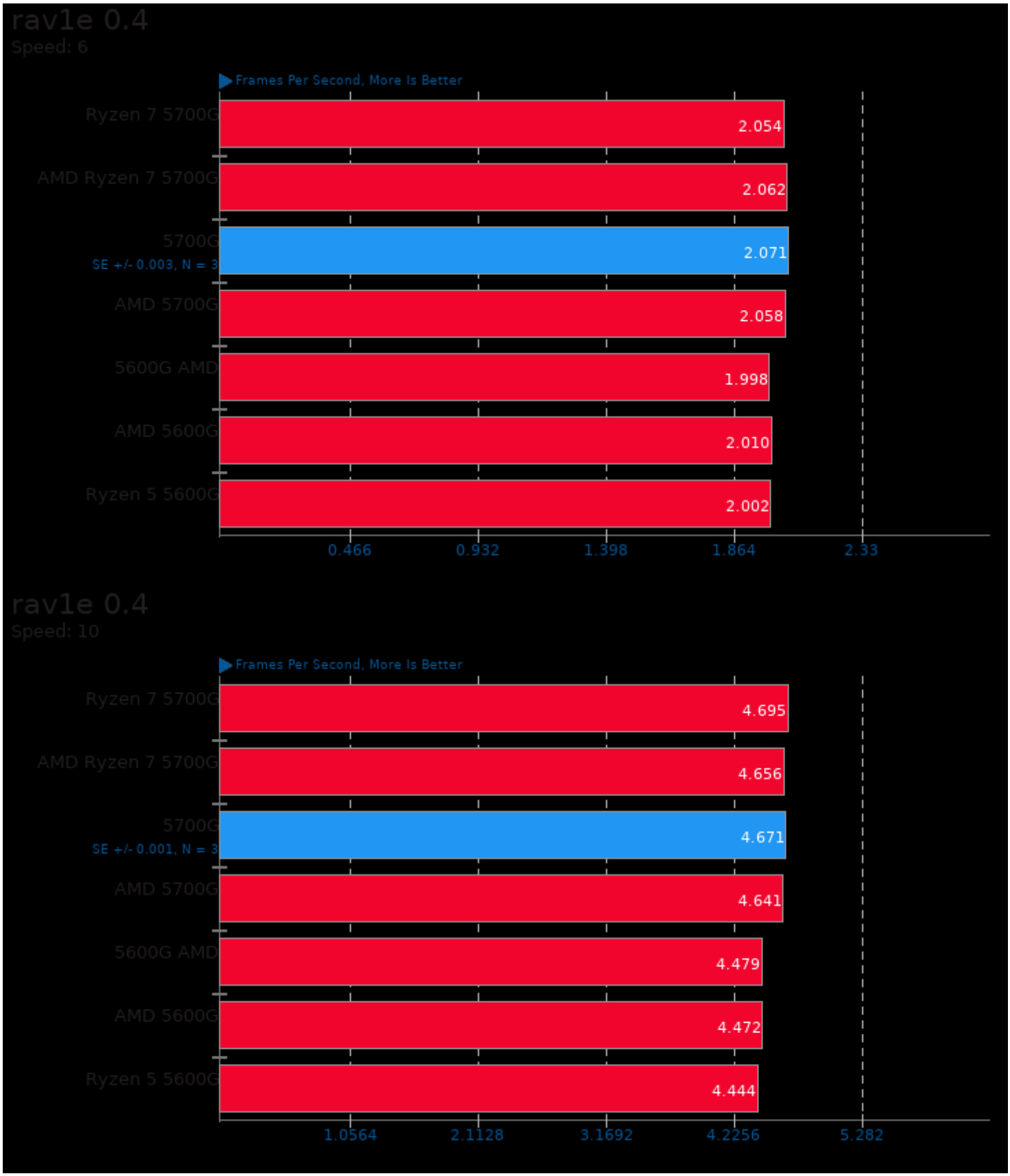

Kvazaar 2.0
Video Input: Bosphorus 4K - Video Preset: Slow
Frames Per Second, More Is Better
Ryzen 7 5700G
5.89
AMD Ryzen 7 5700G
5.91
5700G
SE +/- 0.02, N = 3
5.92
AMD 5700G
5.92
5600G AMD
5.07
AMD 5600G
5.09
Ryzen 5 5600G
5.08
1.332
2.664
3.996
5.328
6.66
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.0
Video Input: Bosphorus 4K - Video Preset: Medium
Frames Per Second, More Is Better
Ryzen 7 5700G
5.97
AMD Ryzen 7 5700G
6.00
5700G
SE +/- 0.01, N = 3
6.04
AMD 5700G
6.00
5600G AMD
5.15
AMD 5600G
5.16
Ryzen 5 5600G
5.17
2
4
6
8
10
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

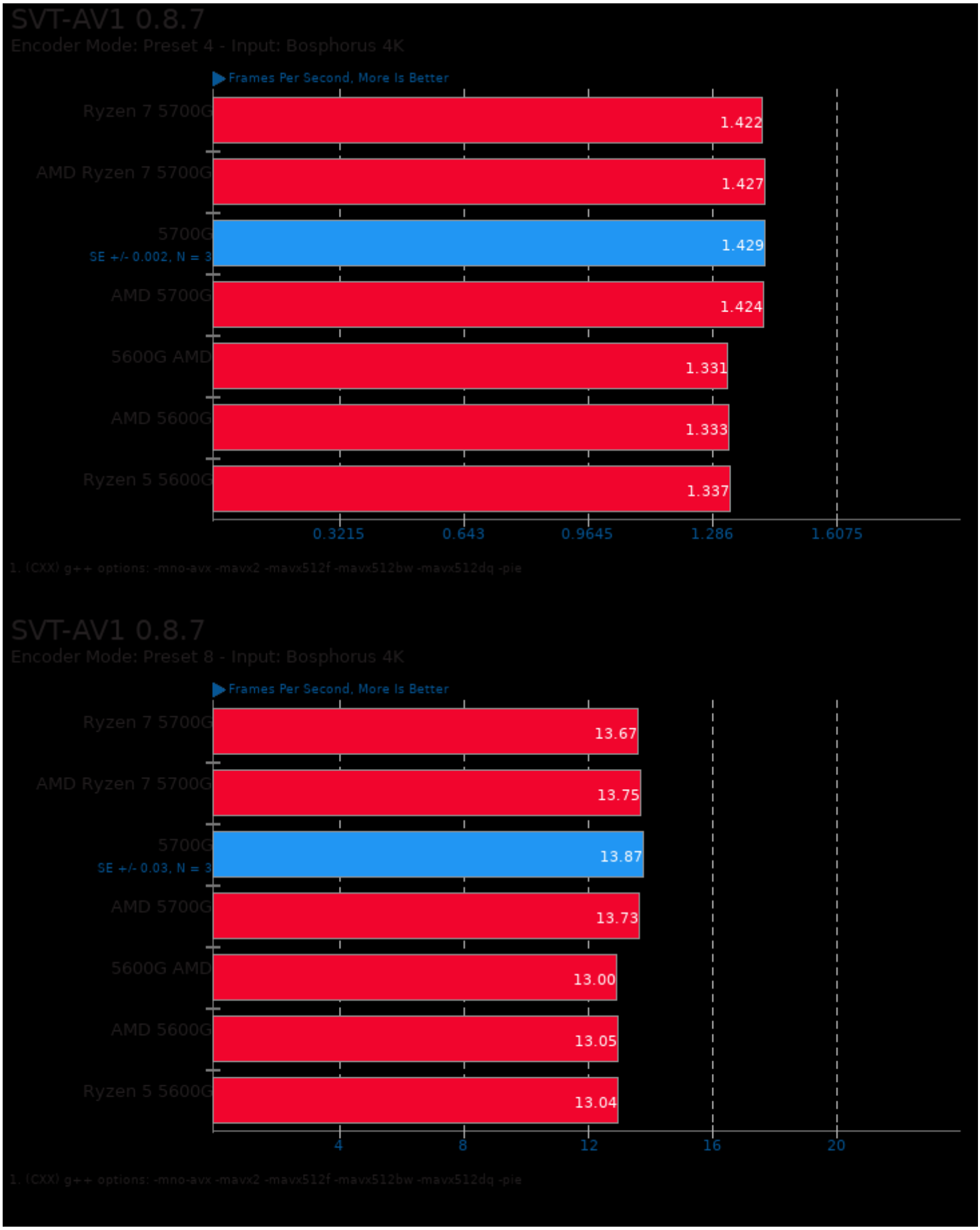

Kvazaar 2.0
Video Input: Bosphorus 1080p - Video Preset: Slow
Frames Per Second, More Is Better
Ryzen 7 5700G
24.89
AMD Ryzen 7 5700G
24.96
5700G
SE +/- 0.08, N = 3
25.02
AMD 5700G
24.84
5600G AMD
20.06
AMD 5600G
20.06
Ryzen 5 5600G
20.09
6
12
18
24
30
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.0
Video Input: Bosphorus 1080p - Video Preset: Medium
Frames Per Second, More Is Better
Ryzen 7 5700G
25.72
AMD Ryzen 7 5700G
25.69
5700G
SE +/- 0.02, N = 3
25.64
AMD 5700G
25.66
5600G AMD
21.12
AMD 5600G
21.01
Ryzen 5 5600G
20.97
6
12
18
24
30
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

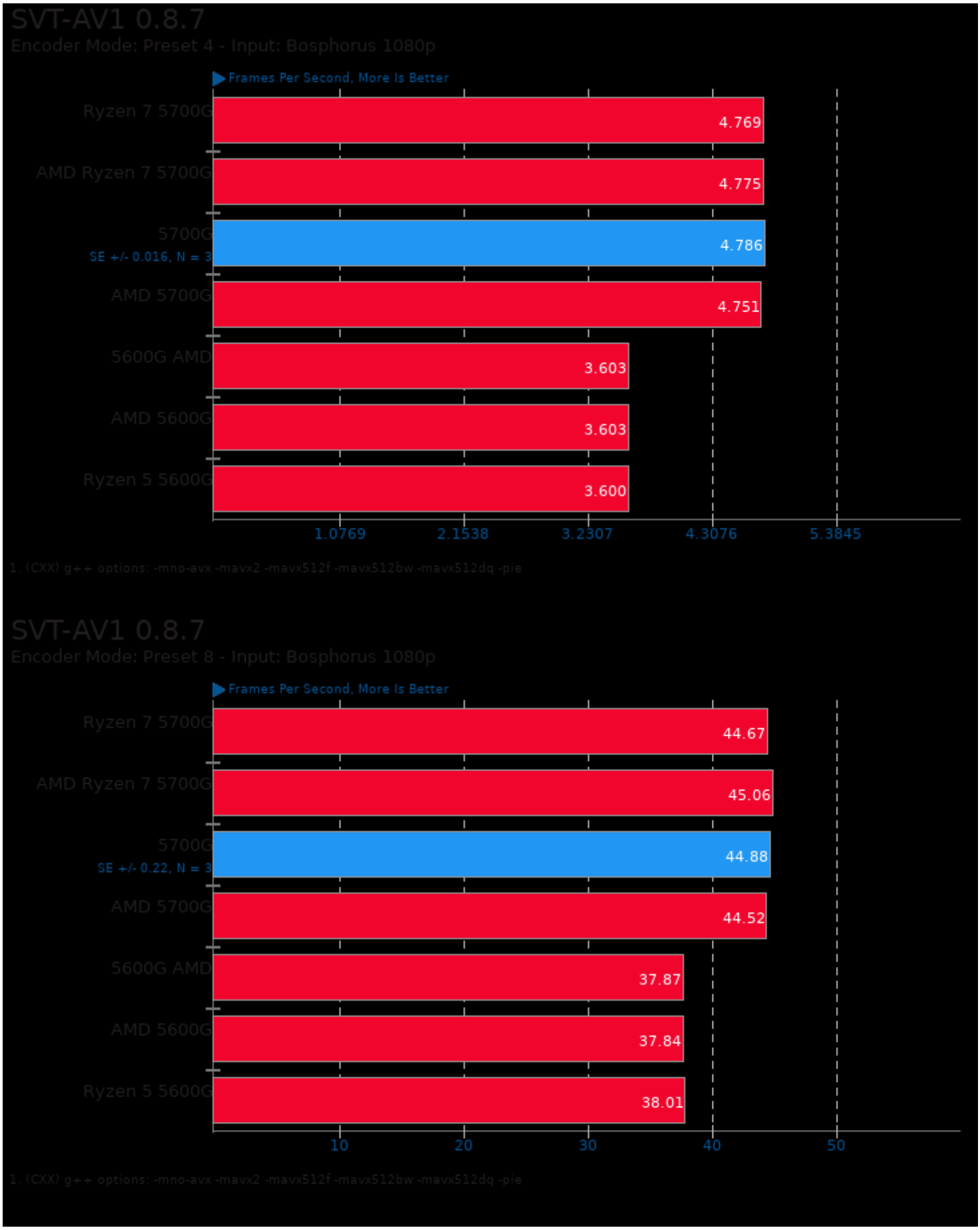

Kvazaar 2.0
Video Input: Bosphorus 4K - Video Preset: Very Fast
Frames Per Second, More Is Better
Ryzen 7 5700G
16.21
AMD Ryzen 7 5700G
16.28
5700G
SE +/- 0.01, N = 3
16.18
AMD 5700G
16.28
5600G AMD
14.32
AMD 5600G
14.29
Ryzen 5 5600G
14.25
4
8
12
16
20
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.0
Video Input: Bosphorus 4K - Video Preset: Ultra Fast
Frames Per Second, More Is Better
Ryzen 7 5700G
27.28
AMD Ryzen 7 5700G
27.44
5700G
SE +/- 0.03, N = 3
27.25
AMD 5700G
27.51
5600G AMD
24.74
AMD 5600G
24.78
Ryzen 5 5600G
24.77
6
12
18
24
30
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

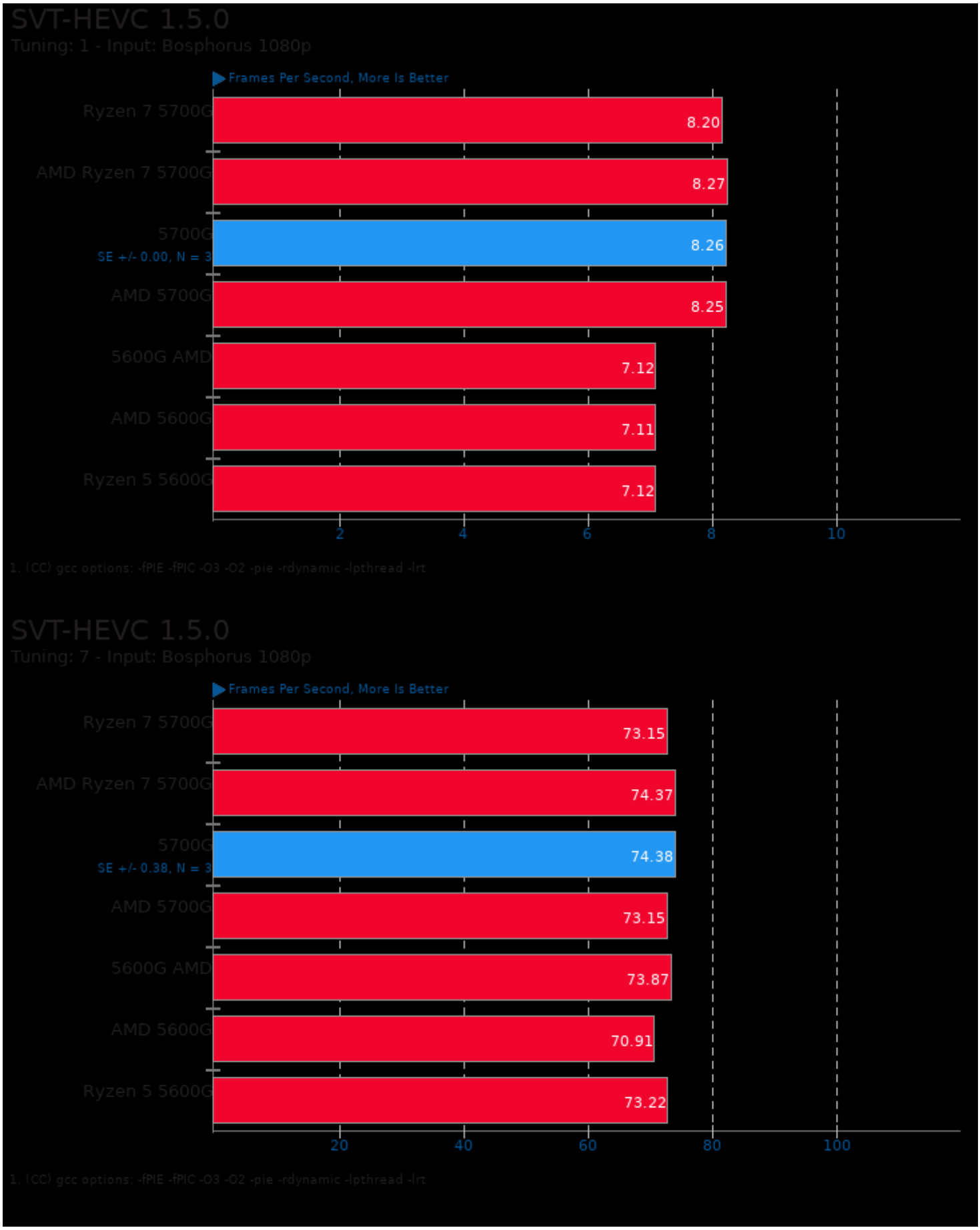

Kvazaar 2.0
Video Input: Bosphorus 1080p - Video Preset: Very Fast
Frames Per Second, More Is Better
Ryzen 7 5700G
58.32
AMD Ryzen 7 5700G
58.68
5700G
SE +/- 0.28, N = 3
58.57
AMD 5700G
58.69
5600G AMD
52.54
AMD 5600G
52.35
Ryzen 5 5600G
52.58
13
26
39
52
65
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt
Kvazaar 2.0
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast
Frames Per Second, More Is Better
Ryzen 7 5700G
98.94
AMD Ryzen 7 5700G
98.08
5700G
SE +/- 0.35, N = 3
97.86
AMD 5700G
98.12
5600G AMD
88.71
AMD 5600G
88.19
Ryzen 5 5600G
87.87
20
40
60
80
100
1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

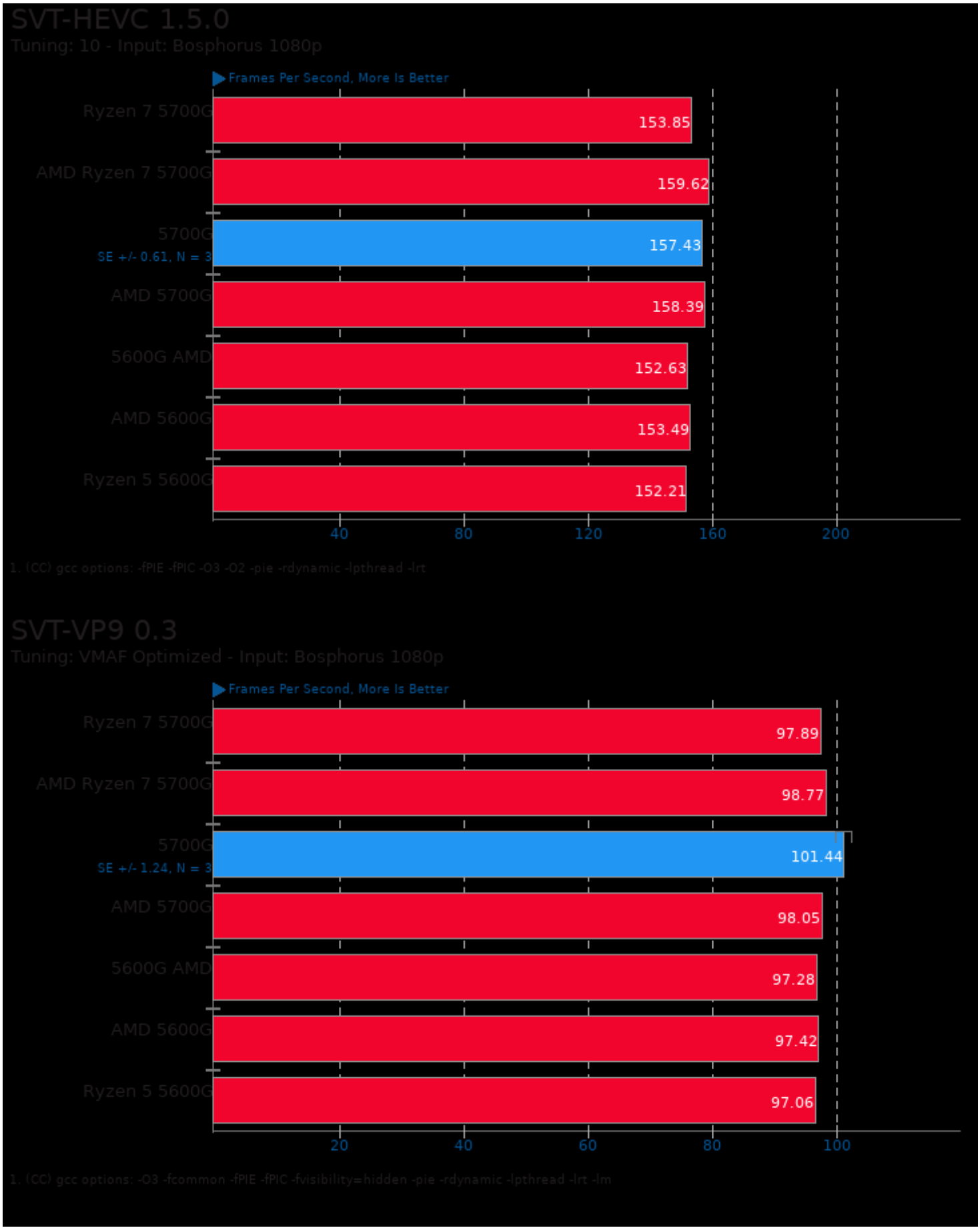

rav1e 0.4
Speed: 1
Frames Per Second, More Is Better
Ryzen 7 5700G
0.536
AMD Ryzen 7 5700G
0.537
5700G
SE +/- 0.002, N = 3
0.534
AMD 5700G
0.534
5600G AMD
0.511
AMD 5600G
0.524
Ryzen 5 5600G
0.517
0.1208
0.2416
0.3624
0.4832
0.604
rav1e 0.4
Speed: 5
Frames Per Second, More Is Better
Ryzen 7 5700G
1.550
AMD Ryzen 7 5700G
1.558
5700G
SE +/- 0.001, N = 3
1.566
AMD 5700G
1.555
5600G AMD
1.494
AMD 5600G
1.512
Ryzen 5 5600G
1.499
0.3524
0.7048
1.0572
1.4096
1.762

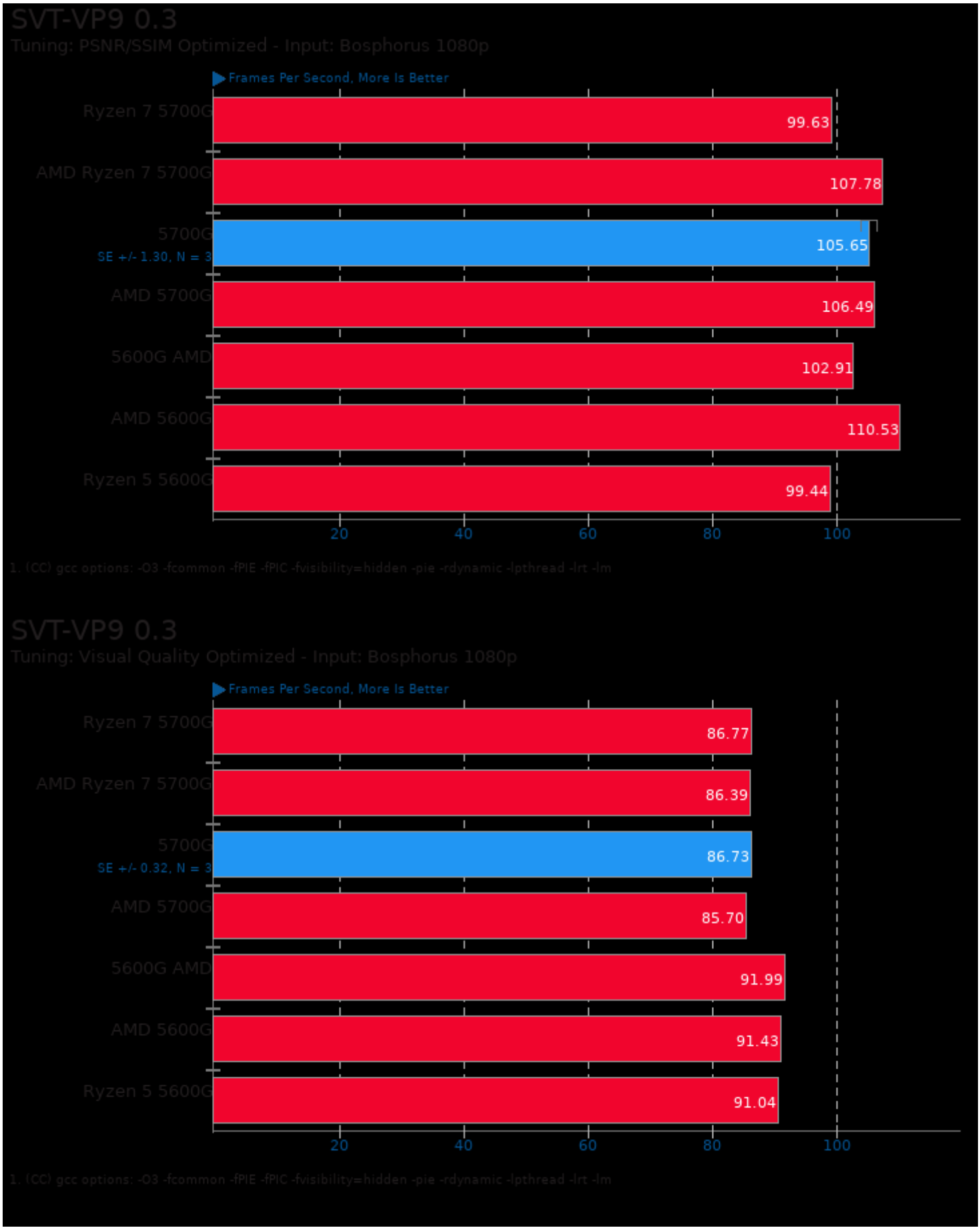

rav1e 0.4
Speed: 6
Frames Per Second, More Is Better
Ryzen 7 5700G
2.054
AMD Ryzen 7 5700G
2.062
5700G
SE +/- 0.003, N = 3
2.071
AMD 5700G
2.058
5600G AMD
1.998
AMD 5600G
2.010
Ryzen 5 5600G
2.002
0.466
0.932
1.398
1.864
2.33
rav1e 0.4
Speed: 10
Frames Per Second, More Is Better
Ryzen 7 5700G
4.695
AMD Ryzen 7 5700G
4.656
5700G
SE +/- 0.001, N = 3
4.671
AMD 5700G
4.641
5600G AMD
4.479
AMD 5600G
4.472
Ryzen 5 5600G
4.444
1.0564
2.1128
3.1692
4.2256
5.282

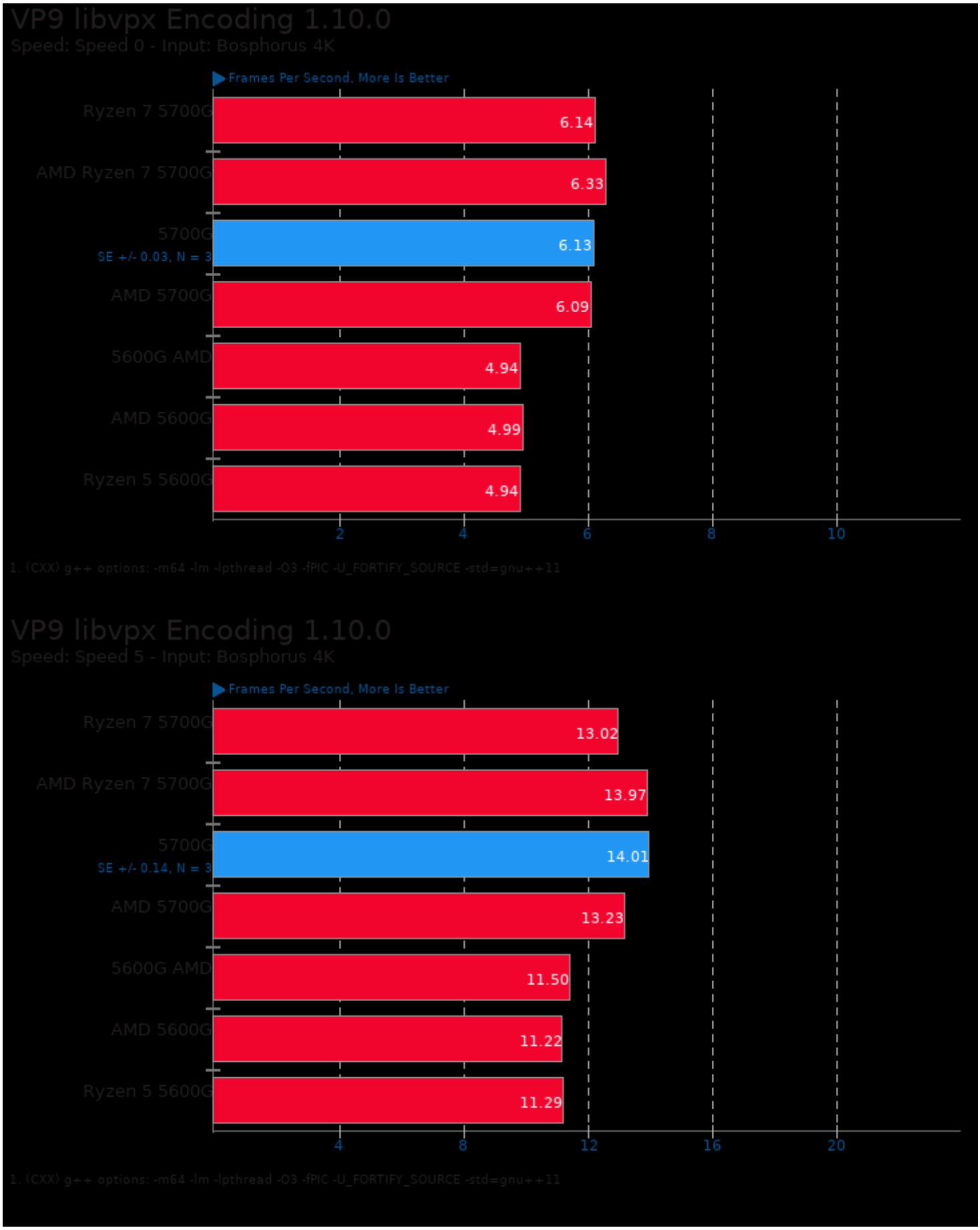

SVT-AV1 0.8.7
Encoder Mode: Preset 4 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
1.422
AMD Ryzen 7 5700G
1.427
5700G
SE +/- 0.002, N = 3
1.429
AMD 5700G
1.424
5600G AMD
1.331
AMD 5600G
1.333
Ryzen 5 5600G
1.337
0.3215
0.643
0.9645
1.286
1.6075
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
13.67
AMD Ryzen 7 5700G
13.75
5700G
SE +/- 0.03, N = 3
13.87
AMD 5700G
13.73
5600G AMD
13.00
AMD 5600G
13.05
Ryzen 5 5600G
13.04
4
8
12
16
20
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

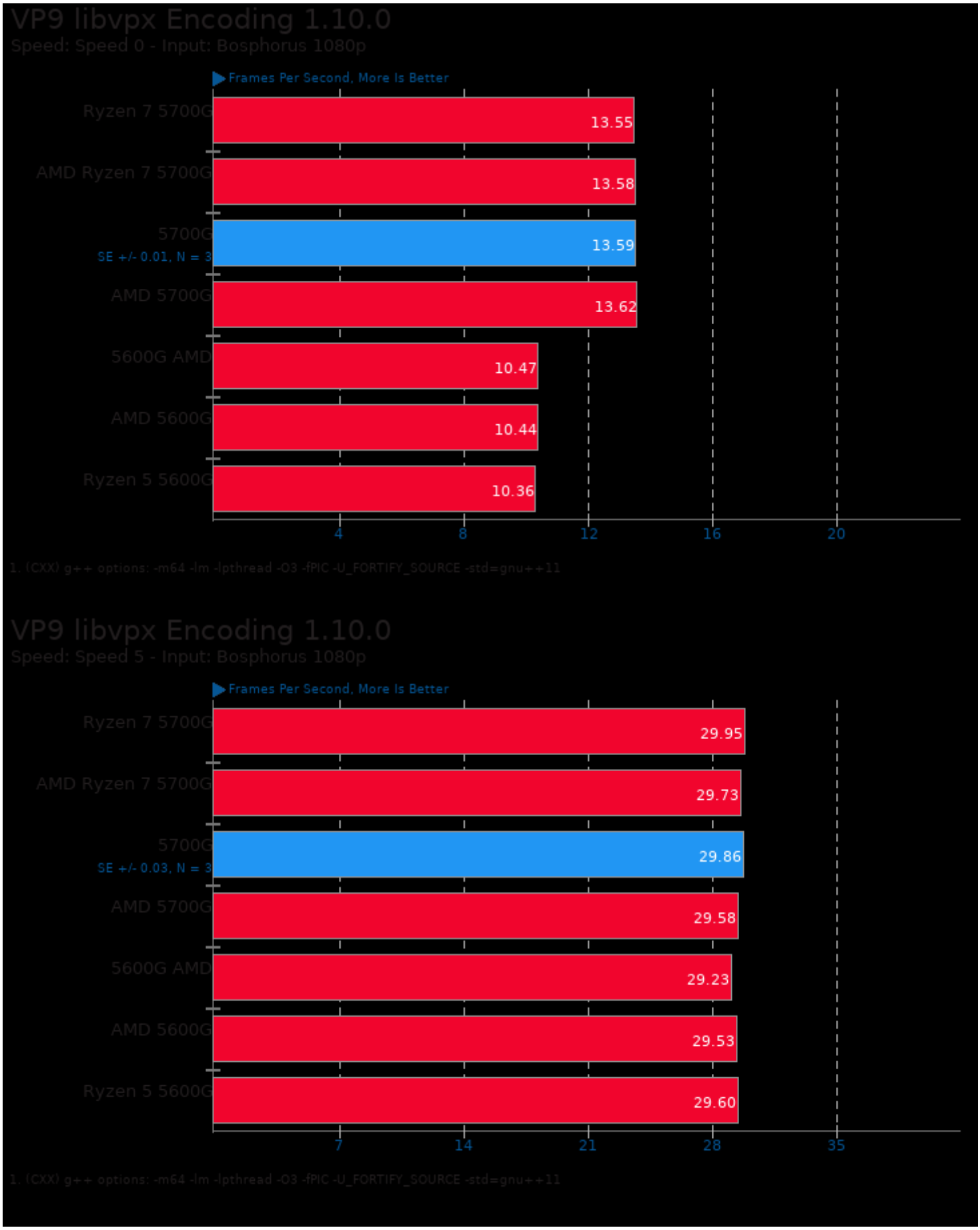

SVT-AV1 0.8.7
Encoder Mode: Preset 4 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
4.769
AMD Ryzen 7 5700G
4.775
5700G
SE +/- 0.016, N = 3
4.786
AMD 5700G
4.751
5600G AMD
3.603
AMD 5600G
3.603
Ryzen 5 5600G
3.600
1.0769
2.1538
3.2307
4.3076
5.3845
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie
SVT-AV1 0.8.7
Encoder Mode: Preset 8 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
44.67
AMD Ryzen 7 5700G
45.06
5700G
SE +/- 0.22, N = 3
44.88
AMD 5700G
44.52
5600G AMD
37.87
AMD 5600G
37.84
Ryzen 5 5600G
38.01
10
20
30
40
50
1. (CXX) g++ options: -mno-avx -mavx2 -mavx512f -mavx512bw -mavx512dq -pie

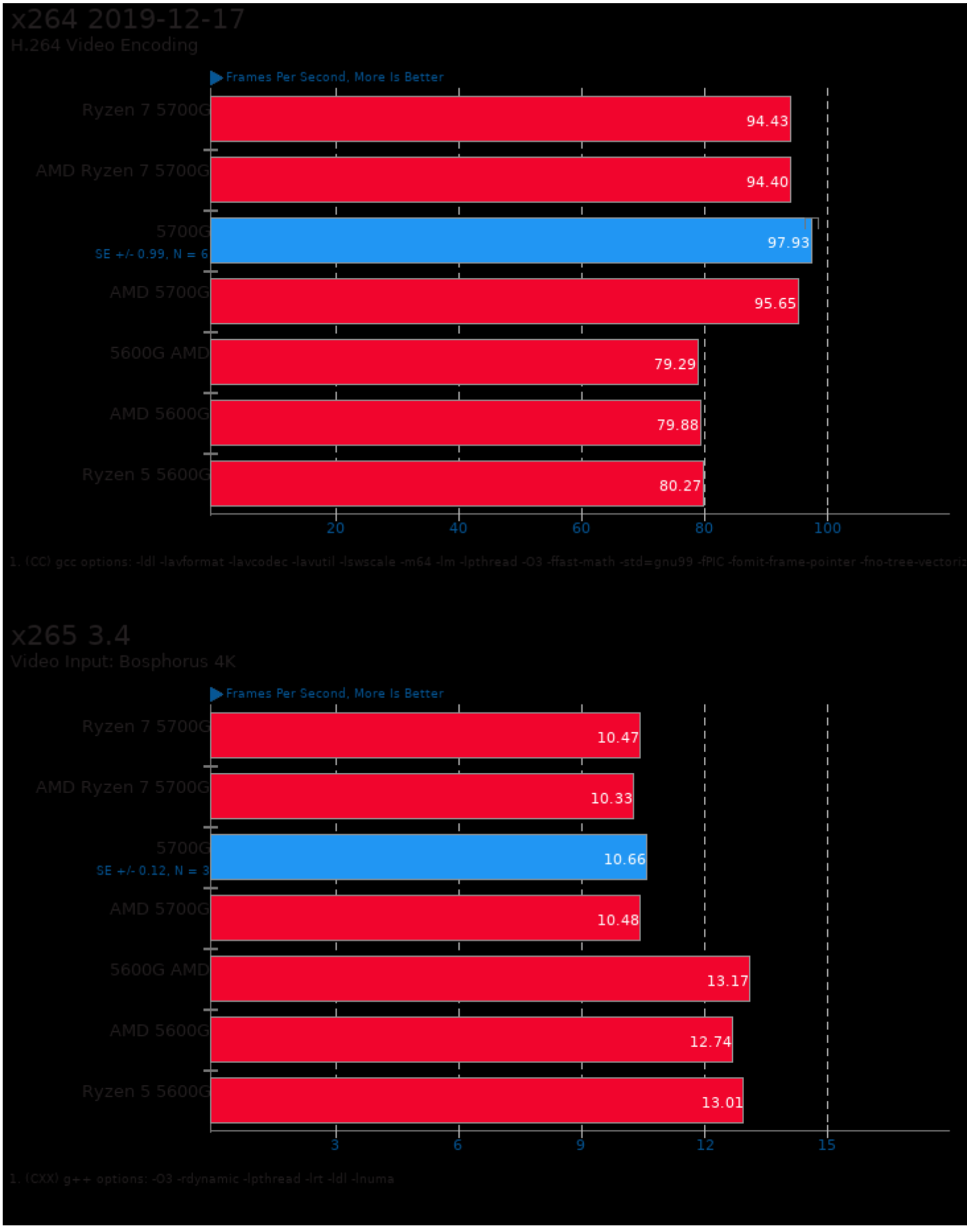

SVT-HEVC 1.5.0
Tuning: 1 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
8.20
AMD Ryzen 7 5700G
8.27
5700G
SE +/- 0.00, N = 3
8.26
AMD 5700G
8.25
5600G AMD
7.12
AMD 5600G
7.11
Ryzen 5 5600G
7.12
2
4
6
8
10
1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt
SVT-HEVC 1.5.0
Tuning: 7 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
73.15
AMD Ryzen 7 5700G
74.37
5700G
SE +/- 0.38, N = 3
74.38
AMD 5700G
73.15
5600G AMD
73.87
AMD 5600G
70.91
Ryzen 5 5600G
73.22
20
40
60
80
100
1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt

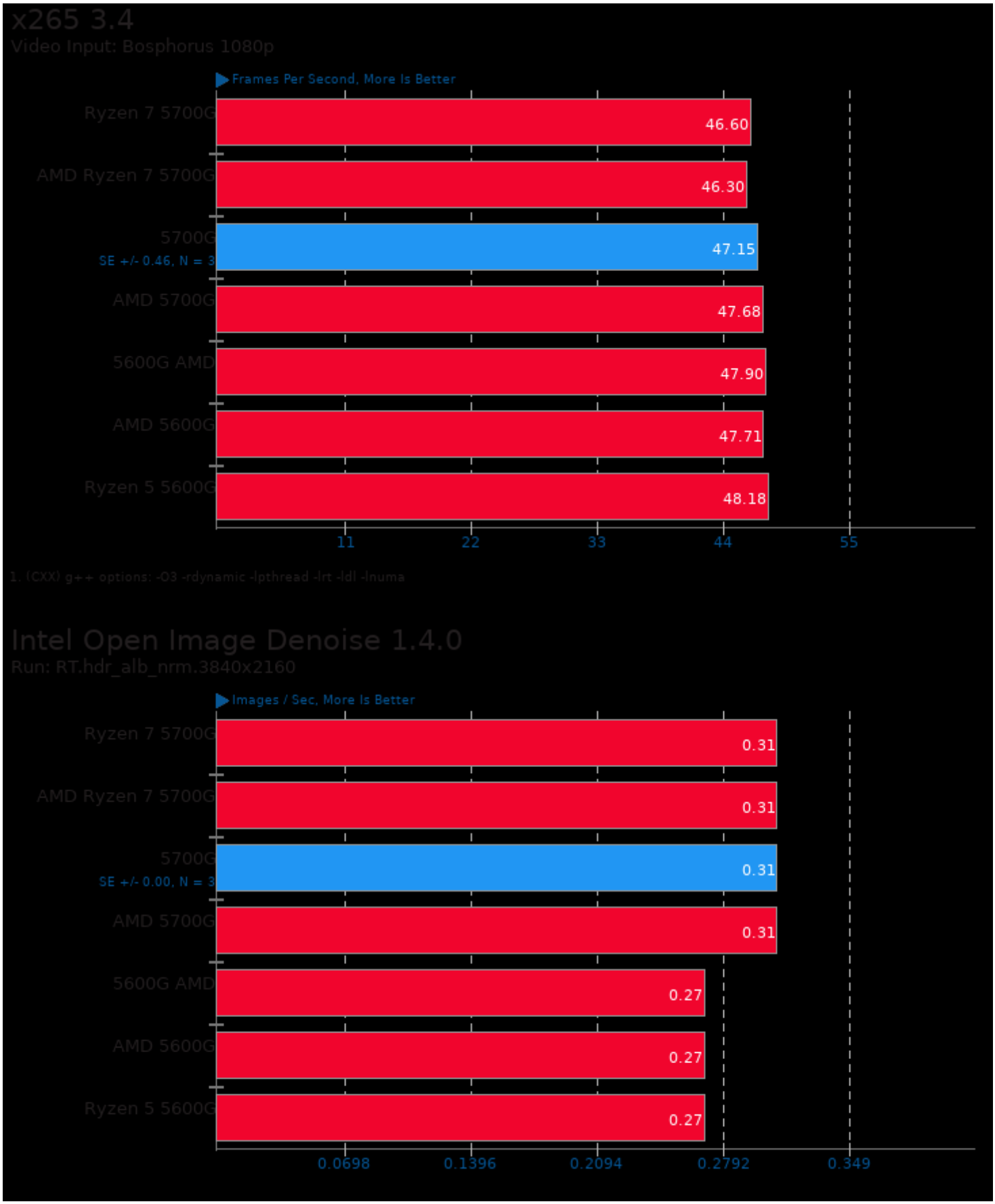

SVT-HEVC 1.5.0
Tuning: 10 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
153.85
AMD Ryzen 7 5700G
159.62
5700G
SE +/- 0.61, N = 3
157.43
AMD 5700G
158.39
5600G AMD
152.63
AMD 5600G
153.49
Ryzen 5 5600G
152.21
40
80
120
160
200
1. (CC) gcc options: -fPIE -fPIC -O3 -O2 -pie -rdynamic -lpthread -lrt
SVT-VP9 0.3
Tuning: VMAF Optimized - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
97.89
AMD Ryzen 7 5700G
98.77
5700G
SE +/- 1.24, N = 3
101.44
AMD 5700G
98.05
5600G AMD
97.28
AMD 5600G
97.42
Ryzen 5 5600G
97.06
20
40
60
80
100
1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

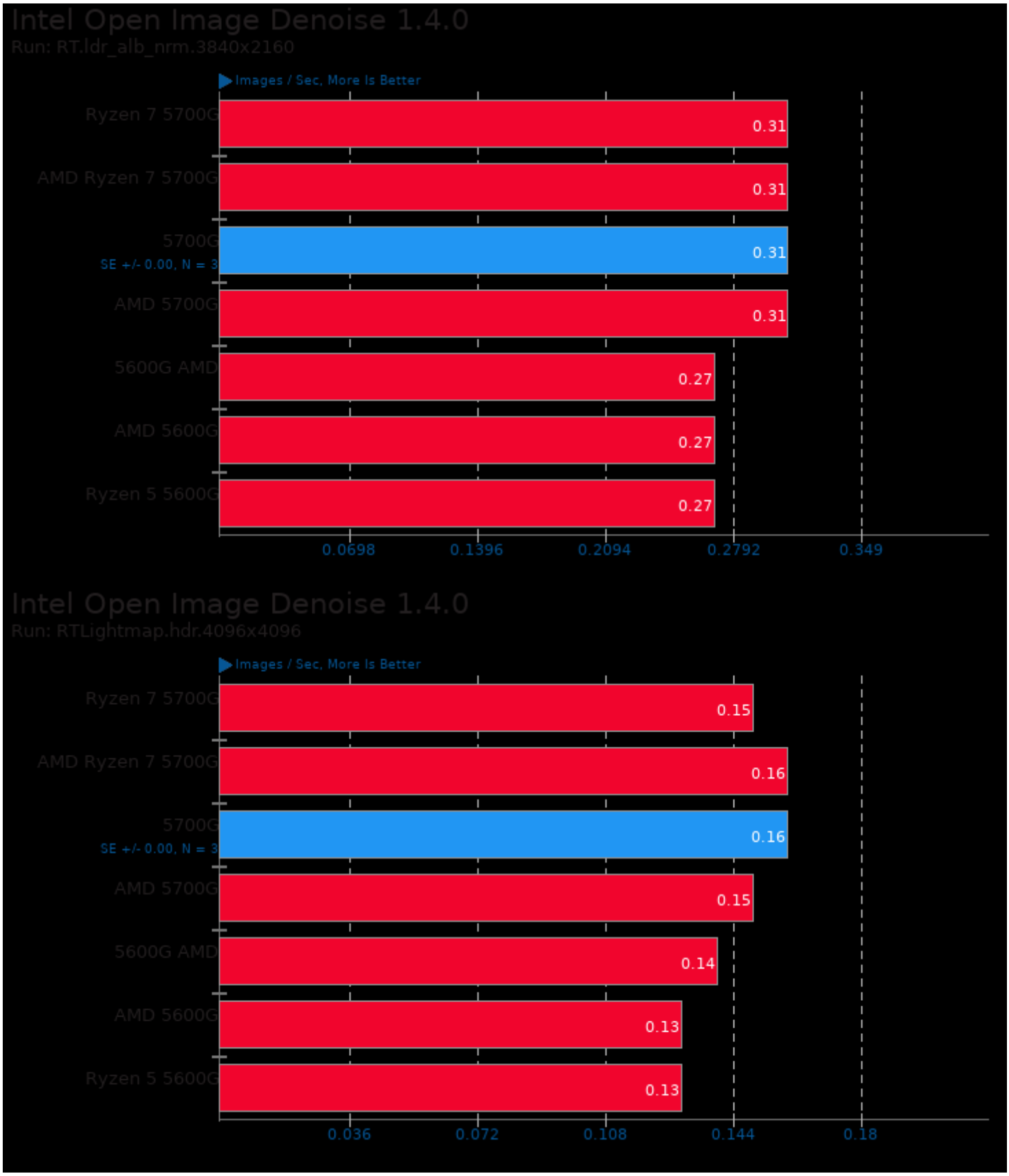

SVT-VP9 0.3
Tuning: PSNR/SSIM Optimized - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
99.63
AMD Ryzen 7 5700G
107.78
5700G
SE +/- 1.30, N = 3
105.65
AMD 5700G
106.49
5600G AMD
102.91
AMD 5600G
110.53
Ryzen 5 5600G
99.44
20
40
60
80
100
1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm
SVT-VP9 0.3
Tuning: Visual Quality Optimized - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
86.77
AMD Ryzen 7 5700G
86.39
5700G
SE +/- 0.32, N = 3
86.73
AMD 5700G
85.70
5600G AMD
91.99
AMD 5600G
91.43
Ryzen 5 5600G
91.04
20
40
60
80
100
1. (CC) gcc options: -O3 -fcommon -fPIE -fPIC -fvisibility=hidden -pie -rdynamic -lpthread -lrt -lm

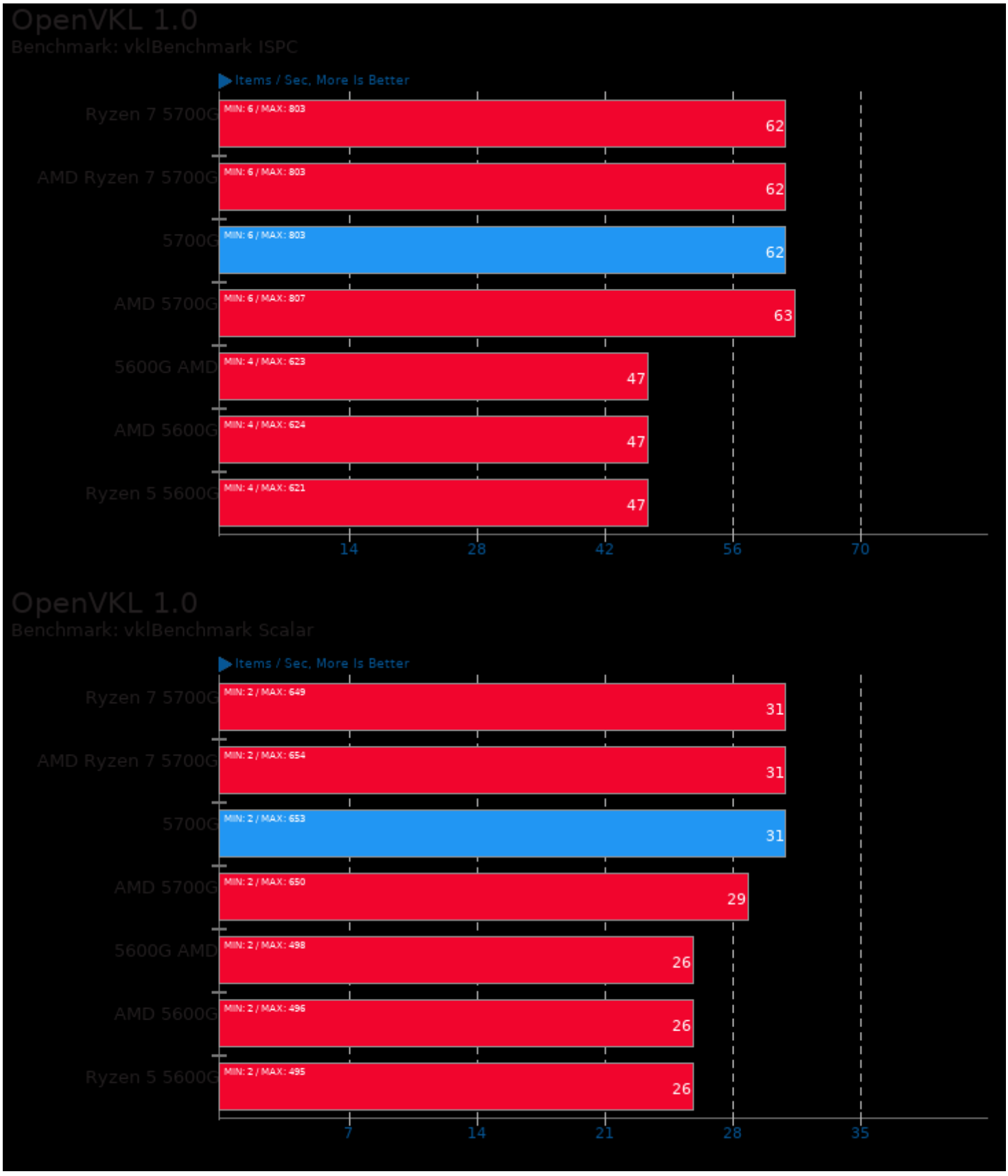

VP9 libvpx Encoding 1.10.0
Speed: Speed 0 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
6.14
AMD Ryzen 7 5700G
6.33
5700G
SE +/- 0.03, N = 3
6.13
AMD 5700G
6.09
5600G AMD
4.94
AMD 5600G
4.99
Ryzen 5 5600G
4.94
2
4
6
8
10
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11
VP9 libvpx Encoding 1.10.0
Speed: Speed 5 - Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
13.02
AMD Ryzen 7 5700G
13.97
5700G
SE +/- 0.14, N = 3
14.01
AMD 5700G
13.23
5600G AMD
11.50
AMD 5600G
11.22
Ryzen 5 5600G
11.29
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 0 - Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
13.55
AMD Ryzen 7 5700G
13.58
5700G
SE +/- 0.01, N = 3
13.59
AMD 5700G
13.62
5600G AMD
10.47
AMD 5600G
10.44
Ryzen 5 5600G
10.36
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
Ryzen 7 5700G
29.95
AMD Ryzen 7 5700G
29.73
5700G
SE +/- 0.03, N = 3
29.86
AMD 5700G
29.58
5600G AMD
29.23
AMD 5600G
29.53
Ryzen 5 5600G
29.60
7
14
21
28
35
1. (CXX) g++ options: -m64 -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE -std=gnu++11


x264 2019-12-17
H.264 Video Encoding
Frames Per Second, More Is Better
Ryzen 7 5700G
94.43
AMD Ryzen 7 5700G
94.40
5700G
SE +/- 0.99, N = 6
97.93
AMD 5700G
95.65
5600G AMD
79.29
AMD 5600G
79.88
Ryzen 5 5600G
80.27
20
40
60
80
100
1. (CC) gcc options: -ldl -lavformat -lavcodec -lavutil -lswscale -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectori
x265 3.4
Video Input: Bosphorus 4K
Frames Per Second, More Is Better
Ryzen 7 5700G
10.47
AMD Ryzen 7 5700G
10.33
5700G
SE +/- 0.12, N = 3
10.66
AMD 5700G
10.48
5600G AMD
13.17
AMD 5600G
12.74
Ryzen 5 5600G
13.01
3
6
9
12
15
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma

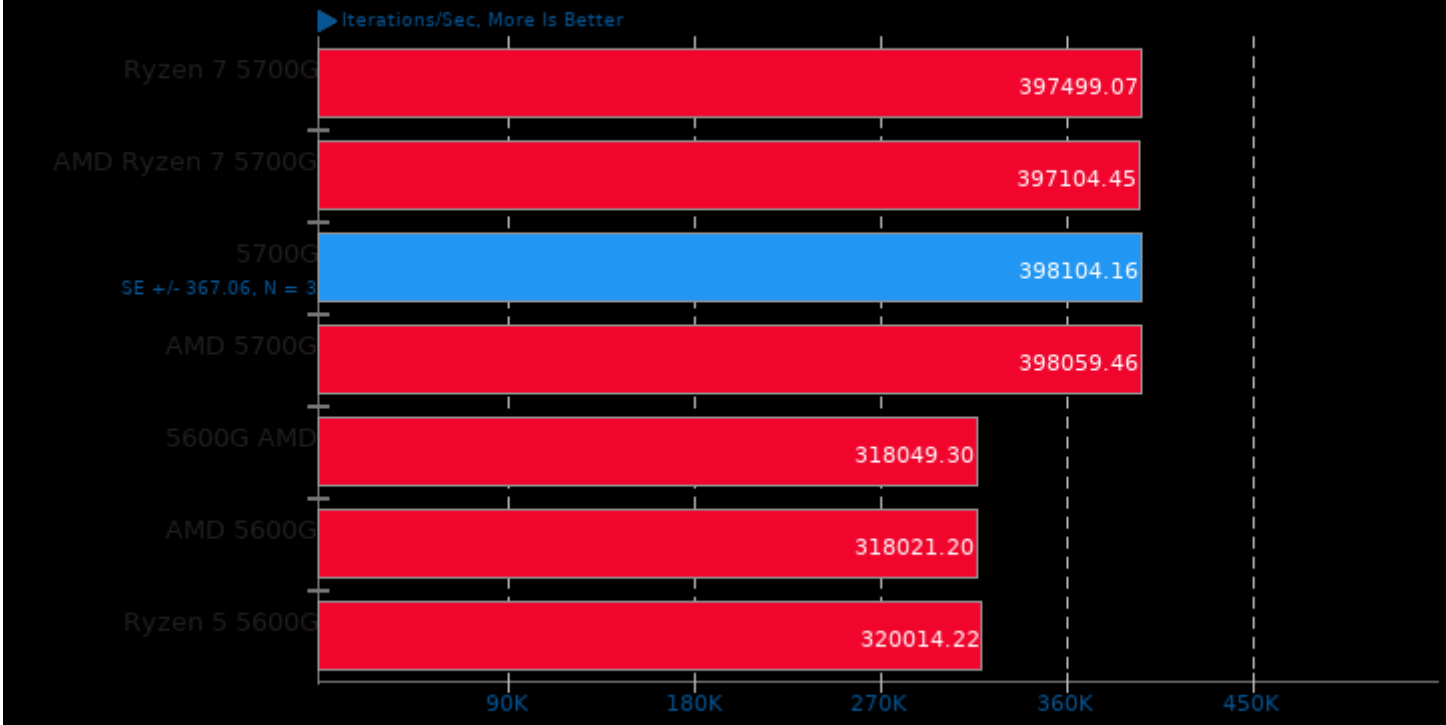

x265 3.4
Video Input: Bosphorus 1080p
Frames Per Second, More Is Better
Ryzen 7 5700G
46.60
AMD Ryzen 7 5700G
46.30
5700G
SE +/- 0.46, N = 3
47.15
AMD 5700G
47.68
5600G AMD
47.90
AMD 5600G
47.71
Ryzen 5 5600G
48.18
11
22
33
44
55
1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl -lnuma
Intel Open Image Denoise 1.4.0
Run: RT.hdr_alb_nrm.3840x2160
Images / Sec, More Is Better
Ryzen 7 5700G
0.31
AMD Ryzen 7 5700G
0.31
5700G
SE +/- 0.00, N = 3
0.31
AMD 5700G
0.31
5600G AMD
0.27
AMD 5600G
0.27
Ryzen 5 5600G
0.27
0.0698
0.1396
0.2094
0.2792
0.349


Intel Open Image Denoise 1.4.0
Run: RT.ldr_alb_nrm.3840x2160
Images / Sec, More Is Better
Ryzen 7 5700G
0.31
AMD Ryzen 7 5700G
0.31
5700G
SE +/- 0.00, N = 3
0.31
AMD 5700G
0.31
5600G AMD
0.27
AMD 5600G
0.27
Ryzen 5 5600G
0.27
0.0698
0.1396
0.2094
0.2792
0.349
Intel Open Image Denoise 1.4.0
Run: RTLightmap.hdr.4096x4096
Images / Sec, More Is Better
Ryzen 7 5700G
0.15
AMD Ryzen 7 5700G
0.16
5700G
SE +/- 0.00, N = 3
0.16
AMD 5700G
0.15
5600G AMD
0.14
AMD 5600G
0.13
Ryzen 5 5600G
0.13
0.036
0.072
0.108
0.144
0.18


OpenVKL 1.0
Benchmark: vklBenchmark ISPC
Items / Sec, More Is Better
Ryzen 7 5700G
MIN: 6 / MAX: 803
62
AMD Ryzen 7 5700G
MIN: 6 / MAX: 803
62
5700G
MIN: 6 / MAX: 803
62
AMD 5700G
MIN: 6 / MAX: 807
63
5600G AMD
MIN: 4 / MAX: 623
47
AMD 5600G
MIN: 4 / MAX: 624
47
Ryzen 5 5600G
MIN: 4 / MAX: 621
47
14
28
42
56
70
OpenVKL 1.0
Benchmark: vklBenchmark Scalar
Items / Sec, More Is Better
Ryzen 7 5700G
MIN: 2 / MAX: 649
31
AMD Ryzen 7 5700G
MIN: 2 / MAX: 654
31
5700G
MIN: 2 / MAX: 653
31
AMD 5700G
MIN: 2 / MAX: 650
29
5600G AMD
MIN: 2 / MAX: 498
26
AMD 5600G
MIN: 2 / MAX: 496
26
Ryzen 5 5600G
MIN: 2 / MAX: 495
26
7
14
21
28
35

Coremark 1.0

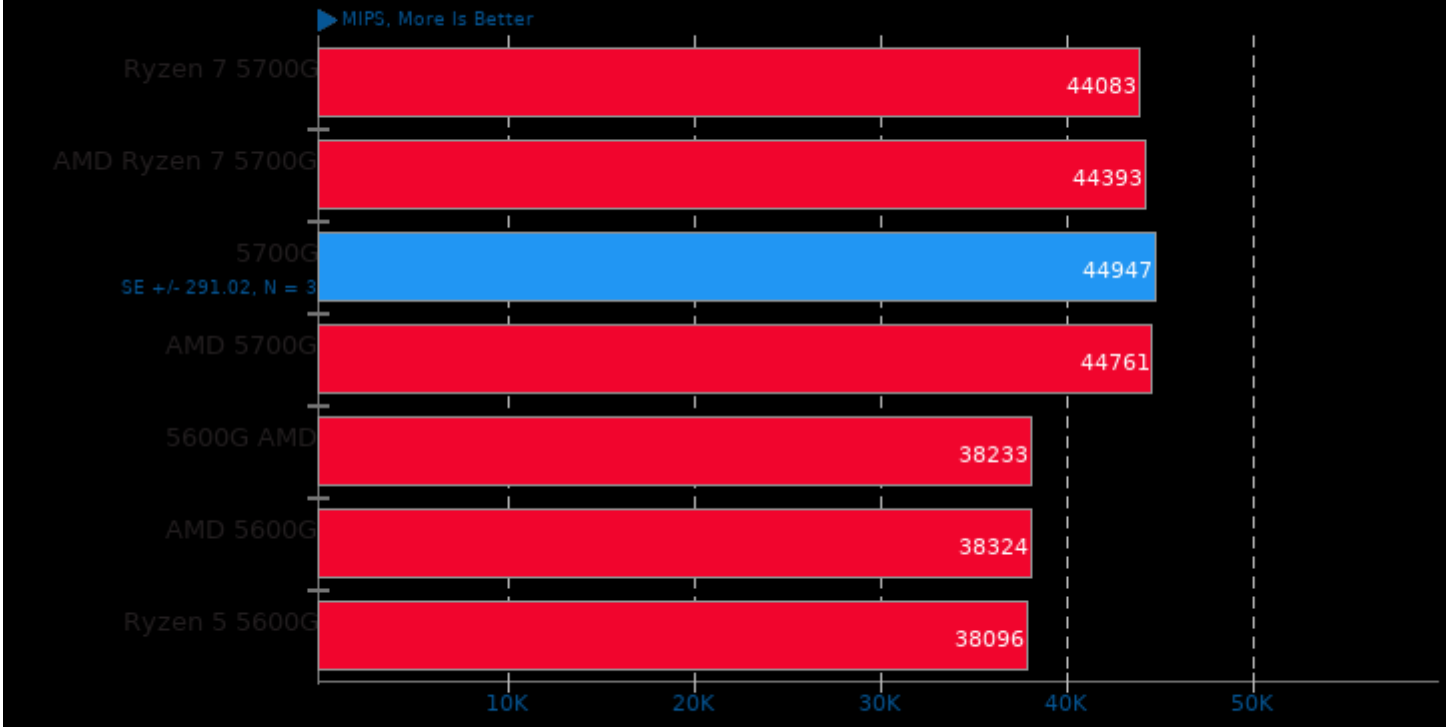
CoreMark Size 666 - Iterations Per Second



1. (CC) gcc options: -O2 -lrt -lrt

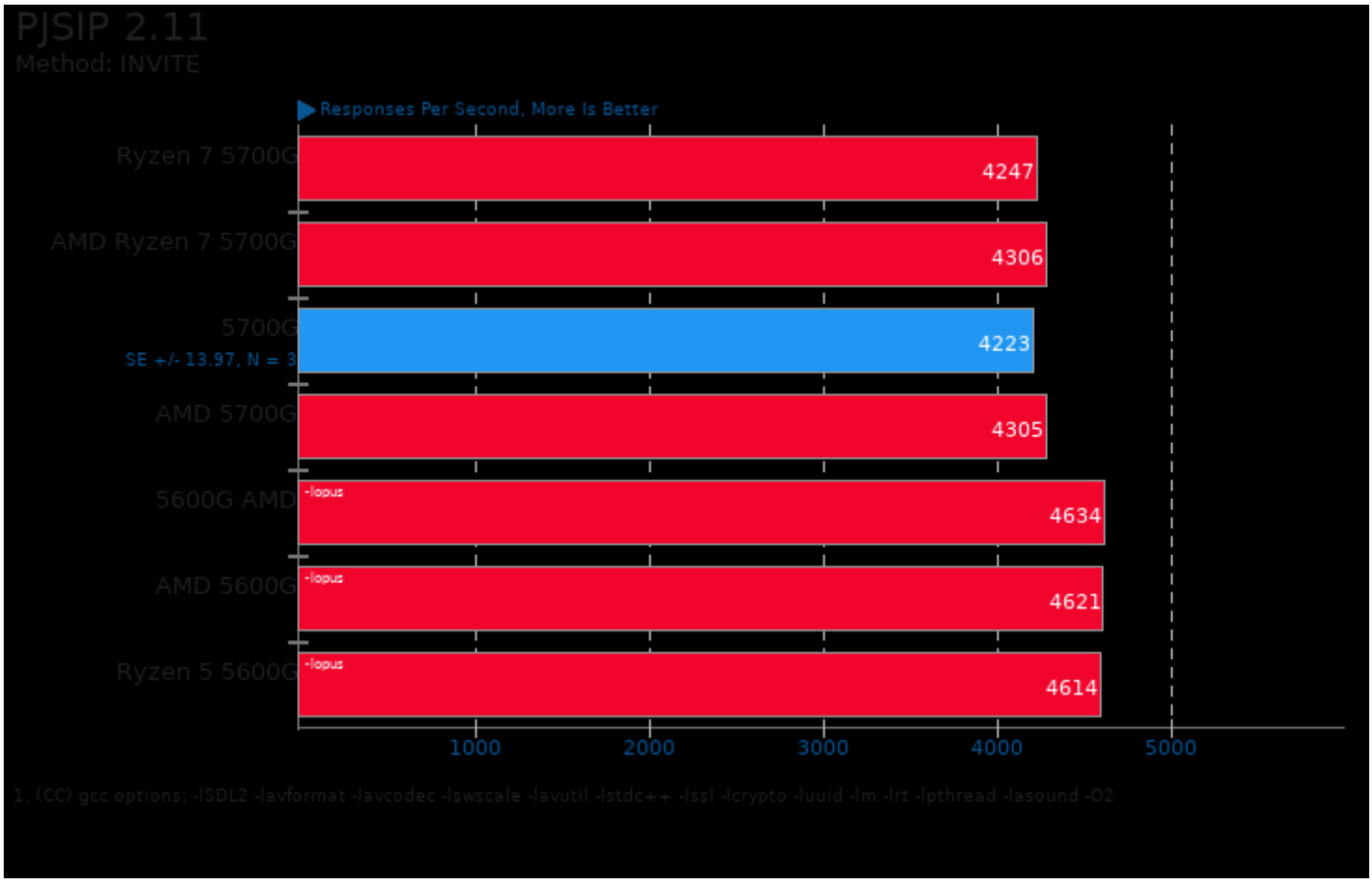
7-Zip Compression 16.02

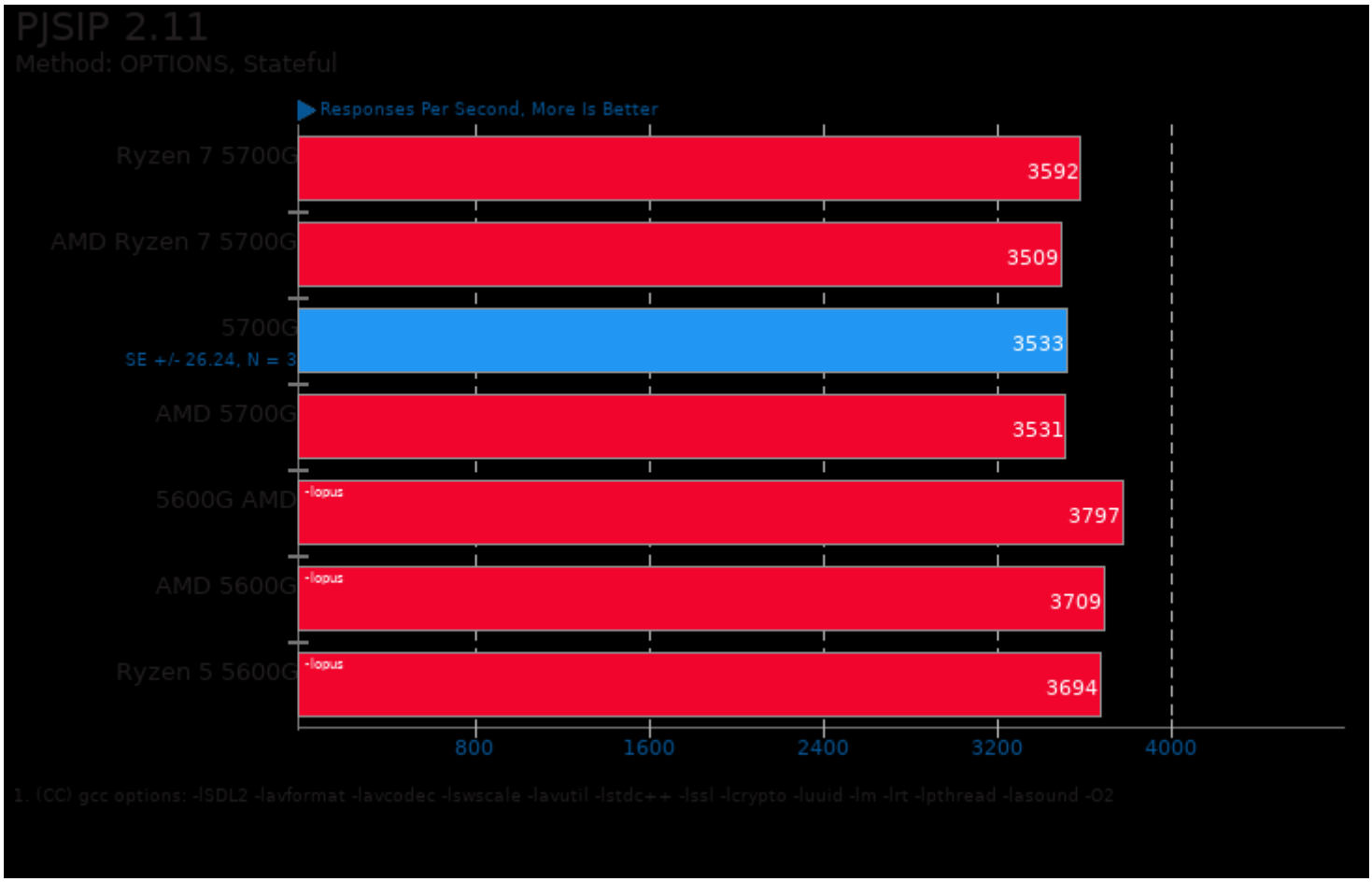
Compress Speed Test



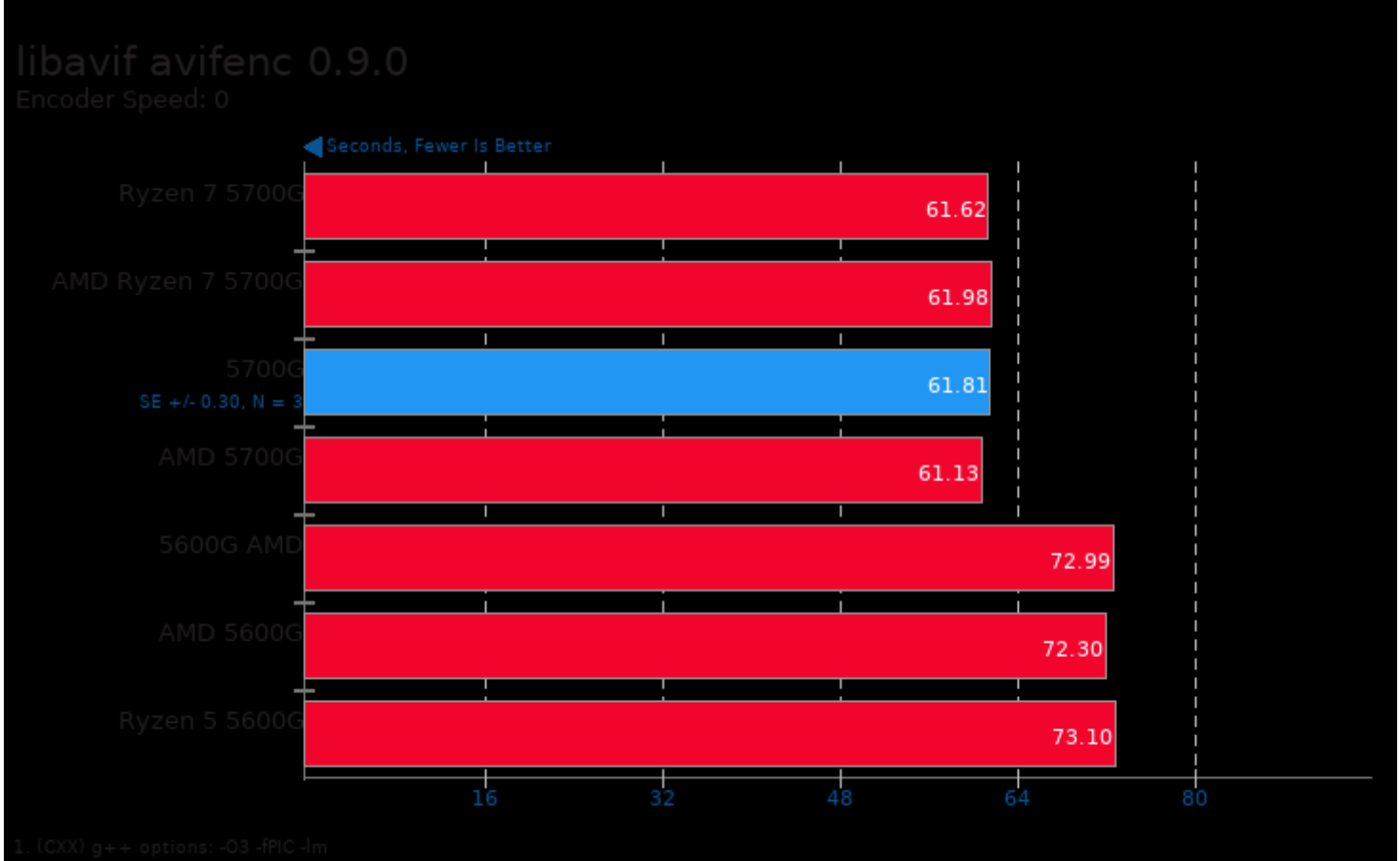
1. (CXX) g++ options: -pipe -lpthread

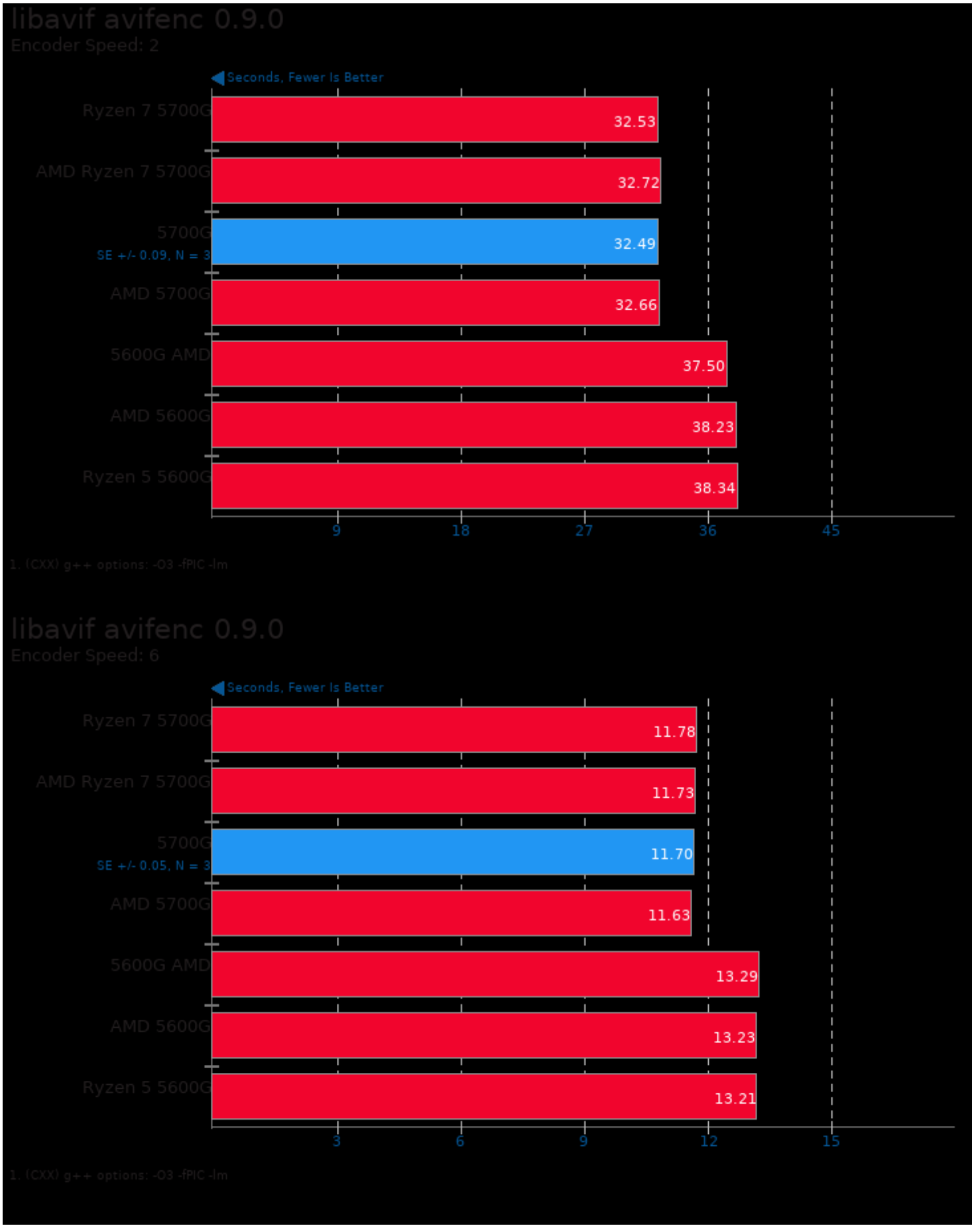

Stockfish 13
Total Time
Nodes Per Second, More Is Better
Ryzen 7 5700G
27926614
AMD Ryzen 7 5700G
28221769
5700G
SE +/- 134074.88, N = 3
28632289
AMD 5700G
28177495
5600G AMD
22930715
AMD 5600G
22797430
Ryzen 5 5600G
23245614
6M
12M
18M
24M
30M
1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt
asmFish 2018-07-23
1024 Hash Memory, 26 Depth
Nodes/second, More Is Better
Ryzen 7 5700G
33520741
AMD Ryzen 7 5700G
34028787
5700G
SE +/- 169865.76, N = 3
34352524
AMD 5700G
33166695
5600G AMD
25762270
AMD 5600G
25350310
Ryzen 5 5600G
25812989
7M
14M
21M
28M
35M

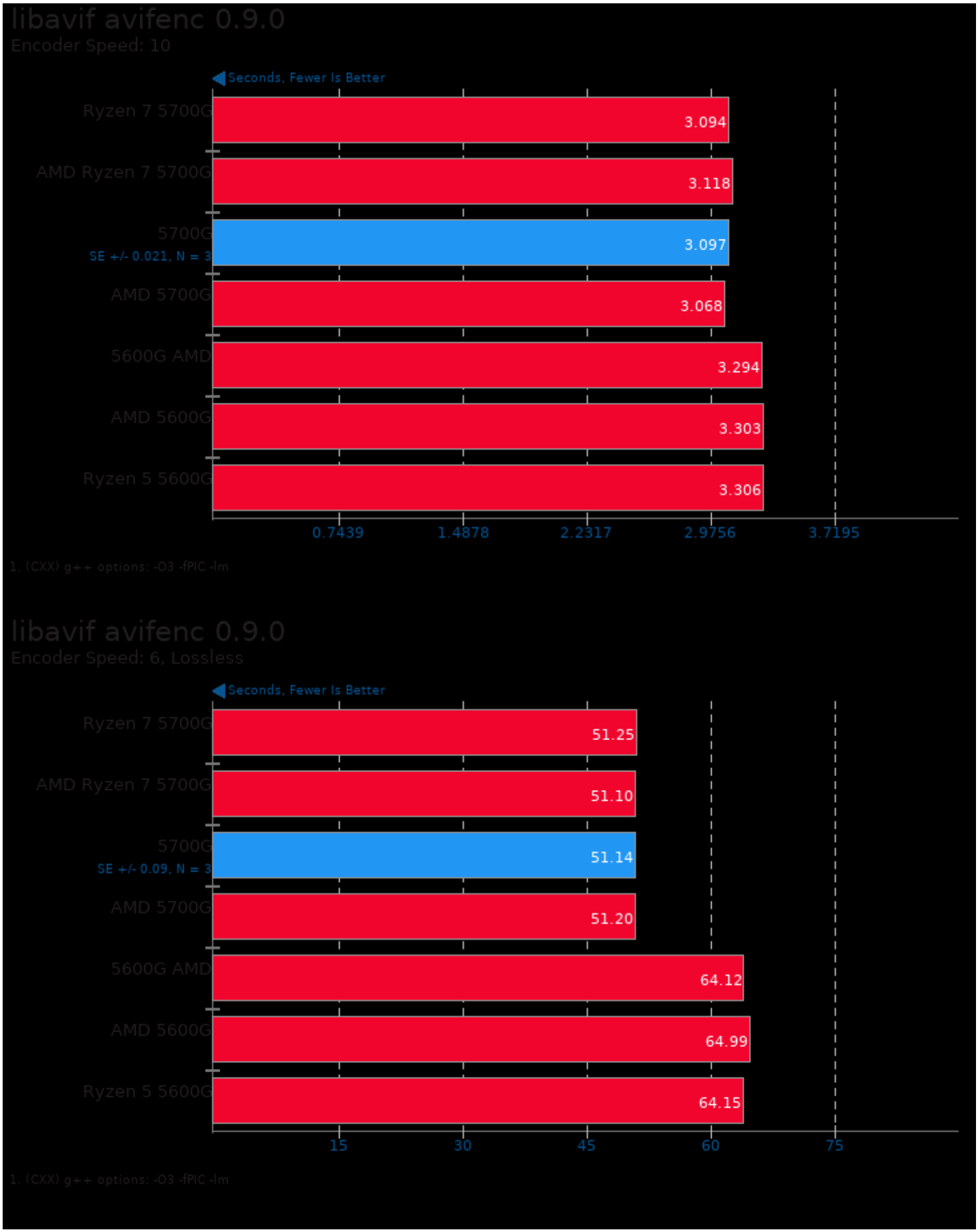

PJSIP 2.11
Method: INVITE
Responses Per Second, More Is Better
Ryzen 7 5700G
4247
AMD Ryzen 7 5700G
4306
5700G
SE +/- 13.97, N = 3
4223
AMD 5700G
4305
5600G AMD
-lopus
4634
AMD 5600G
-lopus
4621
Ryzen 5 5600G
-lopus
4614
1000
2000
3000
4000
5000
1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

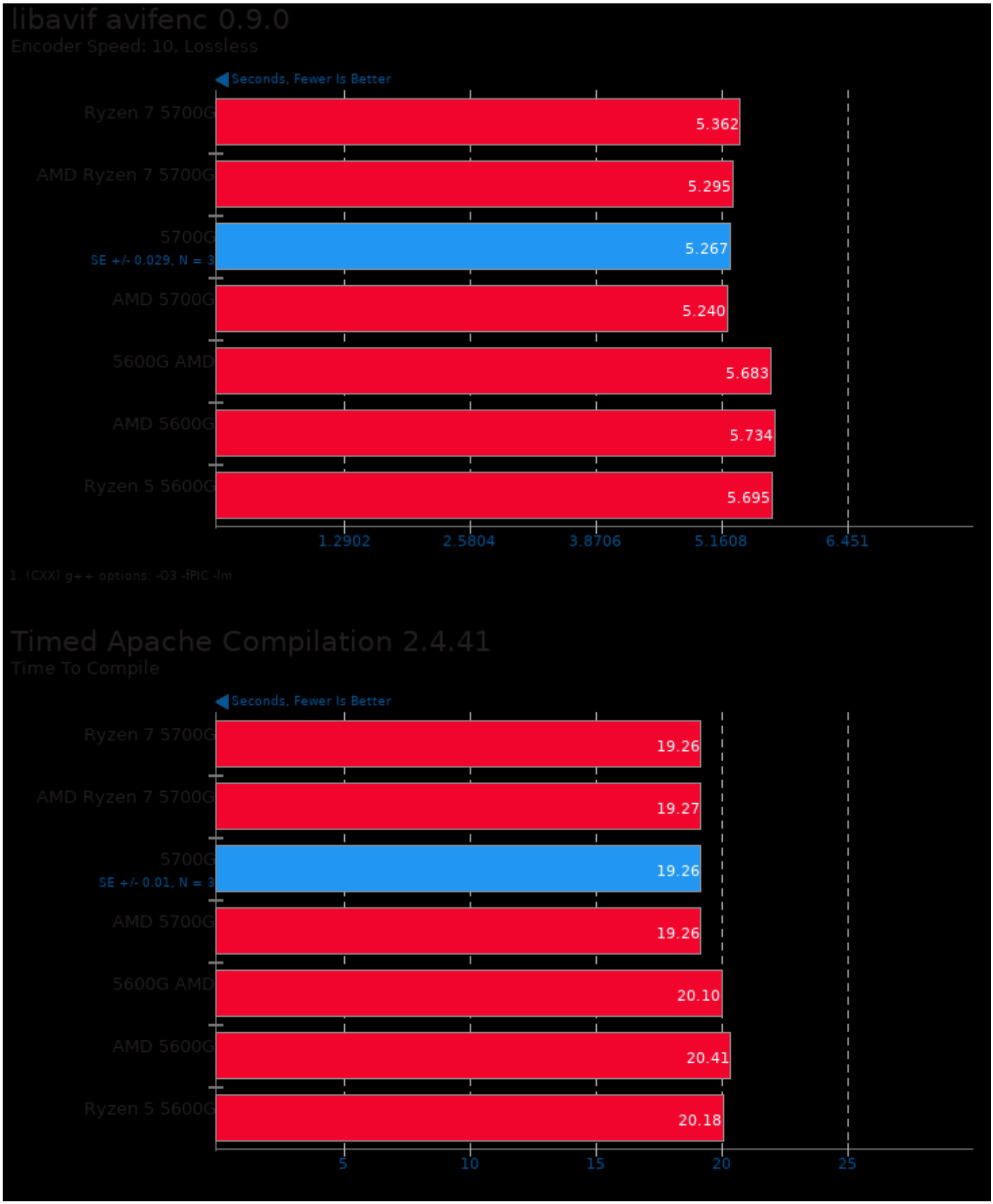

PJSIP 2.11
Method: OPTIONS, Stateful
Responses Per Second, More Is Better
Ryzen 7 5700G
3592
AMD Ryzen 7 5700G
3509
5700G
SE +/- 26.24, N = 3
3533
AMD 5700G
3531
5600G AMD
-lopus
3797
AMD 5600G
-lopus
3709
Ryzen 5 5600G
-lopus
3694
800
1600
2400
3200
4000
1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2


PJSIP 2.11
Method: OPTIONS, Stateless
Responses Per Second, More Is Better
Ryzen 7 5700G
85969
AMD Ryzen 7 5700G
85105
5700G
SE +/- 171.85, N = 3
85591
AMD 5700G
85330
5600G AMD
-lopus
88016
AMD 5600G
-lopus
88644
Ryzen 5 5600G
-lopus
88621
20K
40K
60K
80K
100K
1. (CC) gcc options: -lSDL2 -lavformat -lavcodec -lswscale -lavutil -lstdc++ -lssl -lcrypto -luuid -lm -lrt -lpthread -lasound -O2

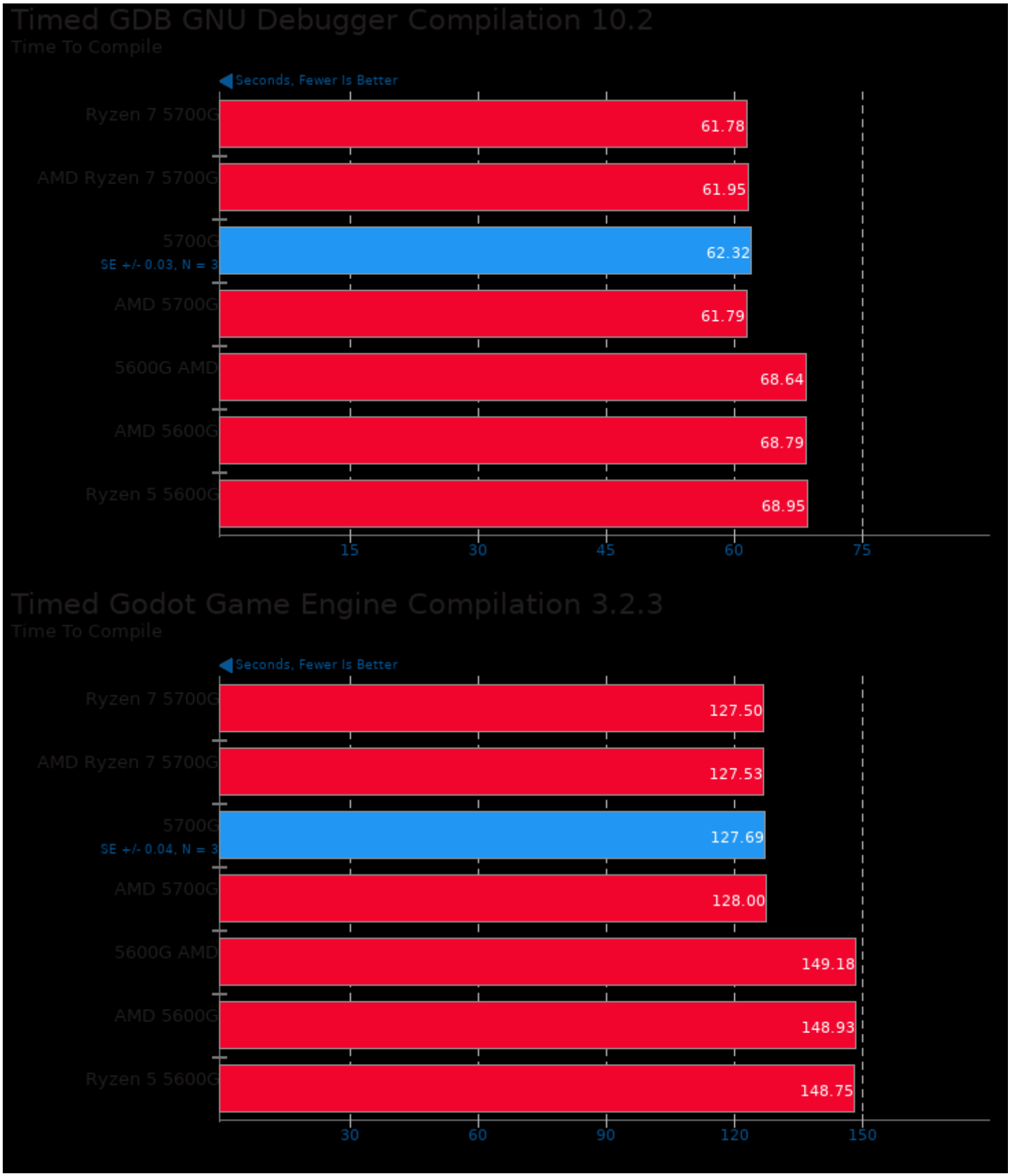

libavif avifenc 0.9.0
Encoder Speed: 0
Seconds, Fewer Is Better
Ryzen 7 5700G
61.62
AMD Ryzen 7 5700G
61.98
5700G
SE +/- 0.30, N = 3
61.81
AMD 5700G
61.13
5600G AMD
72.99
AMD 5600G
72.30
Ryzen 5 5600G
73.10
16
32
48
64
80
1. (CXX) g++ options: -O3 -fPIC -lm

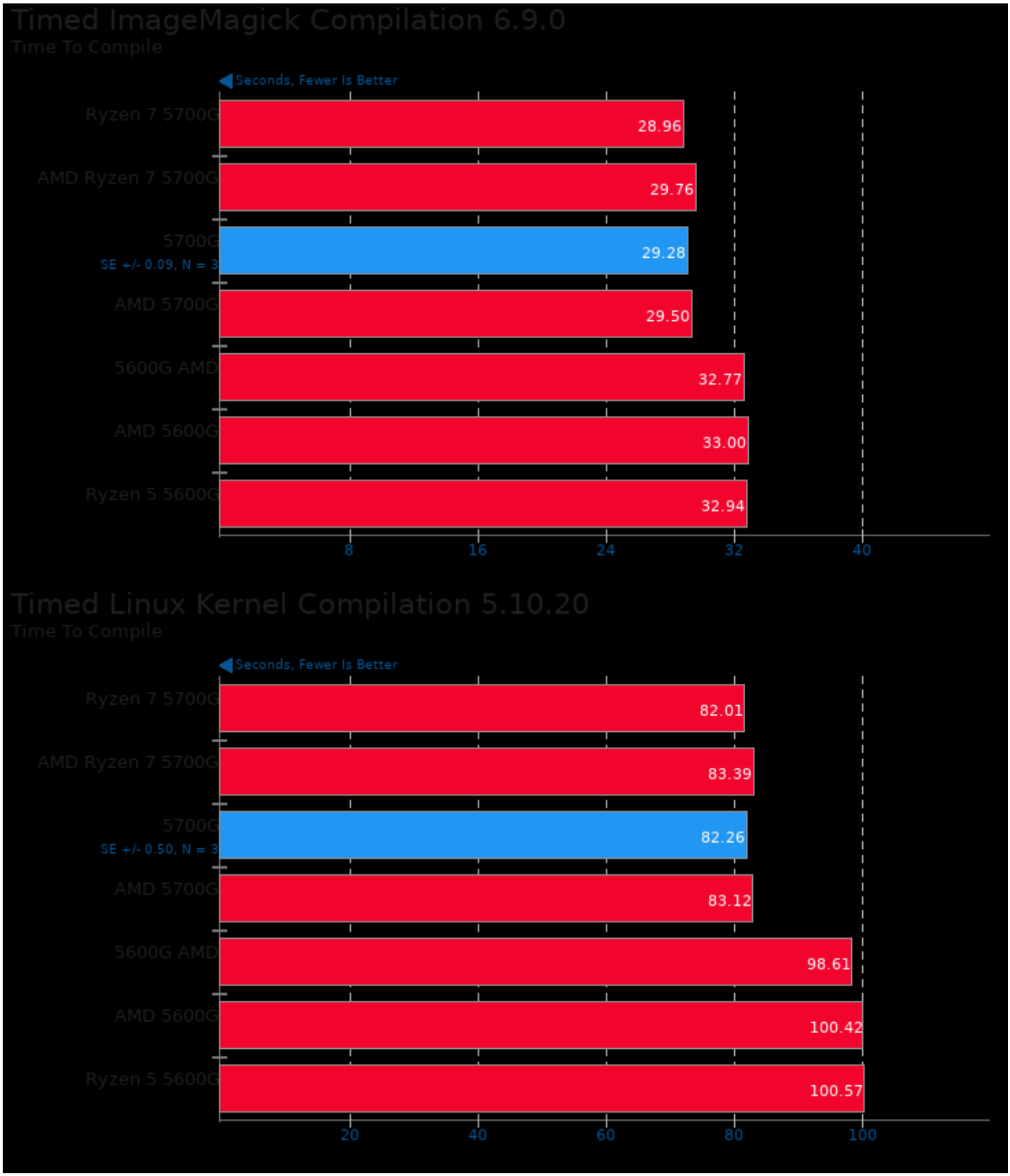

libavif avifenc 0.9.0
Encoder Speed: 2
Seconds, Fewer Is Better
Ryzen 7 5700G
32.53
AMD Ryzen 7 5700G
32.72
5700G
SE +/- 0.09, N = 3
32.49
AMD 5700G
32.66
5600G AMD
37.50
AMD 5600G
38.23
Ryzen 5 5600G
38.34
9
18
27
36
45
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 6
Seconds, Fewer Is Better
Ryzen 7 5700G
11.78
AMD Ryzen 7 5700G
11.73
5700G
SE +/- 0.05, N = 3
11.70
AMD 5700G
11.63
5600G AMD
13.29
AMD 5600G
13.23
Ryzen 5 5600G
13.21
3
6
9
12
15
1. (CXX) g++ options: -O3 -fPIC -lm

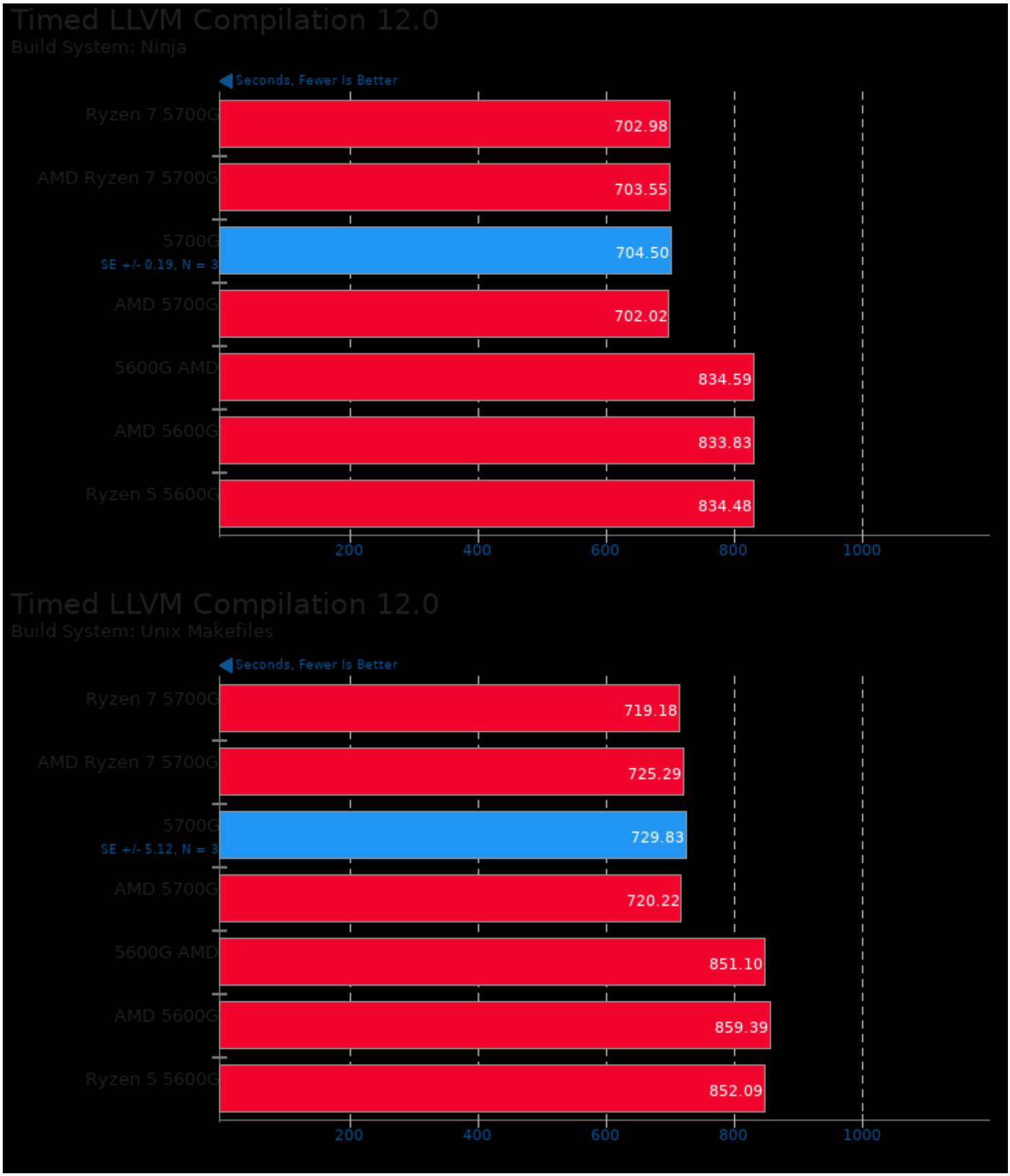

libavif avifenc 0.9.0
Encoder Speed: 10
Seconds, Fewer Is Better
Ryzen 7 5700G
3.094
AMD Ryzen 7 5700G
3.118
5700G
SE +/- 0.021, N = 3
3.097
AMD 5700G
3.068
5600G AMD
3.294
AMD 5600G
3.303
Ryzen 5 5600G
3.306
0.7439
1.4878
2.2317
2.9756
3.7195
1. (CXX) g++ options: -O3 -fPIC -lm
libavif avifenc 0.9.0
Encoder Speed: 6, Lossless
Seconds, Fewer Is Better
Ryzen 7 5700G
51.25
AMD Ryzen 7 5700G
51.10
5700G
SE +/- 0.09, N = 3
51.14
AMD 5700G
51.20
5600G AMD
64.12
AMD 5600G
64.99
Ryzen 5 5600G
64.15
15
30
45
60
75
1. (CXX) g++ options: -O3 -fPIC -lm

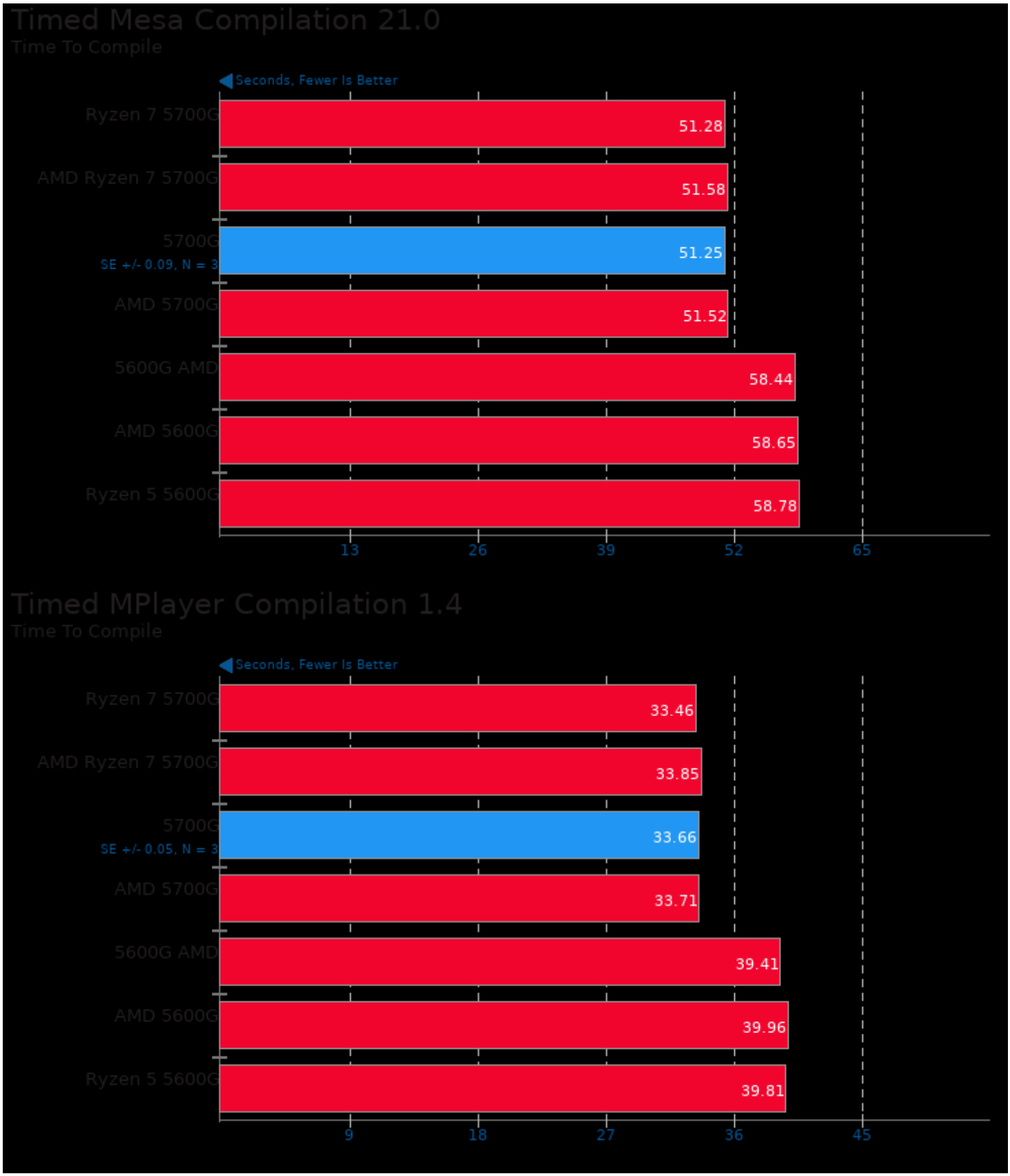

libavif avifenc 0.9.0
Encoder Speed: 10, Lossless
Seconds, Fewer Is Better
Ryzen 7 5700G
5.362
AMD Ryzen 7 5700G
5.295
5700G
SE +/- 0.029, N = 3
5.267
AMD 5700G
5.240
5600G AMD
5.683
AMD 5600G
5.734
Ryzen 5 5600G
5.695
1.2902
2.5804
3.8706
5.1608
6.451
1. (CXX) g++ options: -O3 -fPIC -lm
Timed Apache Compilation 2.4.41
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
19.26
AMD Ryzen 7 5700G
19.27
5700G
SE +/- 0.01, N = 3
19.26
AMD 5700G
19.26
5600G AMD
20.10
AMD 5600G
20.41
Ryzen 5 5600G
20.18
5
10
15
20
25


Timed FFmpeg Compilation 4.4
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
51.18
AMD Ryzen 7 5700G
51.79
5700G
SE +/- 0.08, N = 3
51.87
AMD 5700G
51.60
5600G AMD
61.03
AMD 5600G
61.67
Ryzen 5 5600G
61.21
14
28
42
56
70
Timed GCC Compilation 11.2.0
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
992.83
AMD Ryzen 7 5700G
993.71
5700G
SE +/- 1.20, N = 3
992.86
AMD 5700G
994.90
5600G AMD
1128.73
AMD 5600G
1126.66
Ryzen 5 5600G
1126.92
200
400
600
800
1000


Timed GDB GNU Debugger Compilation 10.2
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
61.78
AMD Ryzen 7 5700G
61.95
5700G
SE +/- 0.03, N = 3
62.32
AMD 5700G
61.79
5600G AMD
68.64
AMD 5600G
68.79
Ryzen 5 5600G
68.95
15
30
45
60
75
Timed Godot Game Engine Compilation 3.2.3
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
127.50
AMD Ryzen 7 5700G
127.53
5700G
SE +/- 0.04, N = 3
127.69
AMD 5700G
128.00
5600G AMD
149.18
AMD 5600G
148.93
Ryzen 5 5600G
148.75
30
60
90
120
150

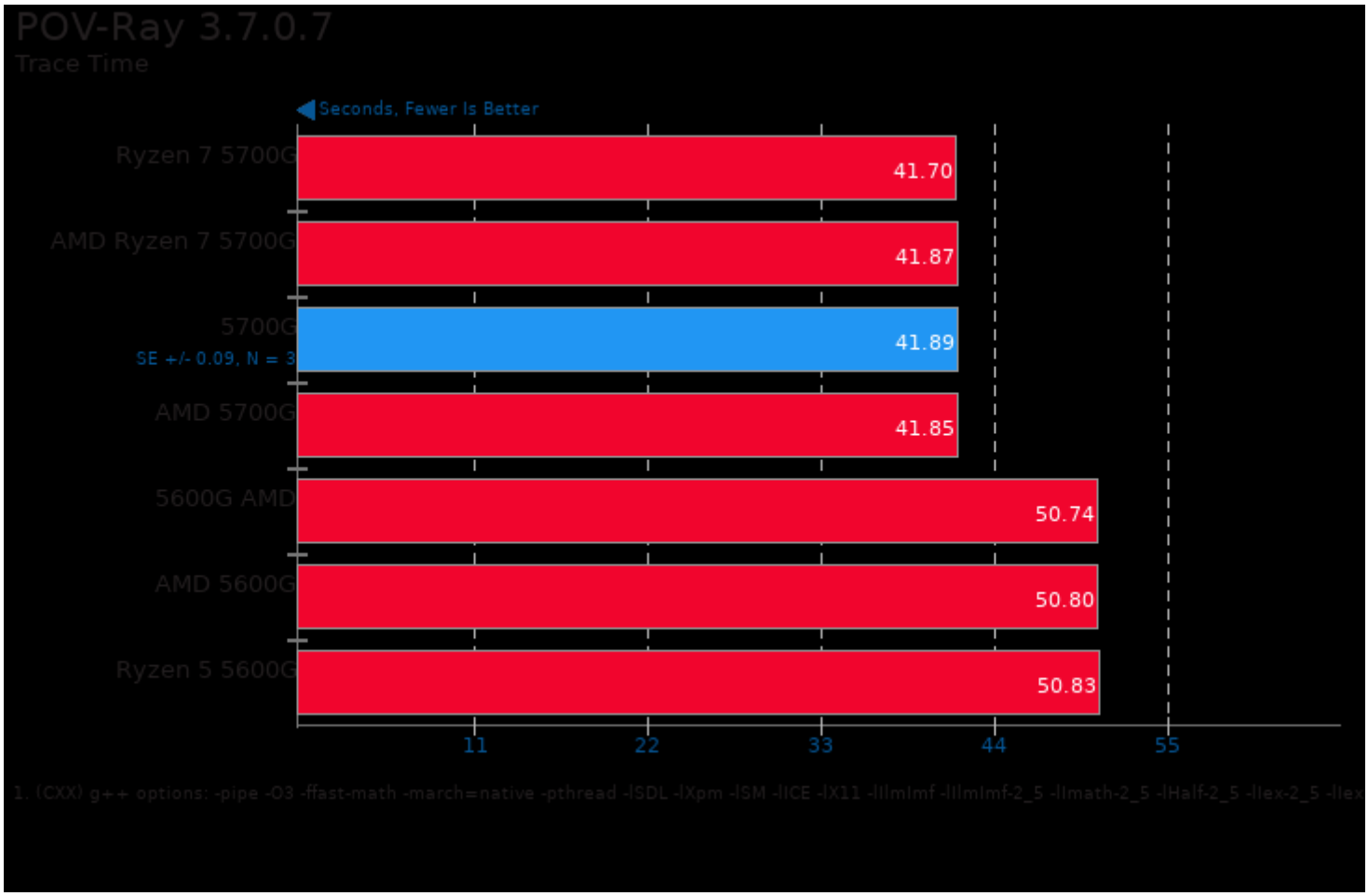

Timed ImageMagick Compilation 6.9.0
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
28.96
AMD Ryzen 7 5700G
29.76
5700G
SE +/- 0.09, N = 3
29.28
AMD 5700G
29.50
5600G AMD
32.77
AMD 5600G
33.00
Ryzen 5 5600G
32.94
8
16
24
32
40
Timed Linux Kernel Compilation 5.10.20
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
82.01
AMD Ryzen 7 5700G
83.39
5700G
SE +/- 0.50, N = 3
82.26
AMD 5700G
83.12
5600G AMD
98.61
AMD 5600G
100.42
Ryzen 5 5600G
100.57
20
40
60
80
100

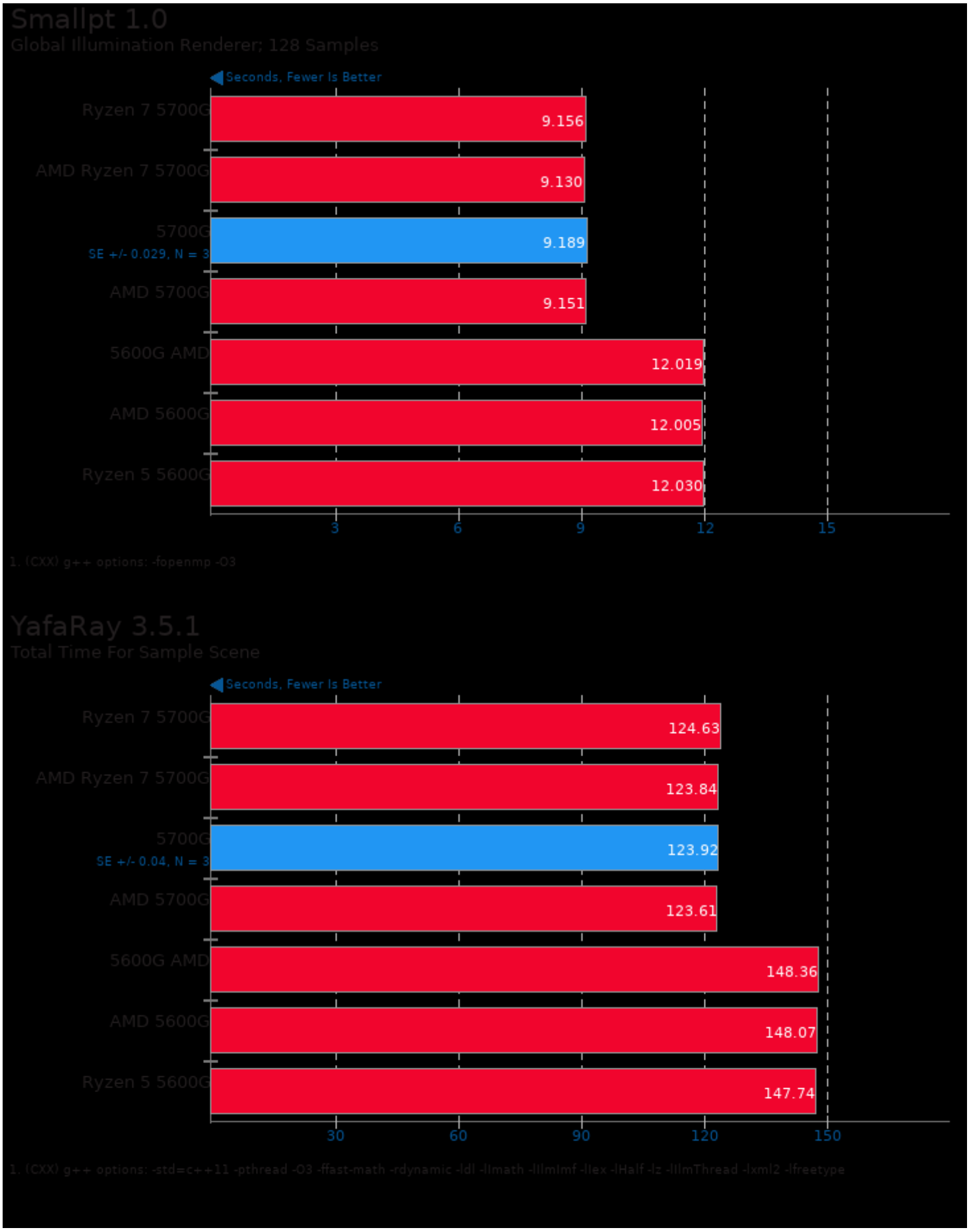

Timed LLVM Compilation 12.0
Build System: Ninja
Seconds, Fewer Is Better
Ryzen 7 5700G
702.98
AMD Ryzen 7 5700G
703.55
5700G
SE +/- 0.19, N = 3
704.50
AMD 5700G
702.02
5600G AMD
834.59
AMD 5600G
833.83
Ryzen 5 5600G
834.48
200
400
600
800
1000
Timed LLVM Compilation 12.0
Build System: Unix Makefiles
Seconds, Fewer Is Better
Ryzen 7 5700G
719.18
AMD Ryzen 7 5700G
725.29
5700G
SE +/- 5.12, N = 3
729.83
AMD 5700G
720.22
5600G AMD
851.10
AMD 5600G
859.39
Ryzen 5 5600G
852.09
200
400
600
800
1000


Timed Mesa Compilation 21.0
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
51.28
AMD Ryzen 7 5700G
51.58
5700G
SE +/- 0.09, N = 3
51.25
AMD 5700G
51.52
5600G AMD
58.44
AMD 5600G
58.65
Ryzen 5 5600G
58.78
13
26
39
52
65
Timed MPlayer Compilation 1.4
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
33.46
AMD Ryzen 7 5700G
33.85
5700G
SE +/- 0.05, N = 3
33.66
AMD 5700G
33.71
5600G AMD
39.41
AMD 5600G
39.96
Ryzen 5 5600G
39.81
9
18
27
36
45

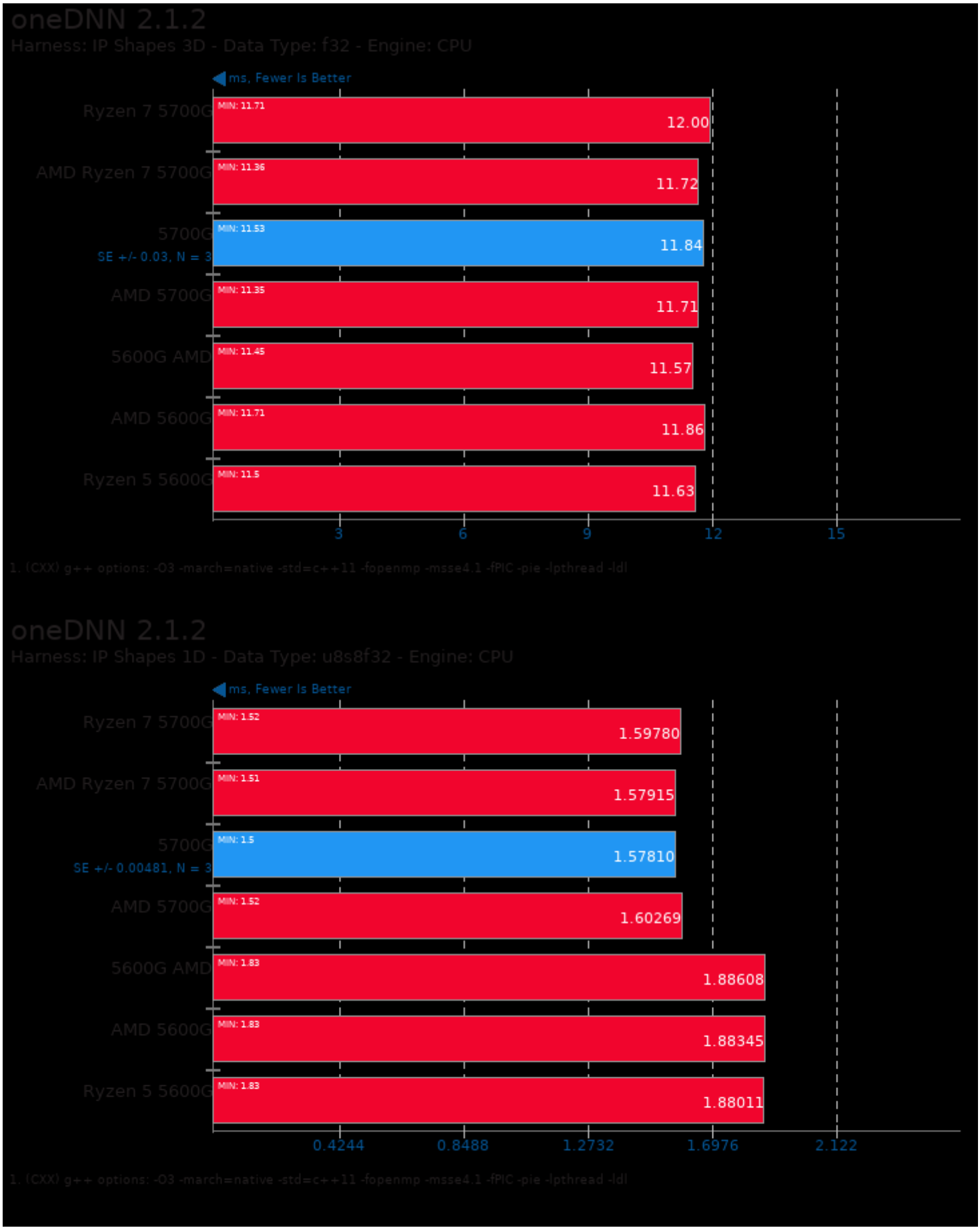

Timed Node.js Compilation 15.11
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
466.14
AMD Ryzen 7 5700G
465.73
5700G
SE +/- 0.06, N = 3
465.04
AMD 5700G
462.47
5600G AMD
541.02
AMD 5600G
541.80
Ryzen 5 5600G
540.91
120
240
360
480
600
Timed PHP Compilation 7.4.2
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
54.73
AMD Ryzen 7 5700G
55.04
5700G
SE +/- 0.03, N = 3
54.97
AMD 5700G
55.00
5600G AMD
61.22
AMD 5600G
61.77
Ryzen 5 5600G
61.58
14
28
42
56
70

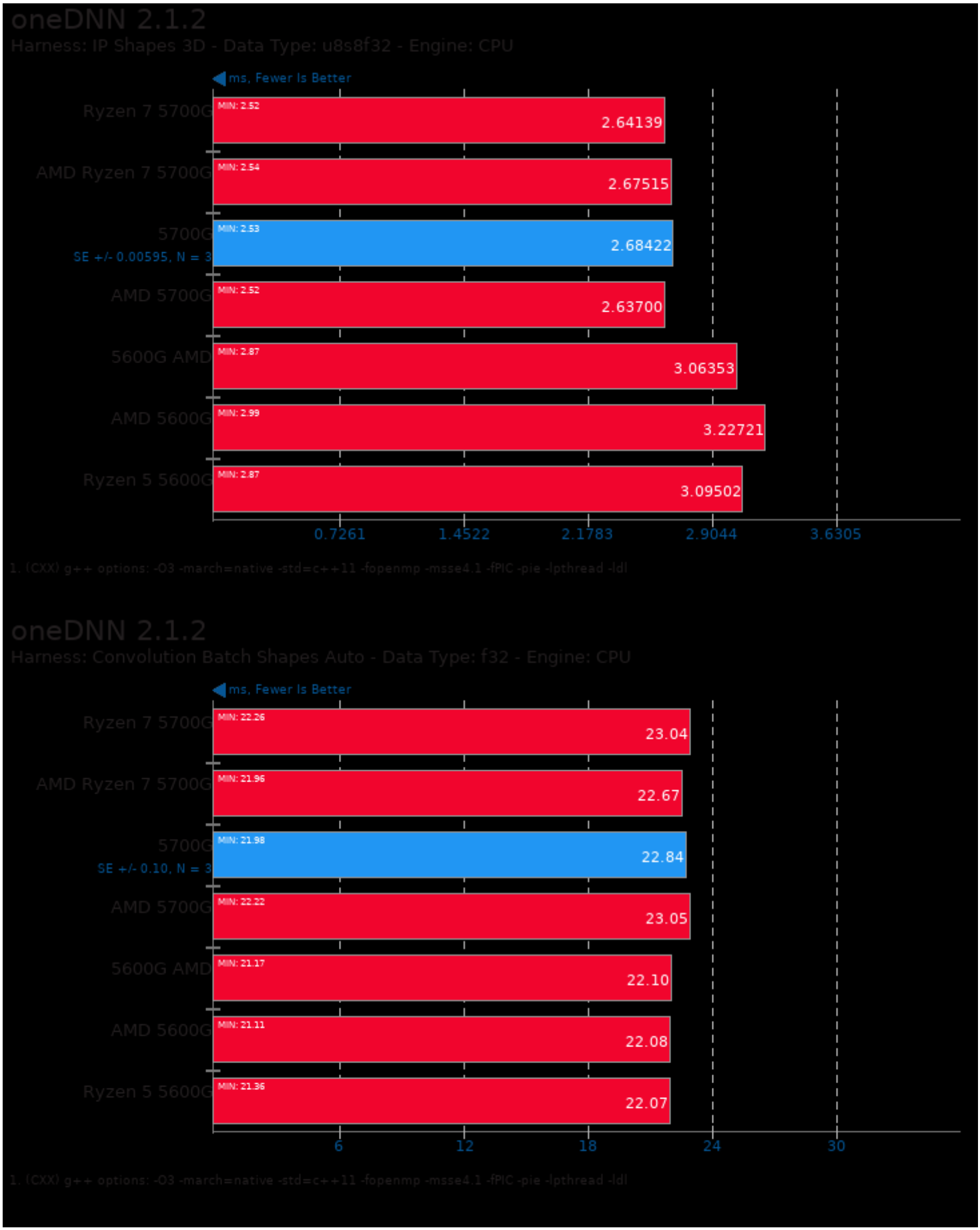

Build2 0.13
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
135.63
AMD Ryzen 7 5700G
136.82
5700G
SE +/- 0.30, N = 3
135.82
AMD 5700G
136.93
5600G AMD
161.12
AMD 5600G
157.58
Ryzen 5 5600G
159.15
40
80
120
160
200
C-Ray 1.1
Total Time - 4K, 16 Rays Per Pixel
Seconds, Fewer Is Better
Ryzen 7 5700G
58.41
AMD Ryzen 7 5700G
58.37
5700G
SE +/- 0.04, N = 3
58.50
AMD 5700G
58.40
5600G AMD
76.10
AMD 5600G
75.82
Ryzen 5 5600G
75.84
20
40
60
80
100
1. (CC) gcc options: -lm -lpthread -O3

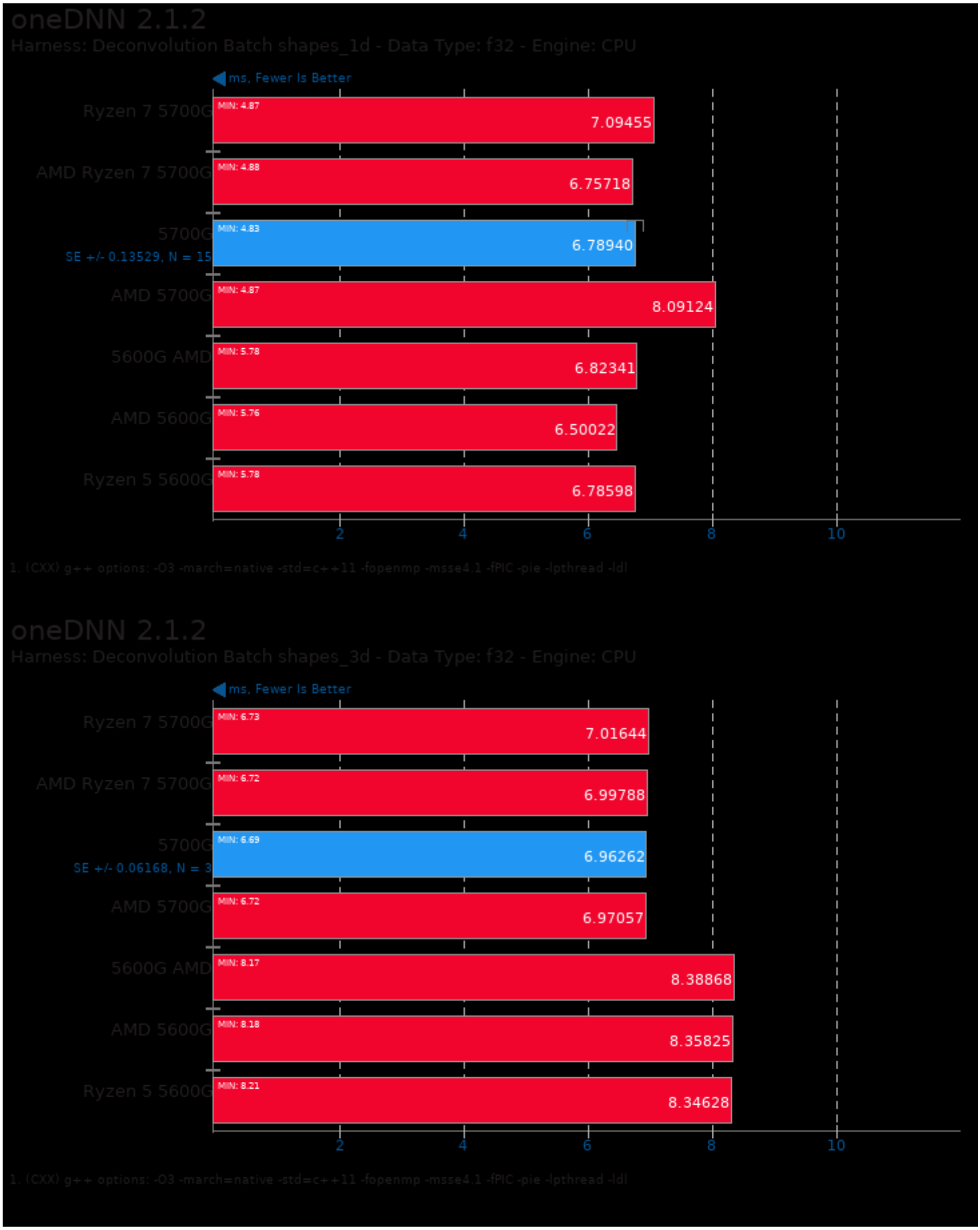

POV-Ray 3.7.0.7
Trace Time
Seconds, Fewer Is Better
Ryzen 7 5700G
41.70
AMD Ryzen 7 5700G
41.87
5700G
41.89
SE +/- 0.09, N = 3
AMD 5700G
41.85
5600G AMD
50.74
AMD 5600G
50.80
Ryzen 5 5600G
50.83
11
22
33
44
55
1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -lSDL -lXpm -lSM -lICE -lX11 -lIlmImf -lIlmImf-2_5 -lImath-2_5 -lHalf-2_5 -lIex-2_5 -lIex

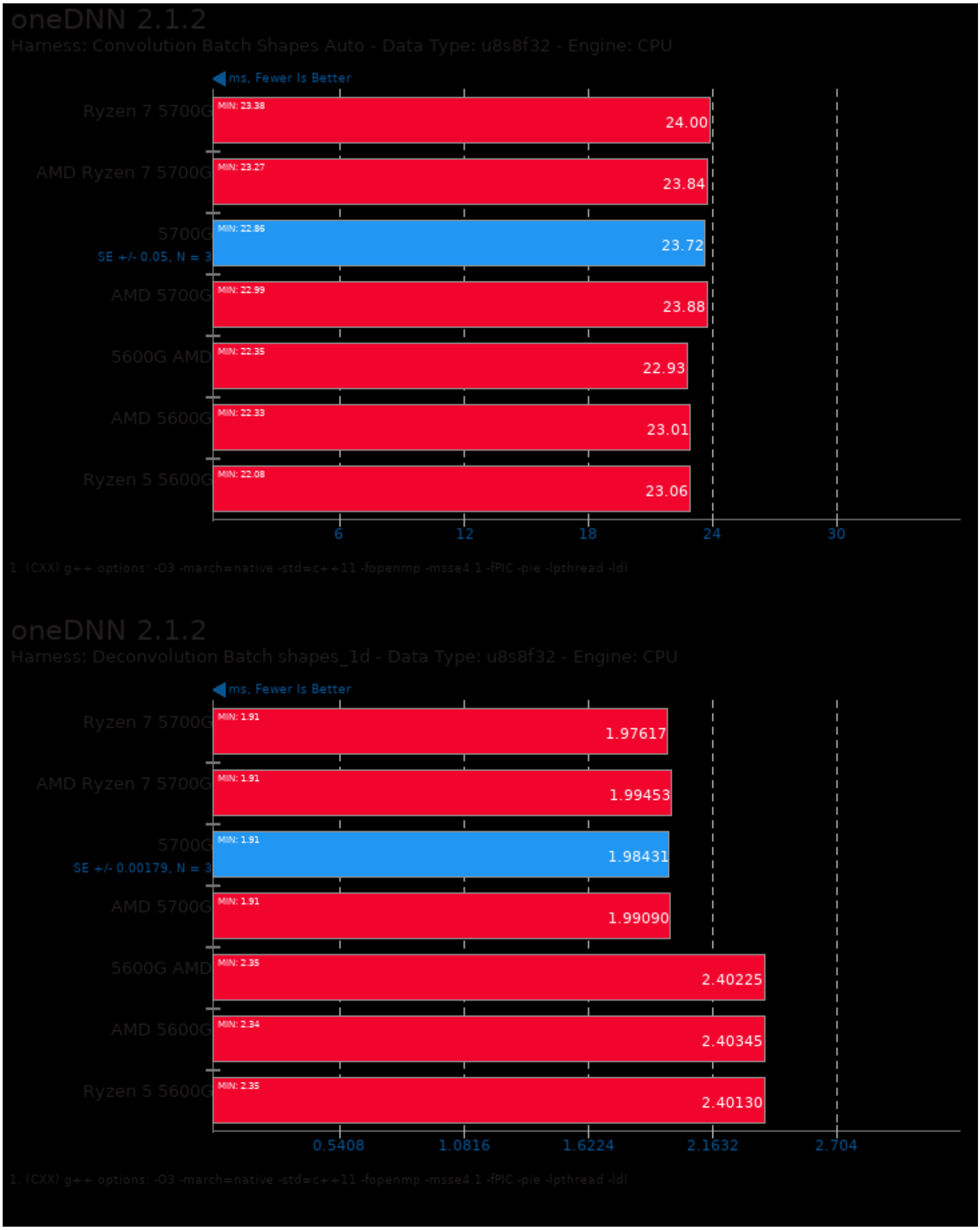

Smallpt 1.0
Global Illumination Renderer; 128 Samples
Seconds, Fewer Is Better
Ryzen 7 5700G
9.156
AMD Ryzen 7 5700G
9.130
5700G
SE +/- 0.029, N = 3
9.189
AMD 5700G
9.151
5600G AMD
12.019
AMD 5600G
12.005
Ryzen 5 5600G
12.030
3
6
9
12
15
1. (CXX) g++ options: -fopenmp -O3
YafaRay 3.5.1
Total Time For Sample Scene
Seconds, Fewer Is Better
Ryzen 7 5700G
124.63
AMD Ryzen 7 5700G
123.84
5700G
SE +/- 0.04, N = 3
123.92
AMD 5700G
123.61
5600G AMD
148.36
AMD 5600G
148.07
Ryzen 5 5600G
147.74
30
60
90
120
150
1. (CXX) g++ options: -std=c++11 -pthread -O3 -ffast-math -rdynamic -ldl -lImath -lIlmImf -lIex -lHalf -lz -lIlmThread -lxml2 -lfreetype

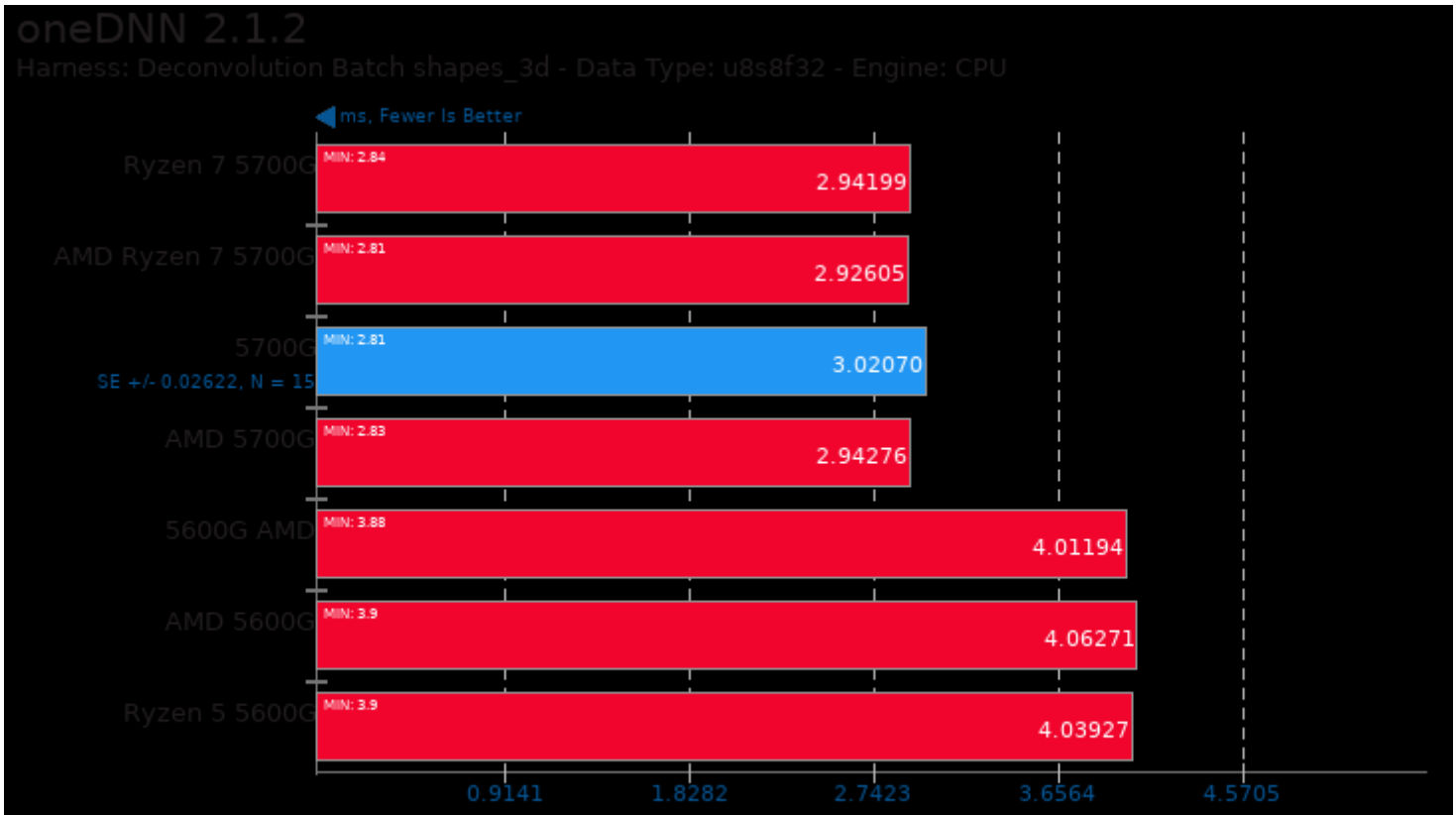

rays1bench 2020-01-09
Large Scene
mrays/s, More Is Better
Ryzen 7 5700G
65.90
AMD Ryzen 7 5700G
66.43
5700G
SE +/- 0.27, N = 3
66.28
AMD 5700G
66.16
5600G AMD
52.79
AMD 5600G
52.70
Ryzen 5 5600G
52.76
15
30
45
60
75
oneDNN 2.1.2
Harness: IP Shapes 1D - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 4.06
4.24401
AMD Ryzen 7 5700G
MIN: 4.03
4.26204
5700G
SE +/- 0.01066, N = 3
MIN: 4.01
4.27201
AMD 5700G
MIN: 3.98
4.21959
5600G AMD
MIN: 4.61
4.89621
AMD 5600G
MIN: 4.58
4.89957
Ryzen 5 5600G
MIN: 4.54
4.88416
1.1024
2.2048
3.3072
4.4096
5.512
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

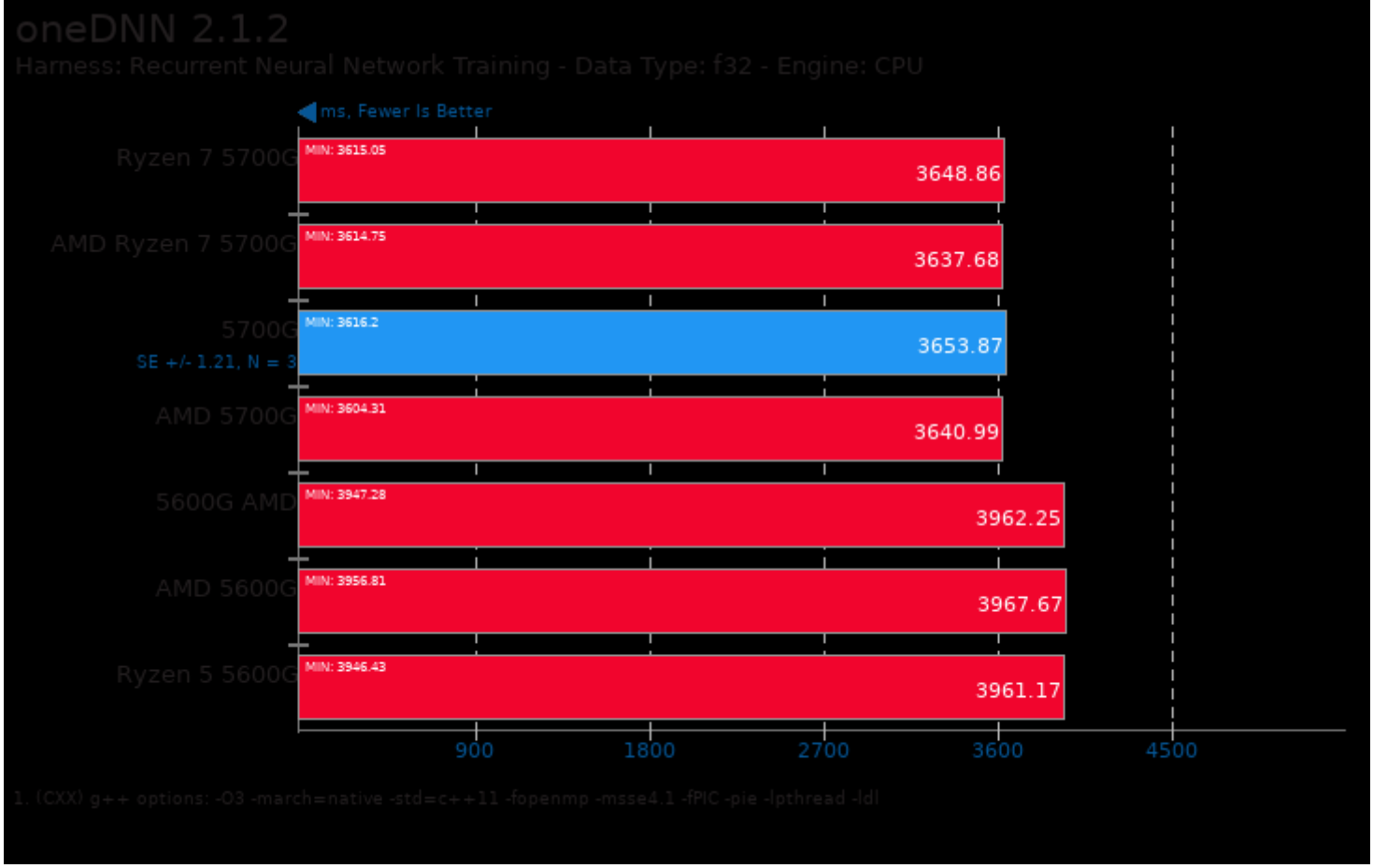

oneDNN 2.1.2
Harness: IP Shapes 3D - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 11.71
12.00
AMD Ryzen 7 5700G
MIN: 11.36
11.72
5700G
MIN: 11.53
11.84
SE +/- 0.03, N = 3
AMD 5700G
MIN: 11.35
11.71
5600G AMD
MIN: 11.45
11.57
AMD 5600G
MIN: 11.71
11.86
Ryzen 5 5600G
MIN: 11.5
11.63
3
6
9
12
15
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: IP Shapes 1D - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 1.52
1.59780
AMD Ryzen 7 5700G
MIN: 1.51
1.57915
5700G
MIN: 1.5
1.57810
SE +/- 0.00481, N = 3
AMD 5700G
MIN: 1.52
1.60269
5600G AMD
MIN: 1.83
1.88608
AMD 5600G
MIN: 1.83
1.88345
Ryzen 5 5600G
MIN: 1.83
1.88011
0.4244
0.8488
1.2732
1.6976
2.122
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 2.1.2
Harness: IP Shapes 3D - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 2.52
2.64139
AMD Ryzen 7 5700G
MIN: 2.54
2.67515
5700G
SE +/- 0.00595, N = 3
MIN: 2.53
2.68422
AMD 5700G
MIN: 2.52
2.63700
5600G AMD
MIN: 2.87
3.06353
AMD 5600G
MIN: 2.99
3.22721
Ryzen 5 5600G
MIN: 2.87
3.09502
0.7261
1.4522
2.1783
2.9044
3.6305
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Convolution Batch Shapes Auto - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 22.26
23.04
AMD Ryzen 7 5700G
MIN: 21.96
22.67
5700G
SE +/- 0.10, N = 3
MIN: 21.98
22.84
AMD 5700G
MIN: 22.22
23.05
5600G AMD
MIN: 21.17
22.10
AMD 5600G
MIN: 21.11
22.08
Ryzen 5 5600G
MIN: 21.36
22.07
6
12
18
24
30
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

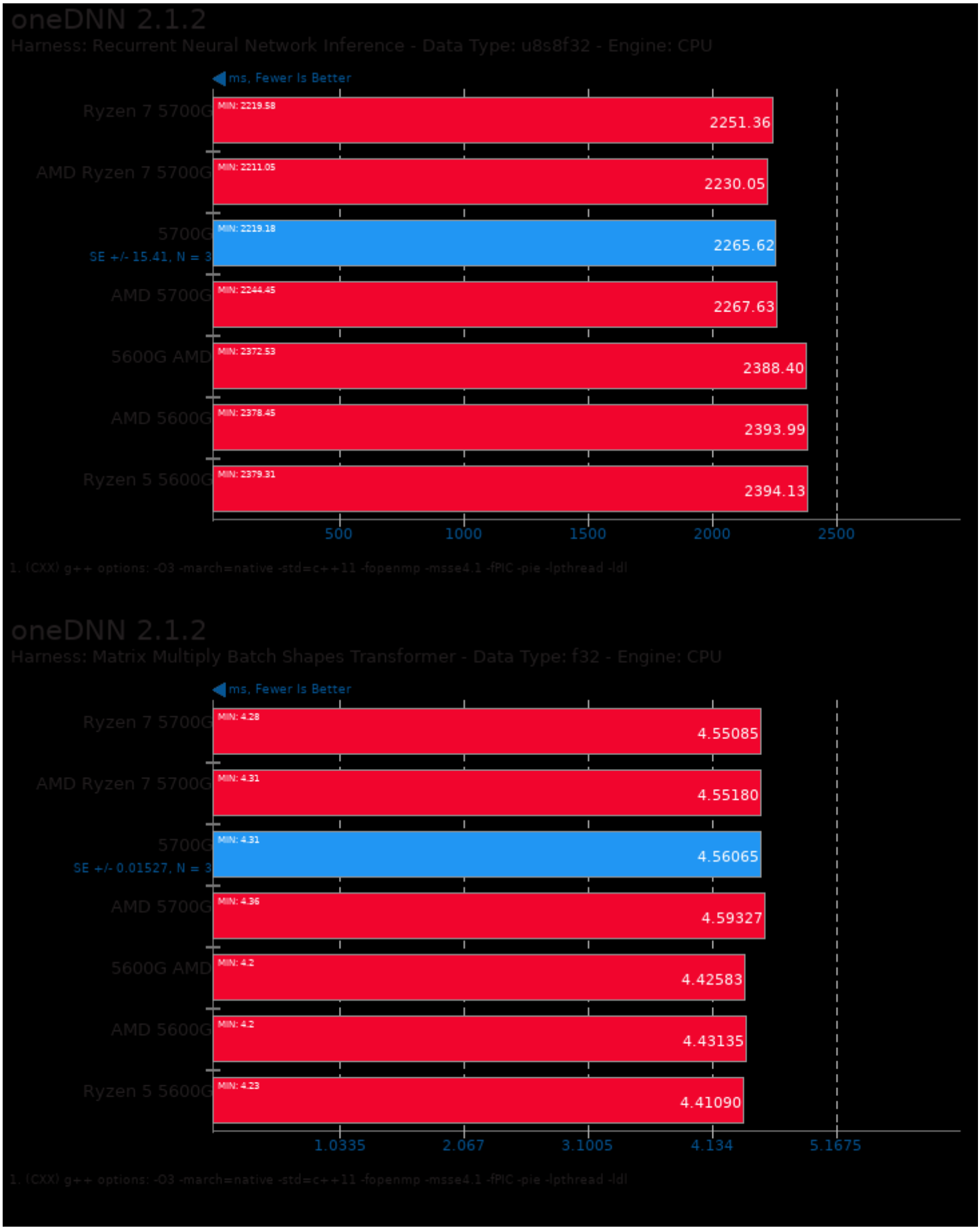

oneDNN 2.1.2
Harness: Deconvolution Batch shapes_1d - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 4.87
7.09455
AMD Ryzen 7 5700G
MIN: 4.88
6.75718
5700G
MIN: 4.83
6.78940
SE +/- 0.13529, N = 15
AMD 5700G
MIN: 4.87
8.09124
5600G AMD
MIN: 5.78
6.82341
AMD 5600G
MIN: 5.76
6.50022
Ryzen 5 5600G
MIN: 5.78
6.78598
2
4
6
8
10
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Deconvolution Batch shapes_3d - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 6.73
7.01644
AMD Ryzen 7 5700G
MIN: 6.72
6.99788
5700G
MIN: 6.69
6.96262
SE +/- 0.06168, N = 3
AMD 5700G
MIN: 6.72
6.97057
5600G AMD
MIN: 8.17
8.38868
AMD 5600G
MIN: 8.18
8.35825
Ryzen 5 5600G
MIN: 8.21
8.34628
2
4
6
8
10
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 2.1.2
Harness: Convolution Batch Shapes Auto - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 23.38
24.00
AMD Ryzen 7 5700G
MIN: 23.27
23.84
5700G
SE +/- 0.05, N = 3
MIN: 22.86
23.72
AMD 5700G
MIN: 22.99
23.88
5600G AMD
MIN: 22.35
22.93
AMD 5600G
MIN: 22.33
23.01
Ryzen 5 5600G
MIN: 22.08
23.06
6
12
18
24
30
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Deconvolution Batch shapes_1d - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 1.91
1.97617
AMD Ryzen 7 5700G
MIN: 1.91
1.99453
5700G
SE +/- 0.00179, N = 3
MIN: 1.91
1.98431
AMD 5700G
MIN: 1.91
1.99090
5600G AMD
MIN: 2.35
2.40225
AMD 5600G
MIN: 2.34
2.40345
Ryzen 5 5600G
MIN: 2.35
2.40130
0.5408
1.0816
1.6224
2.1632
2.704
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 2.1.2
Harness: Deconvolution Batch shapes_3d - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 2.84
2.94199
AMD Ryzen 7 5700G
MIN: 2.81
2.92605
5700G
MIN: 2.81
3.02070
SE +/- 0.02622, N = 15
AMD 5700G
MIN: 2.83
2.94276
5600G AMD
MIN: 3.88
4.01194
AMD 5600G
MIN: 3.9
4.06271
Ryzen 5 5600G
MIN: 3.9
4.03927
0.9141
1.8282
2.7423
3.6564
4.5705
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 2.1.2
Harness: Recurrent Neural Network Training - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 3615.05
3648.86
AMD Ryzen 7 5700G
MIN: 3614.75
3637.68
5700G
MIN: 3616.2
3653.87
SE +/- 1.21, N = 3
AMD 5700G
MIN: 3604.31
3640.99
5600G AMD
MIN: 3947.28
3962.25
AMD 5600G
MIN: 3956.81
3967.67
Ryzen 5 5600G
MIN: 3946.43
3961.17
900
1800
2700
3600
4500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

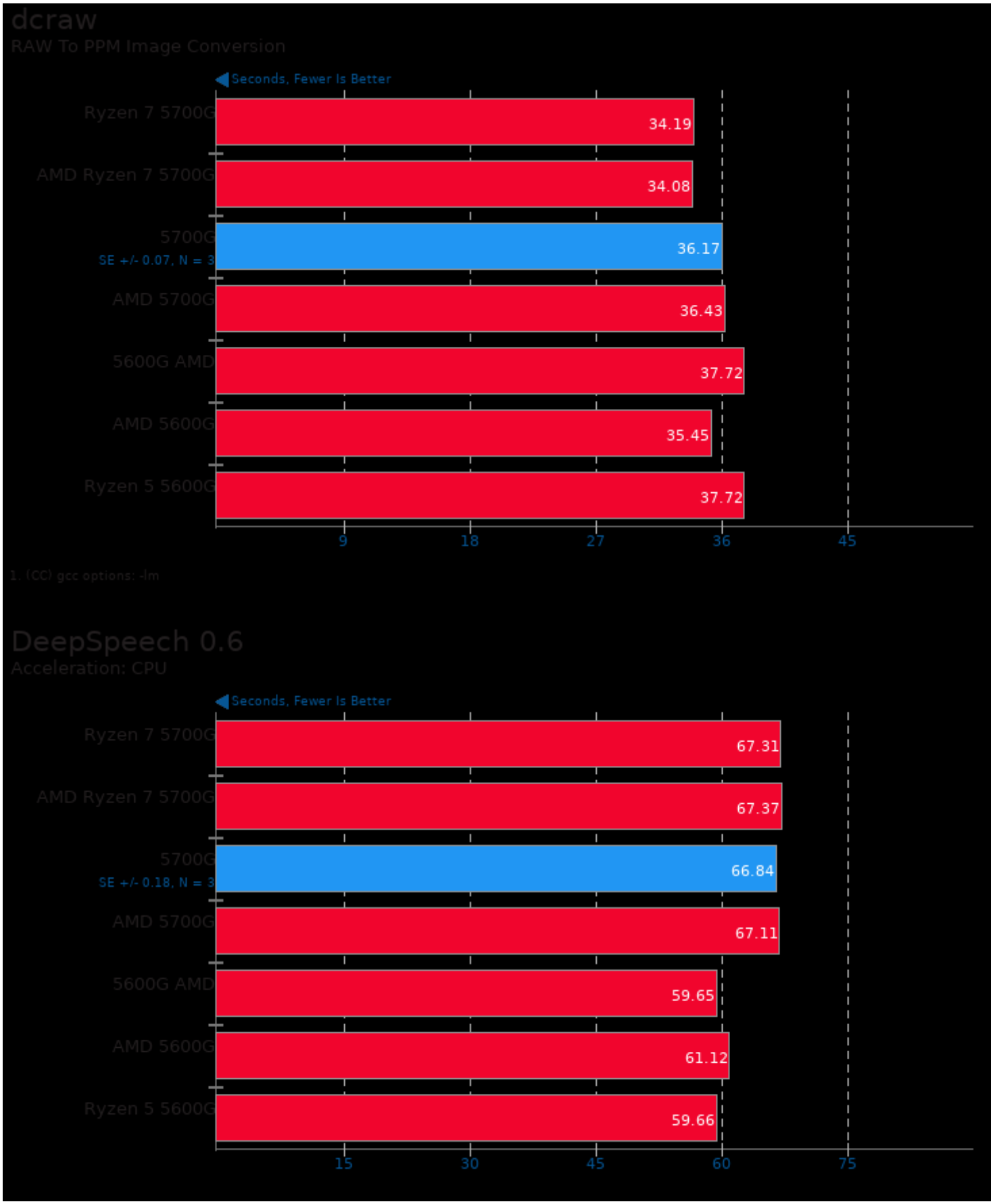

oneDNN 2.1.2
Harness: Recurrent Neural Network Inference - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 2215.79
2249.32
AMD Ryzen 7 5700G
MIN: 2221.64
2247.79
5700G
SE +/- 1.36, N = 3
MIN: 2230.36
2259.27
AMD 5700G
MIN: 2228.67
2259.58
5600G AMD
MIN: 2372.3
2387.52
AMD 5600G
MIN: 2376.54
2389.52
Ryzen 5 5600G
MIN: 2368.67
2385.71
500
1000
1500
2000
2500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Recurrent Neural Network Training - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 3608.83
3637.58
AMD Ryzen 7 5700G
MIN: 3625.1
3655.11
5700G
SE +/- 27.93, N = 10
MIN: 3604.87
3676.59
AMD 5700G
MIN: 3604.24
3632.94
5600G AMD
MIN: 3949.98
3962.08
AMD 5600G
MIN: 3949.87
3964.85
Ryzen 5 5600G
MIN: 3945.39
3957.99
900
1800
2700
3600
4500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

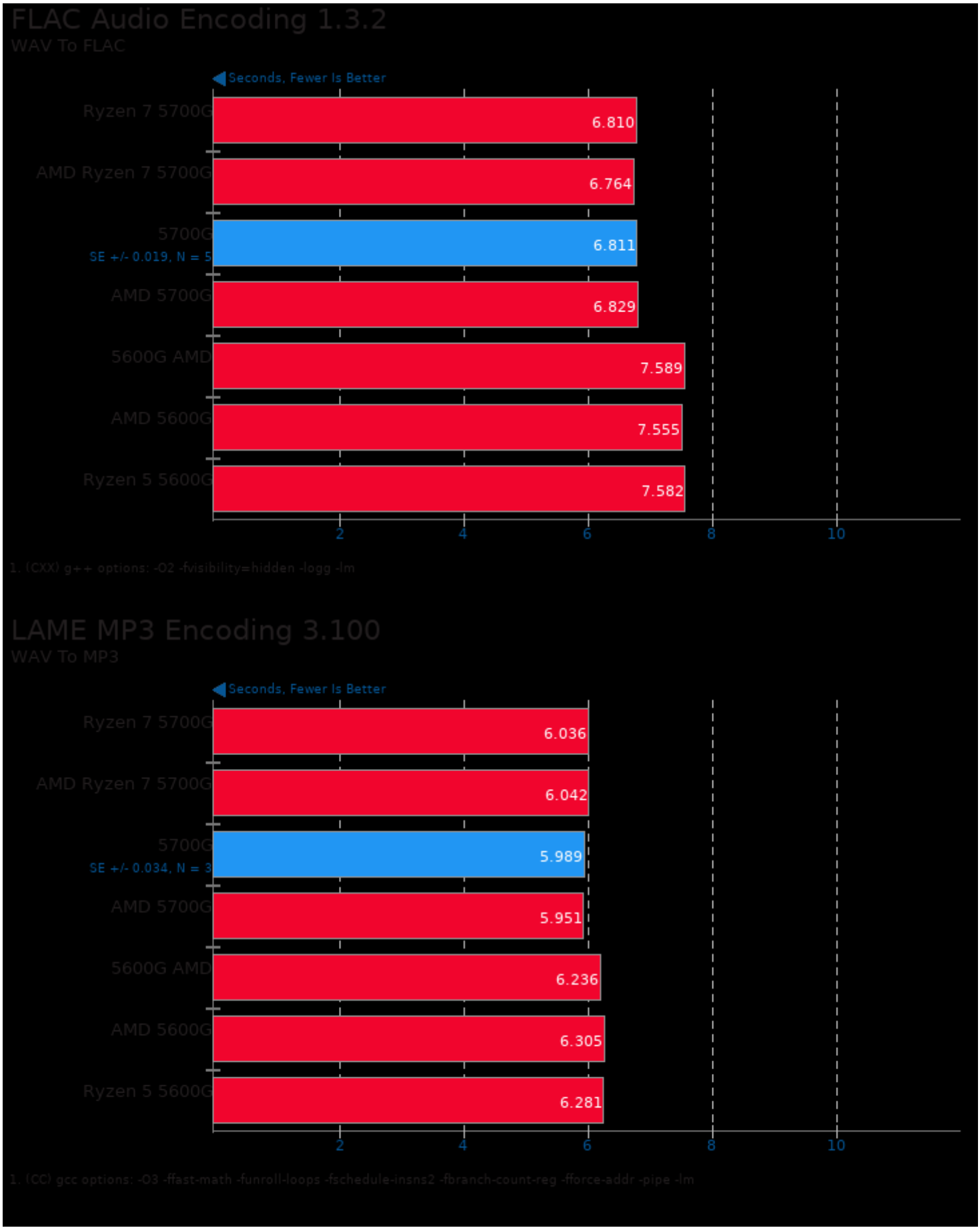

oneDNN 2.1.2
Harness: Recurrent Neural Network Inference - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 2219.58
2251.36
AMD Ryzen 7 5700G
MIN: 2211.05
2230.05
5700G
SE +/- 15.41, N = 3
MIN: 2219.18
2265.62
AMD 5700G
MIN: 2244.45
2267.63
5600G AMD
MIN: 2372.53
2388.40
AMD 5600G
MIN: 2378.45
2393.99
Ryzen 5 5600G
MIN: 2379.31
2394.13
500
1000
1500
2000
2500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 4.28
4.55085
AMD Ryzen 7 5700G
MIN: 4.31
4.55180
5700G
SE +/- 0.01527, N = 3
MIN: 4.31
4.56065
AMD 5700G
MIN: 4.36
4.59327
5600G AMD
MIN: 4.2
4.42583
AMD 5600G
MIN: 4.2
4.43135
Ryzen 5 5600G
MIN: 4.23
4.41090
1.0335
2.067
3.1005
4.134
5.1675
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl

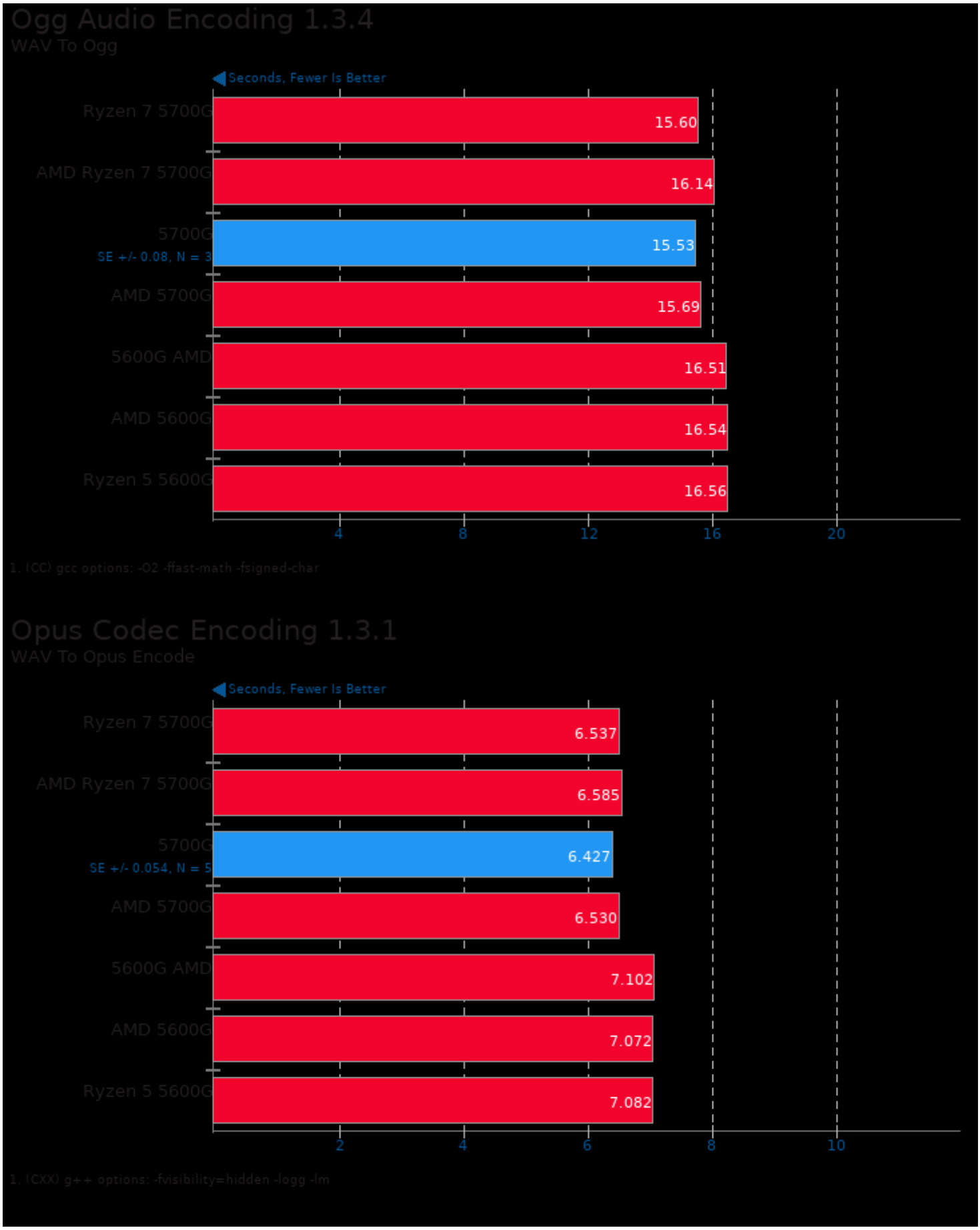

oneDNN 2.1.2
Harness: Recurrent Neural Network Training - Data Type: bf16bf16bf16 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 3621.24
3649.68
AMD Ryzen 7 5700G
MIN: 3622.51
3652.79
5700G
SE +/- 4.67, N = 3
MIN: 3614.22
3659.26
AMD 5700G
MIN: 3606.11
3631.28
5600G AMD
MIN: 3941.37
3958.59
AMD 5600G
MIN: 3955.65
3970.67
Ryzen 5 5600G
MIN: 3955.06
3971.70
900
1800
2700
3600
4500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
oneDNN 2.1.2
Harness: Recurrent Neural Network Inference - Data Type: bf16bf16bf16 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 2248.66
2274.47
AMD Ryzen 7 5700G
MIN: 2219.26
2244.40
5700G
SE +/- 9.43, N = 3
MIN: 2223.59
2261.47
AMD 5700G
MIN: 2224.1
2245.31
5600G AMD
MIN: 2386.7
2401.01
AMD 5600G
MIN: 2386.94
2401.08
Ryzen 5 5600G
MIN: 2385.55
2403.73
500
1000
1500
2000
2500
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl


oneDNN 2.1.2
Harness: Matrix Multiply Batch Shapes Transformer - Data Type: u8s8f32 - Engine: CPU
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 3.11
3.32921
AMD Ryzen 7 5700G
MIN: 3.08
3.26699
5700G
MIN: 3.1
3.29409
SE +/- 0.00881, N = 3
AMD 5700G
MIN: 3.12
3.31535
5600G AMD
MIN: 3.78
3.95760
AMD 5600G
MIN: 3.78
3.94076
Ryzen 5 5600G
MIN: 3.78
3.94958
0.8905
1.781
2.6715
3.562
4.4525
1. (CXX) g++ options: -O3 -march=native -std=c++11 -fopenmp -msse4.1 -fPIC -pie -lpthread -ldl
AOBench
Size: 2048 x 2048 - Total Time
Seconds, Fewer Is Better
Ryzen 7 5700G
28.56
AMD Ryzen 7 5700G
28.49
5700G
28.53
SE +/- 0.02, N = 3
AMD 5700G
28.54
5600G AMD
29.75
AMD 5600G
30.05
Ryzen 5 5600G
29.81
7
14
21
28
35
1. (CC) gcc options: -lm -O3


Timed Erlang/OTP Compilation 23.2
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
123.66
AMD Ryzen 7 5700G
124.01
5700G
SE +/- 0.09, N = 3
124.07
AMD 5700G
123.92
5600G AMD
130.24
AMD 5600G
130.53
Ryzen 5 5600G
130.31
30
60
90
120
150
Timed Wasmer Compilation 1.0.2
Time To Compile
Seconds, Fewer Is Better
Ryzen 7 5700G
77.88
AMD Ryzen 7 5700G
78.49
5700G
SE +/- 0.18, N = 3
77.86
AMD 5700G
77.39
5600G AMD
84.74
AMD 5600G
85.22
Ryzen 5 5600G
85.59
20
40
60
80
100
1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc_s -lutil -lrt -lpthread -lm -lc

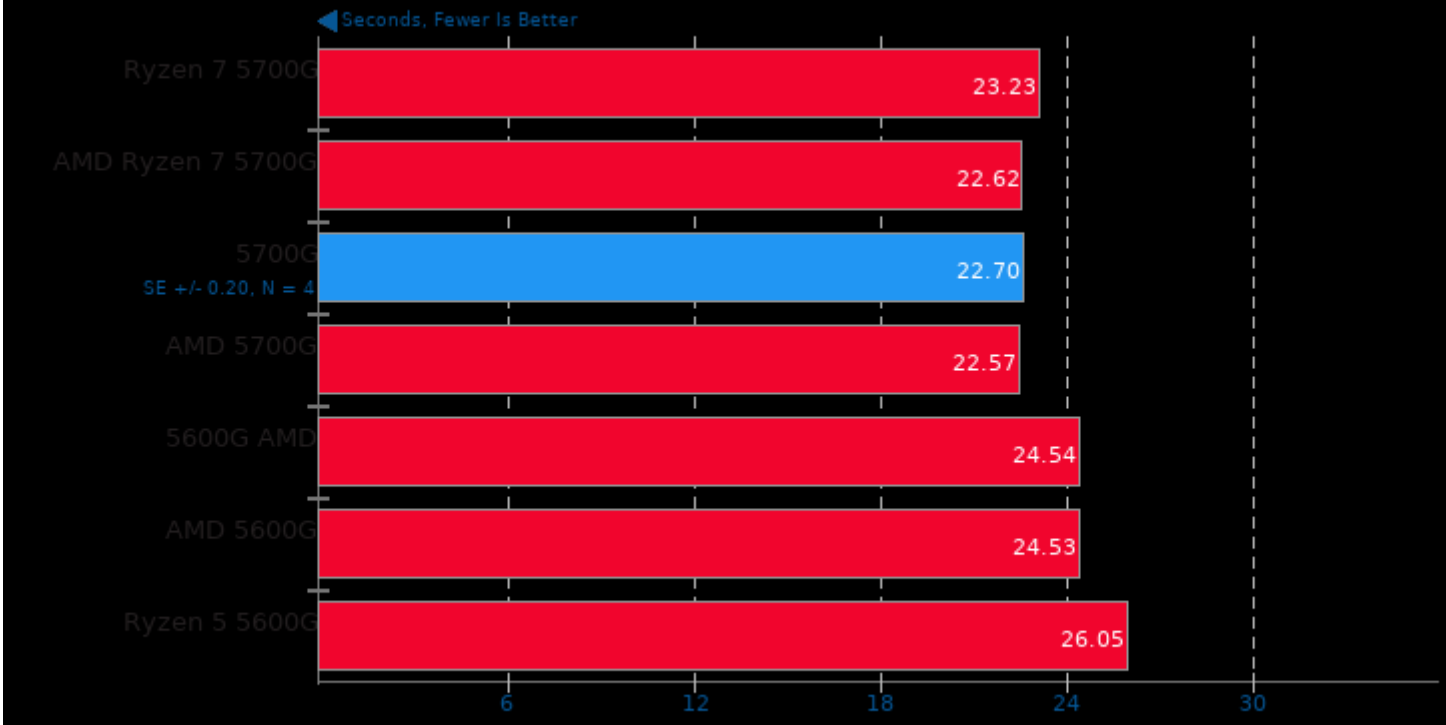

dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
Ryzen 7 5700G
34.19
AMD Ryzen 7 5700G
34.08
5700G
SE +/- 0.07, N = 3
36.17
AMD 5700G
36.43
5600G AMD
37.72
AMD 5600G
35.45
Ryzen 5 5600G
37.72
9
18
27
36
45
1. (CC) gcc options: -lm
DeepSpeech 0.6
Acceleration: CPU
Seconds, Fewer Is Better
Ryzen 7 5700G
67.31
AMD Ryzen 7 5700G
67.37
5700G
SE +/- 0.18, N = 3
66.84
AMD 5700G
67.11
5600G AMD
59.65
AMD 5600G
61.12
Ryzen 5 5600G
59.66
15
30
45
60
75


FLAC Audio Encoding 1.3.2
WAV To FLAC
Seconds, Fewer Is Better
Ryzen 7 5700G
6.810
AMD Ryzen 7 5700G
6.764
5700G
SE +/- 0.019, N = 5
6.811
AMD 5700G
6.829
5600G AMD
7.589
AMD 5600G
7.555
Ryzen 5 5600G
7.582
2
4
6
8
10
1. (CXX) g++ options: -O2 -fvisibility=hidden -logg -lm
LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
Ryzen 7 5700G
6.036
AMD Ryzen 7 5700G
6.042
5700G
SE +/- 0.034, N = 3
5.989
AMD 5700G
5.951
5600G AMD
6.236
AMD 5600G
6.305
Ryzen 5 5600G
6.281
2
4
6
8
10
1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lm


Ogg Audio Encoding 1.3.4
WAV To Ogg
Seconds, Fewer Is Better
Ryzen 7 5700G
15.60
AMD Ryzen 7 5700G
16.14
5700G
SE +/- 0.08, N = 3
15.53
AMD 5700G
15.69
5600G AMD
16.51
AMD 5600G
16.54
Ryzen 5 5600G
16.56
4
8
12
16
20
1. (CC) gcc options: -O2 -ffast-math -fsigned-char
Opus Codec Encoding 1.3.1
WAV To Opus Encode
Seconds, Fewer Is Better
Ryzen 7 5700G
6.537
AMD Ryzen 7 5700G
6.585
5700G
SE +/- 0.054, N = 5
6.427
AMD 5700G
6.530
5600G AMD
7.102
AMD 5600G
7.072
Ryzen 5 5600G
7.082
2
4
6
8
10
1. (CXX) g++ options: -fvisibility=hidden -logg -lm

eSpeak-NG Speech Engine 20200907

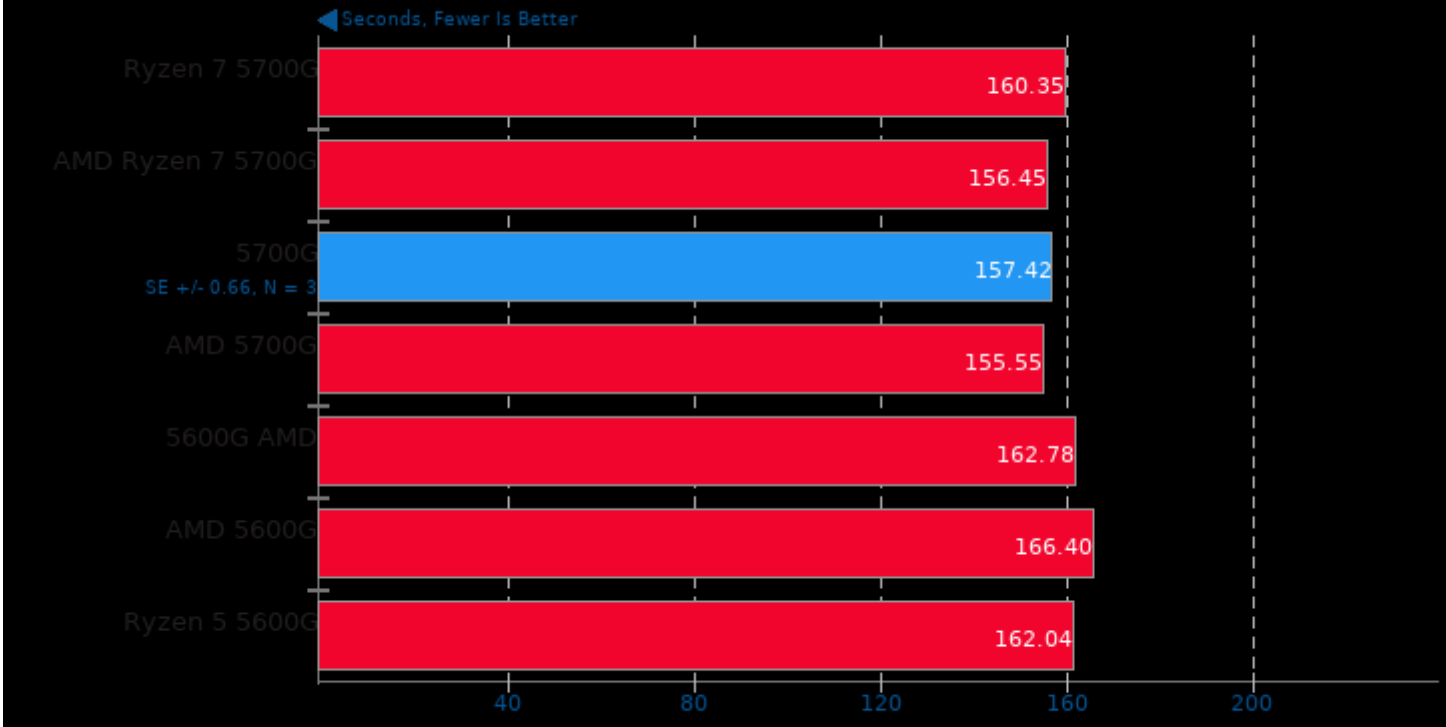
Text-To-Speech Synthesis



1. (CC) gcc options: -O2 -std=c99

Ngspice 34

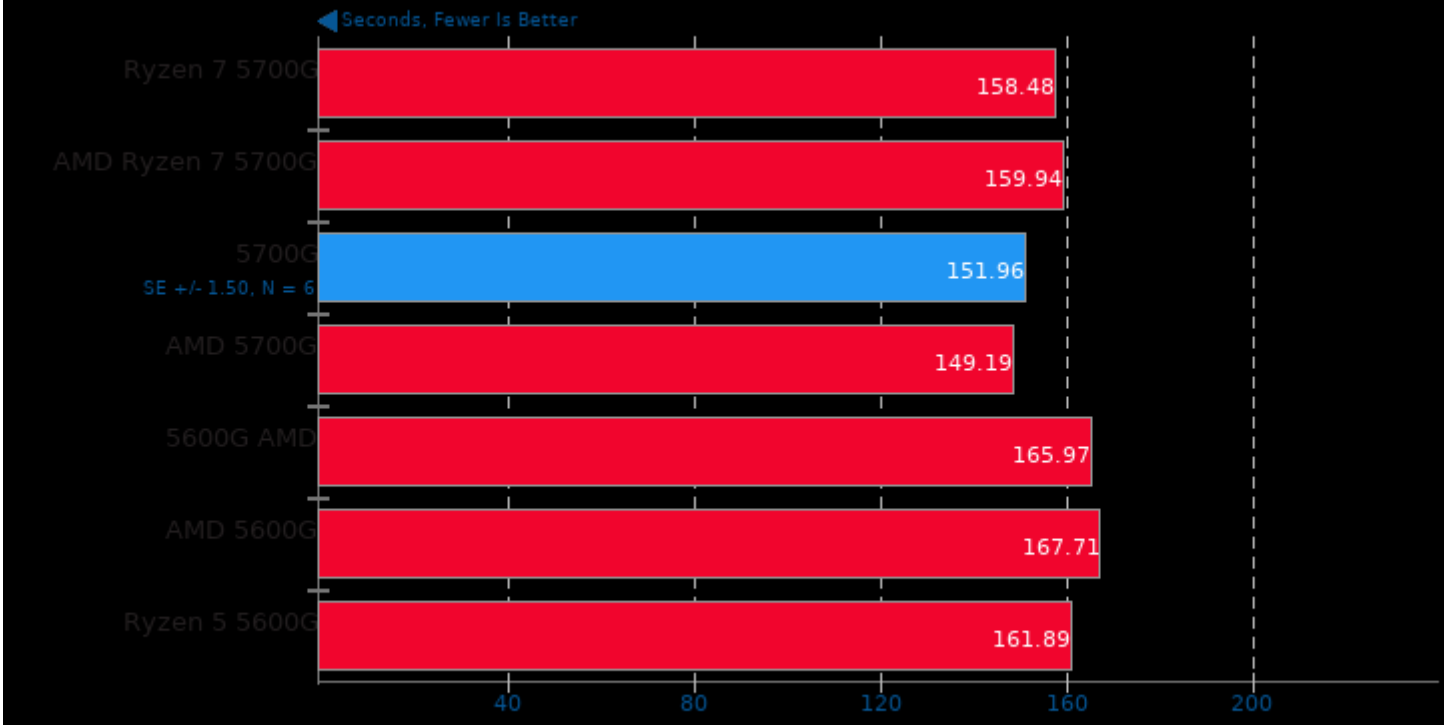
Circuit: C2670



1. (CC) gcc options: -O0 -fopenmp -lm -lstdc++ -lfftw3 -lXaw -lXmu -lXt -lXext -lX11 -lXft -lfontconfig -lXrender -lfreetype -lSM -lICE

Ngspice 34

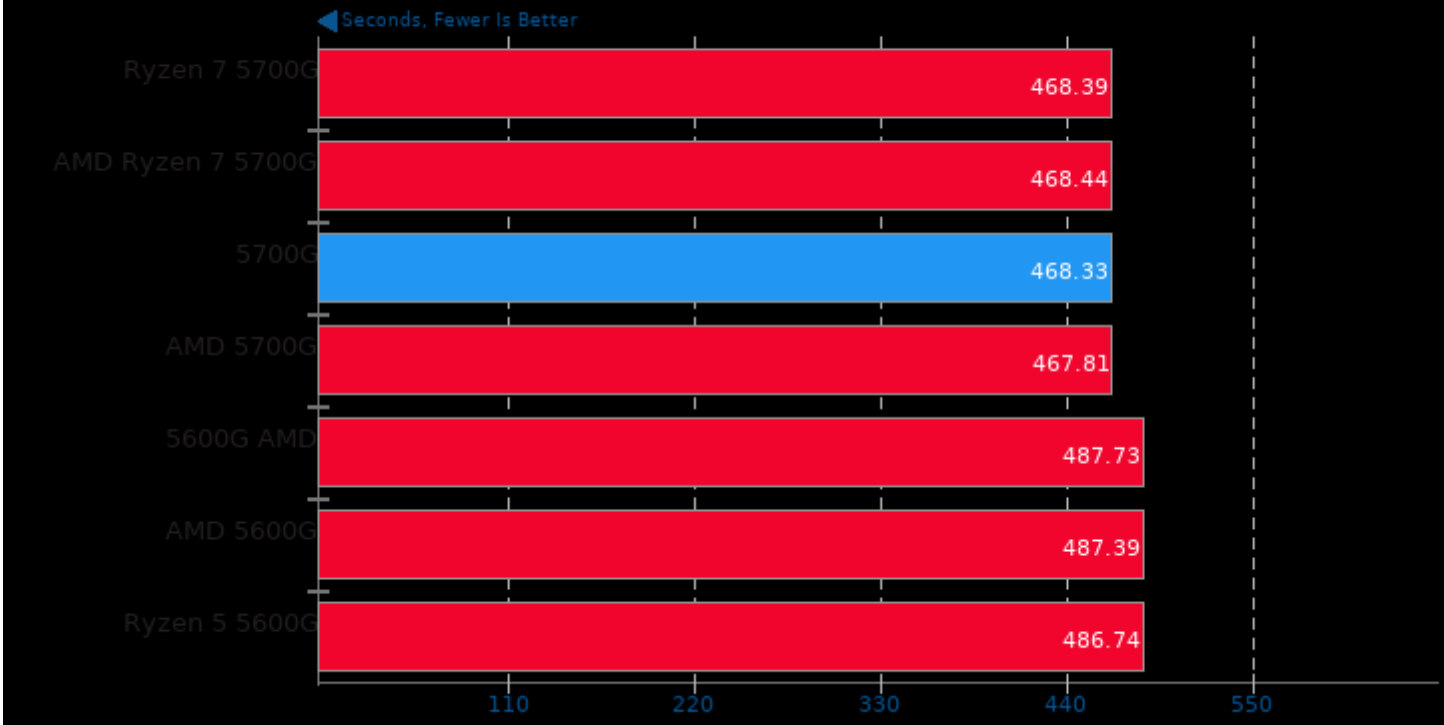
Circuit: C7552

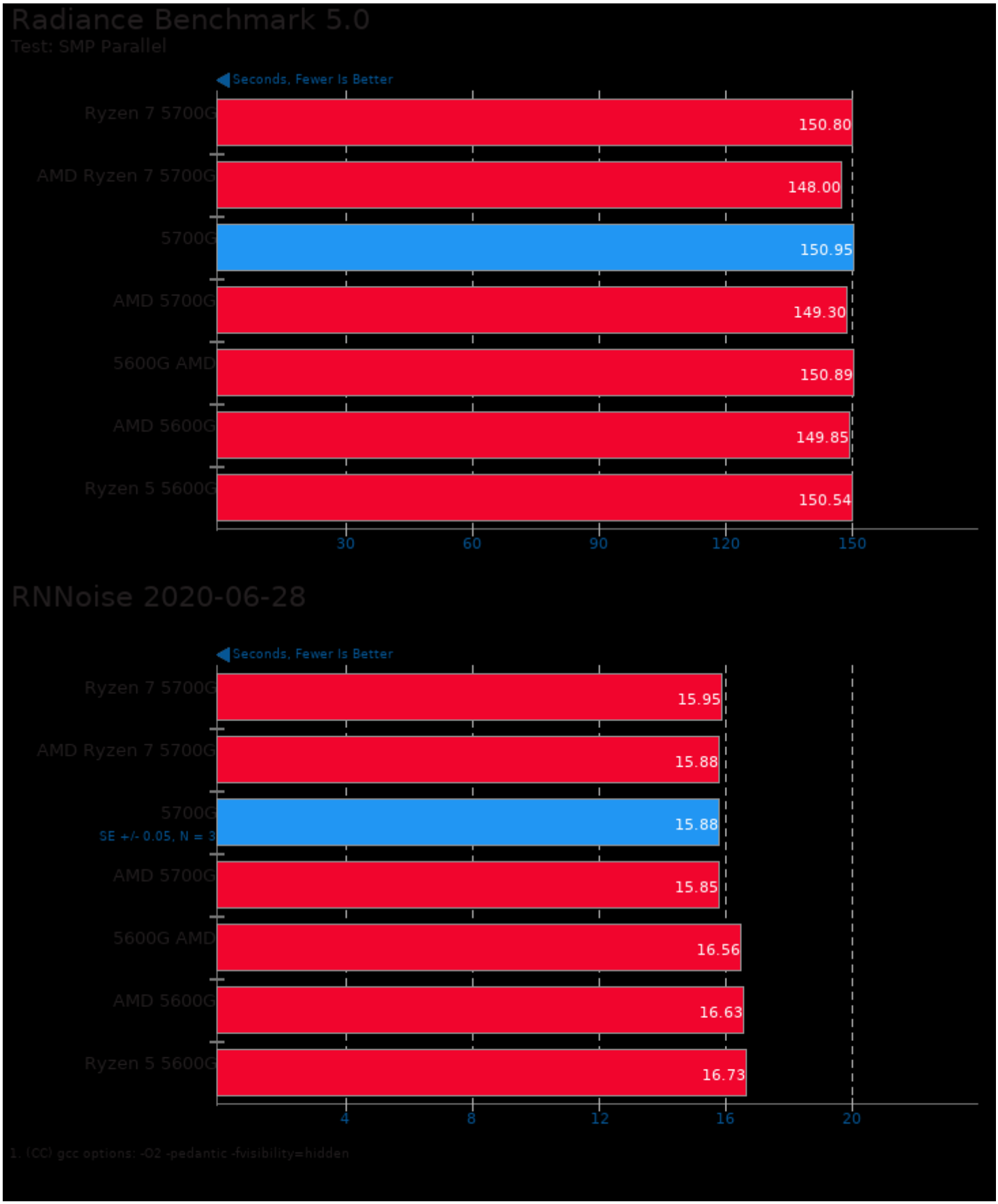


1. (CC) gcc options: -O0 -fopenmp -lm -lstdc++ -lfftw3 -lXaw -lXmu -lXt -lXext -lX11 -lXft -lfontconfig -lXrender -lfreetype -lSM -lICE

Radiance Benchmark 5.0

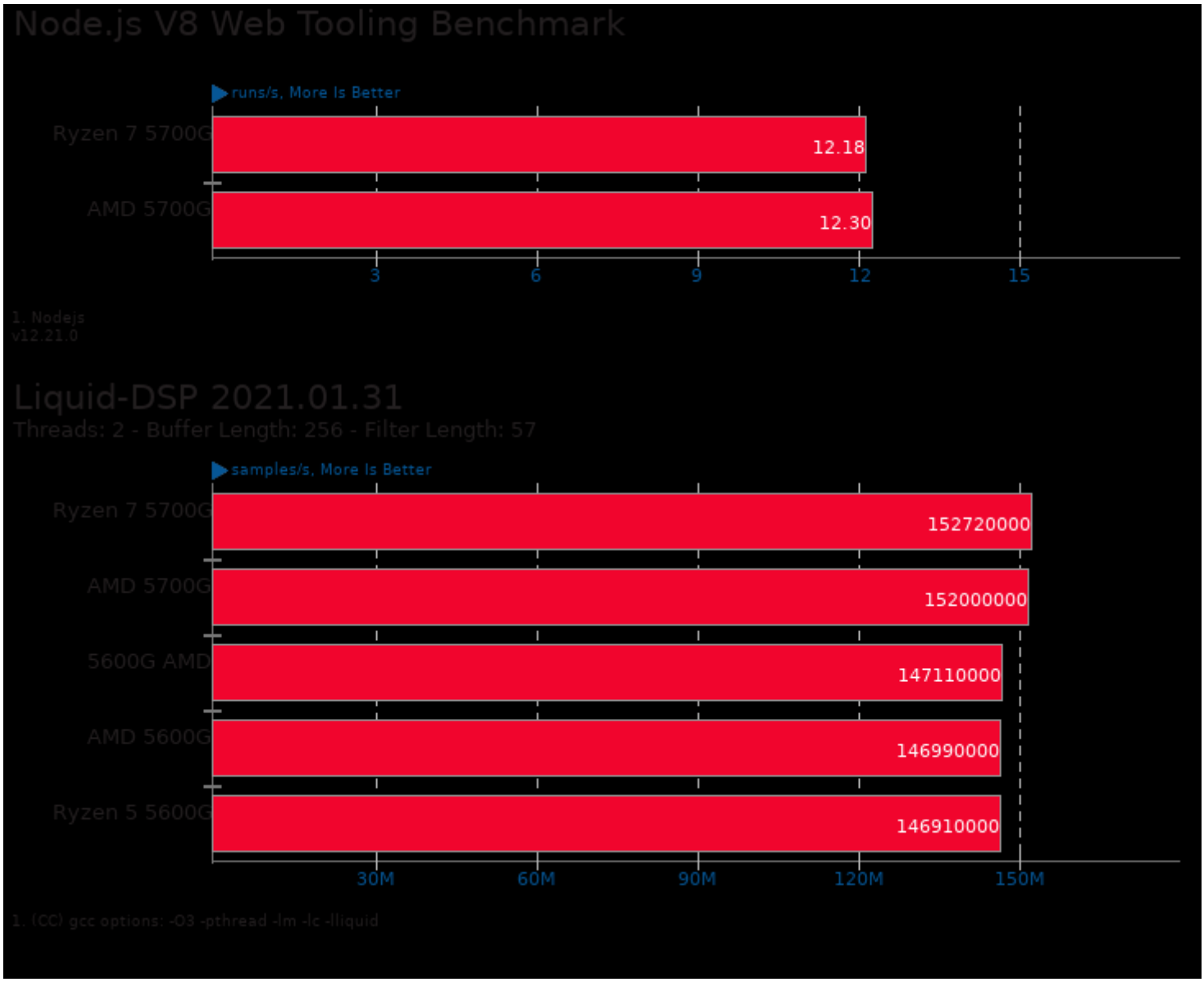
Test: Serial

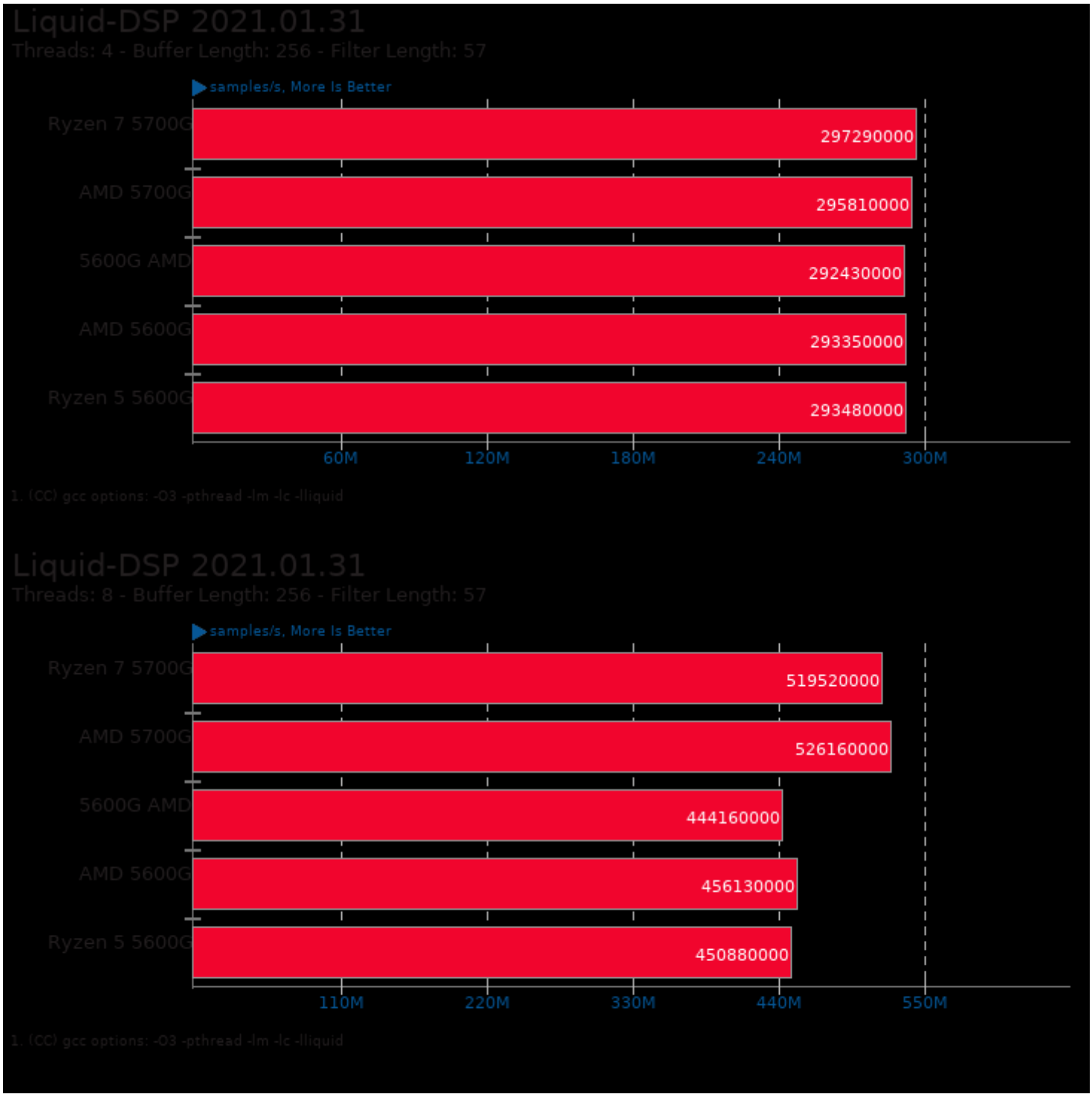


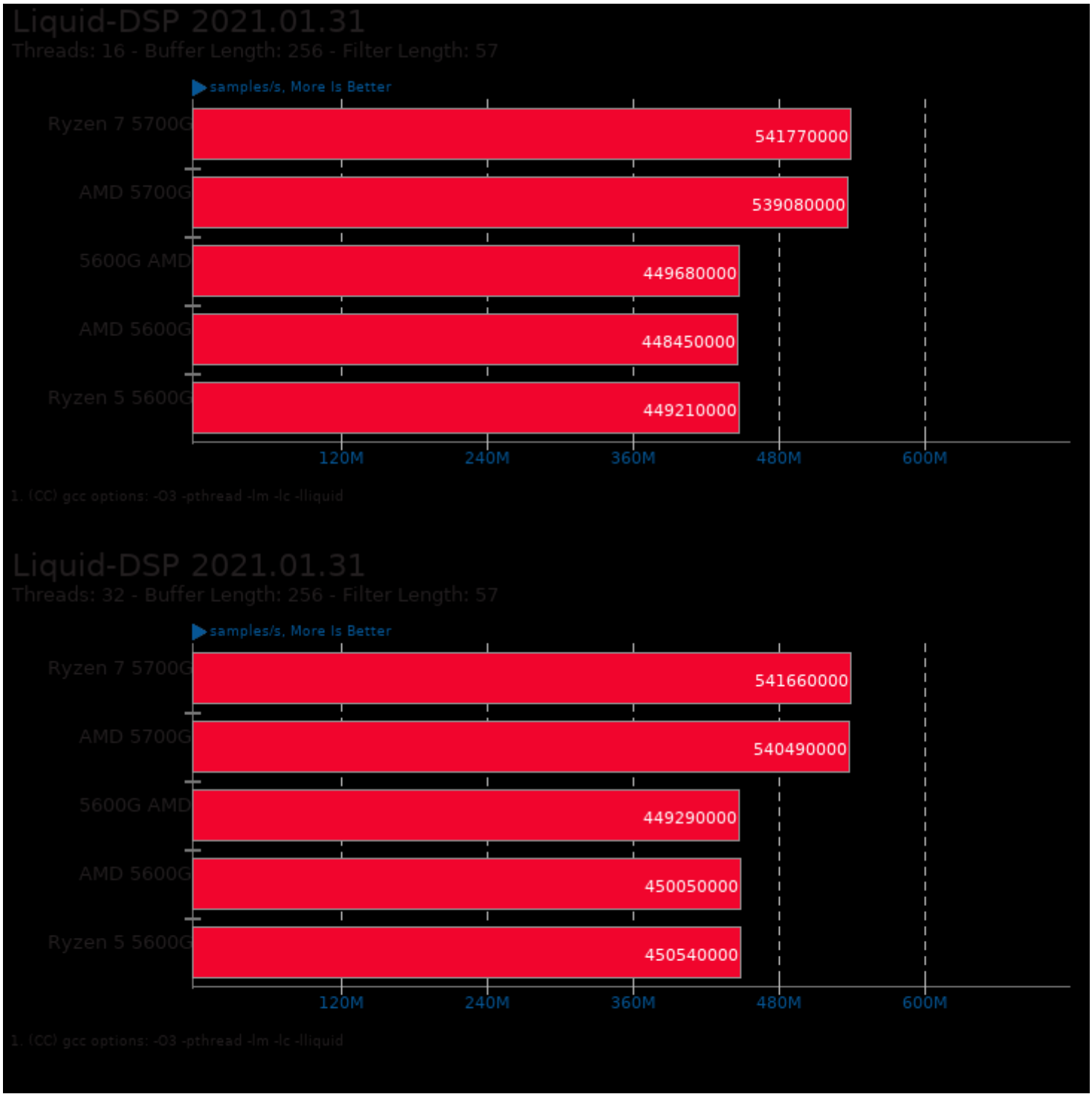

Radiance Benchmark 5.0
Test: SMP Parallel
Seconds, Fewer Is Better
Ryzen 7 5700G
150.80
AMD Ryzen 7 5700G
148.00
5700G
150.95
AMD 5700G
149.30
5600G AMD
150.89
AMD 5600G
149.85
Ryzen 5 5600G
150.54
30
60
90
120
150
RNNoise 2020-06-28
Seconds, Fewer Is Better
Ryzen 7 5700G
15.95
AMD Ryzen 7 5700G
15.88
5700G
15.88
SE +/- 0.05, N = 3
AMD 5700G
15.85
5600G AMD
16.56
AMD 5600G
16.63
Ryzen 5 5600G
16.73
4
8
12
16
20
1. (CC) gcc options: -O2 -pedantic -fvisibility=hidden

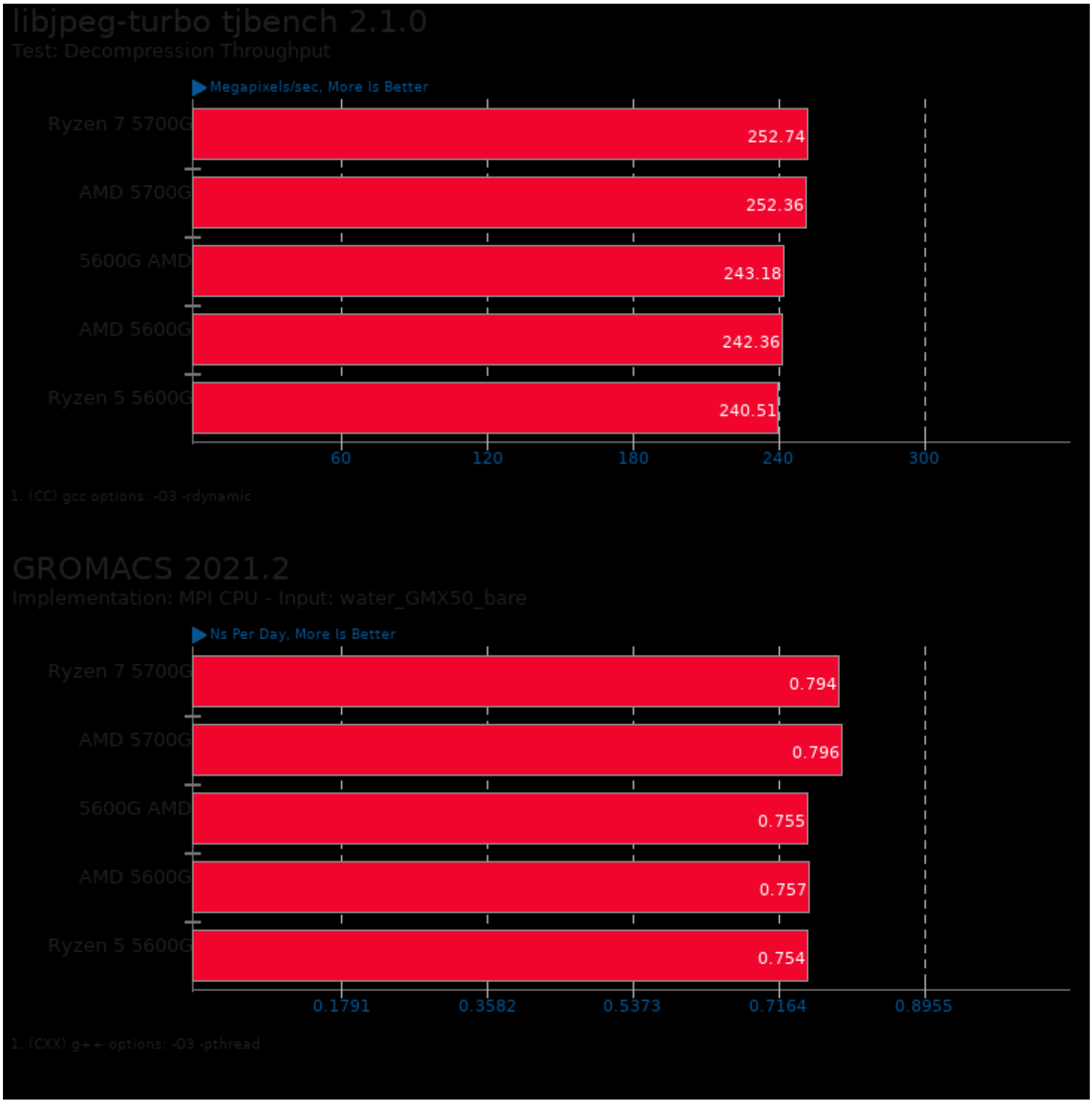

Tachyon 0.99b6
Total Time
Seconds, Fewer Is Better
Ryzen 7 5700G
84.76
5700G
SE +/- 0.05, N = 3
85.17
AMD 5700G
84.99
5600G AMD
102.97
AMD 5600G
102.41
Ryzen 5 5600G
102.50
20
40
60
80
100
1. (CC) gcc options: -m64 -O3 -fomit-frame-pointer -ffast-math -ltachyon -lm -lpthread
VOSK Speech Recognition Toolkit 0.3.21
Seconds, Fewer Is Better
Ryzen 7 5700G
17.91
5700G
SE +/- 0.10, N = 15
16.77
AMD 5700G
18.07
5600G AMD
20.50
AMD 5600G
20.62
Ryzen 5 5600G
20.72
5
10
15
20
25

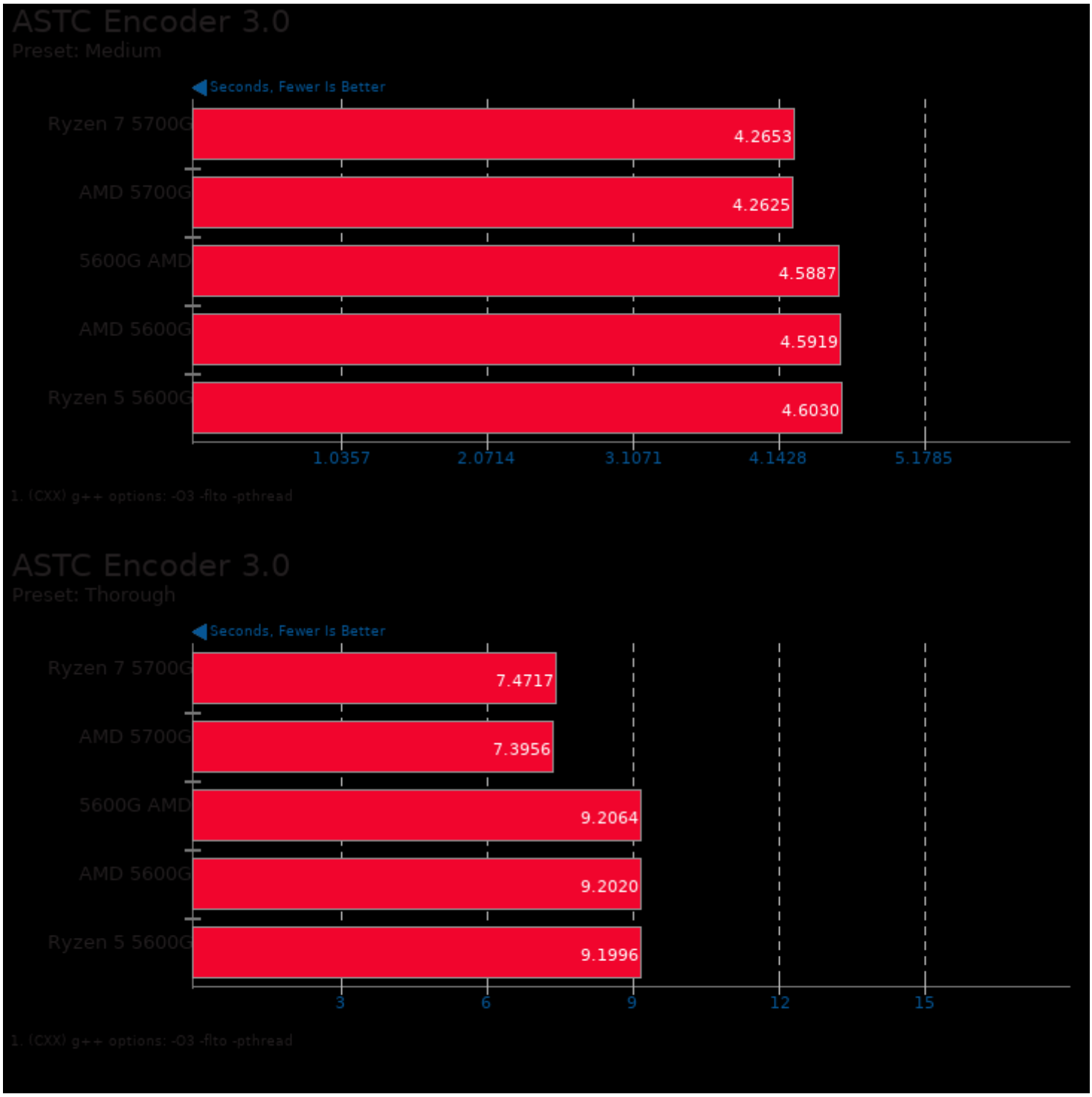

Google SynthMark 20201109
Test: VoiceMark_100
Voices, More Is Better
Ryzen 7 5700G
921.13
5700G
SE +/- 3.06, N = 3
922.70
AMD 5700G
908.93
5600G AMD
898.75
AMD 5600G
899.02
Ryzen 5 5600G
901.78
200
400
600
800
1000
1. (CXX) g++ options: -lm -lpthread -std=c++11 -Ofast
SecureMark 1.0.4
Benchmark: SecureMark-TLS
marks, More Is Better
Ryzen 7 5700G
316694
AMD 5700G
319480
5600G AMD
301390
AMD 5600G
304496
Ryzen 5 5600G
302698
70K
140K
210K
280K
350K
1. (CC) gcc options: -pedantic -O3

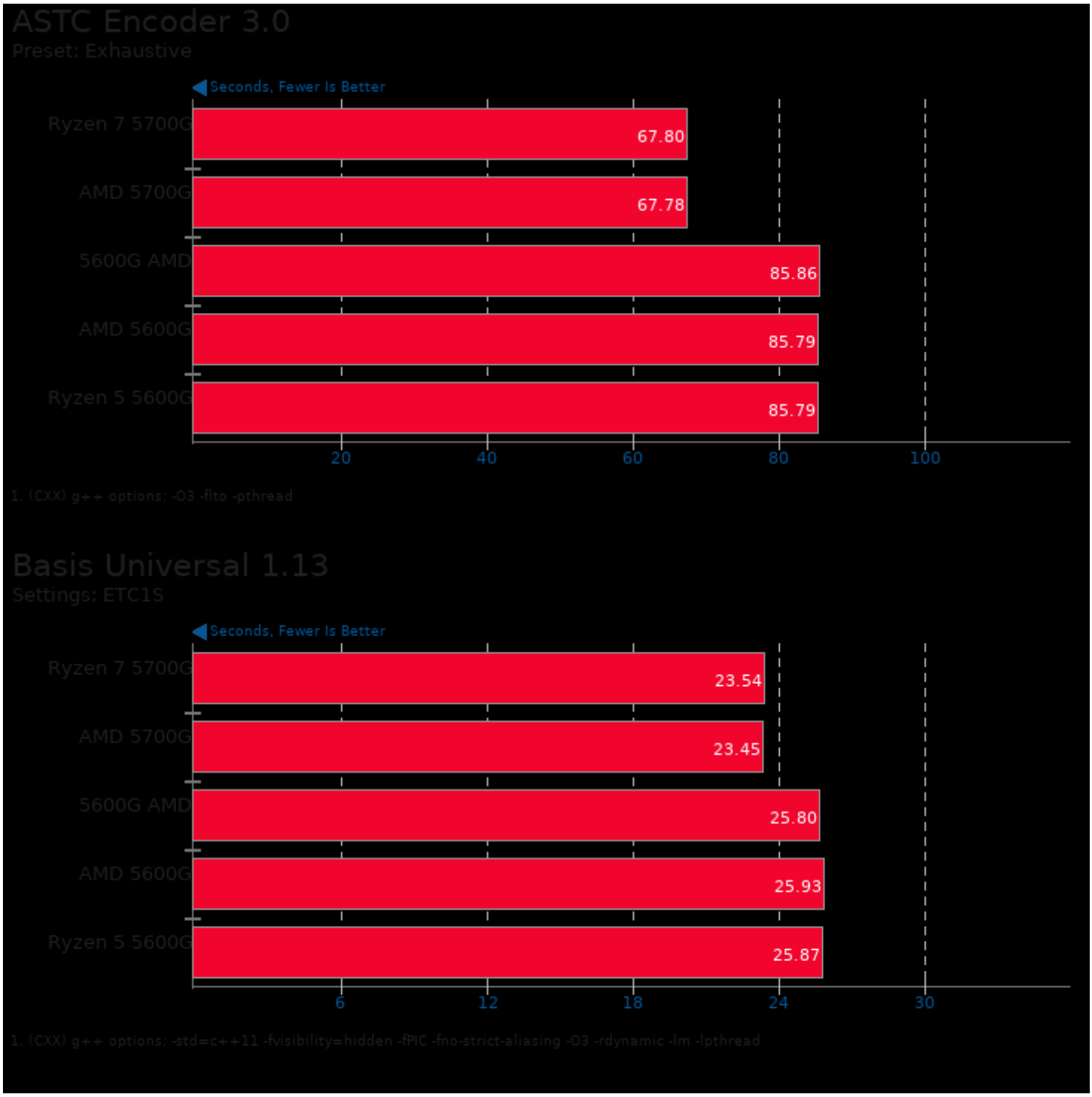

Node.js V8 Web Tooling Benchmark
runs/s, More Is Better
Ryzen 7 5700G
AMD 5700G
12.18
12.30
3
6
9
12
15
1. Nodejs v12.21.0
Liquid-DSP 2021.01.31
Threads: 2 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
152720000
152000000
147110000
146990000
146910000
30M
60M
90M
120M
150M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

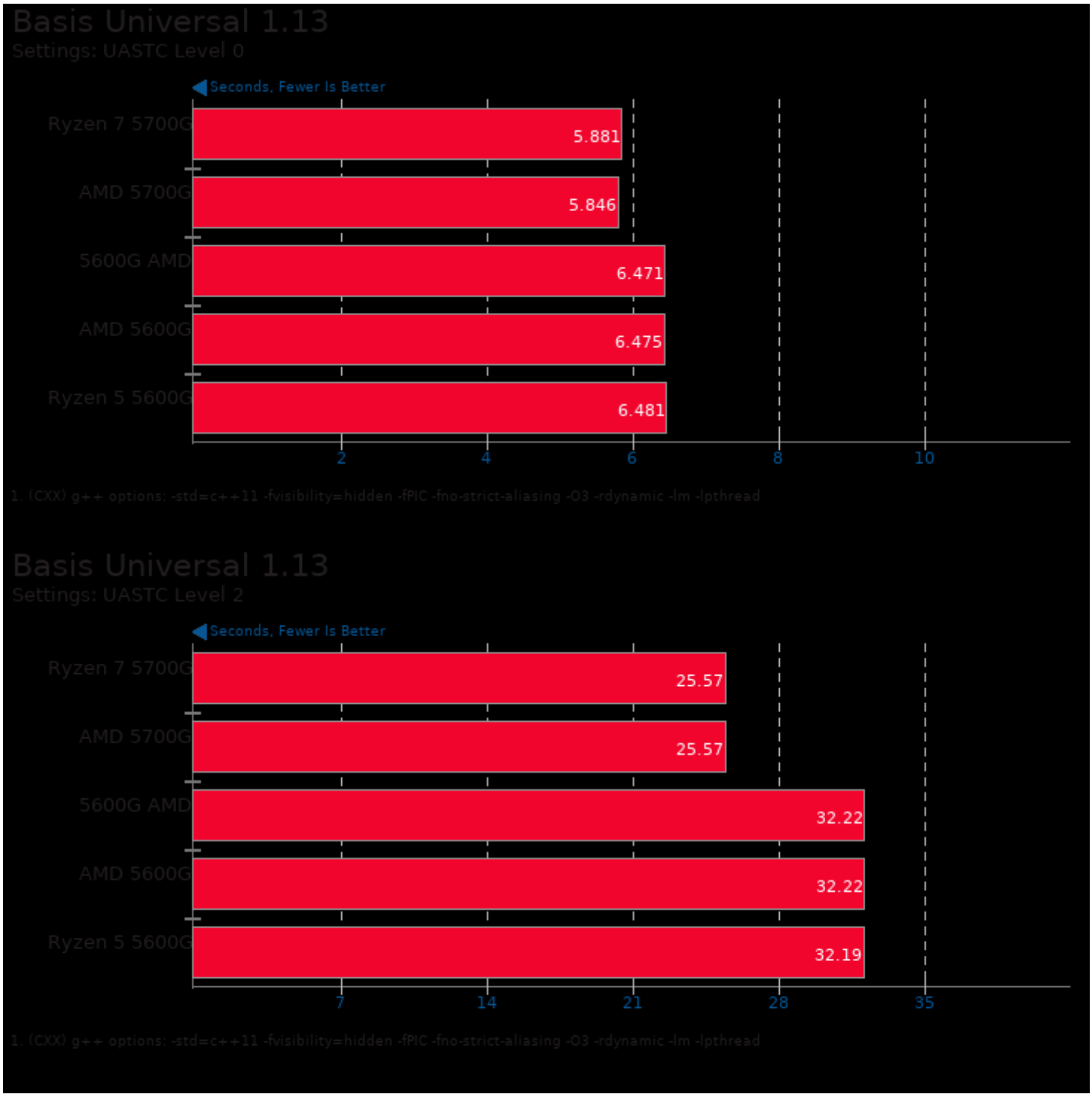

Liquid-DSP 2021.01.31
Threads: 4 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
297290000
295810000
292430000
293350000
293480000
60M
120M
180M
240M
300M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid
Liquid-DSP 2021.01.31
Threads: 8 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
519520000
526160000
444160000
456130000
450880000
110M
220M
330M
440M
550M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

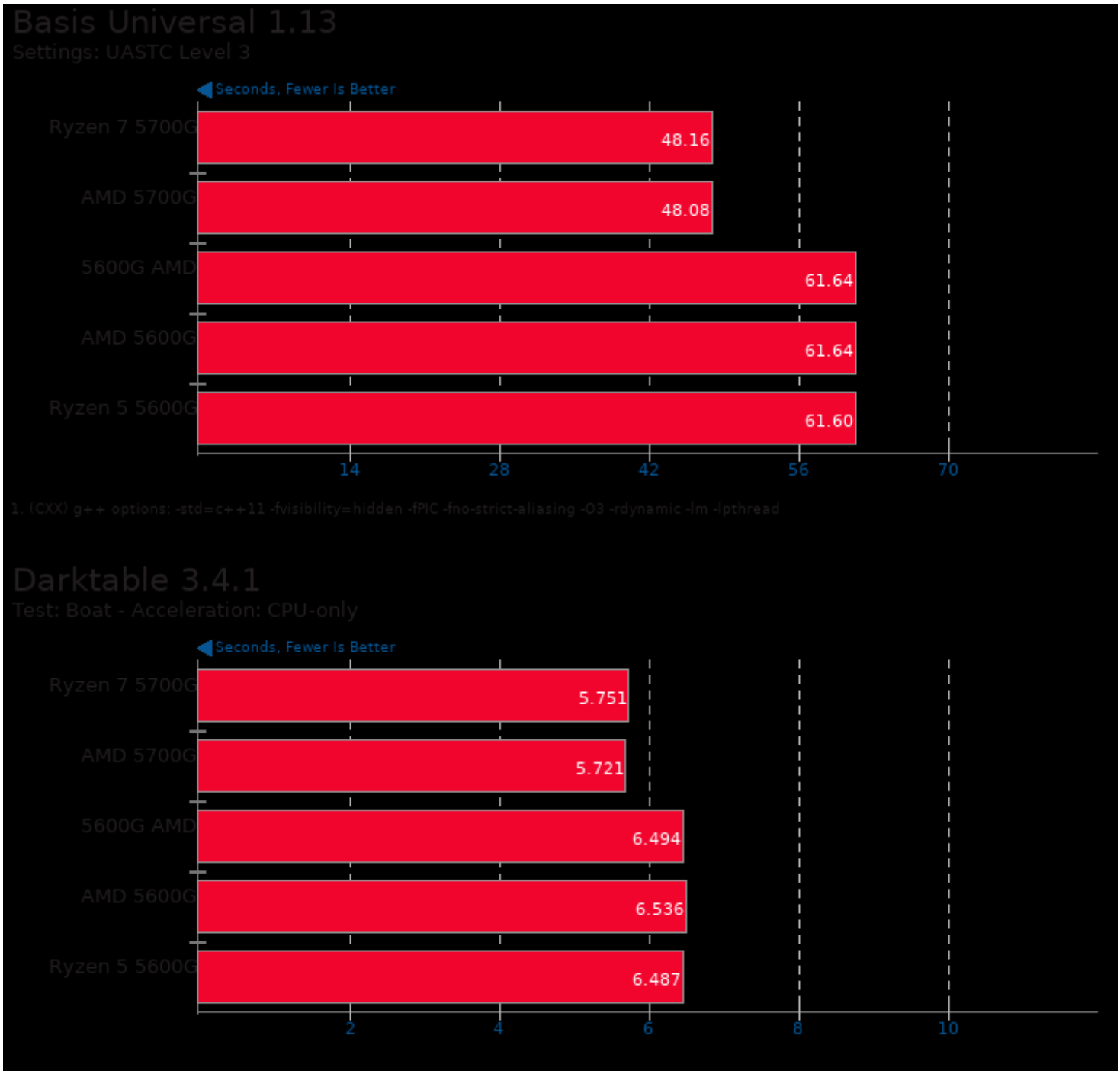

Liquid-DSP 2021.01.31
Threads: 16 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
541770000
539080000
449680000
448450000
449210000
120M
240M
360M
480M
600M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid
Liquid-DSP 2021.01.31
Threads: 32 - Buffer Length: 256 - Filter Length: 57
samples/s, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
541660000
540490000
449290000
450050000
450540000
120M
240M
360M
480M
600M
1. (CC) gcc options: -O3 -pthread -lm -lc -lliquid

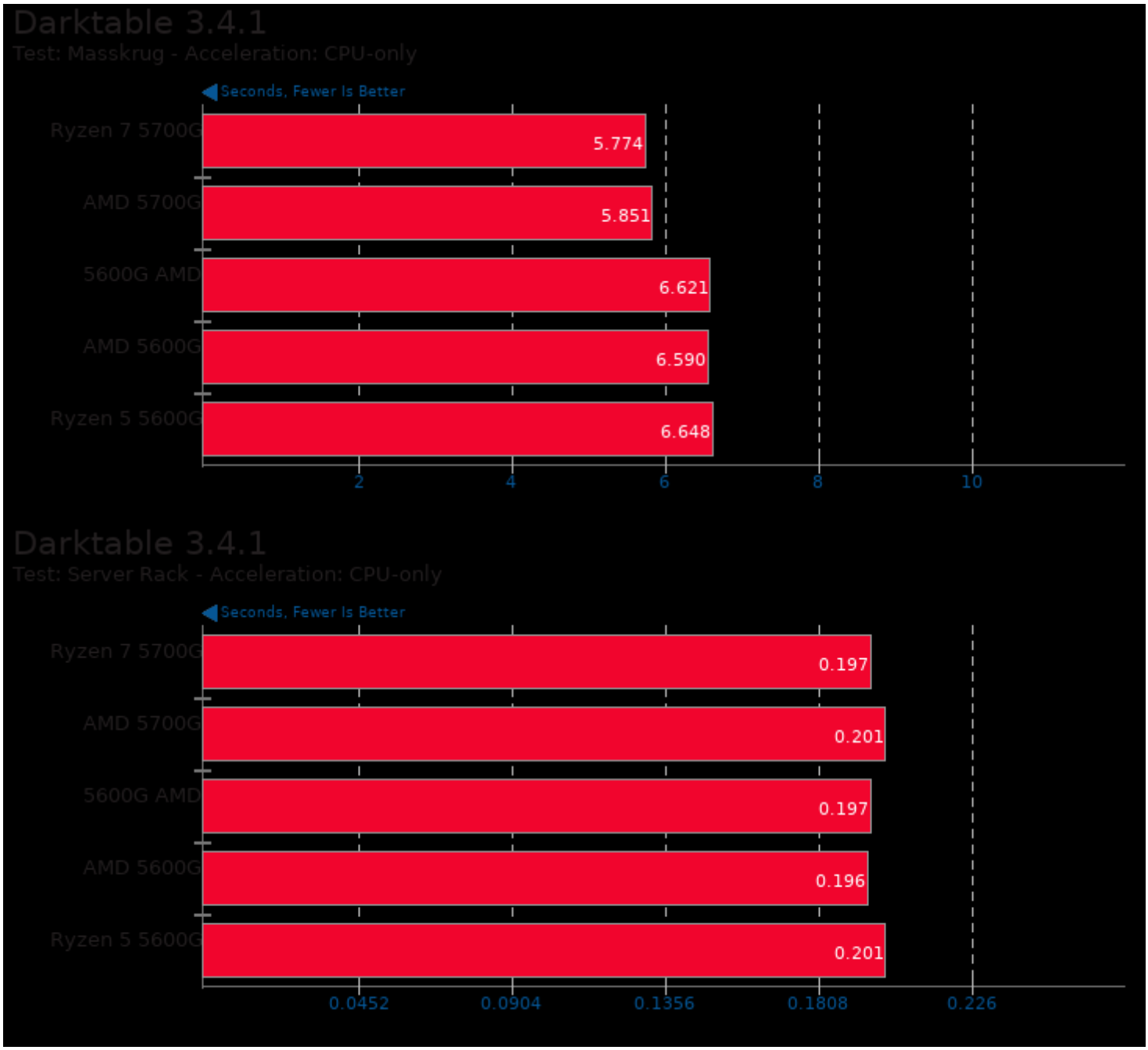

libjpeg-turbo tjbench 2.1.0
Test: Decompression Throughput
Megapixels/sec, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
252.74
252.36
243.18
242.36
240.51
60
120
180
240
300
1. (CC) gcc options: -O3 -rdynamic
GROMACS 2021.2
Implementation: MPI CPU - Input: water_GMX50_bare
Ns Per Day, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
0.794
0.796
0.755
0.757
0.754
0.1791
0.3582
0.5373
0.7164
0.8955
1. (CXX) g++ options: -O3 -pthread

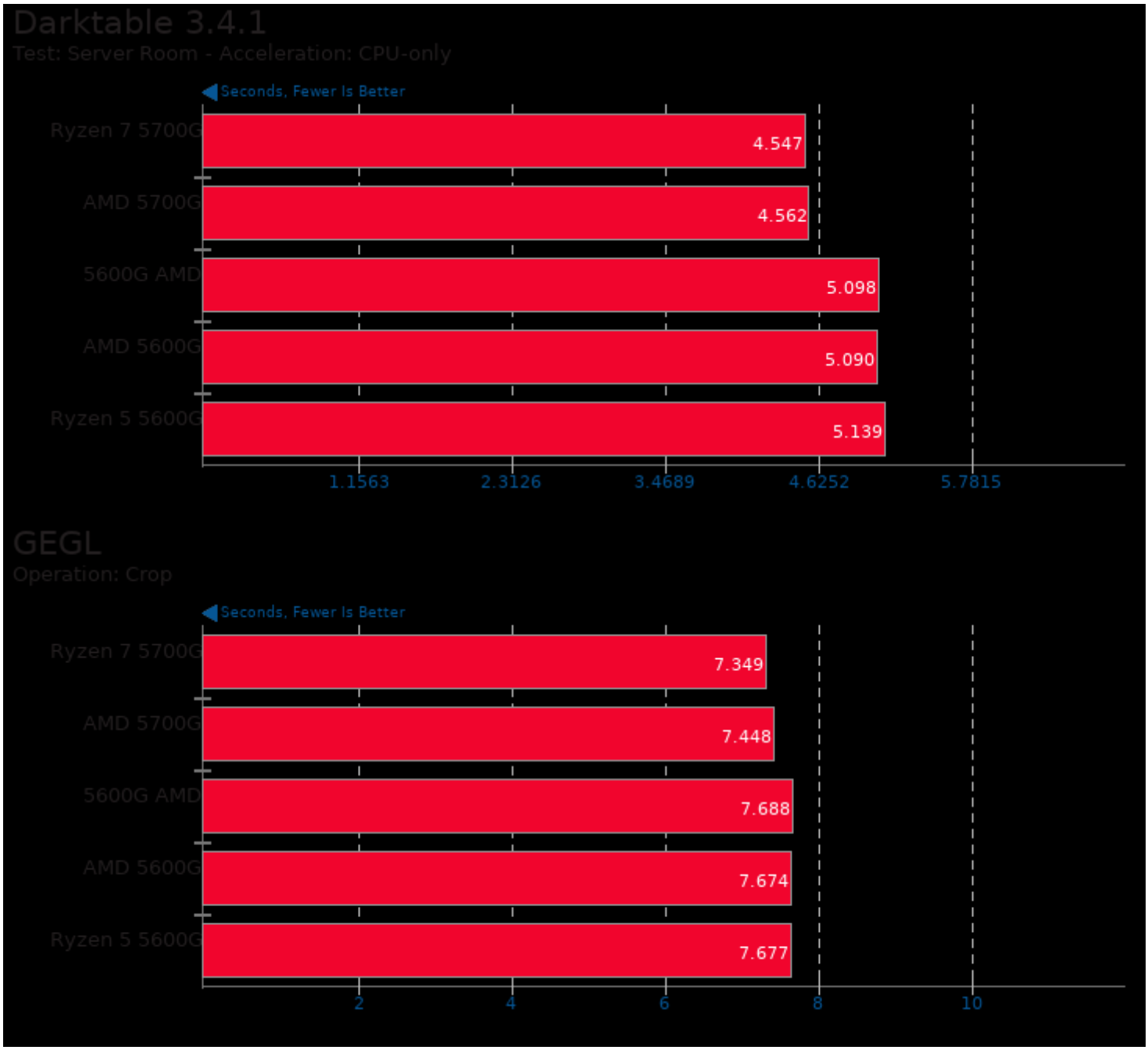

ASTC Encoder 3.0
Preset: Medium
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
4.2653
4.2625
4.5887
4.5919
4.6030
1.0357
2.0714
3.1071
4.1428
5.1785
1. (CXX) g++ options: -O3 -flto -pthread
ASTC Encoder 3.0
Preset: Thorough
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
7.4717
7.3956
9.2064
9.2020
9.1996
3
6
9
12
15
1. (CXX) g++ options: -O3 -flto -pthread

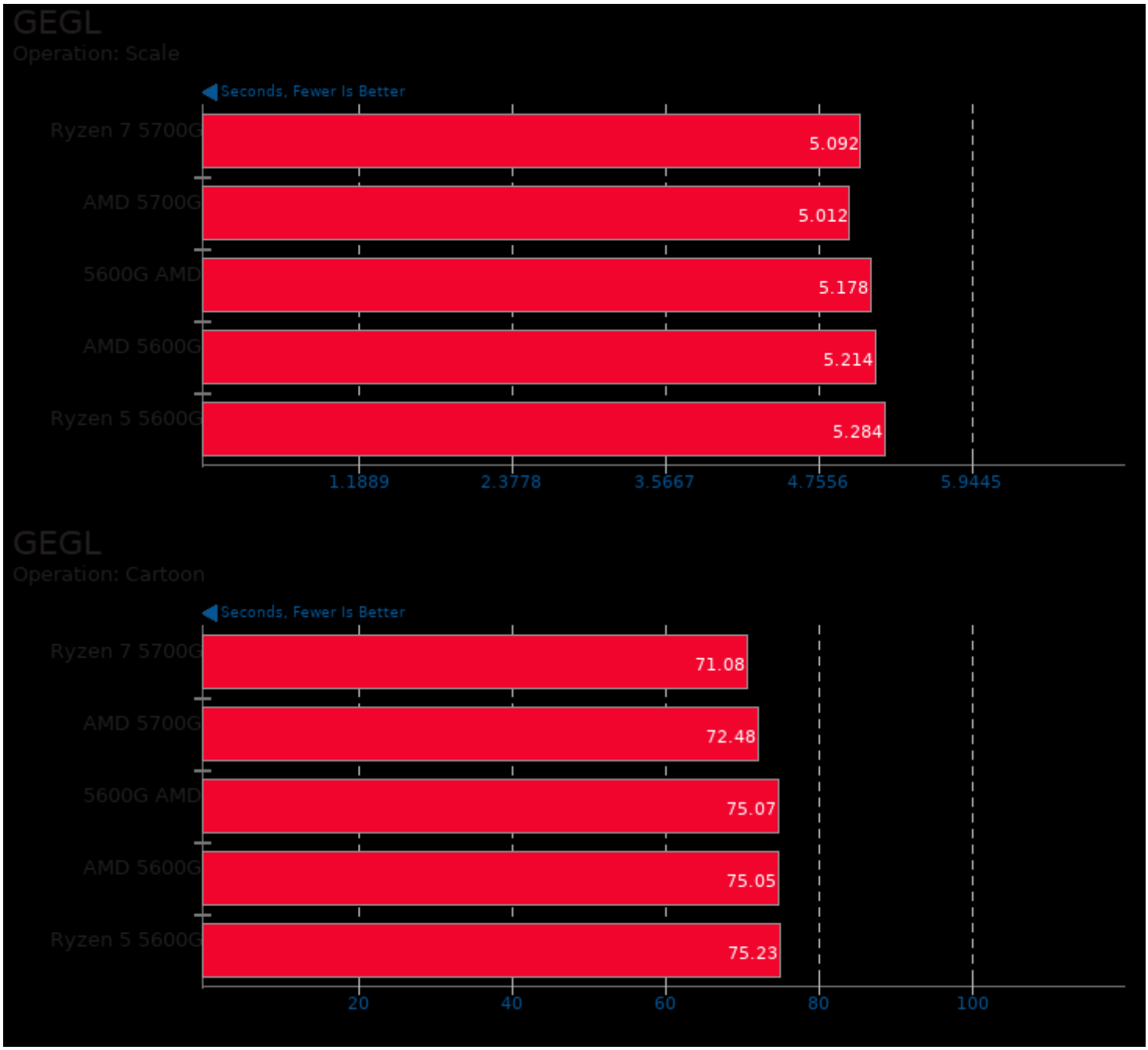

ASTC Encoder 3.0
Preset: Exhaustive
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
67.80
67.78
85.86
85.79
85.79
20
40
60
80
100
1. (CXX) g++ options: -O3 -flto -pthread
Basis Universal 1.13
Settings: ETC1S
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
23.54
23.45
25.80
25.93
25.87
6
12
18
24
30
1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

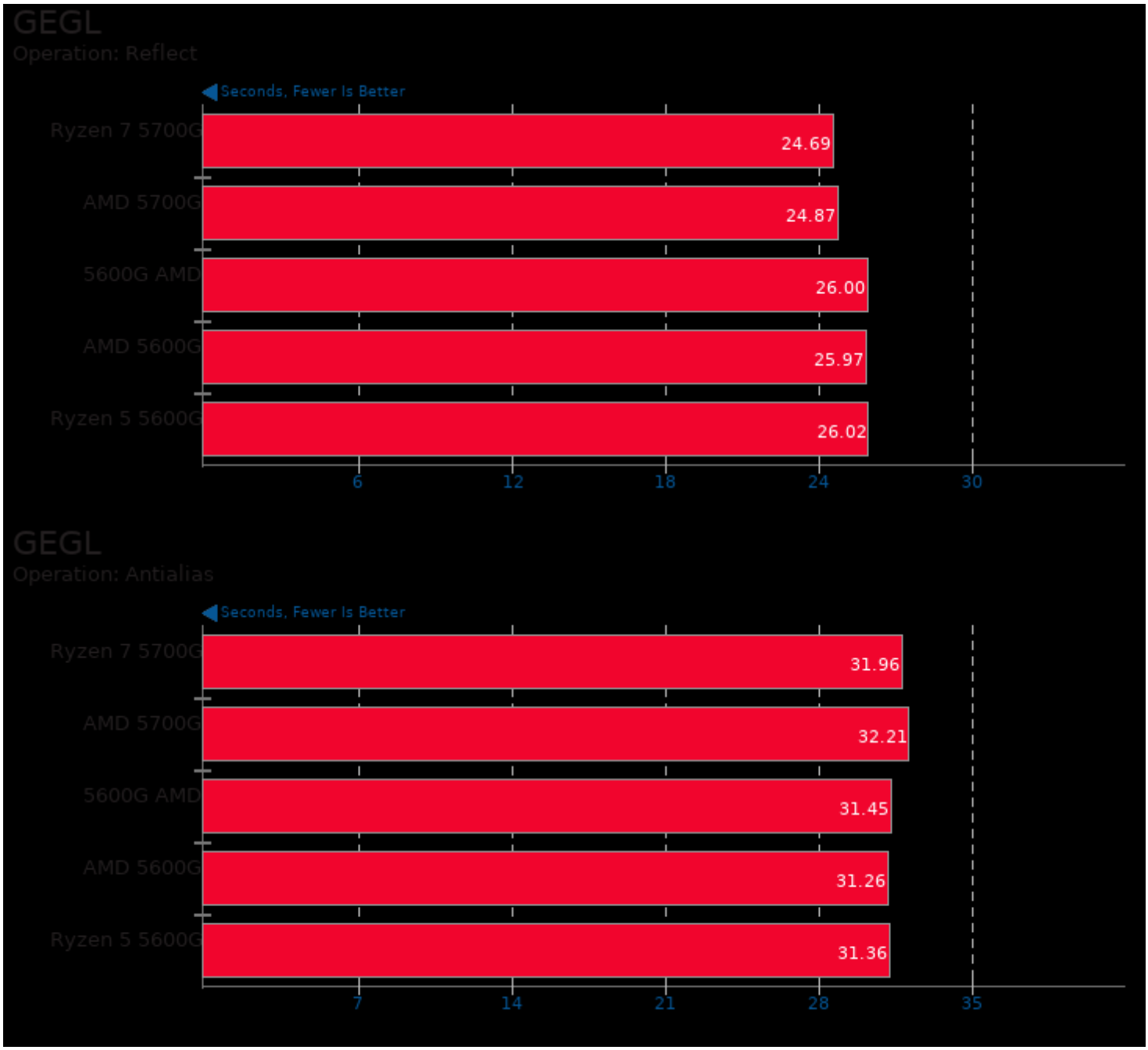

Basis Universal 1.13
Settings: UASTC Level 0
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5.881
5.846
6.471
6.475
6.481
2
4
6
8
10
1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread
Basis Universal 1.13
Settings: UASTC Level 2
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
25.57
25.57
32.22
32.22
32.19
7
14
21
28
35
1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

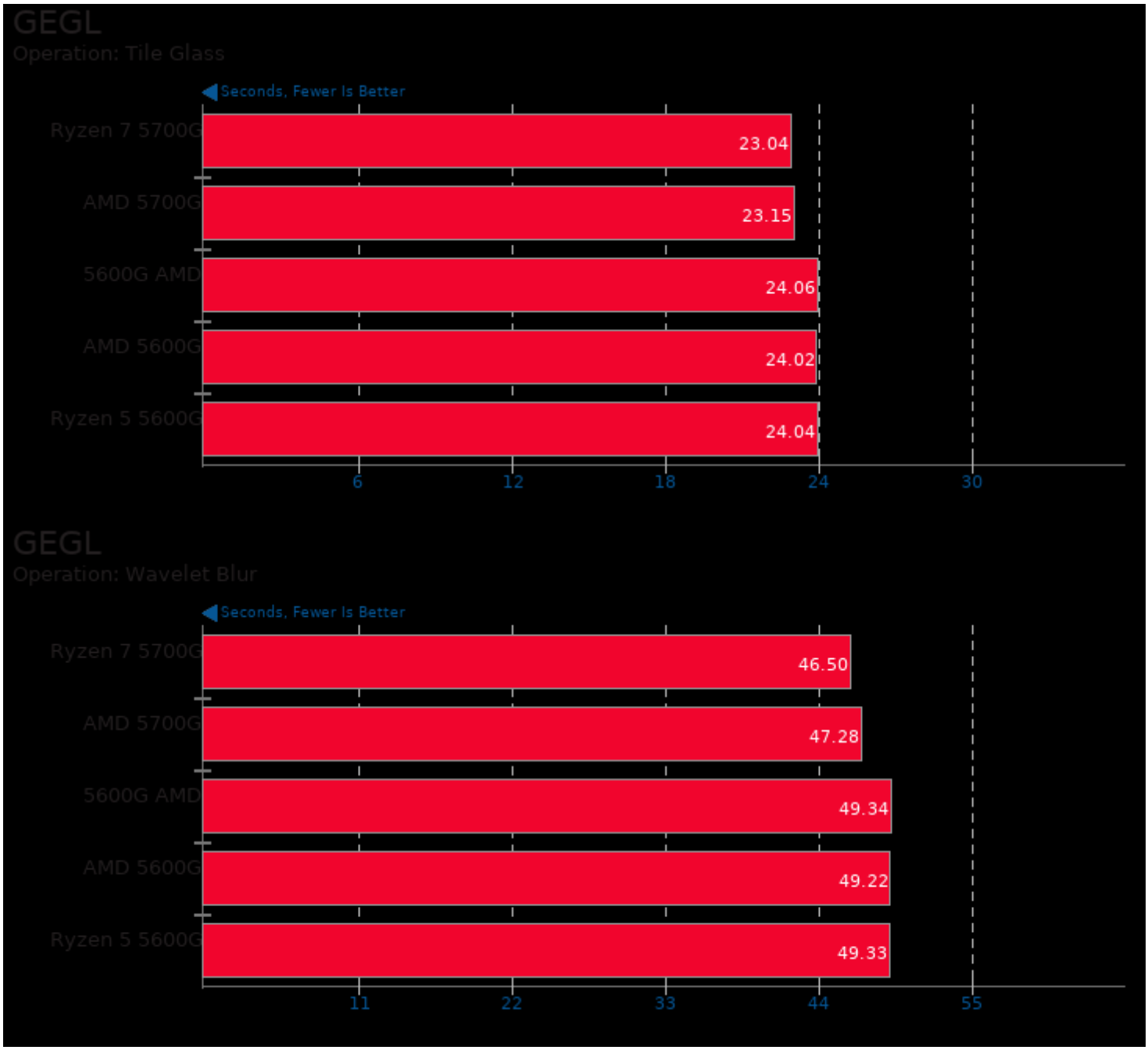

Basis Universal 1.13
Settings: UASTC Level 3
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
48.16
48.08
61.64
61.64
61.60
14
28
42
56
70
1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread
Darktable 3.4.1
Test: Boat - Acceleration: CPU-only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5.751
5.721
6.494
6.536
6.487
2
4
6
8
10

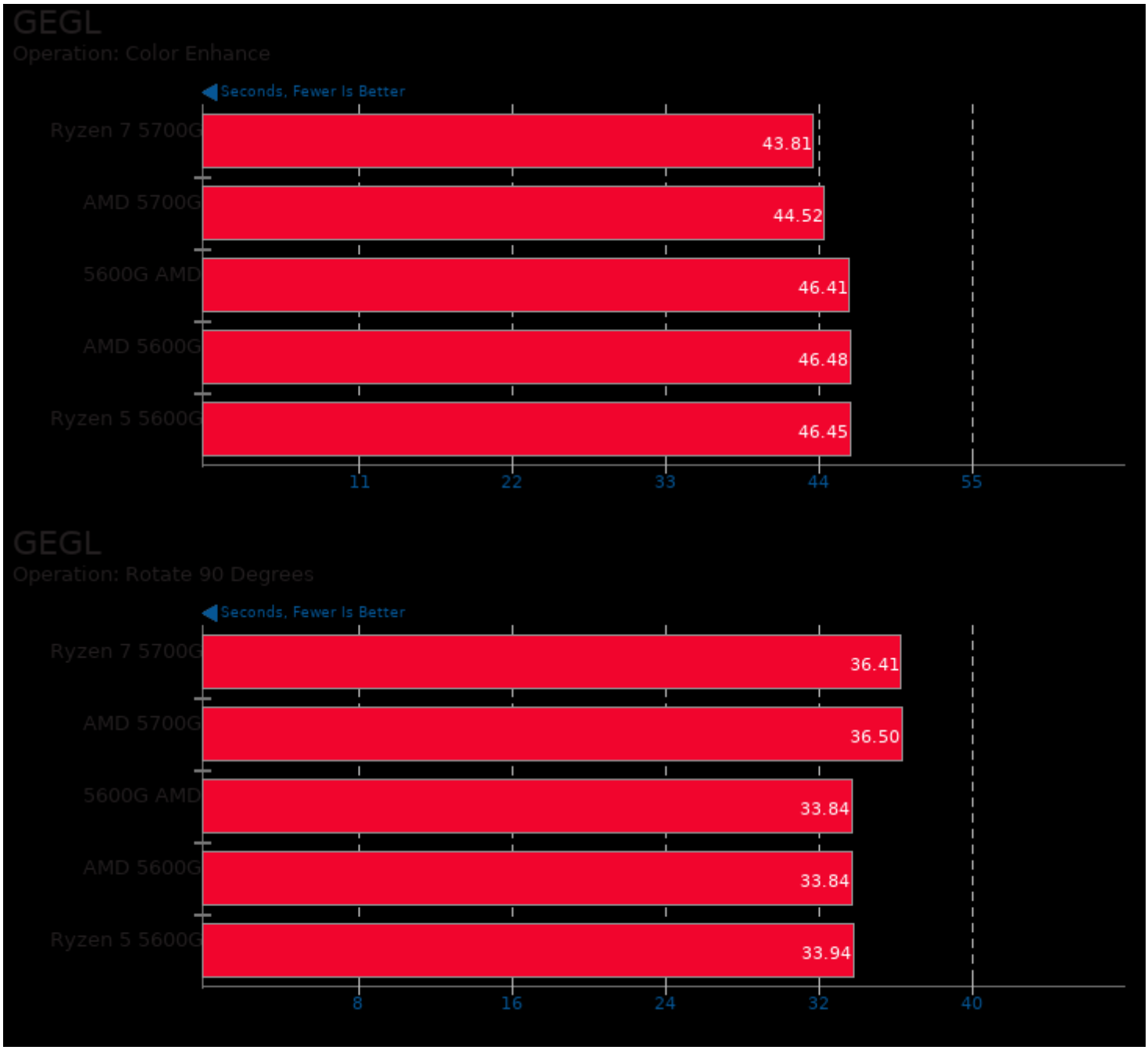

Darktable 3.4.1
Test: Masskrug - Acceleration: CPU-only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5.774
5.851
6.621
6.590
6.648
2
4
6
8
10
Darktable 3.4.1
Test: Server Rack - Acceleration: CPU-only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
0.197
0.201
0.197
0.196
0.201
0.0452
0.0904
0.1356
0.1808
0.226

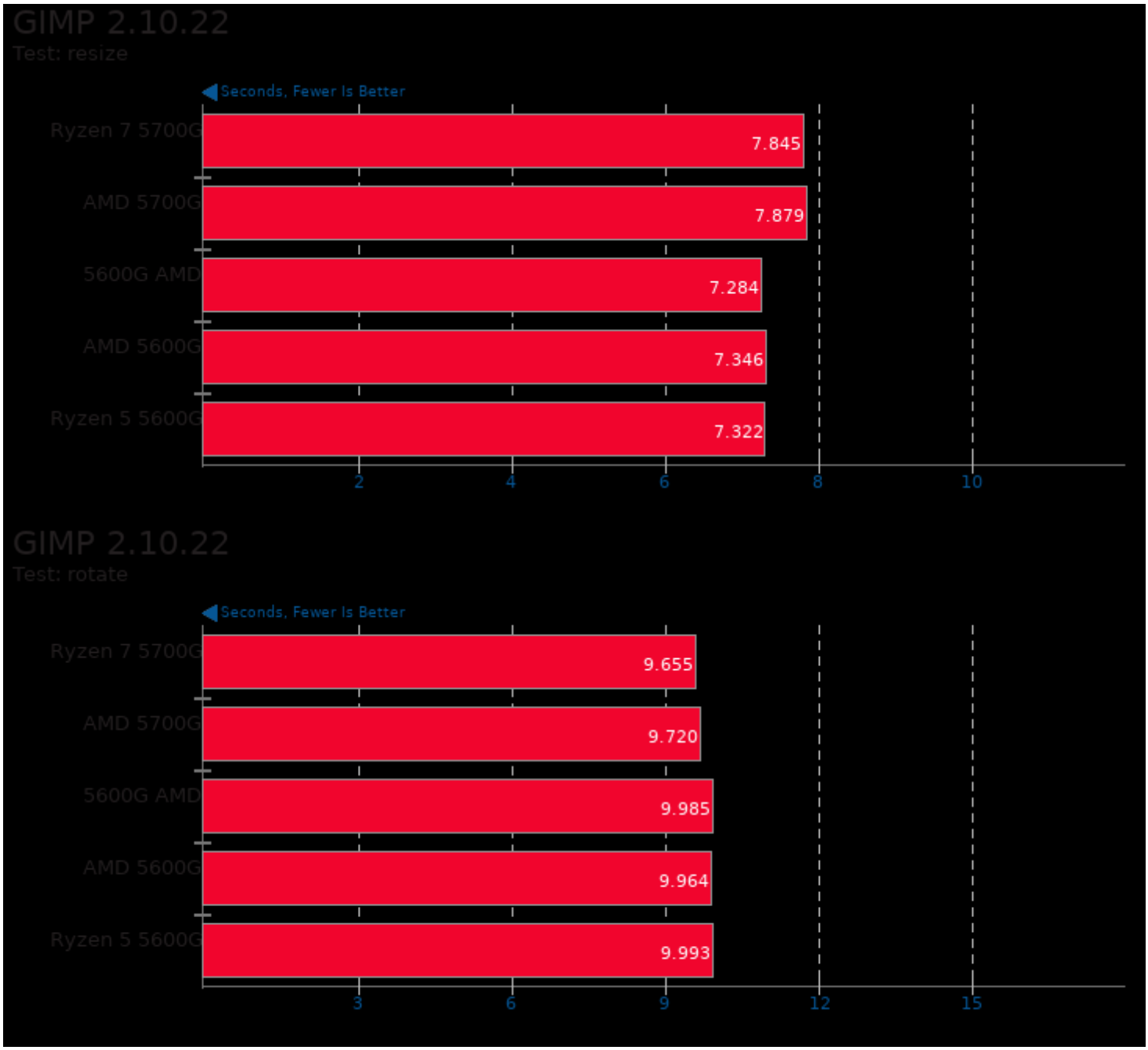

Darktable 3.4.1
Test: Server Room - Acceleration: CPU-only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
4.547
4.562
5.098
5.090
5.139
1.1563
2.3126
3.4689
4.6252
5.7815
GEGL
Operation: Crop
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
7.349
7.448
7.688
7.674
7.677
2
4
6
8
10

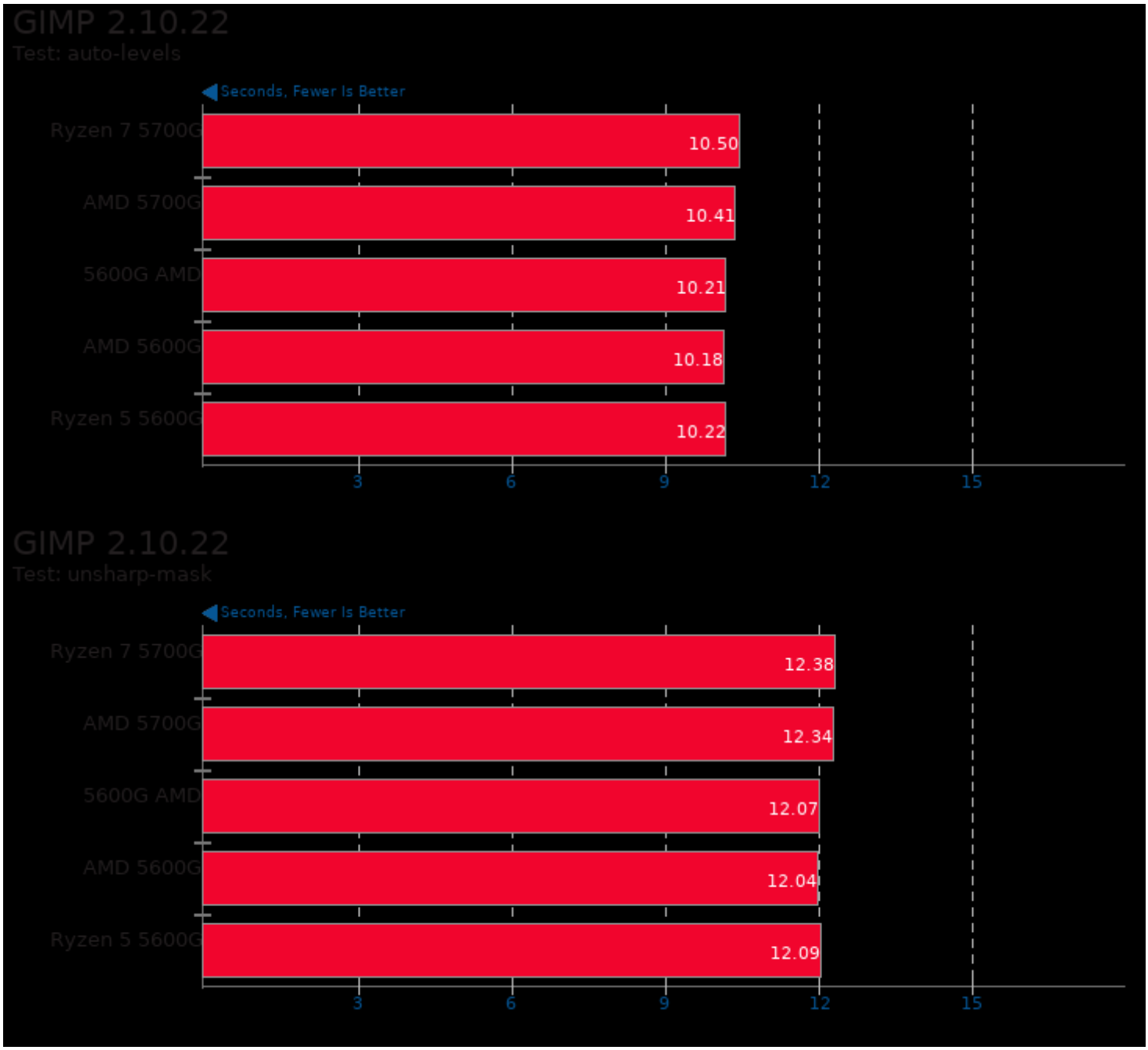

GEGL
Operation: Scale
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5.092
5.012
5.178
5.214
5.284
1.1889
2.3778
3.5667
4.7556
5.9445
GEGL
Operation: Cartoon
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
71.08
72.48
75.07
75.05
75.23
20
40
60
80
100

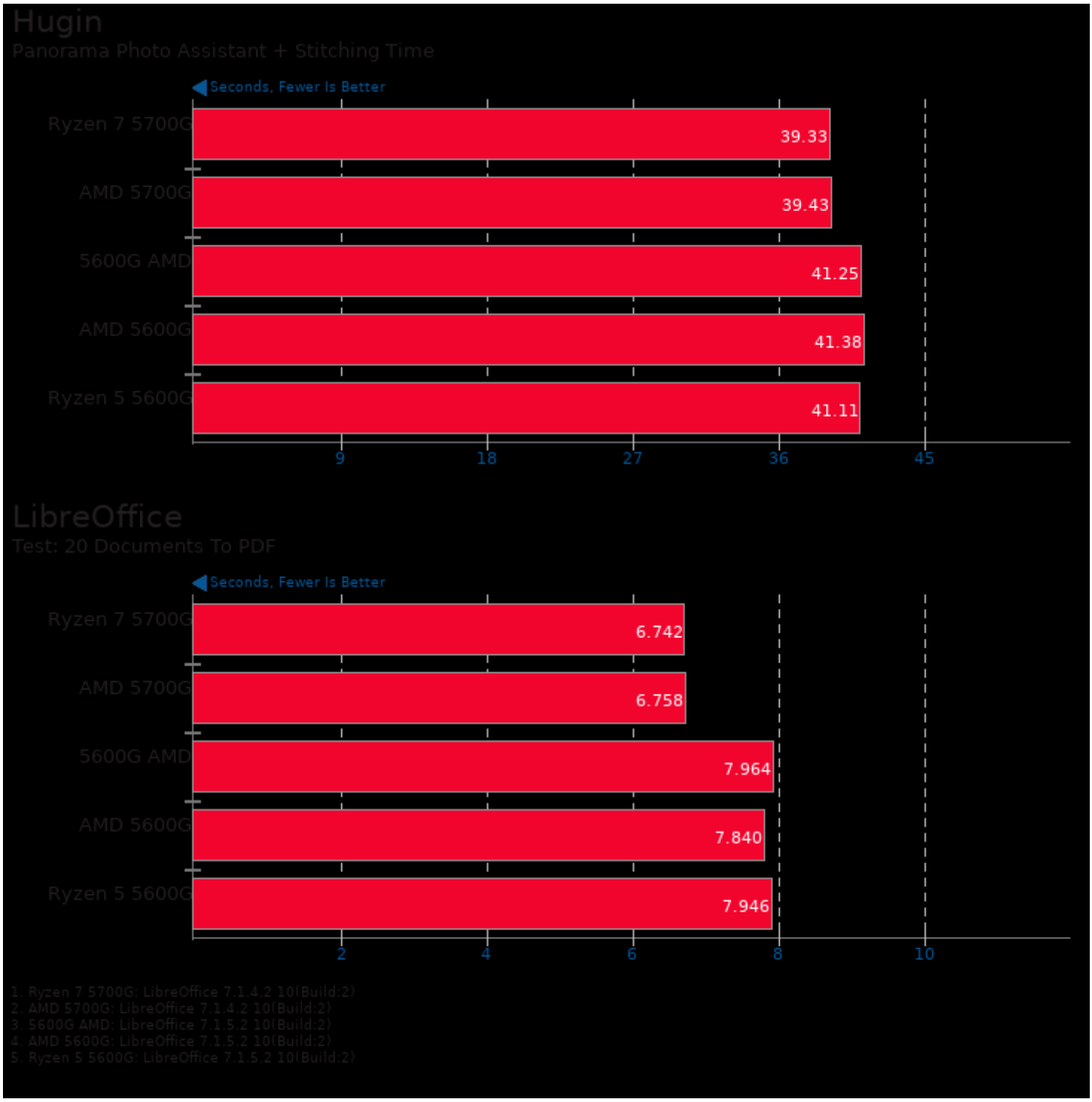

GEGL
Operation: Reflect
Seconds, Fewer Is Better
Ryzen 7 5700G
24.69
AMD 5700G
24.87
5600G AMD
26.00
AMD 5600G
25.97
Ryzen 5 5600G
26.02
6
12
18
24
30
GEGL
Operation: Antialias
Seconds, Fewer Is Better
Ryzen 7 5700G
31.96
AMD 5700G
32.21
5600G AMD
31.45
AMD 5600G
31.26
Ryzen 5 5600G
31.36
7
14
21
28
35

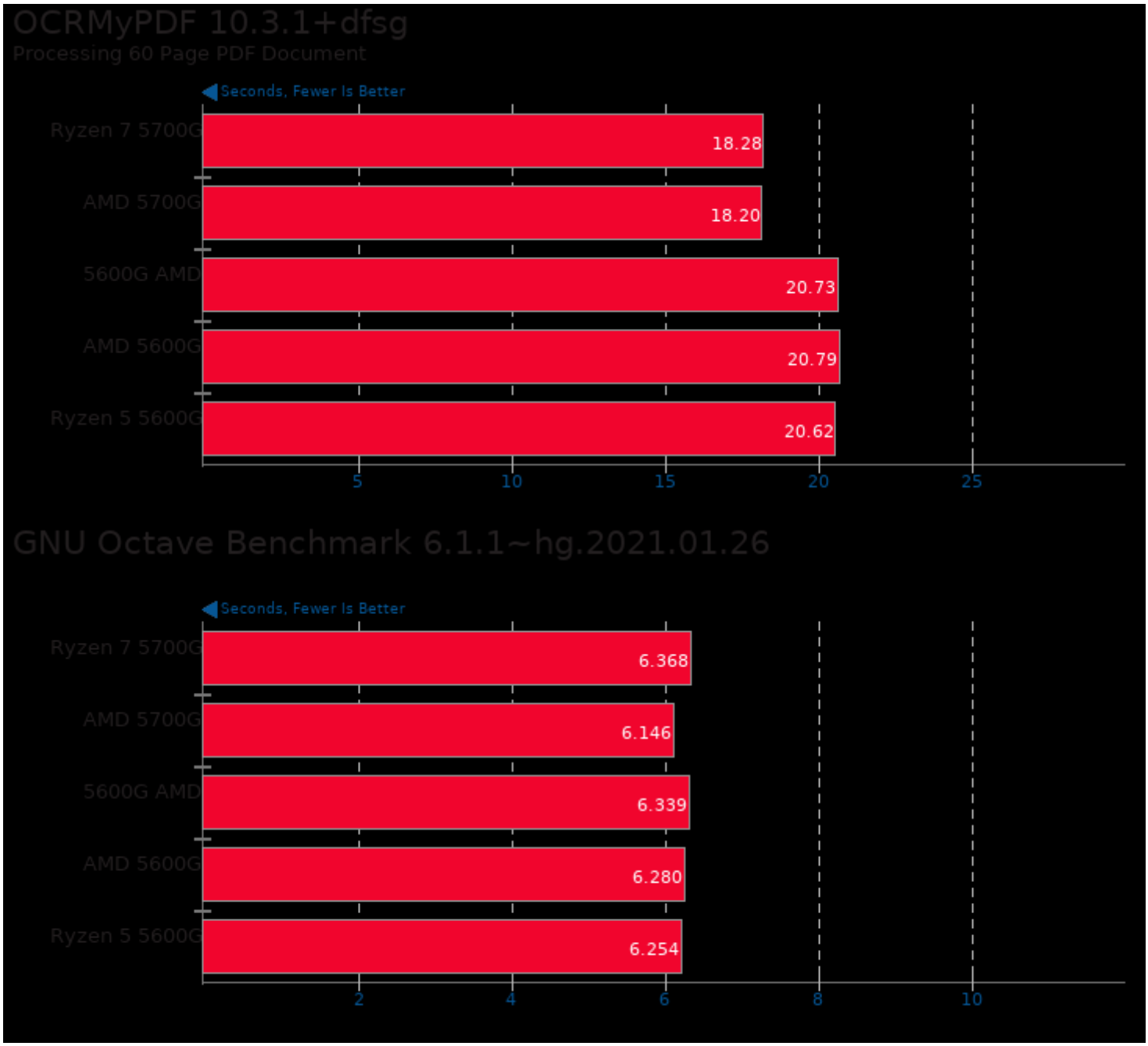

GEGL
Operation: Tile Glass
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
23.04
23.15
24.06
24.02
24.04
6
12
18
24
30
GEGL
Operation: Wavelet Blur
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
46.50
47.28
49.34
49.22
49.33
11
22
33
44
55

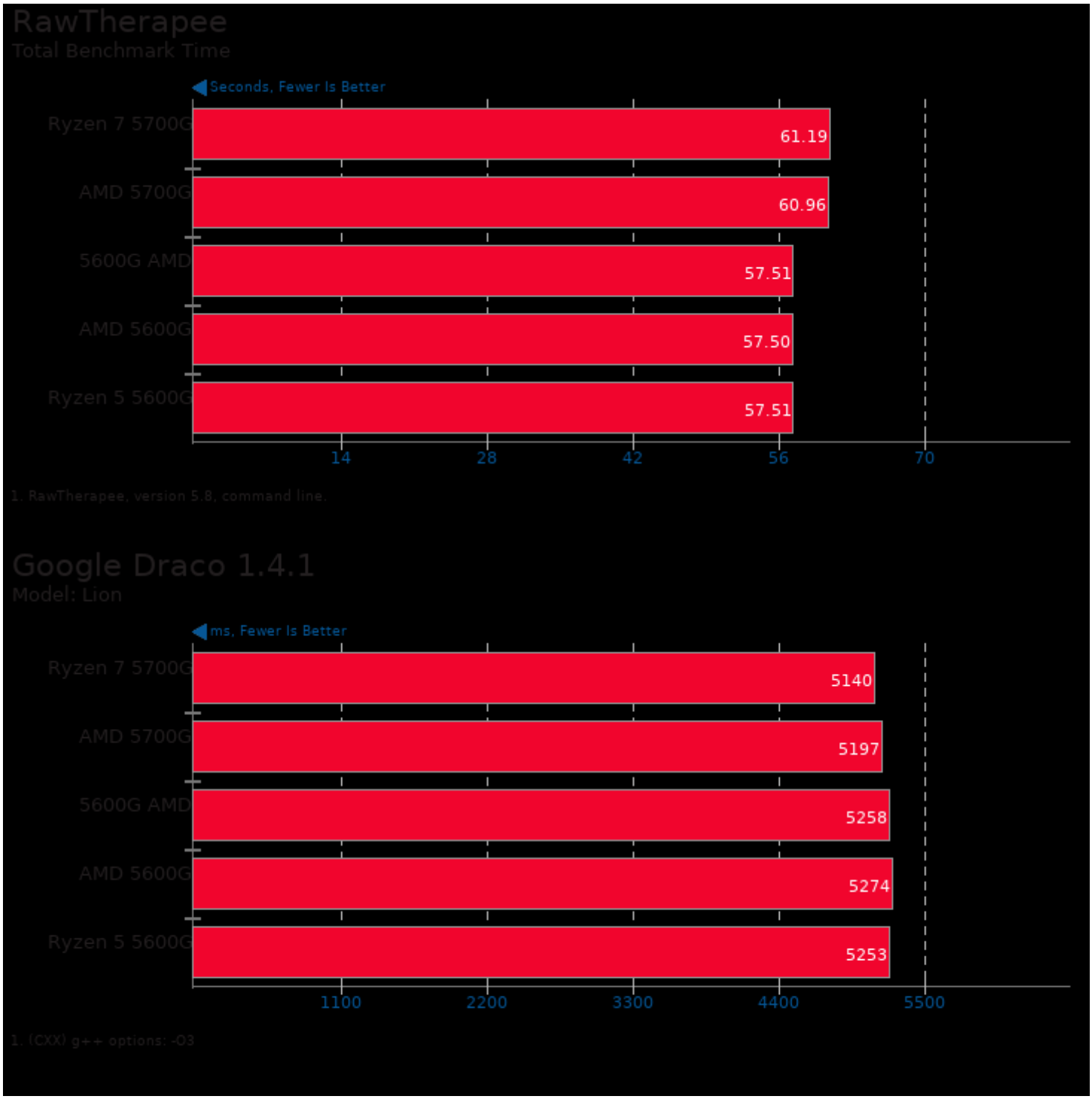

GEGL
Operation: Color Enhance
Seconds, Fewer Is Better
Ryzen 7 5700G
43.81
AMD 5700G
44.52
5600G AMD
46.41
AMD 5600G
46.48
Ryzen 5 5600G
46.45
11
22
33
44
55
GEGL
Operation: Rotate 90 Degrees
Seconds, Fewer Is Better
Ryzen 7 5700G
36.41
AMD 5700G
36.50
5600G AMD
33.84
AMD 5600G
33.84
Ryzen 5 5600G
33.94
8
16
24
32
40


GIMP 2.10.22
Test: resize
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
7.845
7.879
7.284
7.346
7.322
2
4
6
8
10
GIMP 2.10.22
Test: rotate
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
9.655
9.720
9.985
9.964
9.993
3
6
9
12
15

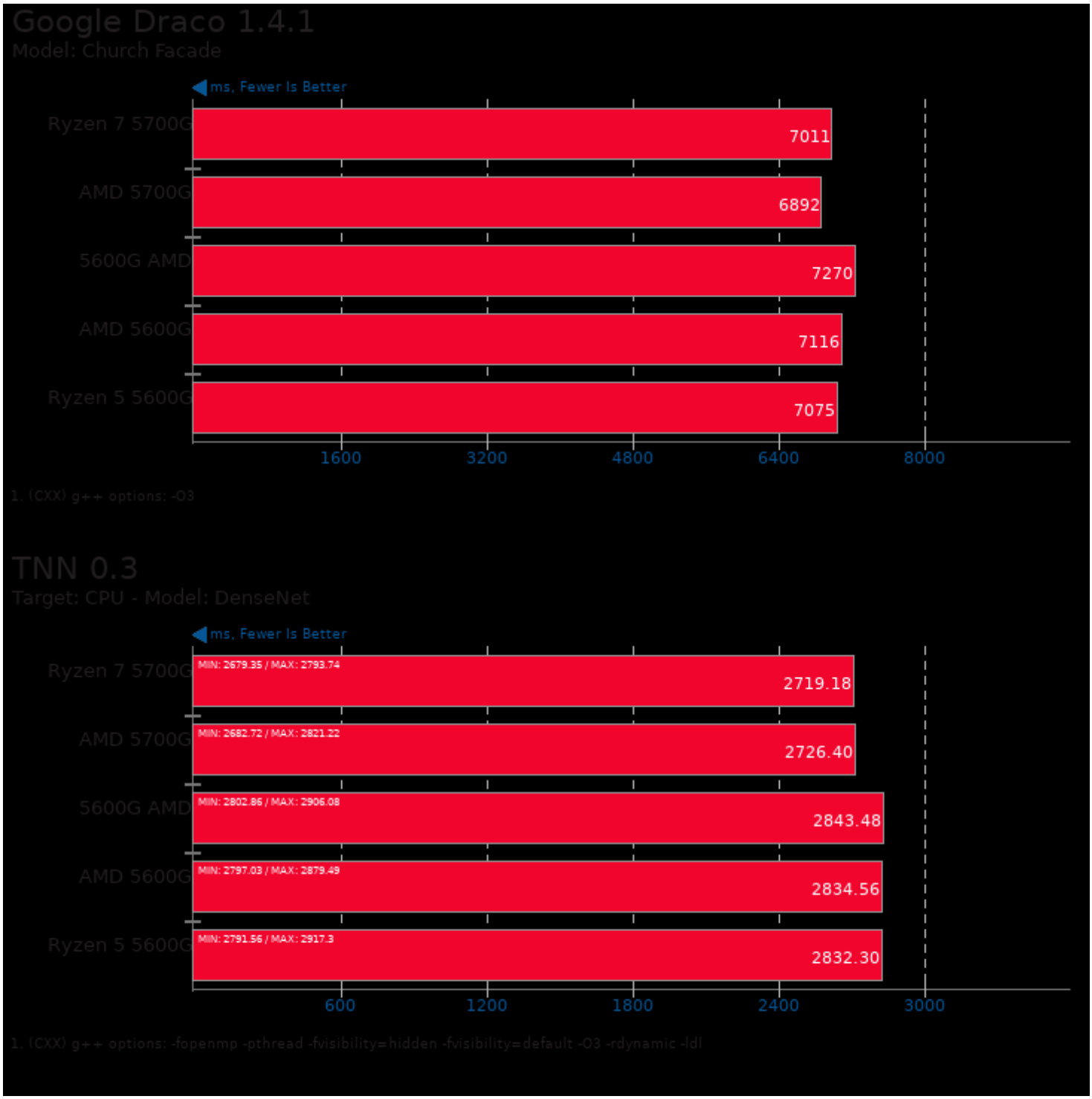

GIMP 2.10.22
Test: auto-levels
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
10.50
10.41
10.21
10.18
10.22
3
6
9
12
15
GIMP 2.10.22
Test: unsharp-mask
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
12.38
12.34
12.07
12.04
12.09
3
6
9
12
15

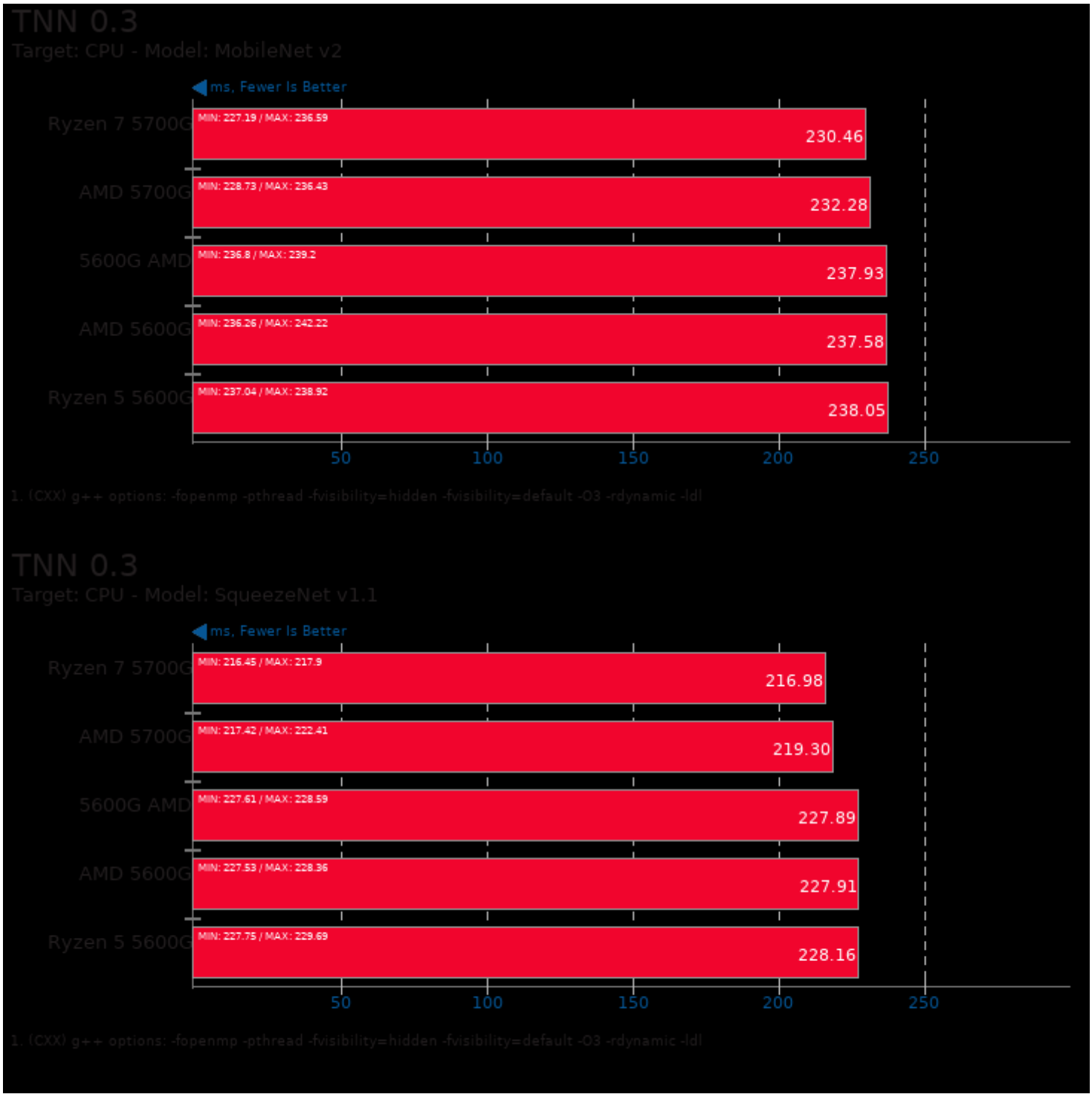

Hugin
Panorama Photo Assistant + Stitching Time
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
39.33
39.43
41.25
41.38
41.11
9
18
27
36
45
LibreOffice
Test: 20 Documents To PDF
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
6.742
6.758
7.964
7.840
7.946
2
4
6
8
10
1. Ryzen 7 5700G: LibreOffice 7.1.4.2 10(Build:2)
2. AMD 5700G: LibreOffice 7.1.4.2 10(Build:2)
3. 5600G AMD: LibreOffice 7.1.5.2 10(Build:2)
4. AMD 5600G: LibreOffice 7.1.5.2 10(Build:2)
5. Ryzen 5 5600G: LibreOffice 7.1.5.2 10(Build:2)

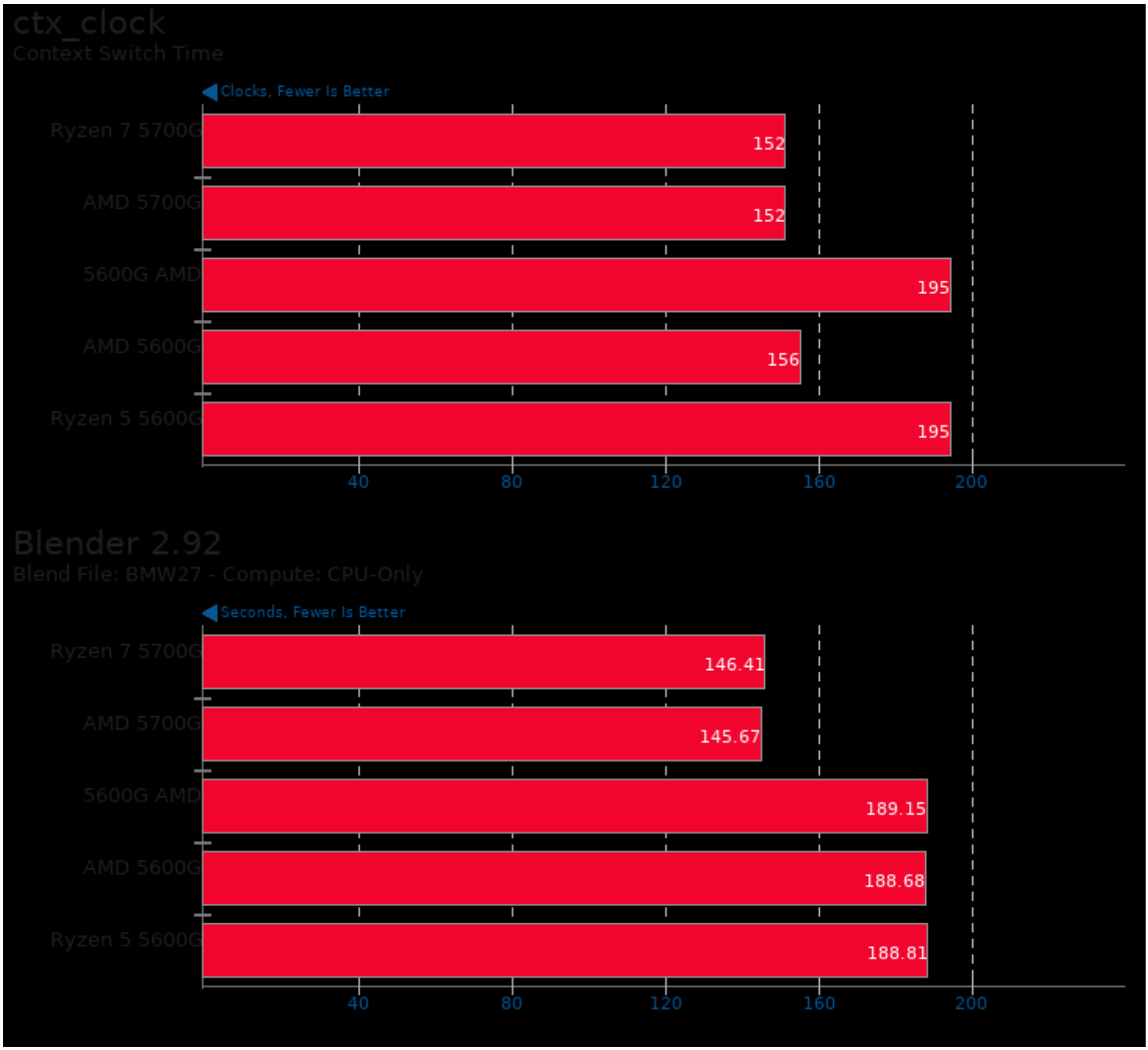

OCRMyPDF 10.3.1+dfsg
Processing 60 Page PDF Document
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
18.28
18.20
20.73
20.79
20.62
5
10
15
20
25
GNU Octave Benchmark 6.1.1~hg.2021.01.26
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
6.368
6.146
6.339
6.280
6.254
2
4
6
8
10

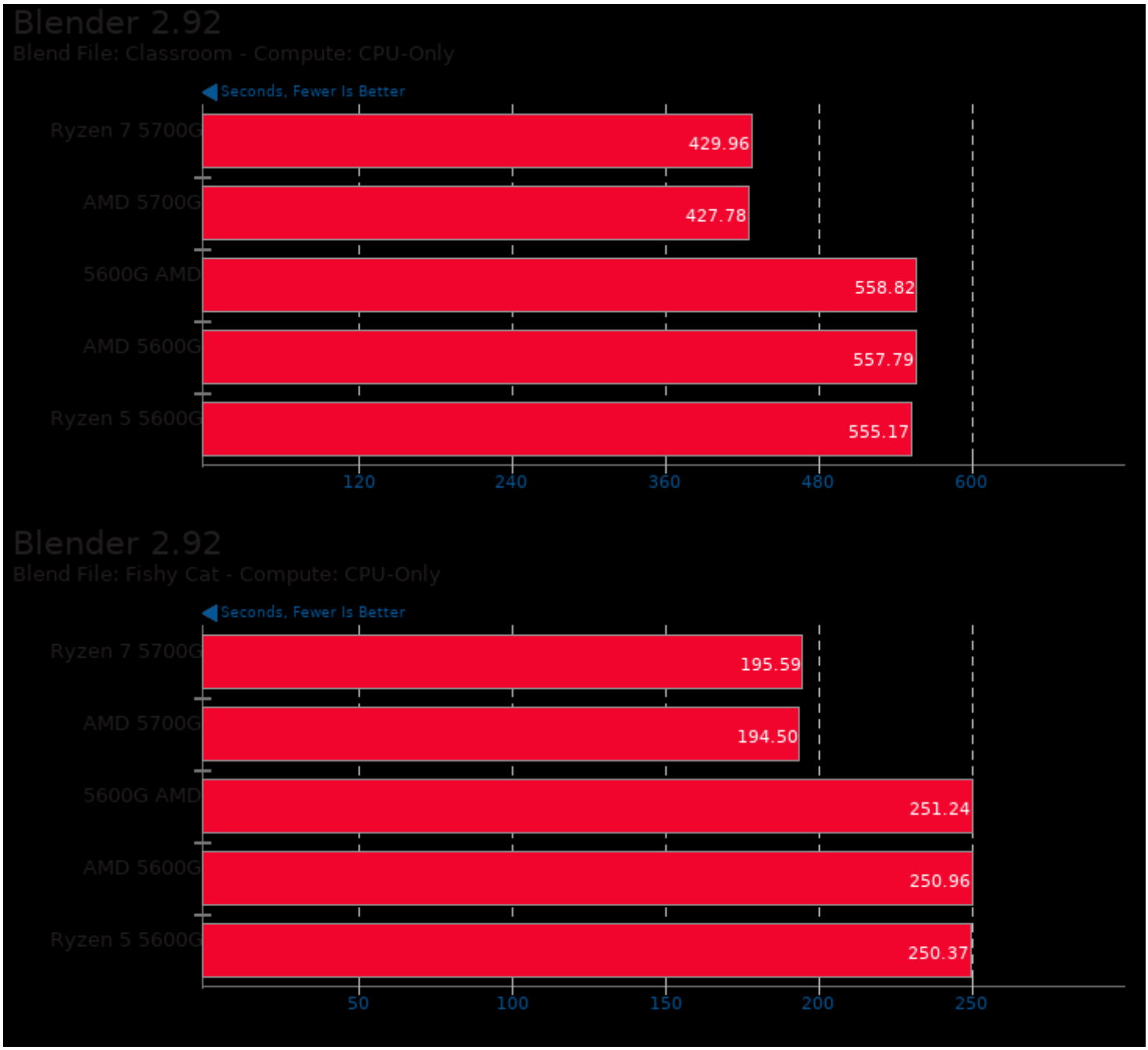

RawTherapee
Total Benchmark Time
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
61.19
60.96
57.51
57.50
57.51
14
28
42
56
70
1. RawTherapee, version 5.8, command line.

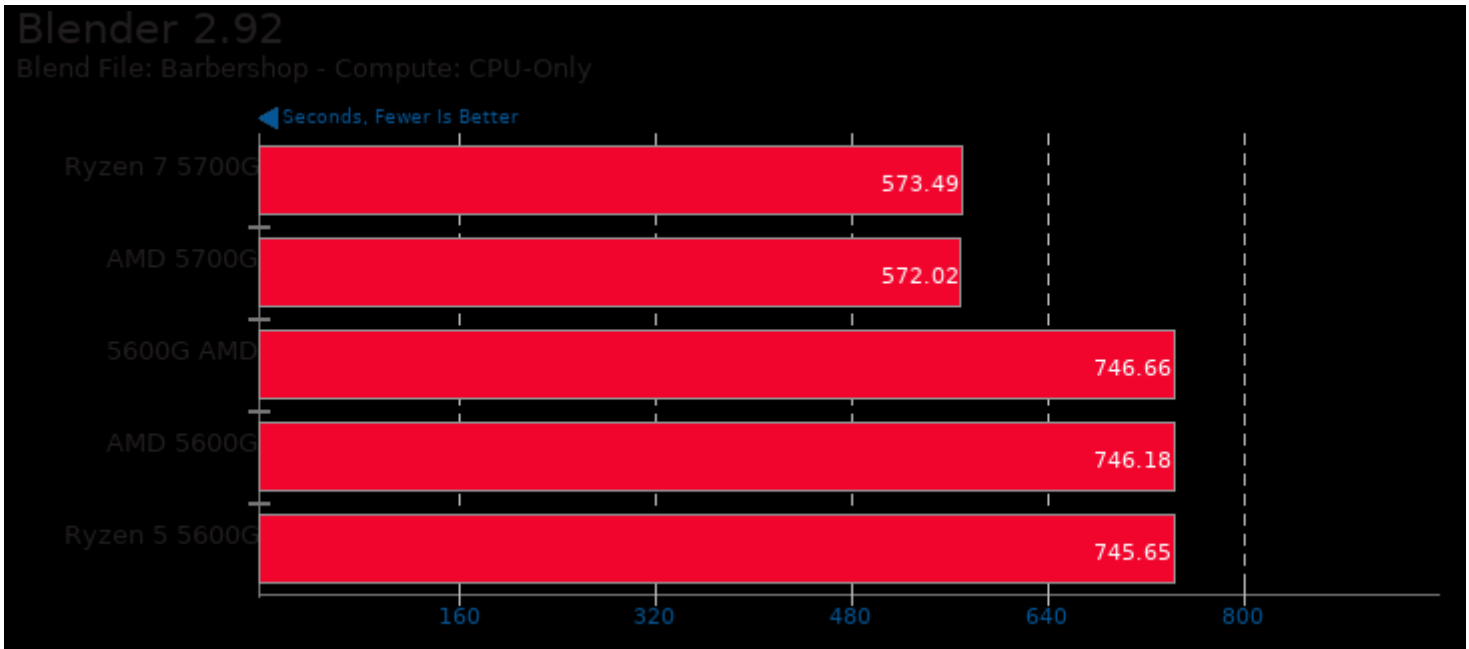
Google Draco 1.4.1
Model: Lion
ms, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5140
5197
5258
5274
5253
1100
2200
3300
4400
5500
1. (CXX) g++ options: -O3

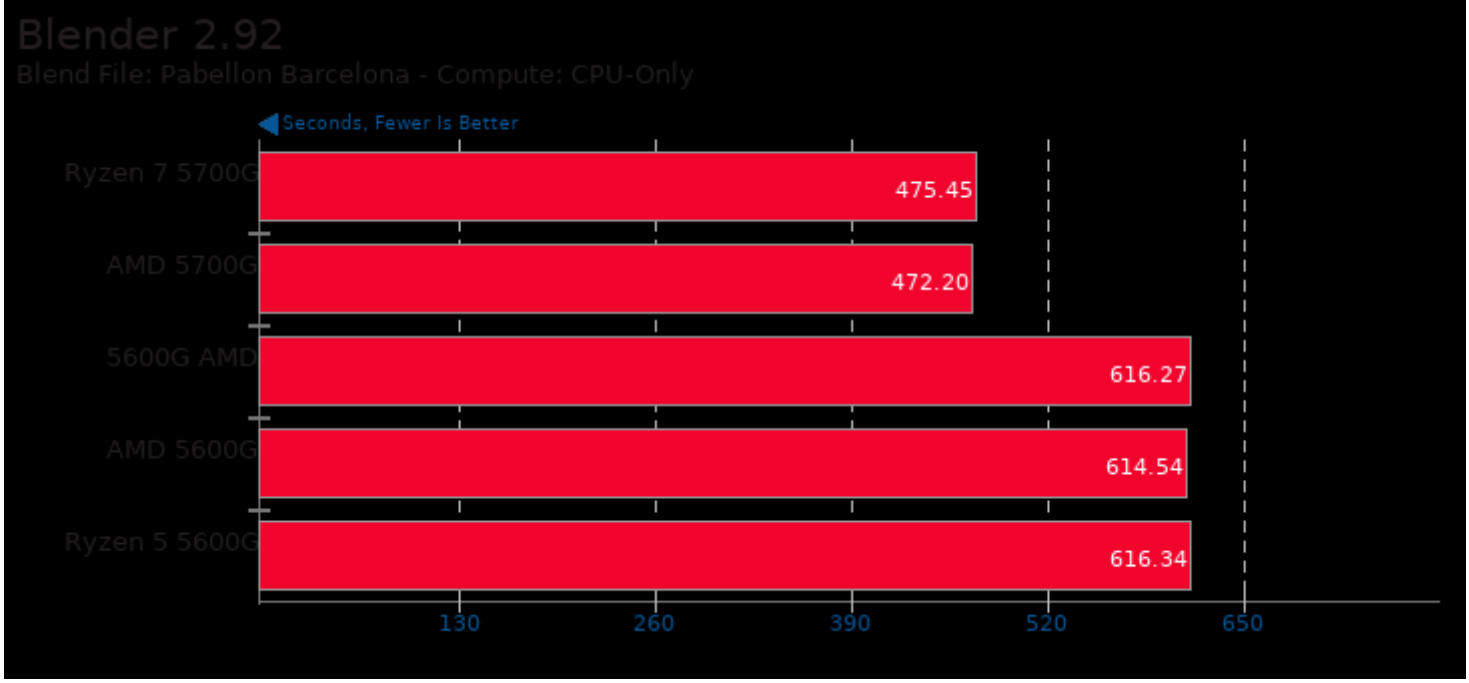

Google Draco 1.4.1
Model: Church Facade
ms, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
7011
6892
7270
7116
7075
1600
3200
4800
6400
8000
1. (CXX) g++ options: -O3
TNN 0.3
Target: CPU - Model: DenseNet
ms, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
MIN: 2679.35 / MAX: 2793.74
2719.18
MIN: 2682.72 / MAX: 2821.22
2726.40
MIN: 2802.86 / MAX: 2906.08
2843.48
MIN: 2797.03 / MAX: 2879.49
2834.56
MIN: 2791.56 / MAX: 2917.3
2832.30
600
1200
1800
2400
3000
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

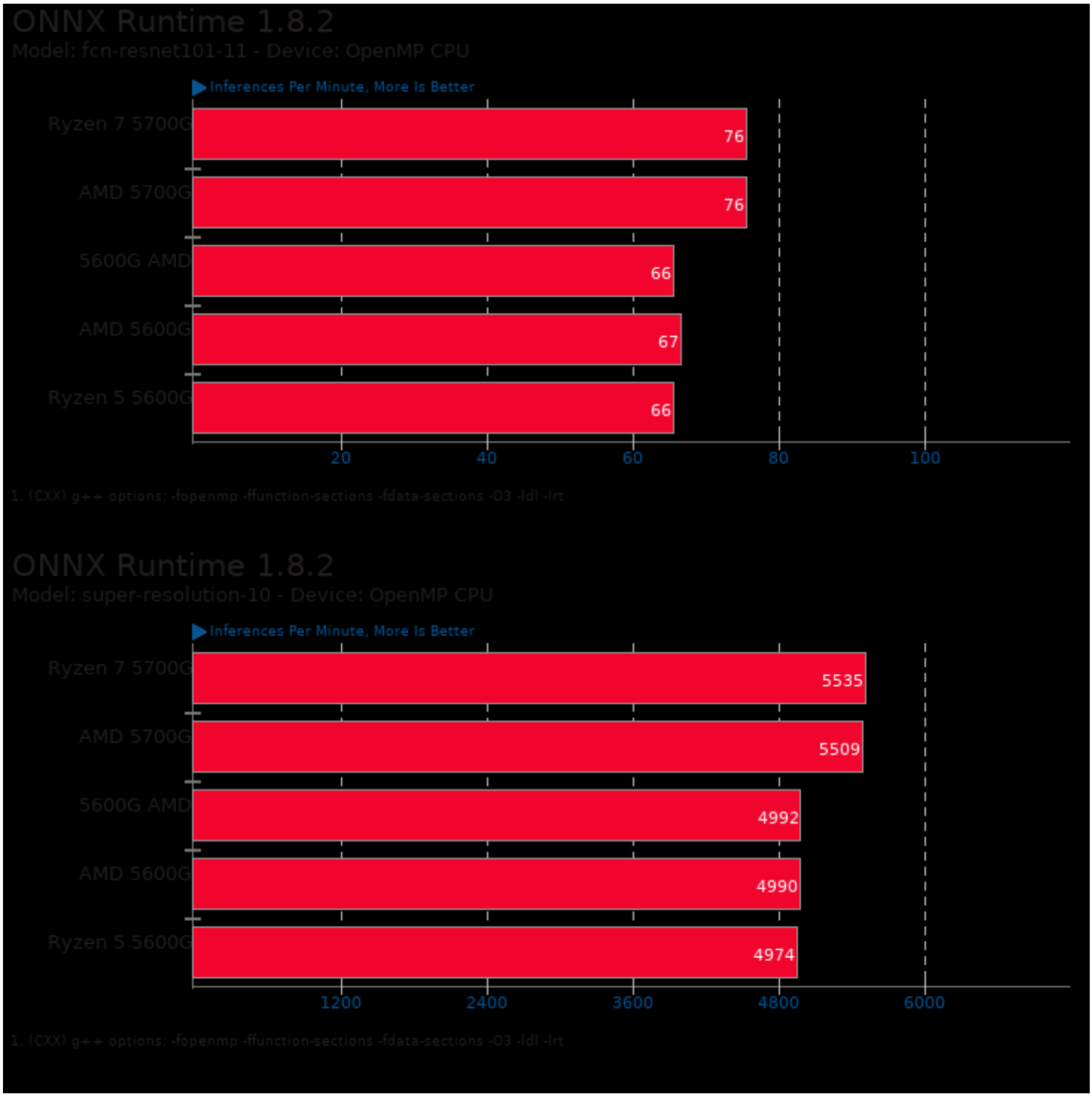

TNN 0.3
Target: CPU - Model: MobileNet v2
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 227.19 / MAX: 236.59
230.46
AMD 5700G
MIN: 228.73 / MAX: 236.43
232.28
5600G AMD
MIN: 236.8 / MAX: 239.2
237.93
AMD 5600G
MIN: 236.26 / MAX: 242.22
237.58
Ryzen 5 5600G
MIN: 237.04 / MAX: 238.92
238.05
50
100
150
200
250
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl
TNN 0.3
Target: CPU - Model: SqueezeNet v1.1
ms, Fewer Is Better
Ryzen 7 5700G
MIN: 216.45 / MAX: 217.9
216.98
AMD 5700G
MIN: 217.42 / MAX: 222.41
219.30
5600G AMD
MIN: 227.61 / MAX: 228.59
227.89
AMD 5600G
MIN: 227.53 / MAX: 228.36
227.91
Ryzen 5 5600G
MIN: 227.75 / MAX: 229.69
228.16
50
100
150
200
250
1. (CXX) g++ options: -fopenmp -pthread -fvisibility=hidden -fvisibility=default -O3 -rdynamic -ldl

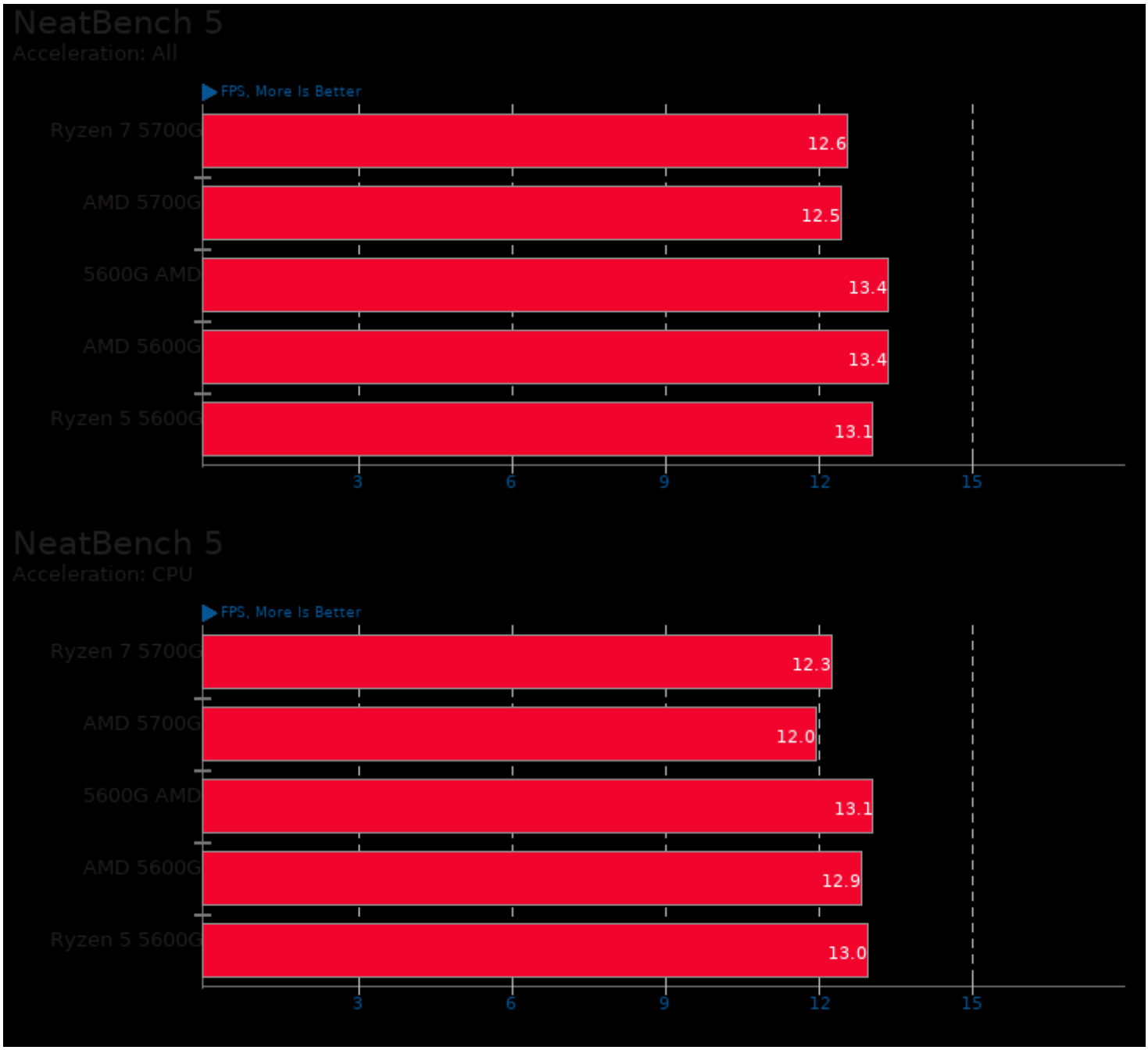

ctx_clock
Context Switch Time
Clocks, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
152
152
195
156
195
40
80
120
160
200
Blender 2.92
Blend File: BMW27 - Compute: CPU-Only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
146.41
145.67
189.15
188.68
188.81
40
80
120
160
200

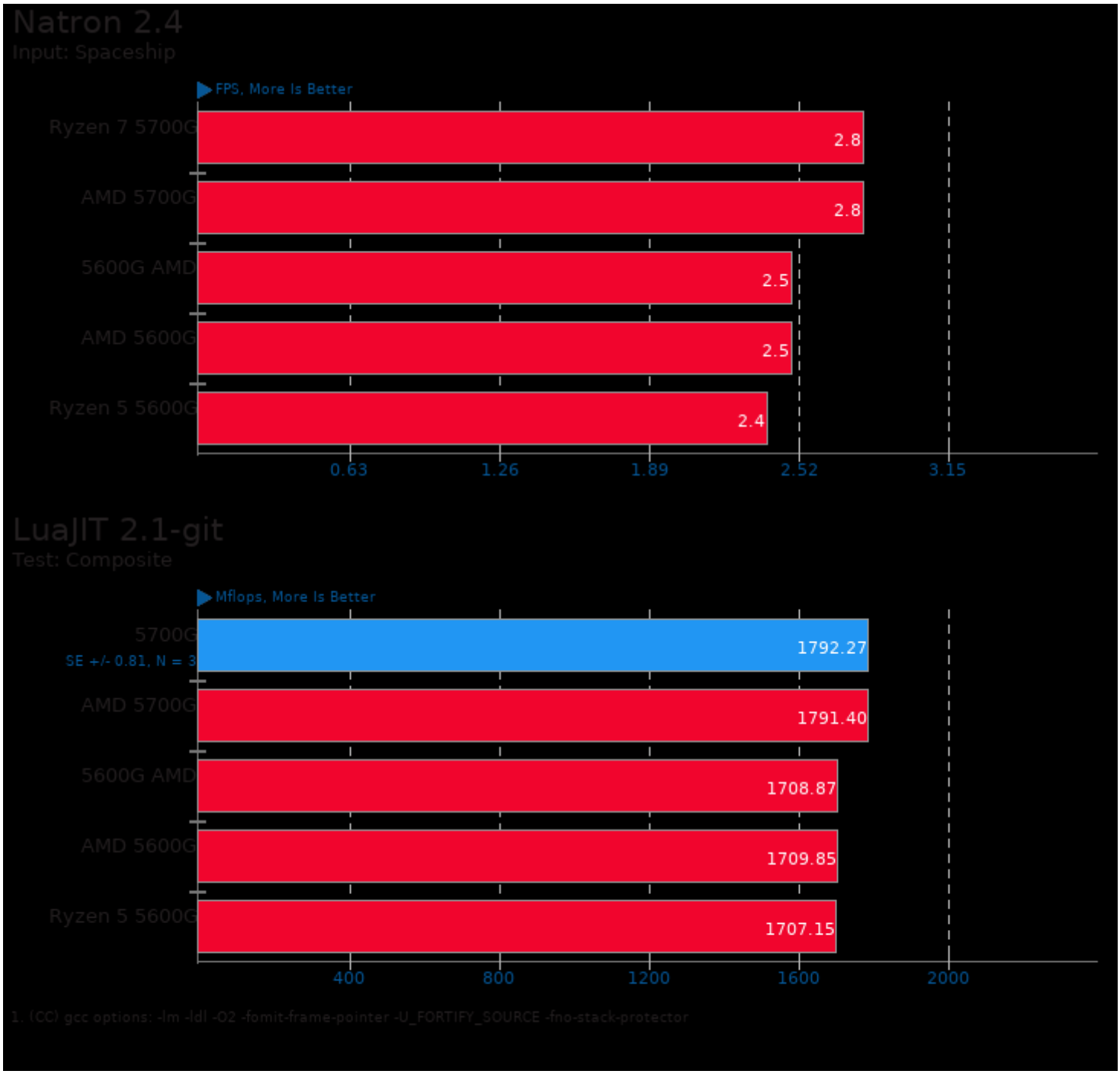

Blender 2.92
Blend File: Classroom - Compute: CPU-Only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
429.96
427.78
558.82
557.79
555.17
120
240
360
480
600
Blender 2.92
Blend File: Fishy Cat - Compute: CPU-Only
Seconds, Fewer Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
195.59
194.50
251.24
250.96
250.37
50
100
150
200
250

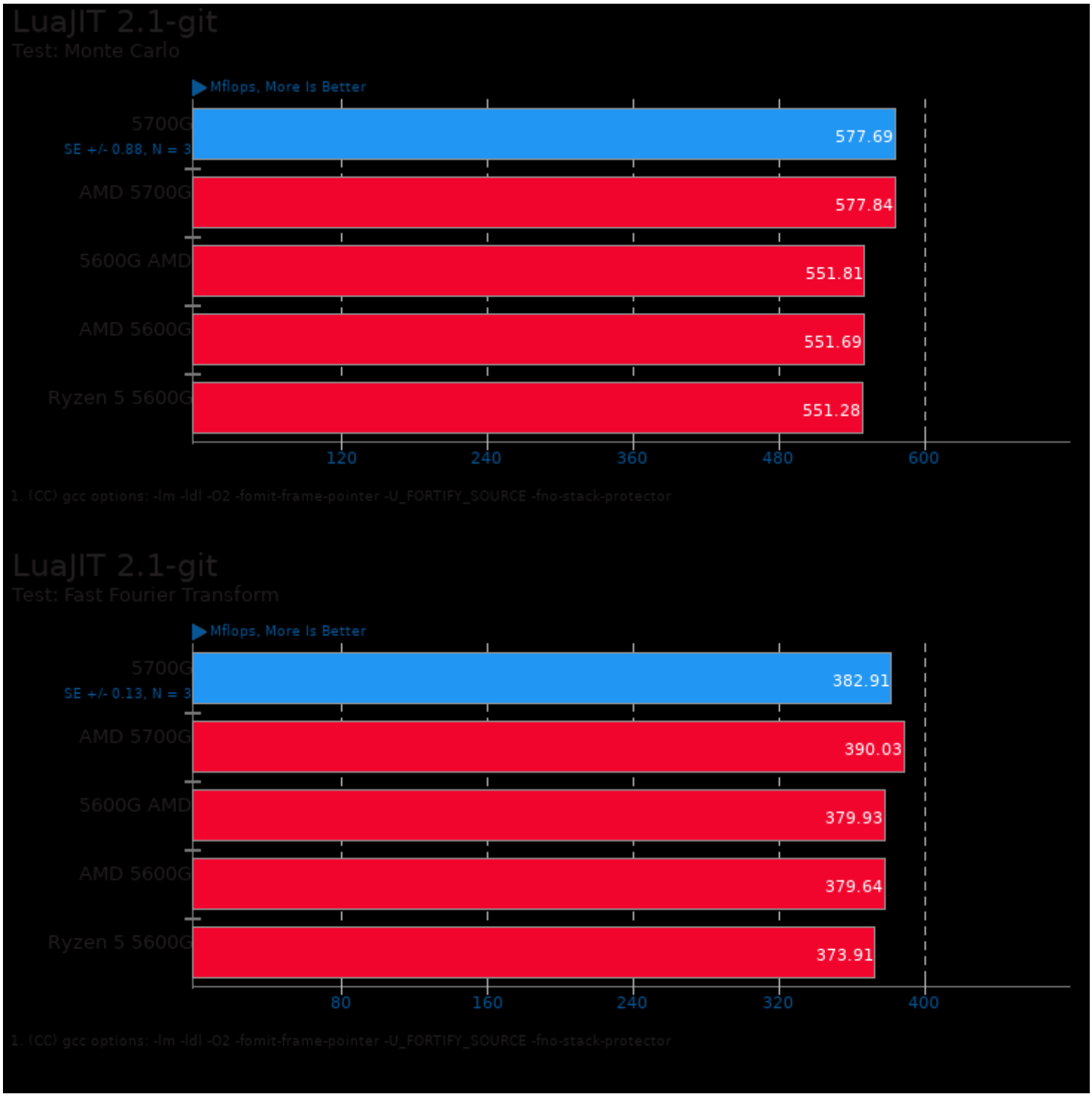

Blender 2.92
Blend File: Barbershop - Compute: CPU-Only
Seconds, Fewer Is Better
Ryzen 7 5700G
573.49
AMD 5700G
572.02
5600G AMD
746.66
AMD 5600G
746.18
Ryzen 5 5600G
745.65
160
320
480
640
800

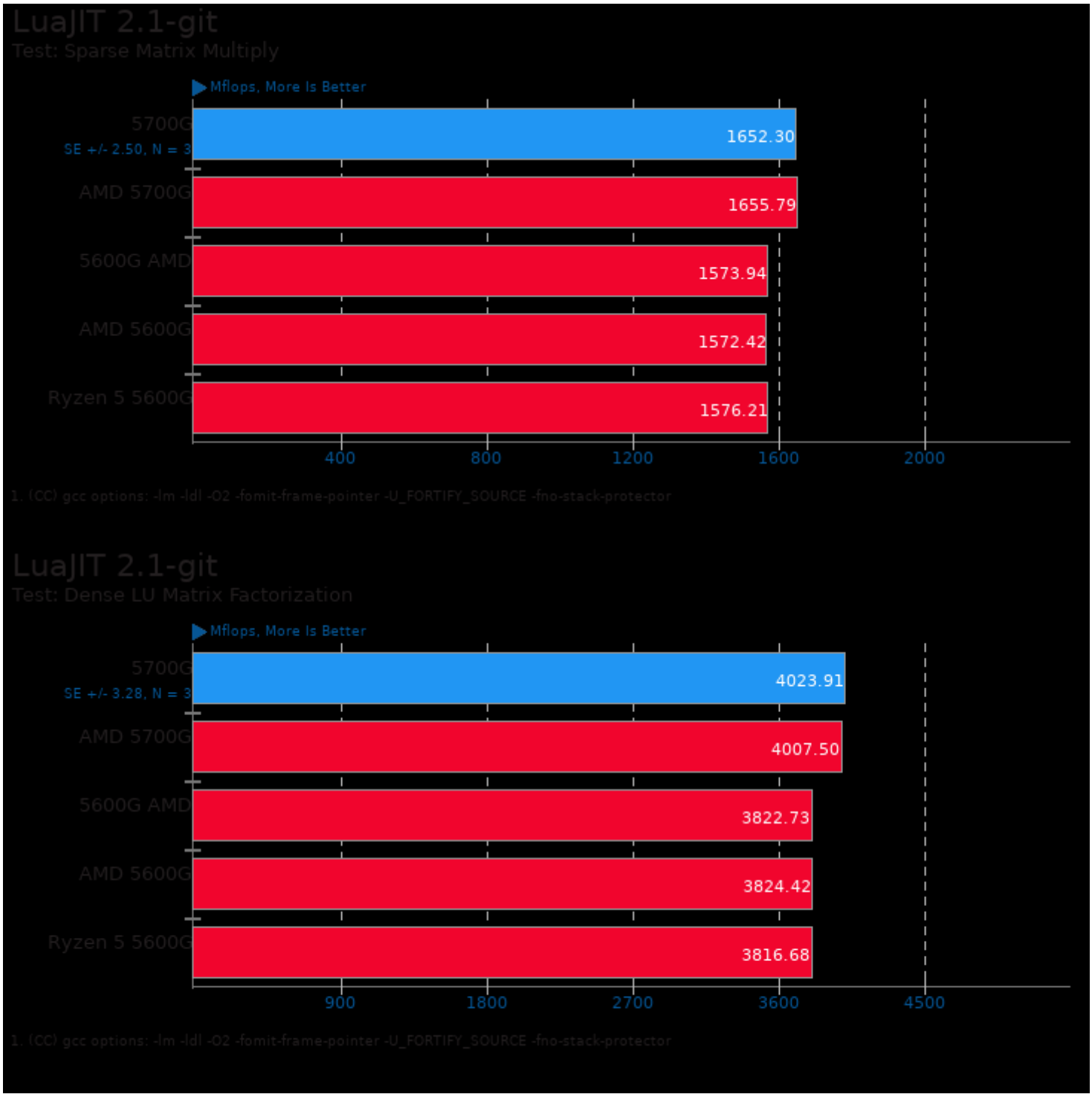

Blender 2.92
Blend File: Pabellon Barcelona - Compute: CPU-Only
Seconds, Fewer Is Better
Ryzen 7 5700G
475.45
AMD 5700G
472.20
5600G AMD
616.27
AMD 5600G
614.54
Ryzen 5 5600G
616.34
130
260
390
520
650

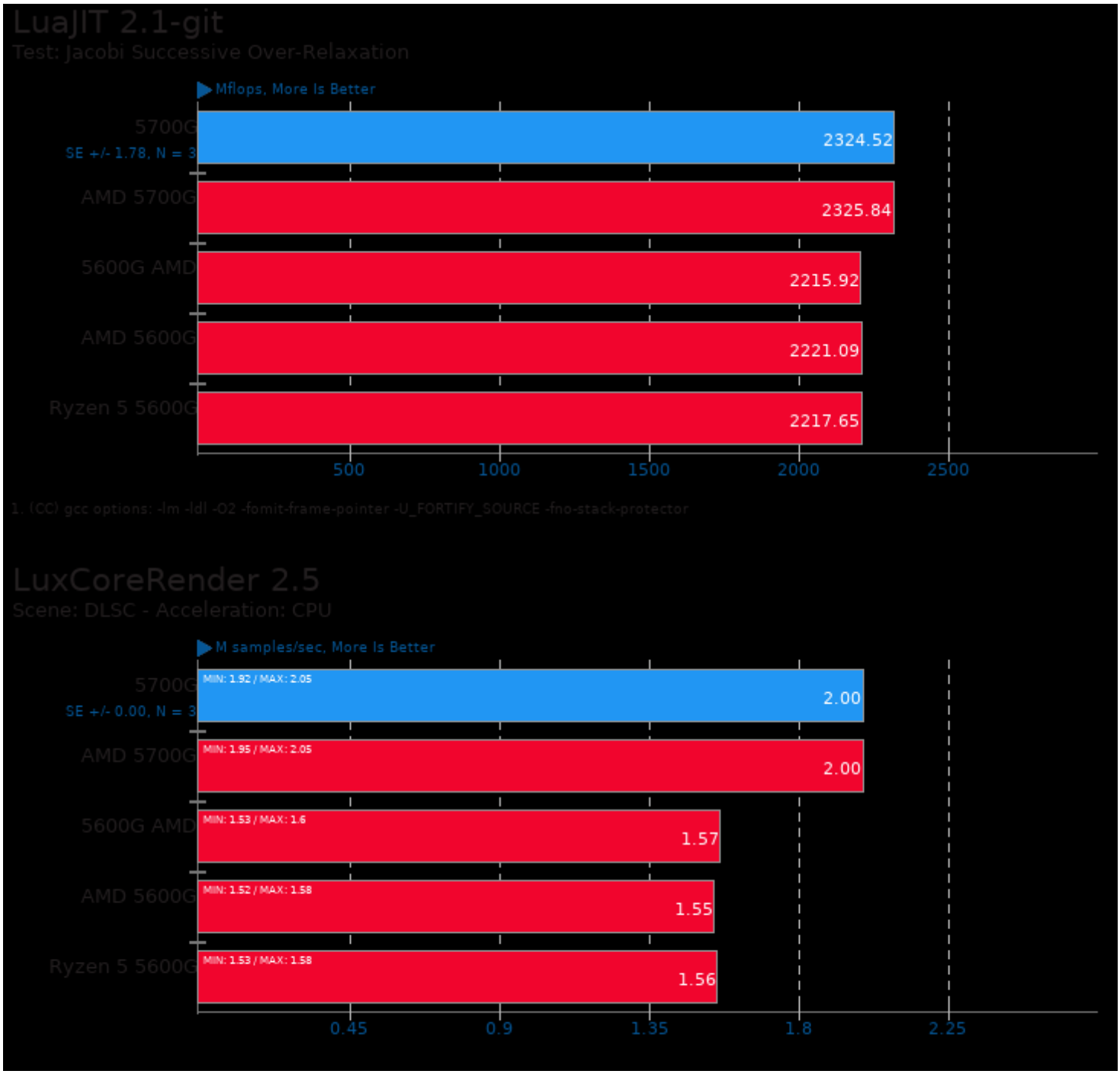

ONNX Runtime 1.8.2
Model: fcn-resnet101-11 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
76
76
66
67
66
20
40
60
80
100
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt
ONNX Runtime 1.8.2
Model: super-resolution-10 - Device: OpenMP CPU
Inferences Per Minute, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
5535
5509
4992
4990
4974
1200
2400
3600
4800
6000
1. (CXX) g++ options: -fopenmp -ffunction-sections -fdata-sections -O3 -ldl -lrt

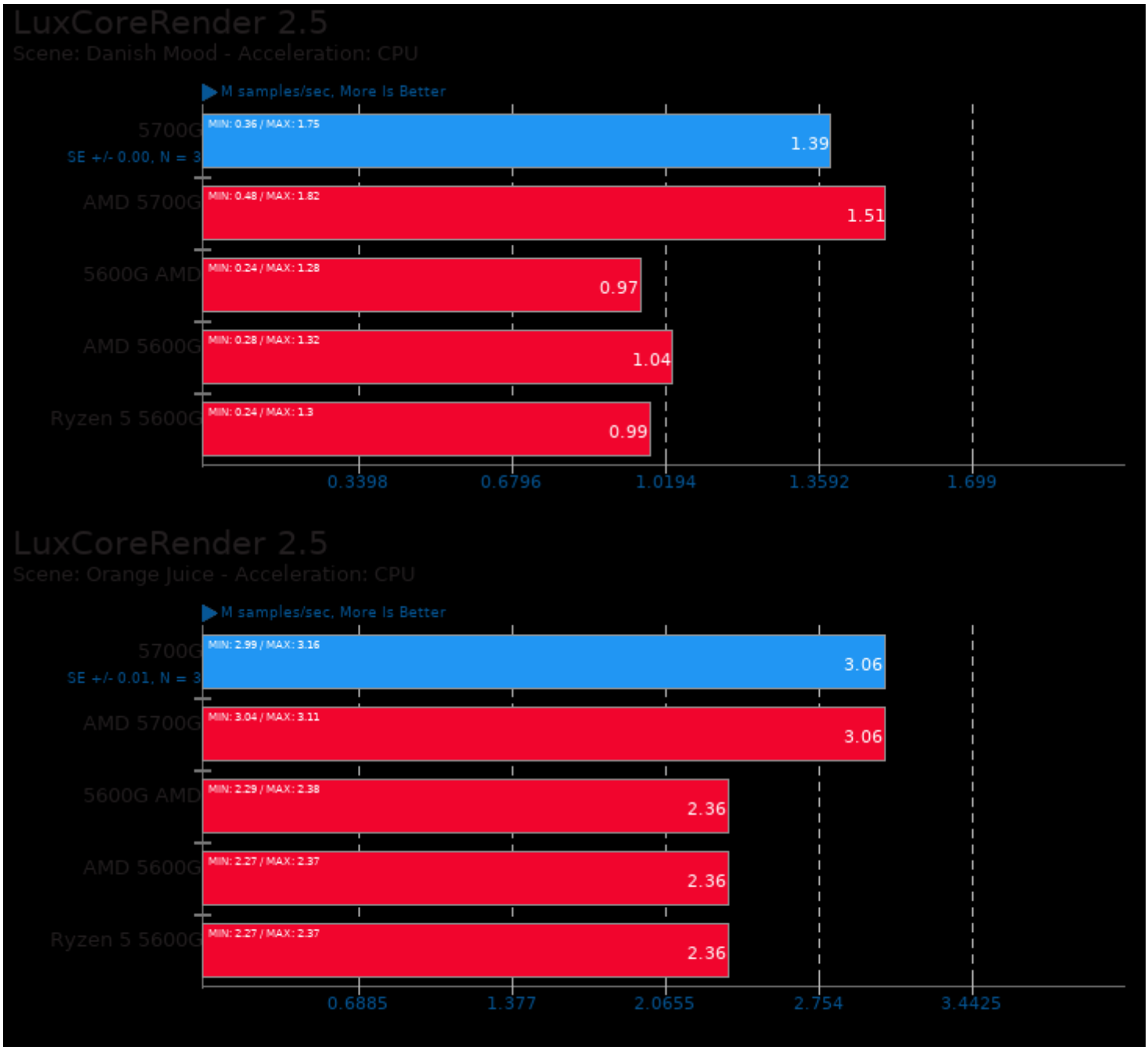

NeatBench 5
Acceleration: All
FPS, More Is Better
Ryzen 7 5700G
12.6
AMD 5700G
12.5
5600G AMD
13.4
AMD 5600G
13.4
Ryzen 5 5600G
13.1
3
6
9
12
15
NeatBench 5
Acceleration: CPU
FPS, More Is Better
Ryzen 7 5700G
12.3
AMD 5700G
12.0
5600G AMD
13.1
AMD 5600G
12.9
Ryzen 5 5600G
13.0
3
6
9
12
15

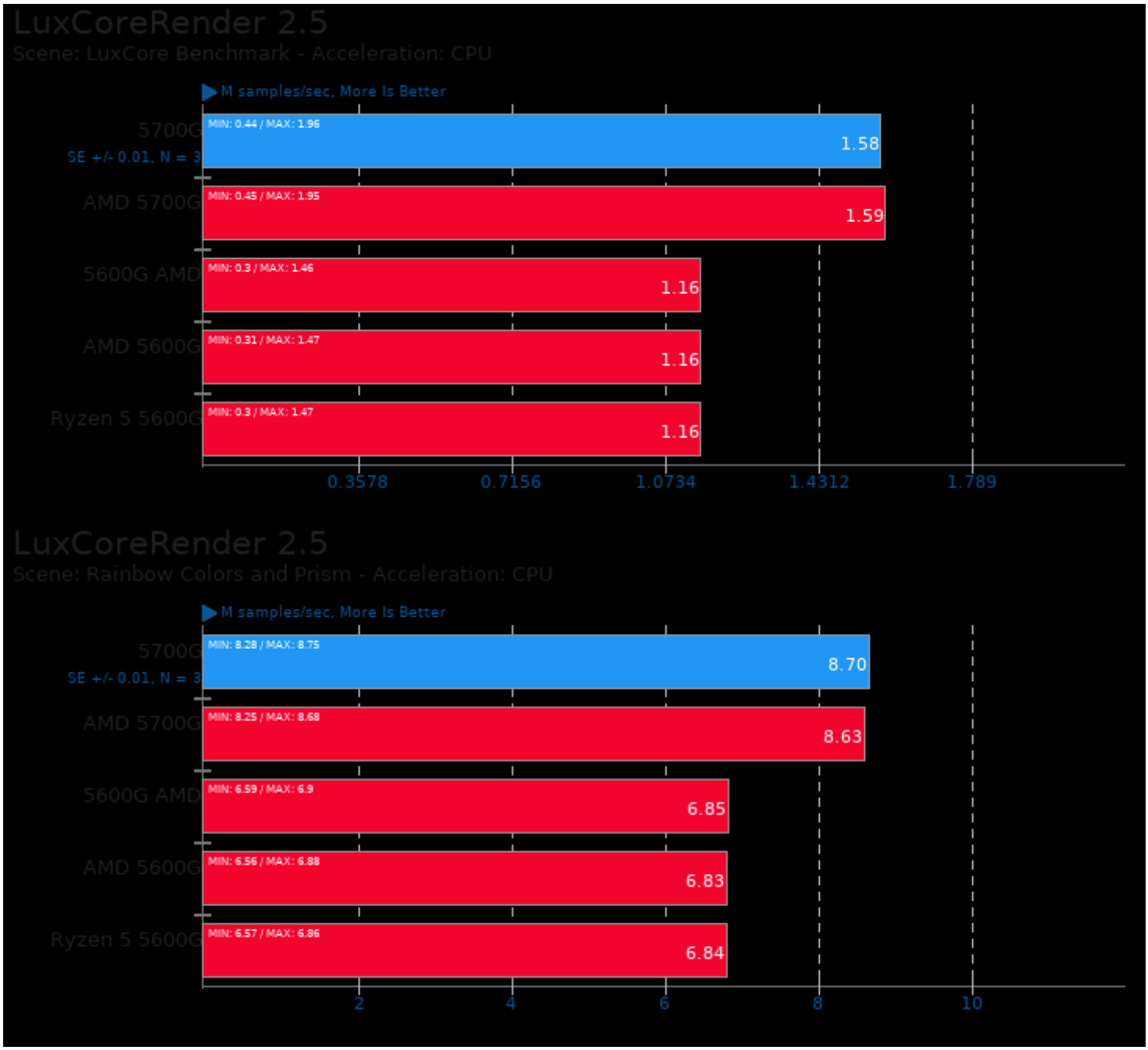

Natron 2.4
Input: Spaceship
FPS, More Is Better
Ryzen 7 5700G
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
2.8
2.8
2.5
2.5
2.4
0.63
1.26
1.89
2.52
3.15
LuaJIT 2.1-git
Test: Composite
Mflops, More Is Better
5700G
SE +/- 0.81, N = 3
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
1792.27
1791.40
1708.87
1709.85
1707.15
400
800
1200
1600
2000
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector


LuaJIT 2.1-git
Test: Monte Carlo
Mflops, More Is Better
5700G
SE +/- 0.88, N = 3
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
577.69
577.84
551.81
551.69
551.28
120
240
360
480
600
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector
LuaJIT 2.1-git
Test: Fast Fourier Transform
Mflops, More Is Better
5700G
SE +/- 0.13, N = 3
AMD 5700G
5600G AMD
AMD 5600G
Ryzen 5 5600G
382.91
390.03
379.93
379.64
373.91
80
160
240
320
400
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector


LuaJIT 2.1-git
Test: Sparse Matrix Multiply
Mflops, More Is Better
5700G
SE +/- 2.50, N = 3
1652.30
AMD 5700G
1655.79
5600G AMD
1573.94
AMD 5600G
1572.42
Ryzen 5 5600G
1576.21
400
800
1200
1600
2000
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector
LuaJIT 2.1-git
Test: Dense LU Matrix Factorization
Mflops, More Is Better
5700G
SE +/- 3.28, N = 3
4023.91
AMD 5700G
4007.50
5600G AMD
3822.73
AMD 5600G
3824.42
Ryzen 5 5600G
3816.68
900
1800
2700
3600
4500
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

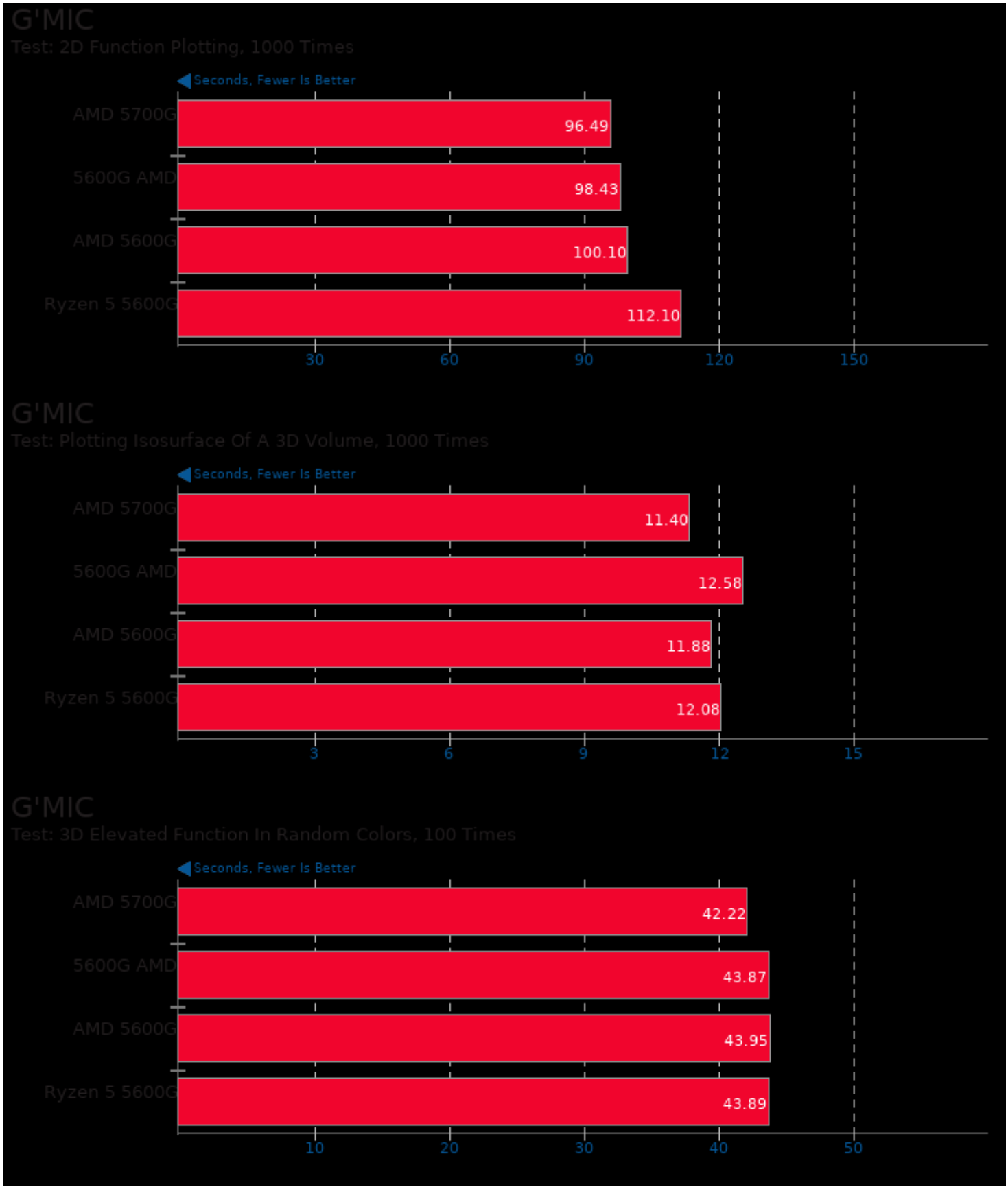

LuaJIT 2.1-git
Test: Jacobi Successive Over-Relaxation
Mflops, More Is Better
5700G
SE +/- 1.78, N = 3
2324.52
AMD 5700G
2325.84
5600G AMD
2215.92
AMD 5600G
2221.09
Ryzen 5 5600G
2217.65
500
1000
1500
2000
2500
1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector
LuxCoreRender 2.5
Scene: DLSC - Acceleration: CPU
M samples/sec, More Is Better
5700G
SE +/- 0.00, N = 3
MIN: 1.92 / MAX: 2.05
2.00
AMD 5700G
MIN: 1.95 / MAX: 2.05
2.00
5600G AMD
MIN: 1.53 / MAX: 1.6
1.57
AMD 5600G
MIN: 1.52 / MAX: 1.58
1.55
Ryzen 5 5600G
MIN: 1.53 / MAX: 1.58
1.56
0.45
0.9
1.35
1.8
2.25


LuxCoreRender 2.5
Scene: Danish Mood - Acceleration: CPU
M samples/sec, More Is Better
5700G
SE +/- 0.00, N = 3
MIN: 0.36 / MAX: 1.75
1.39
AMD 5700G
MIN: 0.48 / MAX: 1.82
1.51
5600G AMD
MIN: 0.24 / MAX: 1.28
0.97
AMD 5600G
MIN: 0.28 / MAX: 1.32
1.04
Ryzen 5 5600G
MIN: 0.24 / MAX: 1.3
0.99
0.3398
0.6796
1.0194
1.3592
1.699
LuxCoreRender 2.5
Scene: Orange Juice - Acceleration: CPU
M samples/sec, More Is Better
5700G
SE +/- 0.01, N = 3
MIN: 2.99 / MAX: 3.16
3.06
AMD 5700G
MIN: 3.04 / MAX: 3.11
3.06
5600G AMD
MIN: 2.29 / MAX: 2.38
2.36
AMD 5600G
MIN: 2.27 / MAX: 2.37
2.36
Ryzen 5 5600G
MIN: 2.27 / MAX: 2.37
2.36
0.6885
1.377
2.0655
2.754
3.4425

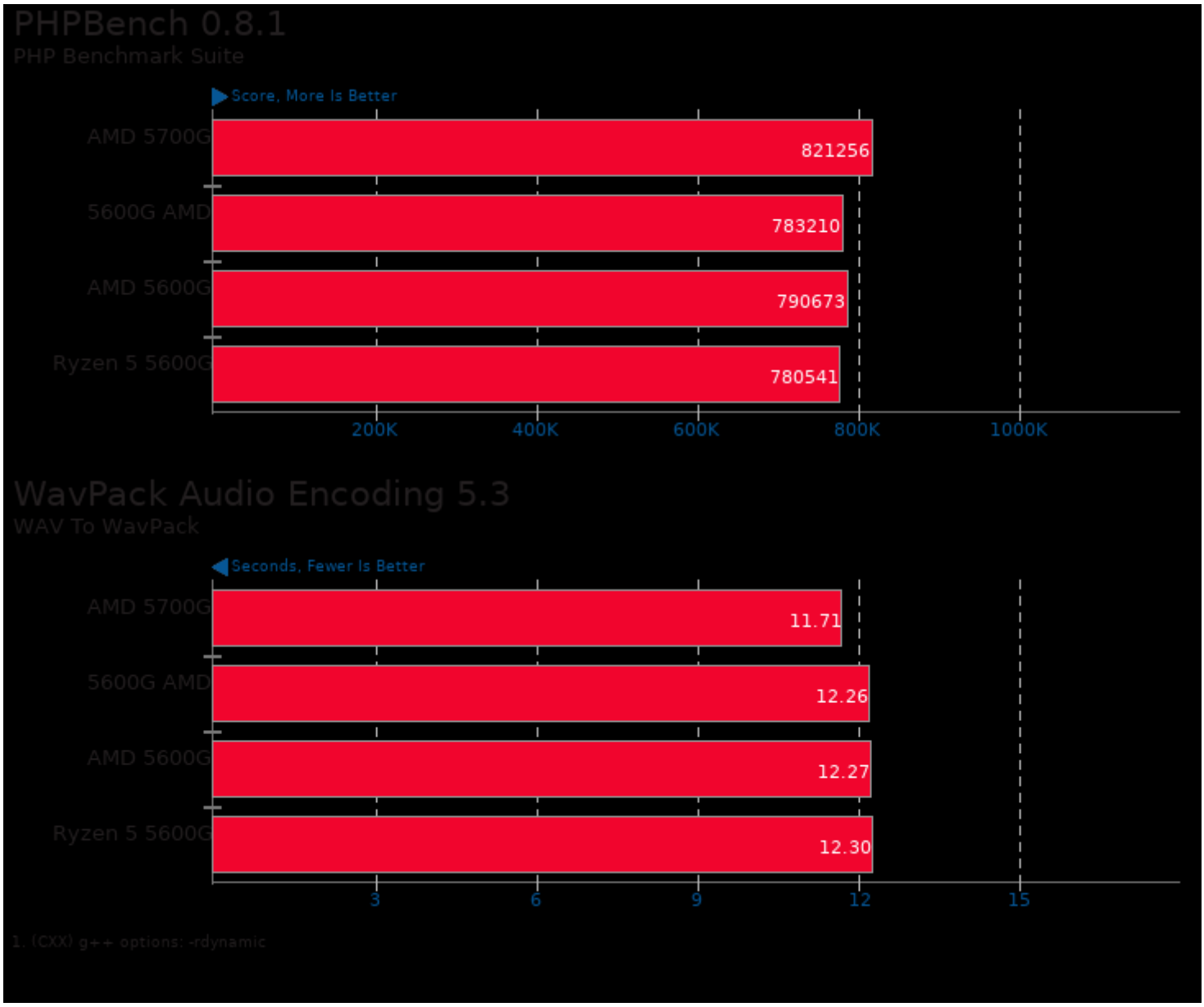

LuxCoreRender 2.5
Scene: LuxCore Benchmark - Acceleration: CPU
M samples/sec, More Is Better
5700G
SE +/- 0.01, N = 3
MIN: 0.44 / MAX: 1.96
1.58
AMD 5700G
MIN: 0.45 / MAX: 1.95
1.59
5600G AMD
MIN: 0.3 / MAX: 1.46
1.16
AMD 5600G
MIN: 0.31 / MAX: 1.47
1.16
Ryzen 5 5600G
MIN: 0.3 / MAX: 1.47
1.16
0.3578
0.7156
1.0734
1.4312
1.789
LuxCoreRender 2.5
Scene: Rainbow Colors and Prism - Acceleration: CPU
M samples/sec, More Is Better
5700G
SE +/- 0.01, N = 3
MIN: 8.28 / MAX: 8.75
8.70
AMD 5700G
MIN: 8.25 / MAX: 8.68
8.63
5600G AMD
MIN: 6.59 / MAX: 6.9
6.85
AMD 5600G
MIN: 6.56 / MAX: 6.88
6.83
Ryzen 5 5600G
MIN: 6.57 / MAX: 6.86
6.84
2
4
6
8
10


Timed Eigen Compilation 3.3.9
Time To Compile
Seconds, Fewer Is Better
5700G
SE +/- 0.63, N = 3
63.33
AMD 5700G
62.14
5600G AMD
64.75
AMD 5600G
64.93
Ryzen 5 5600G
65.47
15
30
45
60
75
KTX-Software toktx 4.0
Settings: UASTC 3
Seconds, Fewer Is Better
AMD 5700G
10.42
5600G AMD
13.07
AMD 5600G
13.07
Ryzen 5 5600G
13.07
3
6
9
12
15
KTX-Software toktx 4.0
Settings: Zstd Compression 9
Seconds, Fewer Is Better
AMD 5700G
3.034
5600G AMD
3.294
AMD 5600G
3.341
Ryzen 5 5600G
3.392
0.7632
1.5264
2.2896
3.0528
3.816


KTX-Software toktx 4.0
Settings: Zstd Compression 19
Seconds, Fewer Is Better
AMD 5700G
22.87
5600G AMD
24.20
AMD 5600G
23.58
Ryzen 5 5600G
23.92
6
12
18
24
30
KTX-Software toktx 4.0
Settings: UASTC 3 + Zstd Compression 19
Seconds, Fewer Is Better
AMD 5700G
17.12
5600G AMD
19.86
AMD 5600G
19.97
Ryzen 5 5600G
20.12
5
10
15
20
25
KTX-Software toktx 4.0
Settings: UASTC 4 + Zstd Compression 19
Seconds, Fewer Is Better
AMD 5700G
290.82
5600G AMD
377.82
AMD 5600G
377.51
Ryzen 5 5600G
377.35
80
160
240
320
400

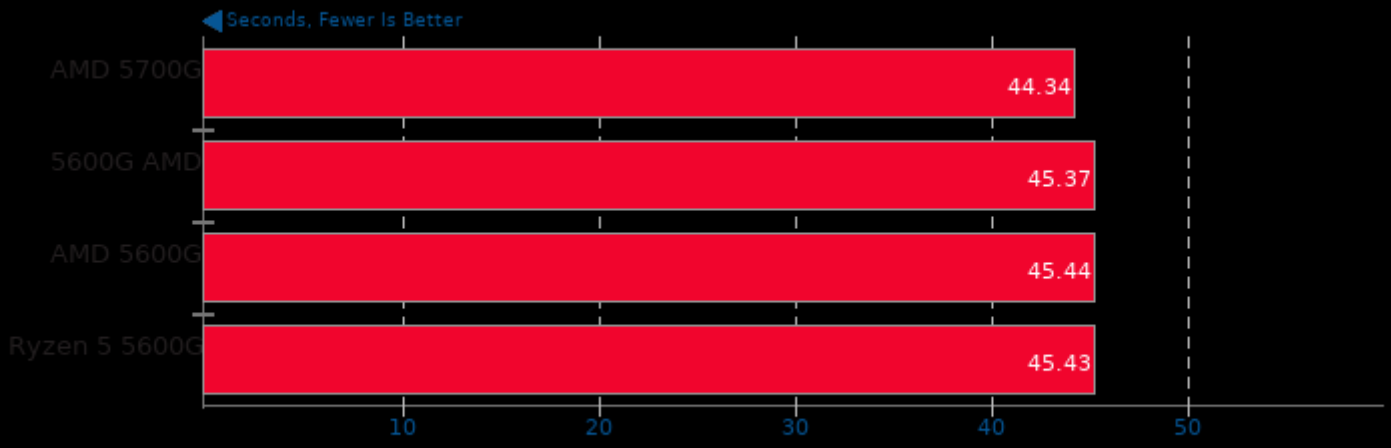

G'MIC
Test: 2D Function Plotting, 1000 Times
Seconds, Fewer Is Better
AMD 5700G
96.49
5600G AMD
98.43
AMD 5600G
100.10
Ryzen 5 5600G
112.10
30
60
90
120
150
G'MIC
Test: Plotting Isosurface Of A 3D Volume, 1000 Times
Seconds, Fewer Is Better
AMD 5700G
11.40
5600G AMD
12.58
AMD 5600G
11.88
Ryzen 5 5600G
12.08
3
6
9
12
15
G'MIC
Test: 3D Elevated Function In Random Colors, 100 Times
Seconds, Fewer Is Better
AMD 5700G
42.22
5600G AMD
43.87
AMD 5600G
43.95
Ryzen 5 5600G
43.89
10
20
30
40
50


Appleseed 2.0 Beta
Scene: Emily
Seconds, Fewer Is Better
AMD 5700G
352.37
5600G AMD
445.38
AMD 5600G
445.64
Ryzen 5 5600G
446.50
100
200
300
400
500
Appleseed 2.0 Beta
Scene: Disney Material
Seconds, Fewer Is Better
AMD 5700G
218.55
5600G AMD
283.18
AMD 5600G
283.54
Ryzen 5 5600G
283.80
60
120
180
240
300
Appleseed 2.0 Beta
Scene: Material Tester
Seconds, Fewer Is Better
AMD 5700G
190.60
5600G AMD
245.95
AMD 5600G
246.85
Ryzen 5 5600G
244.61
50
100
150
200
250


PHPBench 0.8.1
PHP Benchmark Suite
Score, More Is Better
AMD 5700G
821256
5600G AMD
783210
AMD 5600G
790673
Ryzen 5 5600G
780541
200K
400K
600K
800K
1000K
WavPack Audio Encoding 5.3
WAV To WavPack
Seconds, Fewer Is Better
AMD 5700G
11.71
5600G AMD
12.26
AMD 5600G
12.27
Ryzen 5 5600G
12.30
3
6
9
12
15
1. (CXX) g++ options: -rdynamic

Git

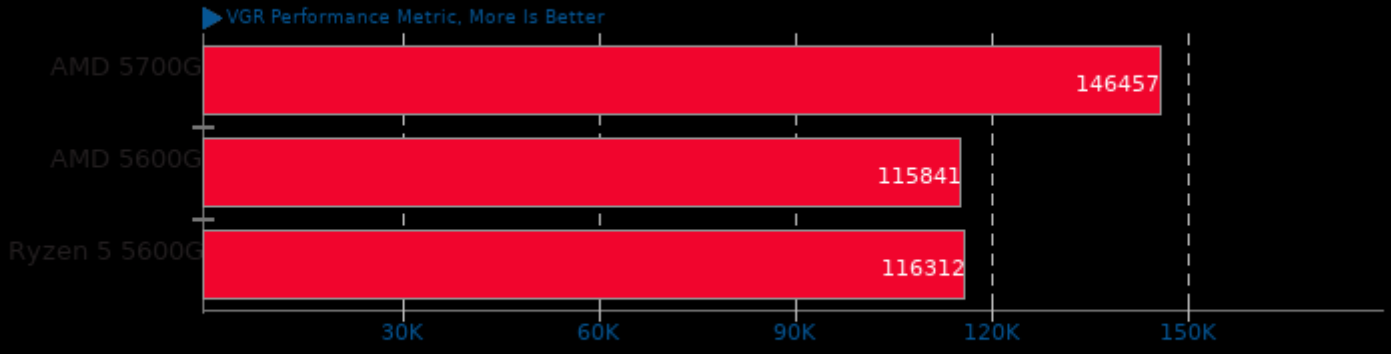
Time To Complete Common Git Commands



1. git version 2.30.2

BRL-CAD 7.32.2

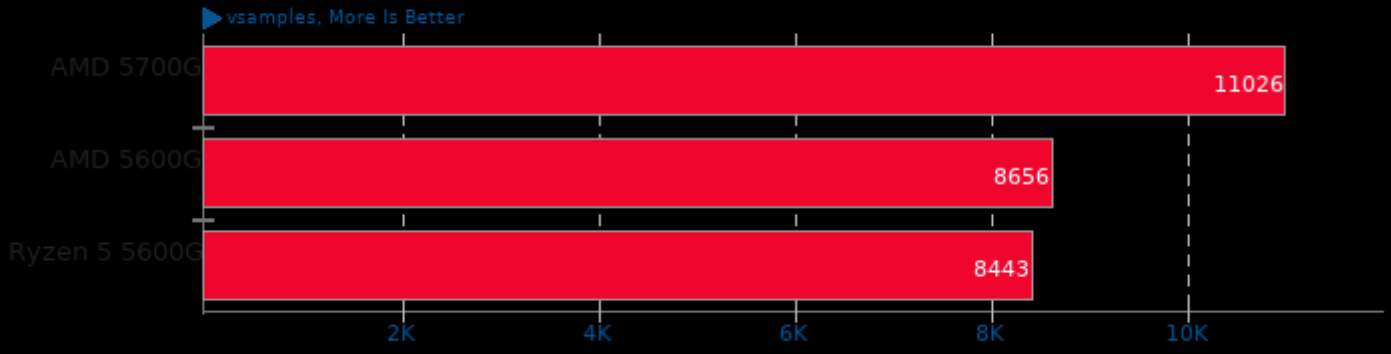
VGR Performance Metric

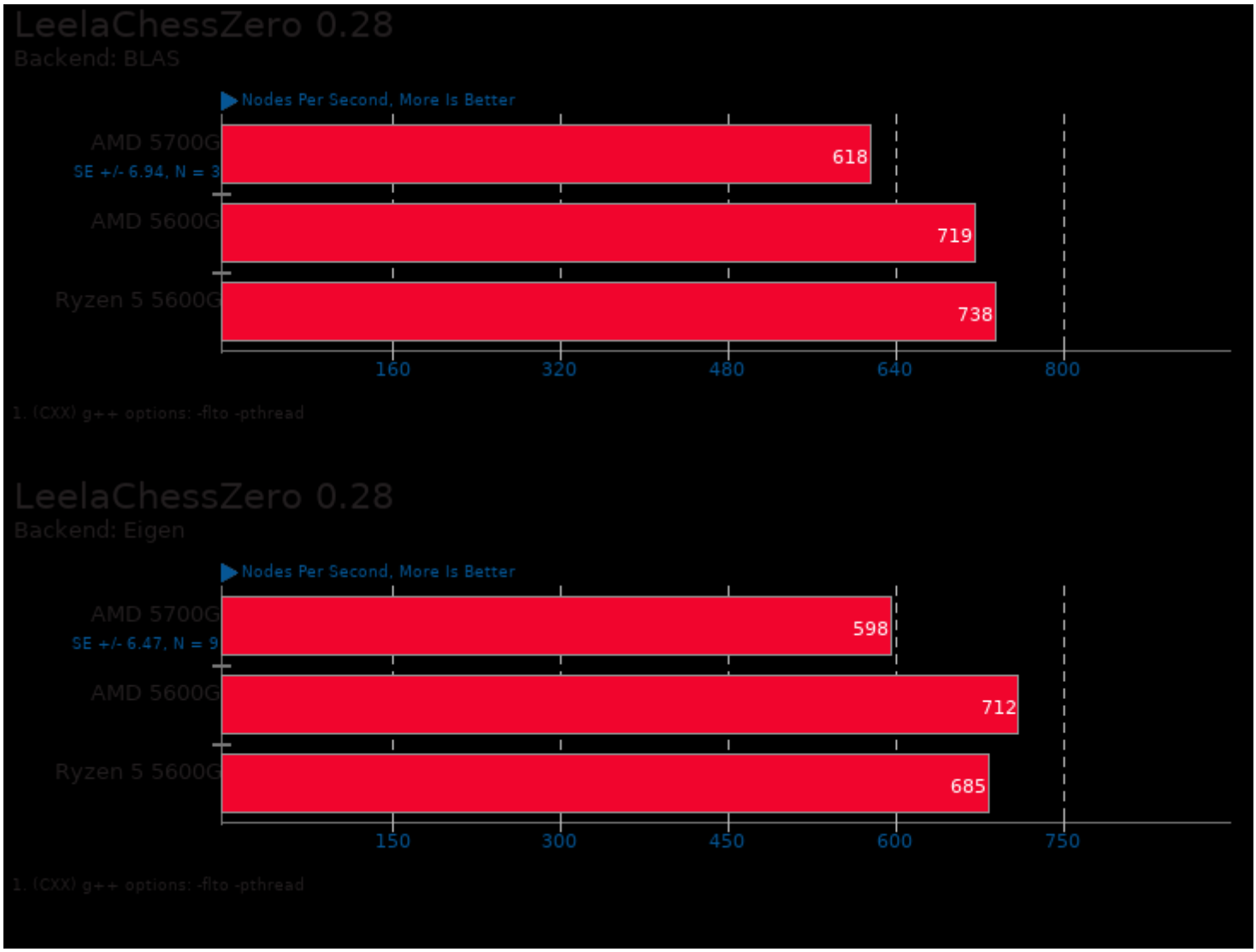


1. (CXX) g++ options: -std=c++11 -pipe -fvisibility=hidden -fno-strict-aliasing -fno-common -fexceptions -ftemplate-depth-128 -m64 -ggdb3 -O3 -fipa-pt

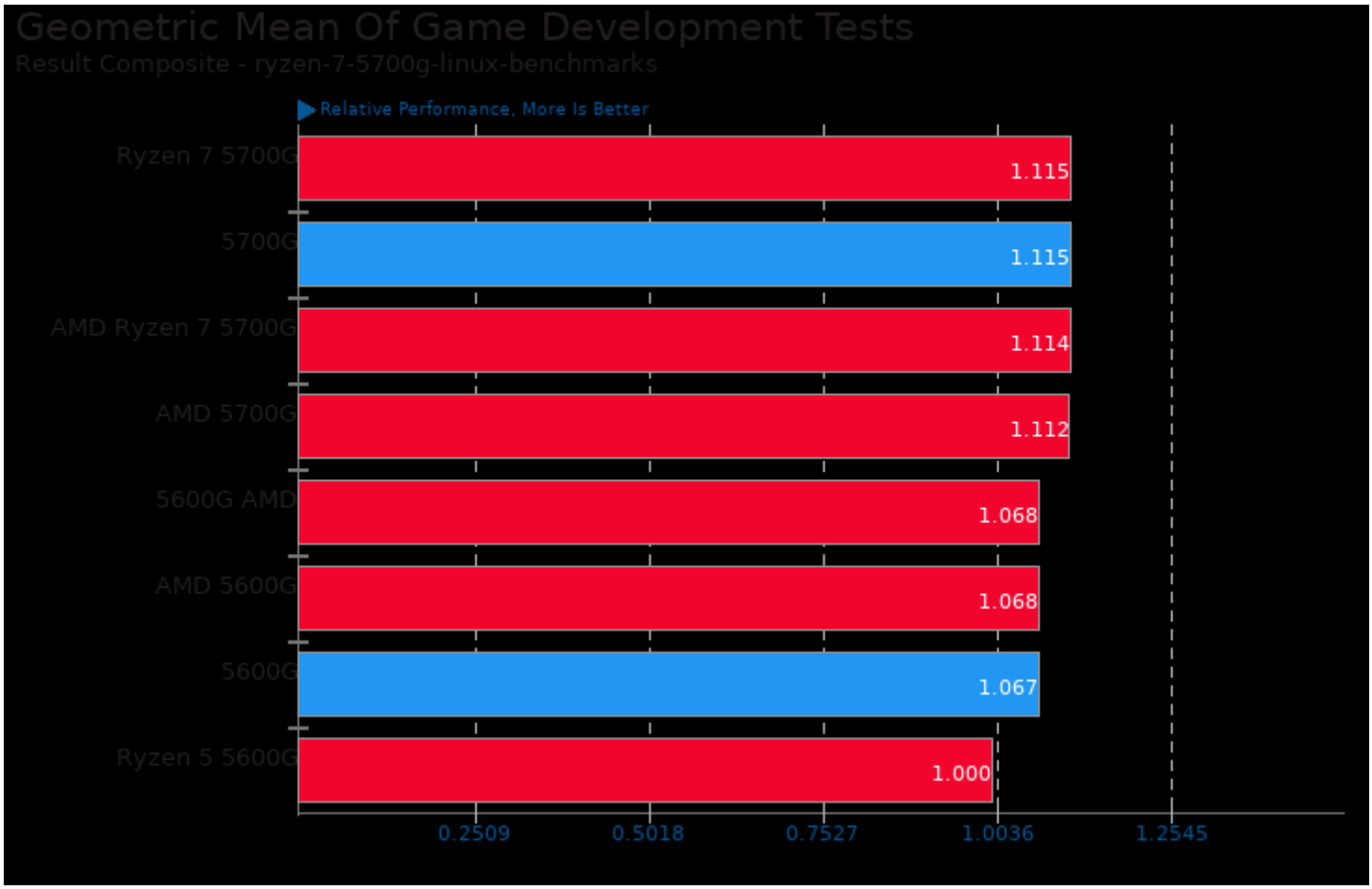
Chaos Group V-RAY 5

Mode: CPU

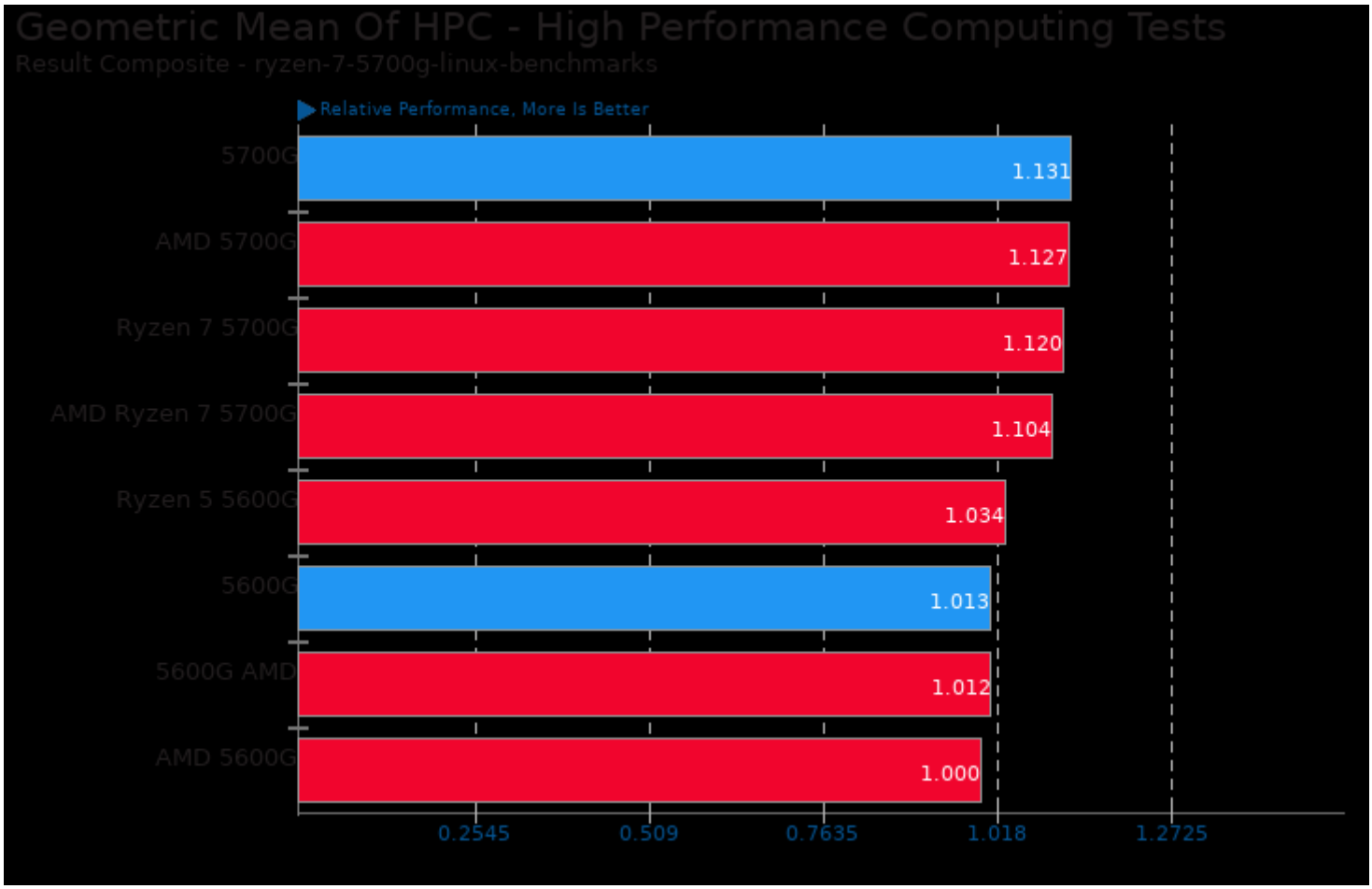



LeelaChessZero 0.28
Backend: BLAS
Nodes Per Second, More Is Better
AMD 5700G
SE +/- 6.94, N = 3
618
AMD 5600G
719
Ryzen 5 5600G
738
160
320
480
640
800
1. (CXX) g++ options: -flto -pthread
LeelaChessZero 0.28
Backend: Eigen
Nodes Per Second, More Is Better
AMD 5700G
SE +/- 6.47, N = 9
598
AMD 5600G
712
Ryzen 5 5600G
685
150
300
450
600
750
1. (CXX) g++ options: -flto -pthread

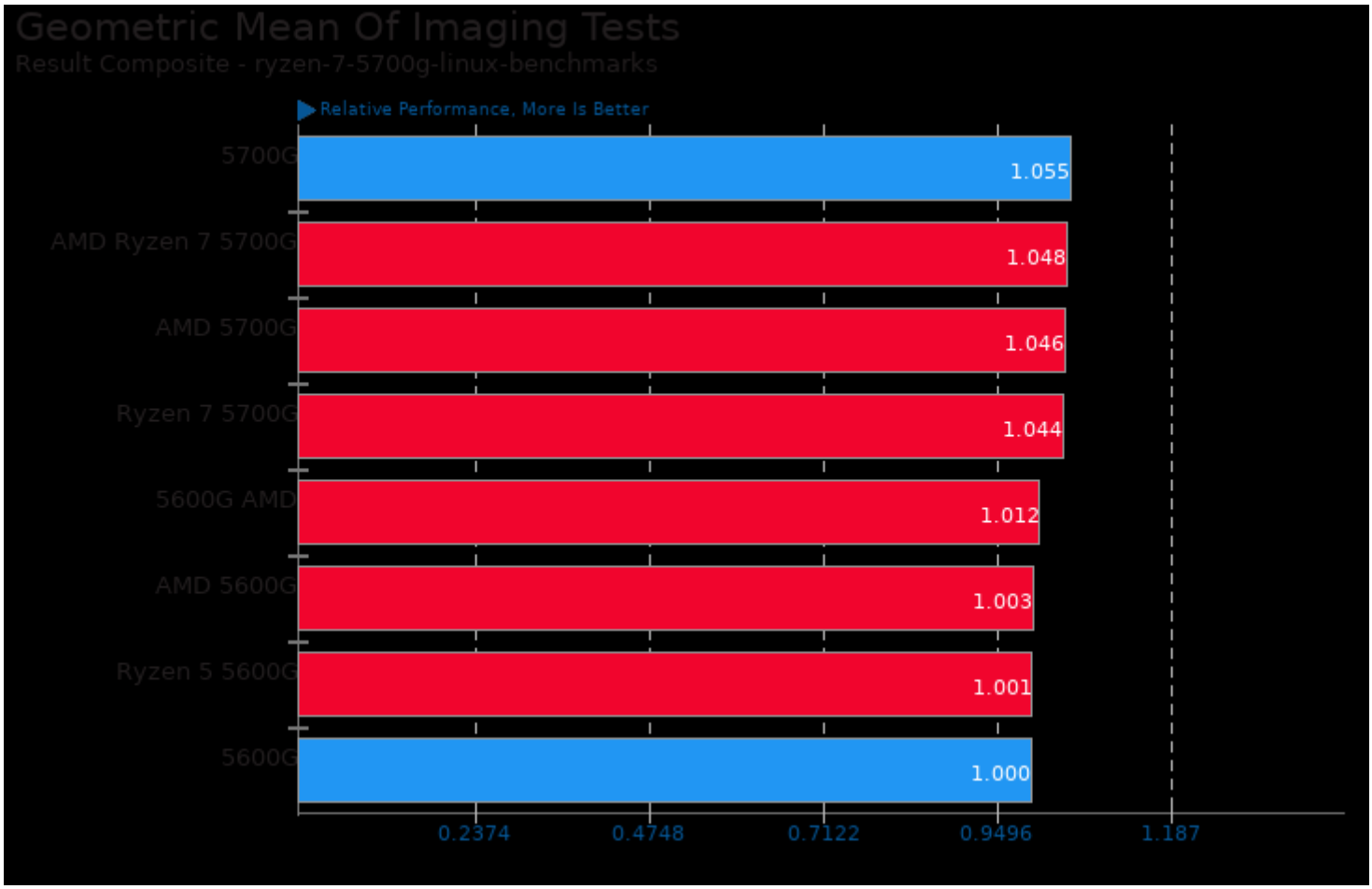
These geometric means are based upon test groupings / test suites for this result file.



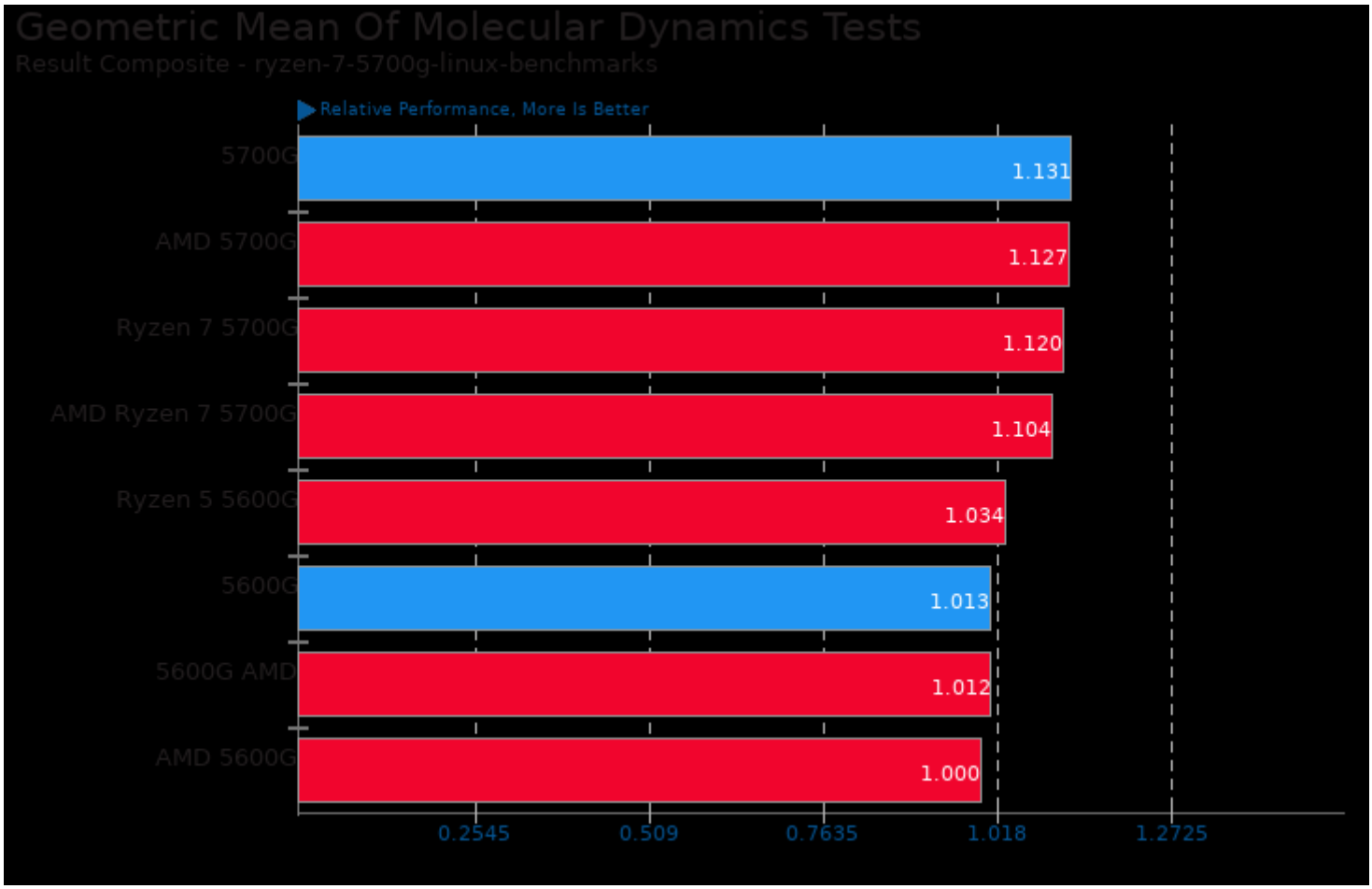
Geometric mean based upon tests: pts/basis, pts/astcenc, pts/etcpak, pts/toktx, pts/draco, pts/build-godot, pts/luajit, pts/blender, pts/oidn and pts/openvkl



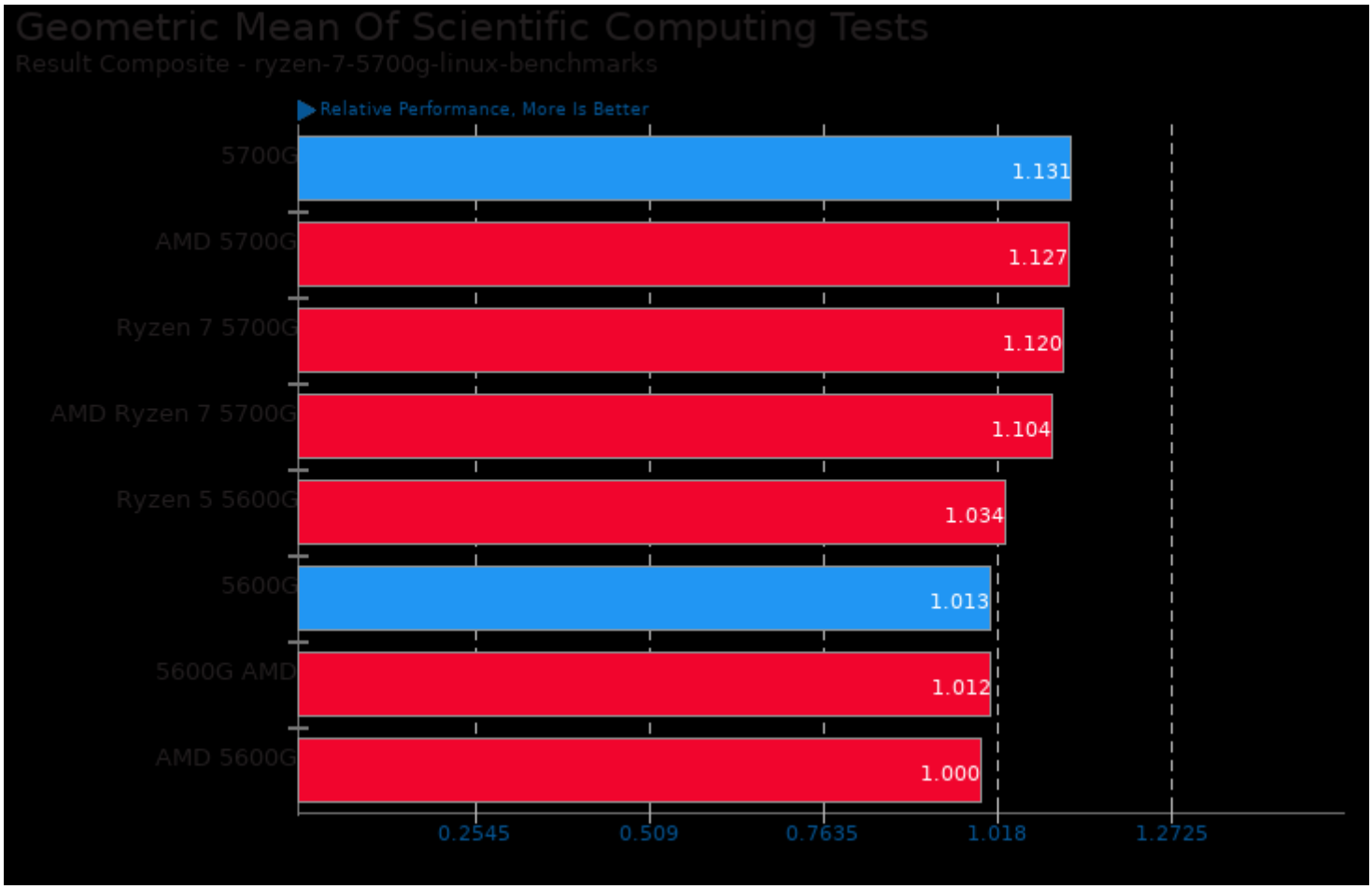
Geometric mean based upon tests: system/octave-benchmark, pts/namd, pts/gromacs, pts/incompact3d, pts/tnn, pts/deepspeech, pts/rnnoise, pts/onednn, pts/onnx and pts/lczero



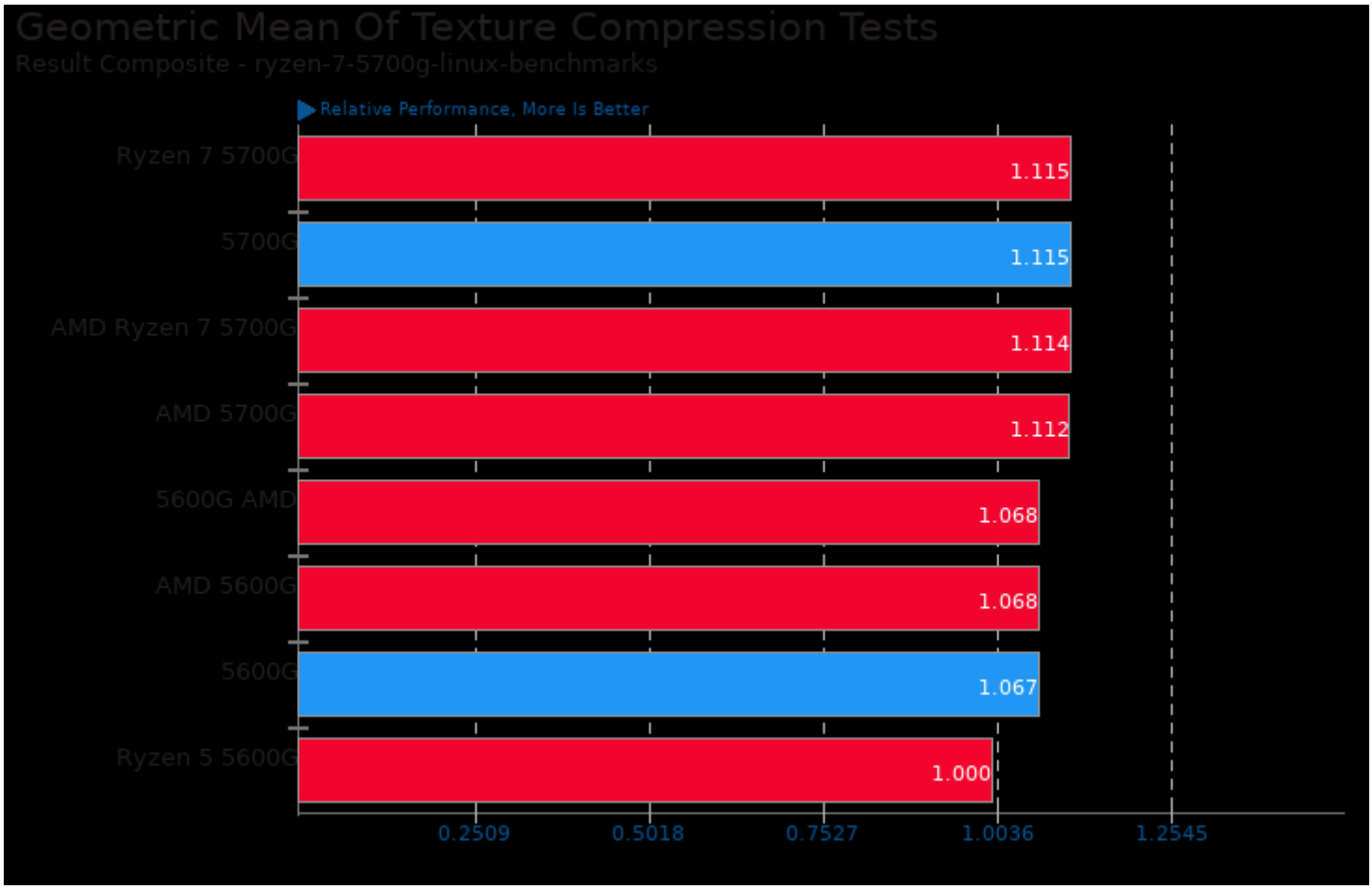
Geometric mean based upon tests: pts/graphics-magick, system/gmic, pts/libraw, pts/webp, system/rawtherapee, pts/tjbench, system/gimp, pts/dcraw, system/hugin, system/darktable, system/gegl and pts/avifenc



Geometric mean based upon tests: pts/namd, pts/gromacs and pts/incompact3d



Geometric mean based upon tests: system/octave-benchmark, pts/namd, pts/gromacs and pts/incompact3d



Geometric mean based upon tests: pts/basis, pts/astcenc, pts/etcpak, pts/toktx and pts/draco

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:24.