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BENCHMARK COMPARISON ON UP XTREME i11

Comparison among different units of the UP Xtreme i11 system

Automated Executive Summary

Intel Core i7 1185GRE had the most wins, coming in first place for 77% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel Core i7 1185GRE) was 2.145x the speed of the slowest (Intel Celeron 6305E). Intel Core i5 1145GRE was 0.885x the speed of Intel Core i7 1185GRE, Intel Core i3 1115GRE was 0.802x the speed of Intel Core i5 1145GRE, Intel Celeron 6305E was 0.656x the speed of Intel Core i3 1115GRE.

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

Rust Prime Benchmark (Prime Number Test To 200,000,000) at 4.963x
Smallpt (Global Illumination Renderer; 128 Samples) at 4.928x
OpenVINO (Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU) at 4.586x
GraphicsMagick (Operation: Swirl) at 4.548x
OpenVINO (Model: Age Gender Recognition Retail 0013 FP32 - Device: CPU) at 4.47x
GraphicsMagick (Operation: Noise-Gaussian) at 4.304x
C-Ray (Total Time - 4K, 16 Rays Per Pixel) at 4.209x
OpenSSL (Algorithm: SHA256) at 4.065x

GraphicsMagick (Operation: Enhanced) at 3.895x
OpenVINO (Model: Face Detection 0106 FP16 - Device: CPU) at 3.875x.

Test Systems:

Intel Celeron 6305E

Processor: Intel Celeron 6305E @ 1.80GHz (2 Cores), Motherboard: AAEON UPX-TGL01 (UXTGBM14 BIOS), Chipset: Intel Device a0ef, Memory: 16GB, Disk: 256GB QST8-256, Graphics: Intel UHD TGL GT2 3GB (1250MHz), Audio: Realtek ALC888-VD, Monitor: 22EA53, Network: Intel + Intel Device 15fd

OS: Ubuntu 20.04, Kernel: 5.13.0-28-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.0.3, Vulkan: 1.2.145, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-yTrUTS/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x9a - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1.20.04)
Python Notes: Python 3.8.10
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel Core i3 1115GRE

Processor: Intel Core i3-1115GRE @ 3.90GHz (2 Cores / 4 Threads), Motherboard: AAEON UPX-TGL01 (UXTGBM14 BIOS), Chipset: Intel Device a0ef, Memory: 16GB, Disk: 256GB QST8-256, Graphics: Intel UHD TGL GT2 3GB (1250MHz), Audio: Realtek ALC888-VD, Monitor: 22EA53, Network: Intel + Intel Device 0d9f

OS: Ubuntu 20.04, Kernel: 5.11.0-46-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.0.3, Vulkan: 1.2.145, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-yTrUTS/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x9a - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1.20.04)
Python Notes: Python 3.8.10
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel Core i5 1145GRE

Processor: Intel Core i5-1145GRE @ 4.10GHz (4 Cores / 8 Threads), Motherboard: AAEON UPX-TGL01 (UXTGBM13

BIOS), Chipset: Intel Device a0ef, Memory: 16GB, Disk: 256GB QST8-256, Graphics: Intel Xe TGL GT2 3GB (1300MHz), Audio: Realtek ALC888-VD, Monitor: 22EA53, Network: Intel + Intel Device 0d9f

OS: Ubuntu 20.04, Kernel: 5.11.0-43-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.0.3, Vulkan: 1.2.145, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-yTrUTS/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x8a - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1.20.04)
Python Notes: Python 3.8.10
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

Intel Core i7 1185GRE

Processor: Intel Core i7-1185GRE @ 4.40GHz (4 Cores / 8 Threads), Motherboard: AAEON UPX-TGL01 (UXTGBM13 BIOS), Chipset: Intel Device a0ef, Memory: 16GB, Disk: 256GB QST8-256, Graphics: Intel Xe TGL GT2 3GB (1350MHz), Audio: Realtek ALC888-VD, Monitor: 22EA53, Network: Intel + Intel Device 0d9f

OS: Ubuntu 20.04, Kernel: 5.11.0-46-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.0.3, Vulkan: 1.2.145, Compiler: GCC 9.4.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-yTrUTS/gcc-9-9.4.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Disk Notes: MQ-DEADLINE / errors=remount-ro,relatime,rw / Block Size: 4096
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x8a - Thermald 1.9.1
Java Notes: OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1.20.04)
Python Notes: Python 3.8.10
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 Enhanced IBRS IBPB: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

	Intel Celeron 6305E	Intel Core i3 1115GRE	Intel Core i5 1145GRE	Intel Core i7 1185GRE
SQLite - 1 (sec)	**31.038**	29.381	**16.335**	17.141
Normalized	52.63%	55.6%	100%	95.3%
Standard Deviation	29.9%	6.5%	1.2%	7%
SQLite - 8 (sec)	72.761	**106.594**	**55.723**	63.975
Normalized	76.58%	52.28%	100%	87.1%
Standard Deviation	8.7%	1.3%	4.3%	19.3%
SQLite - 32 (sec)	142.063	**242.314**	**112.547**	116.823
Normalized	79.22%	46.45%	100%	96.34%
Standard Deviation	9.5%	0.5%	2.1%	1.7%

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SQLite - 64 (sec)	262.485	295.478	207.275	214.957
Normalized	78.97%	70.15%	100%	96.43%
Standard Deviation	0.6%	28.2%	2.5%	0.6%
SQLite - 128 (sec)	608.350	689.709	681.609	548.514
Normalized	90.16%	79.53%	80.47%	100%
Standard Deviation	5.7%	37.8%	18.4%	36.1%
Unigine Heaven - 1920 x 1080 - Windowed - OpenGL (FPS)	14.5872	14.9890	19.9004	27.0858
Normalized	53.86%	55.34%	73.47%	100%
Standard Deviation	0.1%	0.4%	0.7%	0.8%
Unigine Heaven - 1920 x 1080 - Fullscreen - OpenGL (FPS)	14.9941	15.3876	20.4858	28.2753
Normalized	52.84%	54.23%	72.2%	99.65%
Standard Deviation	0.4%	0.2%	0.6%	0.2%
Unigine Sanctuary - 1920 x 1080 - Fullscreen (FPS)	51.2684	52.3881	70.5031	95.4839
Normalized	53.69%	54.87%	73.84%	100%
Standard Deviation	0.2%	0.2%	0.3%	0.4%
Unigine Superposition - 1920 x 1080 - Fullscreen - Low - OpenGL (FPS)	16.5	13.6	16.1	19.2
Normalized	85.94%	70.83%	83.85%	100%
Standard Deviation	0.4%	1.1%	0.7%	1.1%
Unigine Superposition - 1920 x 1080 - Fullscreen - High - OpenGL (FPS)	5.9	5.5	7.0	9.3
Normalized	63.44%	59.14%	75.27%	100%
Standard Deviation	0%	1.1%	0.8%	0.6%
Unigine Superposition - 1920 x 1080 - Fullscreen - Ultra - OpenGL (FPS)	2.6	2.6	3.6	5.4
Normalized	48.15%	48.15%	66.67%	100%
Standard Deviation	0%	0%	0%	0%
Unigine Superposition - 1920 x 1080 - Fullscreen - Medium - OpenGL (FPS)	8.2	7.5	9.6	12.5
Normalized	65.6%	60%	76.8%	100%
Standard Deviation	0.7%	0%	0.6%	0.5%
Unigine Tropics - 1920 x 1080 - Fullscreen (FPS)	44.9093	41.9751	49.1068	57.7073
Normalized	77.82%	72.74%	85.1%	100%
Standard Deviation	0.7%	0.8%	0.2%	0.4%
Unigine Valley - 1920 x 1080 - Fullscreen - OpenGL (FPS)	16.0436	16.4526	21.2899	28.1525
Normalized	56.99%	58.44%	75.62%	100%
Standard Deviation	0.4%	0.2%	0.2%	0.2%
Stream - Copy (MB/s)	34347	33056	33099	33148
Normalized	100%	96.24%	96.37%	96.51%
Standard Deviation	0.1%	0.1%	0.2%	0.2%
Stream - Scale (MB/s)	20640	17842	16096	16522
Normalized	100%	86.45%	77.98%	80.05%
Standard Deviation	0.2%	0.2%	0.4%	0.5%
Stream - Triad (MB/s)	23597	21171	20236	20648
Normalized	100%	89.72%	85.76%	87.5%
Standard Deviation	0.2%	0.4%	0.3%	0.4%
Stream - Add (MB/s)	23565	21446	20576	20929
Normalized	100%	91.01%	87.32%	88.81%
Standard Deviation	0.2%	0.6%	0.3%	0.2%

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Go Benchmarks - http (ns/op)	**32264**	12993	8572	**7951**
Normalized	24.64%	61.19%	92.76%	100%
Standard Deviation	0.1%	0.1%	1.6%	7.5%
Go Benchmarks - json (ns/op)	**38617634**	18976623	13382946	**12742129**
Normalized	33%	67.15%	95.21%	100%
Standard Deviation	1.4%	0.2%	4.6%	5.3%
Go Benchmarks - build (ns/op)	**35587088363**	18701539220	18017254542	**16395464432**
Normalized	46.07%	87.67%	91%	100%
Standard Deviation	2.1%	2.3%	2.4%	2.8%
Java SciMark - Composite (Mflops)	**1072**	2293	2365	**2551**
Normalized	42.05%	89.89%	92.73%	100%
Standard Deviation	0.5%	0.6%	2.5%	1.6%
Java SciMark - Monte Carlo (Mflops)	**441.87**	907.27	956.56	**1030**
Normalized	42.89%	88.06%	92.84%	100%
Standard Deviation	0.1%	0.3%	0%	0%
Java SciMark - F.F.T (Mflops)	**719.07**	1652	1663	**1891**
Normalized	38.02%	87.34%	87.94%	100%
Standard Deviation	0.5%	0.8%	10.5%	1%
Java SciMark - S.M.M (Mflops)	**1086**	2220	2340	**2513**
Normalized	43.22%	88.36%	93.13%	100%
Standard Deviation	0.4%	0.4%	1%	0.8%
Java SciMark - D.L.M.F (Mflops)	**2350**	5139	5249	**5558**
Normalized	42.28%	92.45%	94.44%	100%
Standard Deviation	1.1%	1%	3.8%	3.8%
Java SciMark - J.S.O.R (Mflops)	**765.35**	1545	1615	**1760**
Normalized	43.47%	87.79%	91.74%	100%
Standard Deviation	1.7%	2%	2.1%	2.5%
SciMark - Composite (Mflops)	**287.88**	565.87	534.37	**656.68**
Normalized	43.84%	86.17%	81.37%	100%
Standard Deviation	0%	0.2%	6%	0.1%
SciMark - Monte Carlo (Mflops)	**84.50**	174.36	167.04	**200.62**
Normalized	42.12%	86.91%	83.26%	100%
Standard Deviation	0.2%	0.1%	10.3%	0.3%
SciMark - F.F.T (Mflops)	**138.66**	196.85	206.83	**255.75**
Normalized	54.22%	76.97%	80.87%	100%
Standard Deviation	0.2%	0.6%	3.3%	0.6%
SciMark - S.M.M (Mflops)	**331.02**	665.72	670.65	**758.90**
Normalized	43.62%	87.72%	88.37%	100%
Standard Deviation	0%	0%	4.5%	0.1%
SciMark - D.L.M.F (Mflops)	**372.04**	744.65	502.49	**871.18**
Normalized	42.71%	85.48%	57.68%	100%
Standard Deviation	0%	0.1%	30%	0.1%
SciMark - J.S.O.R (Mflops)	**513.17**	1048	1063	**1197**
Normalized	42.87%	87.54%	88.83%	100%
Standard Deviation	0%	0.4%	2.7%	0%
GraphicsMagick - Swirl	**42**	118	181	**191**
Normalized	21.99%	61.78%	94.76%	100%
Standard Deviation		1%	1.4%	1.6%
GraphicsMagick - Rotate	**503**	959	984	**1069**
Normalized	47.05%	89.71%	92.05%	100%
Standard Deviation		0.1%		0.8%
GraphicsMagick - Sharpen (Iterations/min)	**15**	32	50	**53**
Normalized	28.3%	60.38%	94.34%	100%

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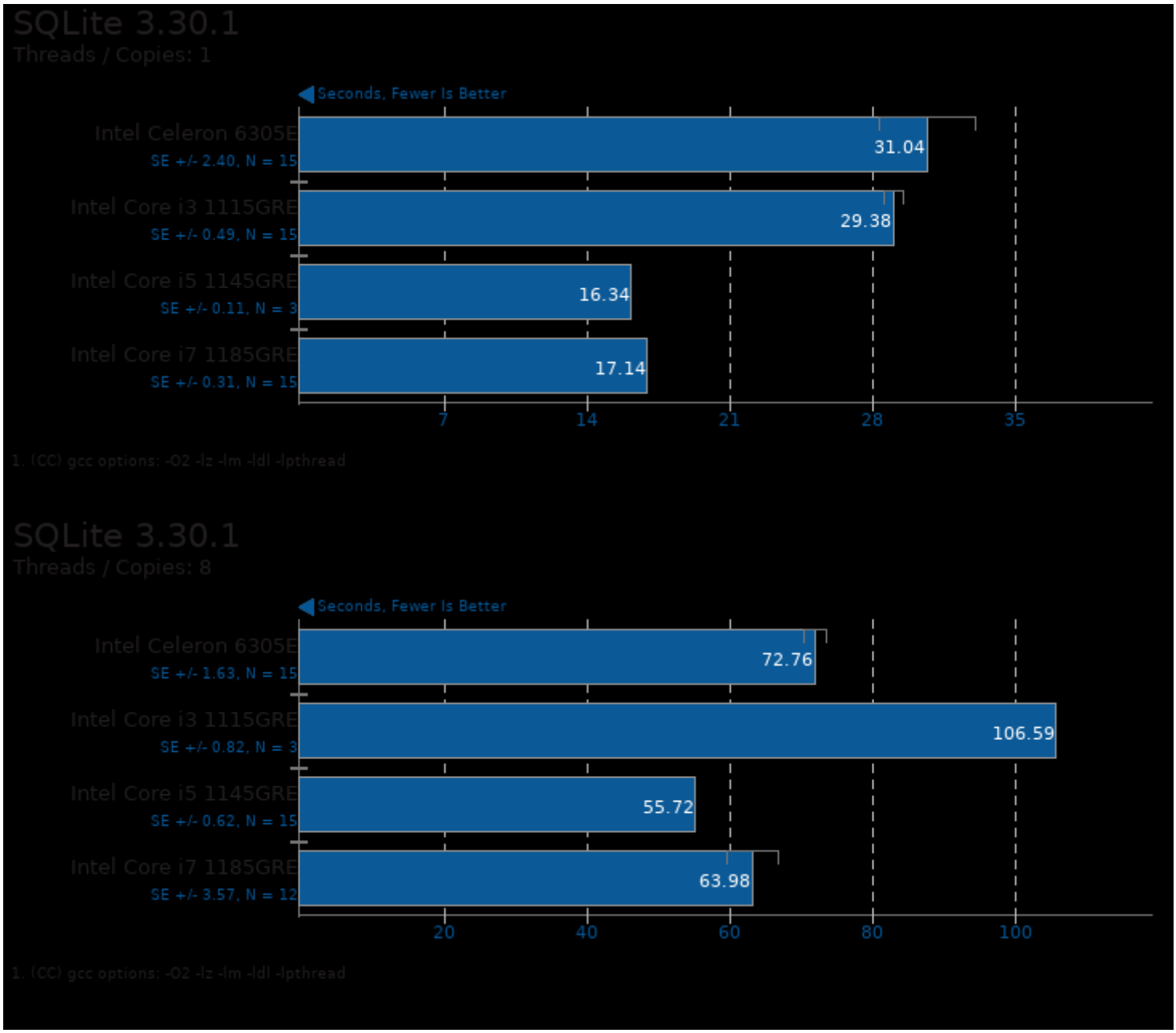
GraphicsMagick - Enhanced (Iterations/min)	19	42	71	74
Normalized	25.68%	56.76%	95.95%	100%
GraphicsMagick - Resizing (Iterations/min)	104	237	344	381
Normalized	27.3%	62.2%	90.29%	100%
Standard Deviation	0.6%			
GraphicsMagick - Noise-Gaussian (Iterations/min)	23	62	93	99
Normalized	23.23%	62.63%	93.94%	100%
Standard Deviation		0.9%		0.6%
GraphicsMagick - HWB Color Space (Iterations/min)	216	452	610	645
Normalized	33.49%	70.08%	94.57%	100%
Standard Deviation		0.1%	1.3%	1.3%
x264 - H.2.V.E (FPS)	10.04	23.35	34.69	36.24
Normalized	27.7%	64.43%	95.72%	100%
Standard Deviation	2.4%	2.1%	4.2%	4%
C-Ray - Total Time - 4.1.R.P.P (sec)	824.806	354.437	205.468	195.961
Normalized	23.76%	55.29%	95.37%	100%
Standard Deviation	0.1%	0.1%	0.4%	0.3%
Parallel BZIP2 Compression - 2.F.C (sec)	45.667	16.239	10.964	9.890
Normalized	21.66%	60.9%	90.2%	100%
Standard Deviation	1.3%	2.2%	2.8%	7.5%
Rust Prime Benchmark - P.N.T.T.2.0.0 (sec)	115.376	51.393	24.508	23.248
Normalized	20.15%	45.24%	94.86%	100%
Standard Deviation	0.1%	0.2%	0.2%	2.5%
Smallpt - G.I.R.1.S (sec)	138.003	47.012	30.176	28.003
Normalized	20.29%	59.57%	92.8%	100%
Standard Deviation	0.2%	0.1%	1.2%	2.2%
Node.js Octane Benchmark (Score)	20511	45698	50809	55903
Normalized	36.69%	81.75%	90.89%	100%
Standard Deviation	0.5%	0.7%	0.2%	0.2%
LAME MP3 Encoding - WAV To MP3 (sec)	16.936	8.310	7.868	7.287
Normalized	43.03%	87.69%	92.62%	100%
Standard Deviation	0.1%	0.2%	0.4%	0.2%
FFmpeg - H.2.H.T.N.D (sec)	26.807	9.978	5.750	6.558
Normalized	21.45%	57.63%	100%	87.68%
Standard Deviation	1%	1%	2%	9.5%
Perl Benchmarks - Pod2html (sec)	0.21590039	0.10722077	0.10145593	0.09419335
Normalized	43.63%	87.85%	92.84%	100%
Standard Deviation	0.6%	0.4%	1.1%	0.8%
Perl Benchmarks - Interpreter (sec)	0.00185757	0.00086747	0.00200914	0.00154389
Normalized	46.7%	100%	43.18%	56.19%
Standard Deviation	0.3%	0.2%	3.4%	1.2%
System GZIP Decompression (sec)	6.983	3.410	3.220	2.989
Normalized	42.8%	87.65%	92.83%	100%
Standard Deviation	2.1%	2.4%	2.2%	2.2%
OpenSSL - SHA256 (byte/s)	754192433	1882241437	2854420433	3065483097
Normalized	24.6%	61.4%	93.11%	100%
Standard Deviation	0.3%	0.3%	0.1%	0.4%

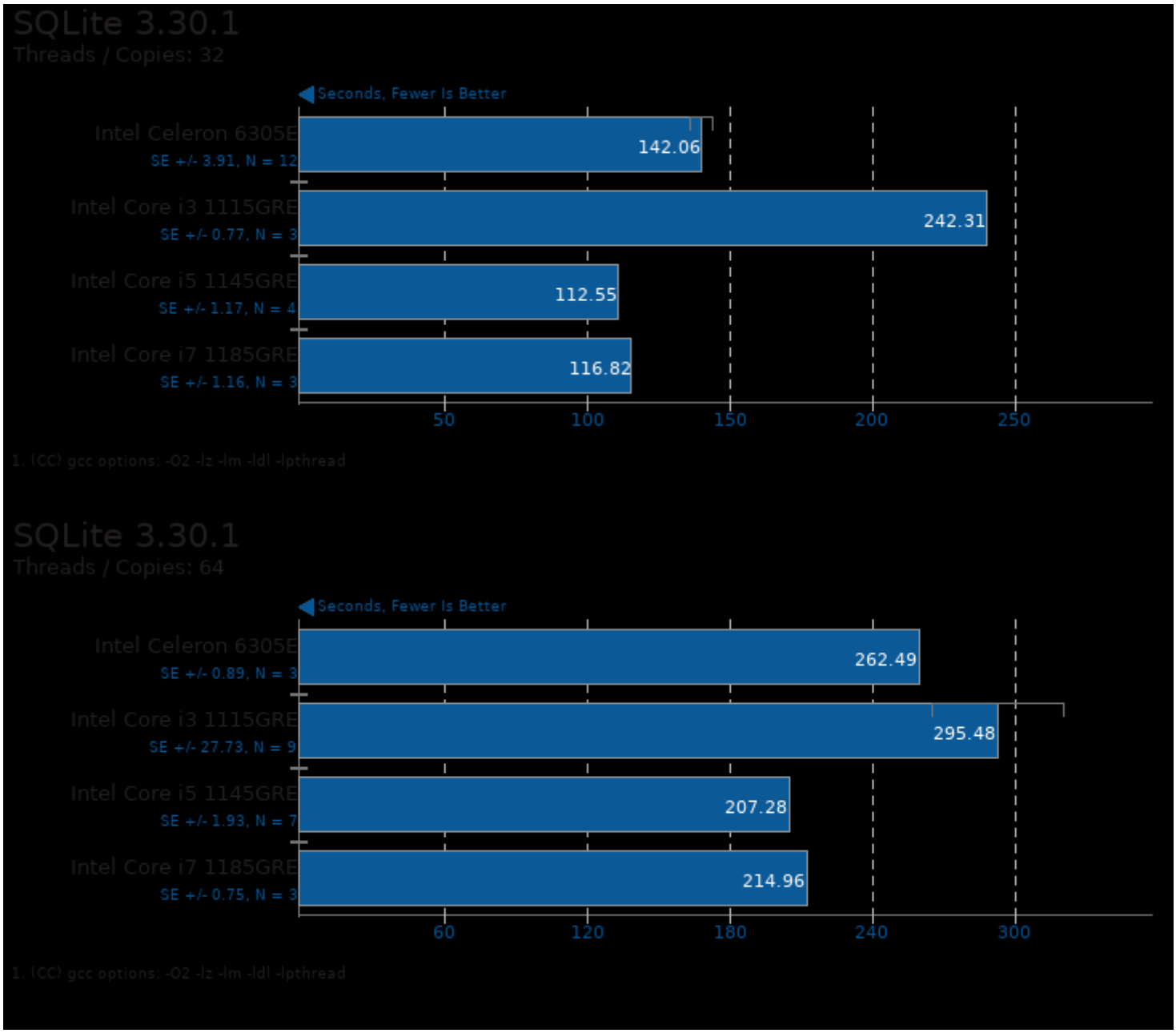
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libjpeg-turbo tjbench - D.T (Megapixels/sec)	**84.610683**	171.830312	176.699115	**194.049233**
Normalized	43.6%	88.55%	91.06%	100%
Standard Deviation	0.1%	0.2%	2.4%	2.1%
OpenVINO - F.D.0.F - CPU (FPS)	**0.24**	0.59	0.85	**0.93**
Normalized	25.81%	63.44%	91.4%	100%
Standard Deviation	0%	1%	1.4%	0.6%
OpenVINO - F.D.0.F - CPU (ms)	**4154**	**6768**	4696	4346
Normalized	100%	61.38%	88.47%	95.6%
Standard Deviation	2.5%	2.5%	0.1%	0.1%
OpenVINO - F.D.0.F - CPU (FPS)	**0.24**	0.58	0.84	**0.91**
Normalized	26.37%	63.74%	92.31%	100%
Standard Deviation	0%	1%	1.2%	0.6%
OpenVINO - F.D.0.F - CPU (ms)	**4208**	**6895**	4750	4405
Normalized	100%	61.03%	88.58%	95.52%
Standard Deviation	0.1%	0.7%	0.1%	0.2%
OpenVINO - P.D.0.F - CPU (FPS)	**0.15**	0.36	0.51	**0.55**
Normalized	27.27%	65.45%	92.73%	100%
Standard Deviation	0%	0%	1.1%	1%
OpenVINO - P.D.0.F - CPU (ms)	**6586**	**11107**	7920	7107
Normalized	100%	59.3%	83.16%	92.67%
Standard Deviation	0.6%	0.4%	1.1%	0.3%
OpenVINO - P.D.0.F - CPU (FPS)	**0.15**	0.36	0.49	**0.55**
Normalized	27.27%	65.45%	89.09%	100%
Standard Deviation	0%	0%	1.2%	0%
OpenVINO - P.D.0.F - CPU (ms)	**6588**	**11167**	7984	7220
Normalized	100%	58.99%	82.51%	91.24%
Standard Deviation	0.4%	0.5%	0.2%	0.3%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	**651.33**	1730	2542	**2987**
Normalized	21.81%	57.92%	85.09%	100%
Standard Deviation	0.8%	2.1%	1%	1.1%
OpenVINO - A.G.R.R.0.F - CPU (ms)	1.3	**2.19**	1.47	**1.27**
Normalized	97.69%	57.99%	86.39%	100%
Standard Deviation	0%	2%	0%	0.5%
OpenVINO - A.G.R.R.0.F - CPU (FPS)	**651.10**	1710	2483	**2910**
Normalized	22.37%	58.76%	85.33%	100%
Standard Deviation	0.3%	0.8%	0.4%	1%
OpenVINO - A.G.R.R.0.F - CPU (ms)	**1.30**	**2.22**	1.48	**1.30**
Normalized	100%	58.56%	87.84%	100%
Standard Deviation	0.4%	0.7%	0.4%	0.9%
OpenVINO - A.G.R.R.0.F - Intel GPU (FPS)	**1384**	1581	2243	**2802**
Normalized	49.38%	56.42%	80.05%	100%
Standard Deviation	0.6%	2.3%	0.9%	2.5%
OpenVINO - A.G.R.R.0.F - Intel GPU (ms)	2.45	**2.70**	1.73	**1.41**
Normalized	57.55%	52.22%	81.5%	100%
Standard Deviation	1.4%	2.2%	1.2%	2.3%
OpenVINO - A.G.R.R.0.F - Intel GPU (FPS)	**1182**	1343	1570	**2098**
Normalized	56.33%	63.99%	74.82%	100%
Standard Deviation	0.7%	1.1%	1.8%	0.7%

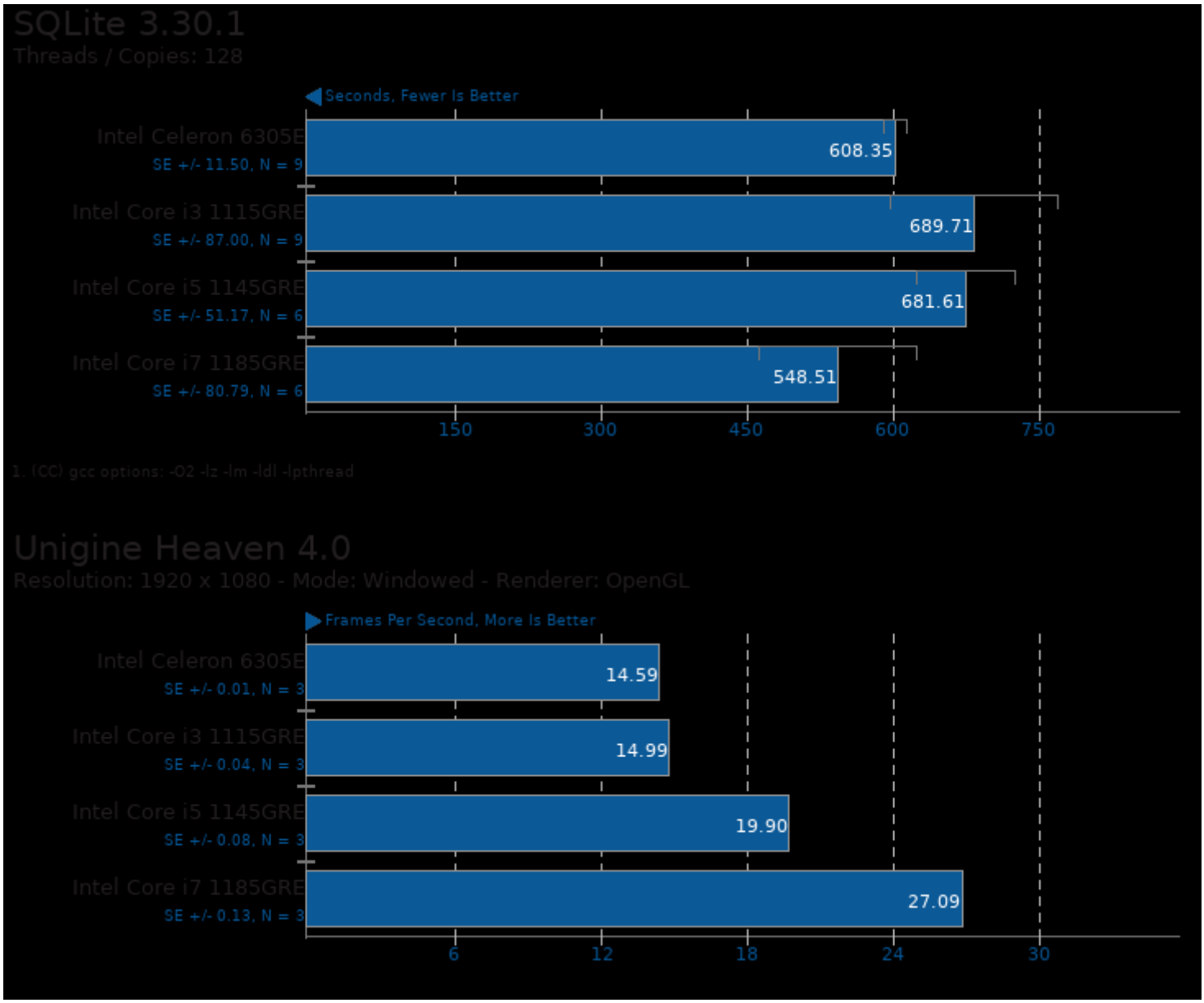
BENCHMARK COMPARISON ON UP XTREME i11

OpenVINO - A.G.R.R.0.F - Intel GPU (ms)	**3.17**	2.90	2.47	**1.85**
Normalized	58.36%	63.79%	74.9%	100%
Standard Deviation	1.3%	5.5%	0.6%	0.3%
PyBench - T.F.A.T.T (Milliseconds)	**1884**	913	868	**801**
Normalized	42.52%	87.73%	92.28%	100%
Standard Deviation	0.3%	0.3%	0.3%	0.1%
PHPBench - P.B.S (Score)	**392282**	799706	758987	**893735**
Normalized	43.89%	89.48%	84.92%	100%
Standard Deviation	0.2%	0.5%	8.5%	2.4%
GnuPG - 2.7.S.F.E (sec)	**148.987**	72.580	79.802	**67.355**
Normalized	45.21%	92.8%	84.4%	100%
Standard Deviation	1.6%	2.2%	12.7%	2.5%

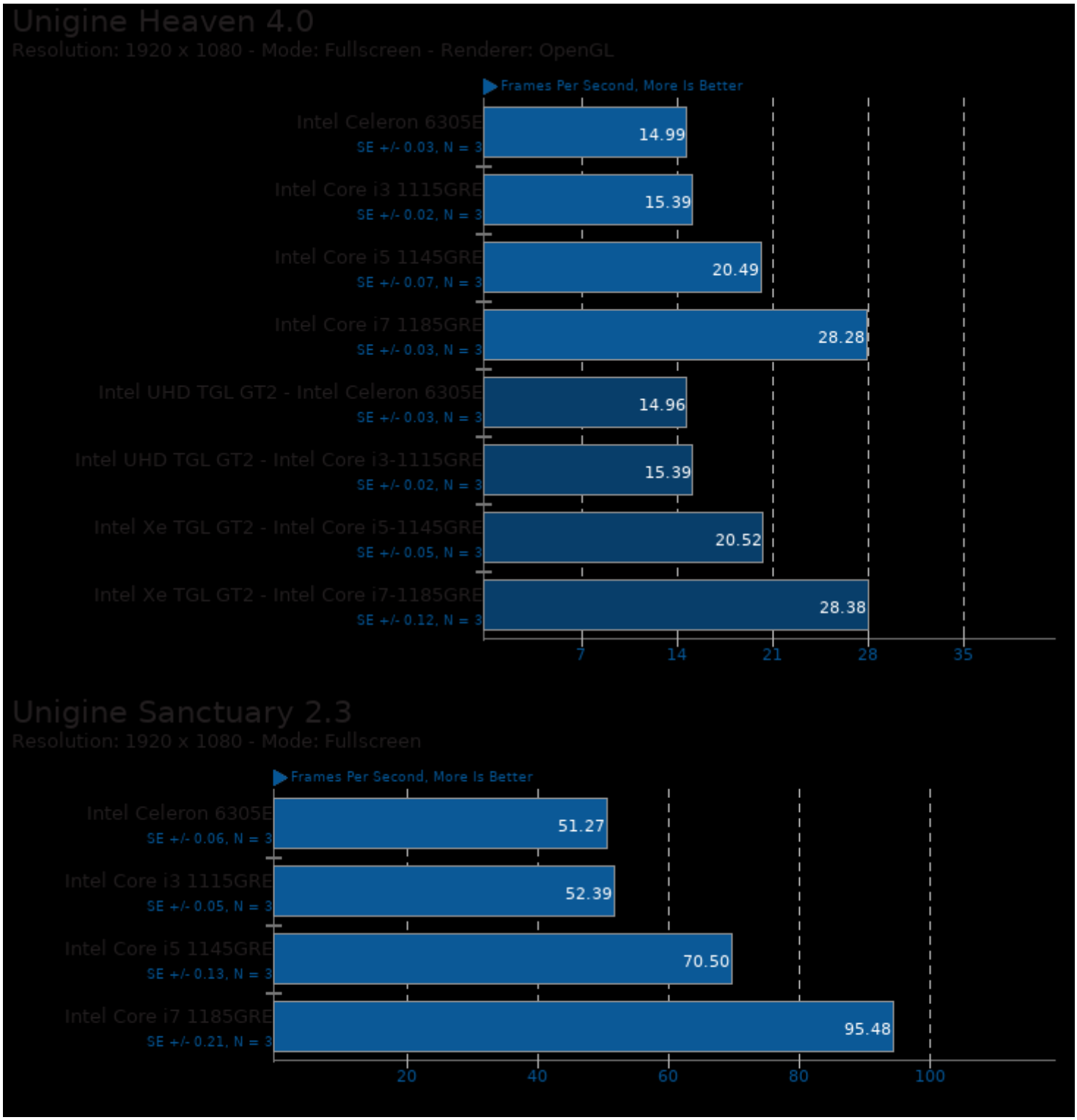

SQLite 3.30.1
Threads / Copies: 1
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 2.40, N = 15
31.04
Intel Core i3 1115GRE
SE +/- 0.49, N = 15
29.38
Intel Core i5 1145GRE
SE +/- 0.11, N = 3
16.34
Intel Core i7 1185GRE
SE +/- 0.31, N = 15
17.14
7
14
21
28
35
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 8
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 1.63, N = 15
72.76
Intel Core i3 1115GRE
SE +/- 0.82, N = 3
106.59
Intel Core i5 1145GRE
SE +/- 0.62, N = 15
55.72
Intel Core i7 1185GRE
SE +/- 3.57, N = 12
63.98
20
40
60
80
100
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread


SQLite 3.30.1
Threads / Copies: 32
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 3.91, N = 12
142.06
Intel Core i3 1115GRE
SE +/- 0.77, N = 3
242.31
Intel Core i5 1145GRE
SE +/- 1.17, N = 4
112.55
Intel Core i7 1185GRE
SE +/- 1.16, N = 3
116.82
50
100
150
200
250
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread
SQLite 3.30.1
Threads / Copies: 64
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 0.89, N = 3
262.49
Intel Core i3 1115GRE
SE +/- 27.73, N = 9
295.48
Intel Core i5 1145GRE
SE +/- 1.93, N = 7
207.28
Intel Core i7 1185GRE
SE +/- 0.75, N = 3
214.96
60
120
180
240
300
1. (CC) gcc options: -O2 -lz -lm -ldl -lpthread

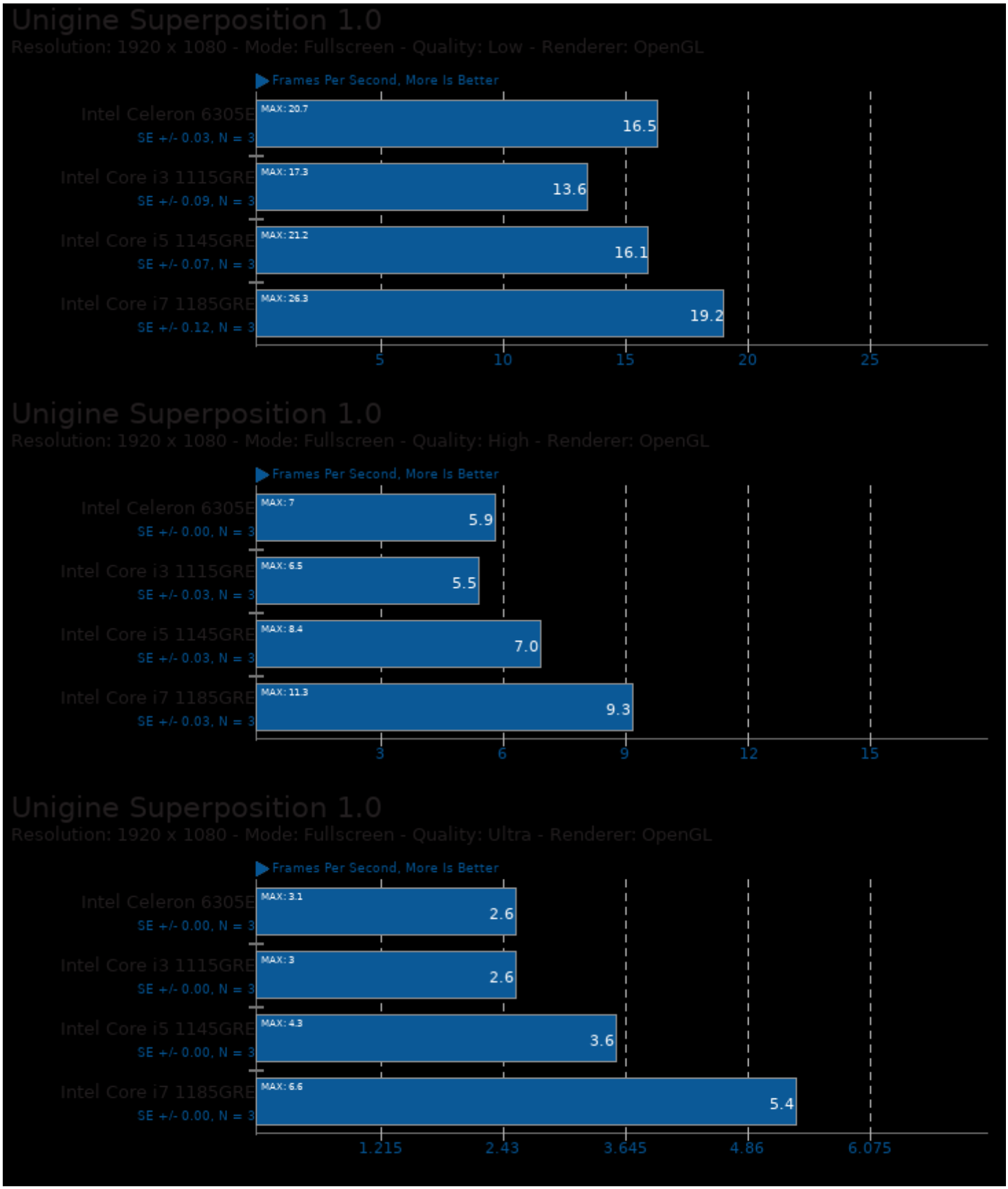
BENCHMARK COMPARISON ON UP XTREME i11



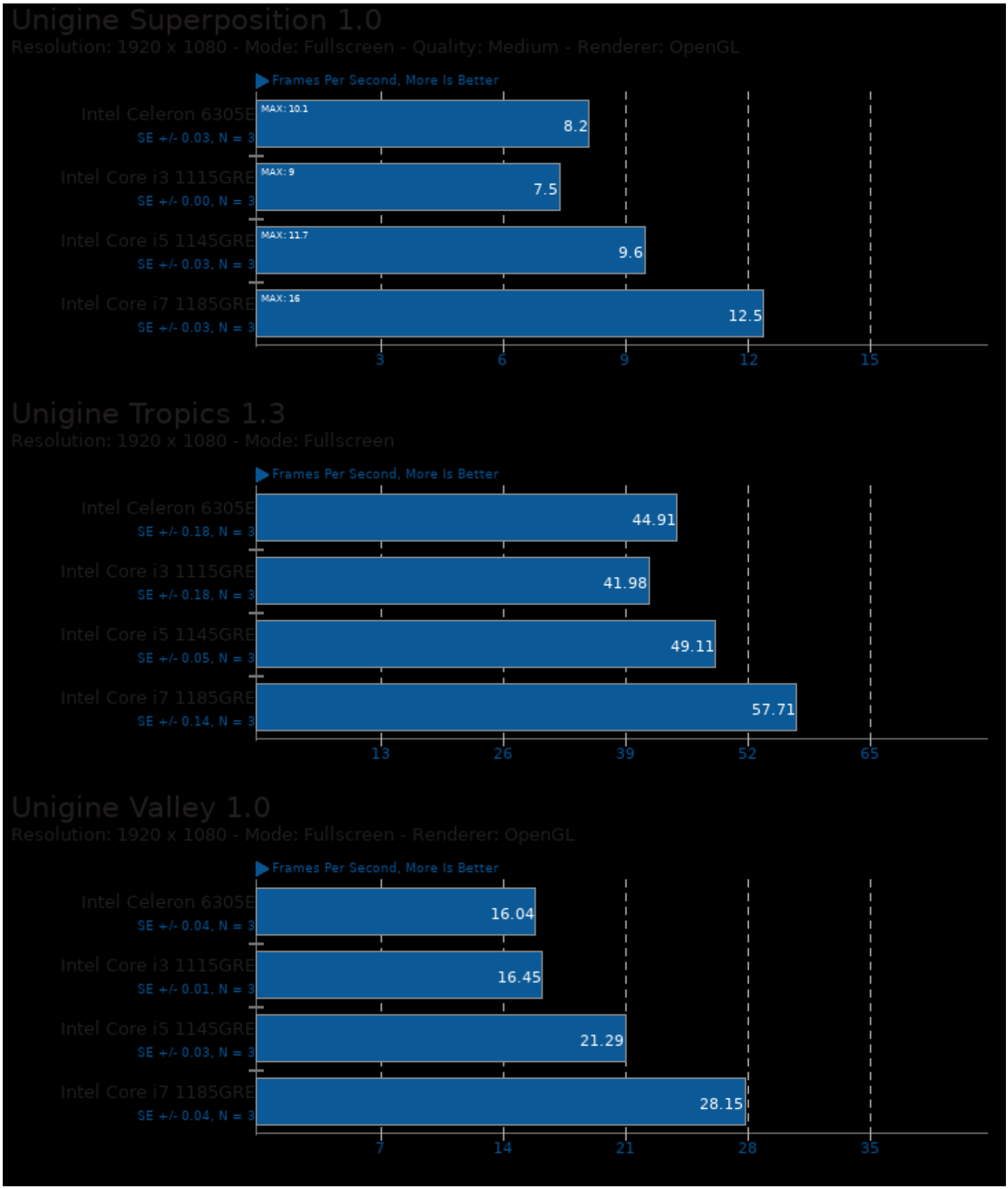
BENCHMARK COMPARISON ON UP XTREME i11



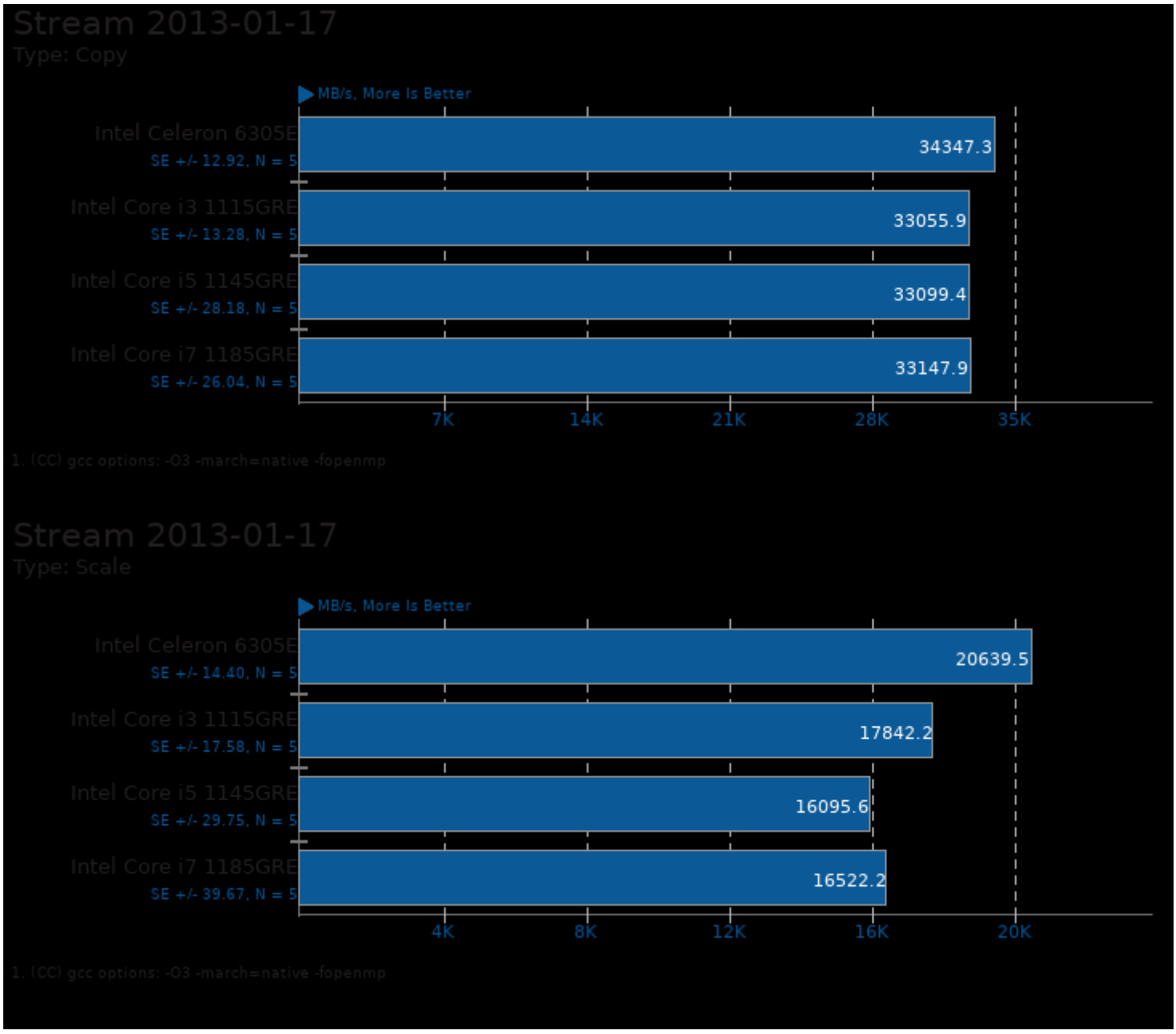
BENCHMARK COMPARISON ON UP XTREME i11



BENCHMARK COMPARISON ON UP XTREME i11



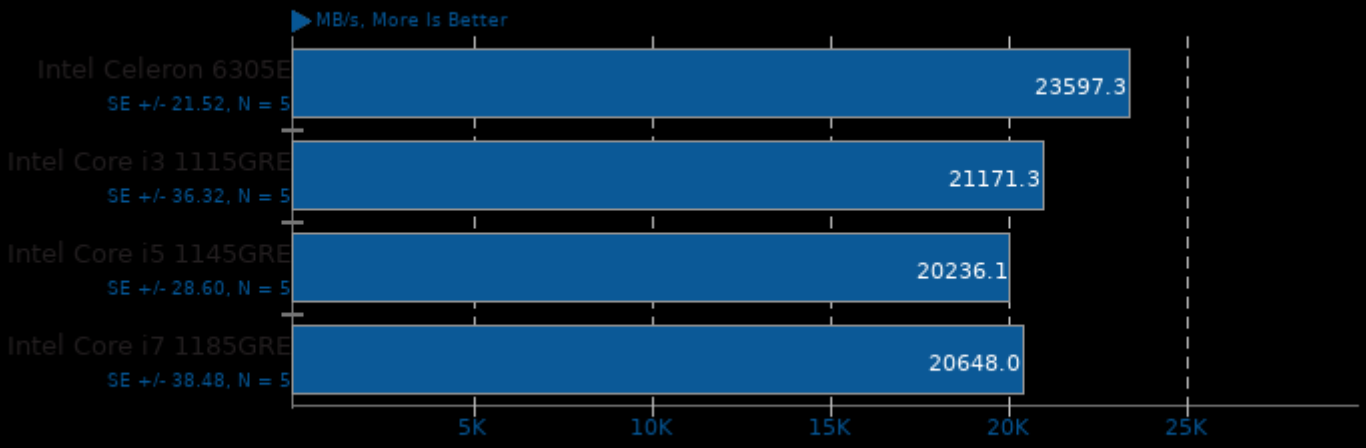
BENCHMARK COMPARISON ON UP XTREME i11



BENCHMARK COMPARISON ON UP XTREME i11

Stream 2013-01-17

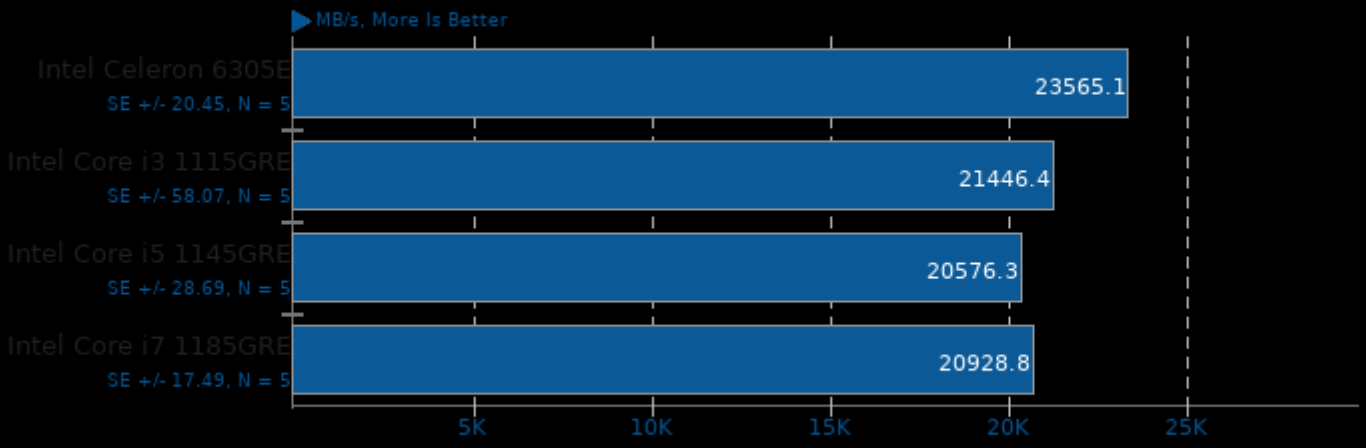
Type: Triad



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

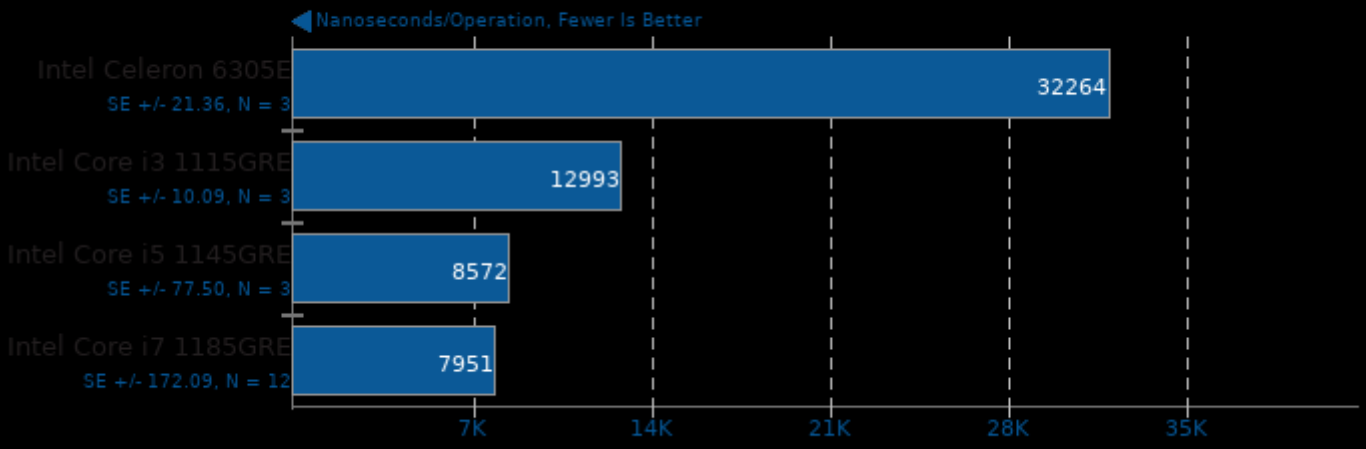
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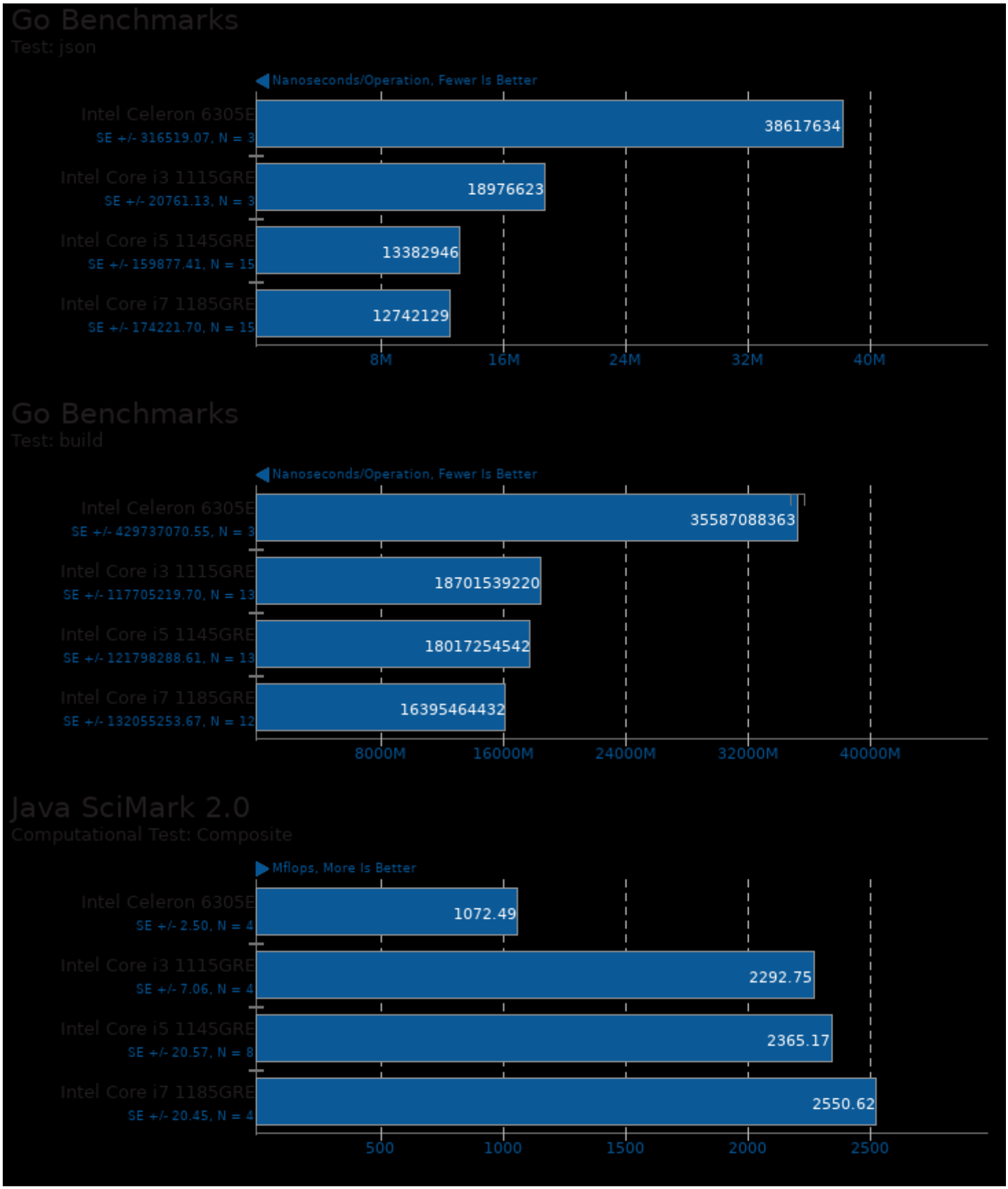
1. (CC) gcc options: -O3 -march=native -fopenmp

Go Benchmarks

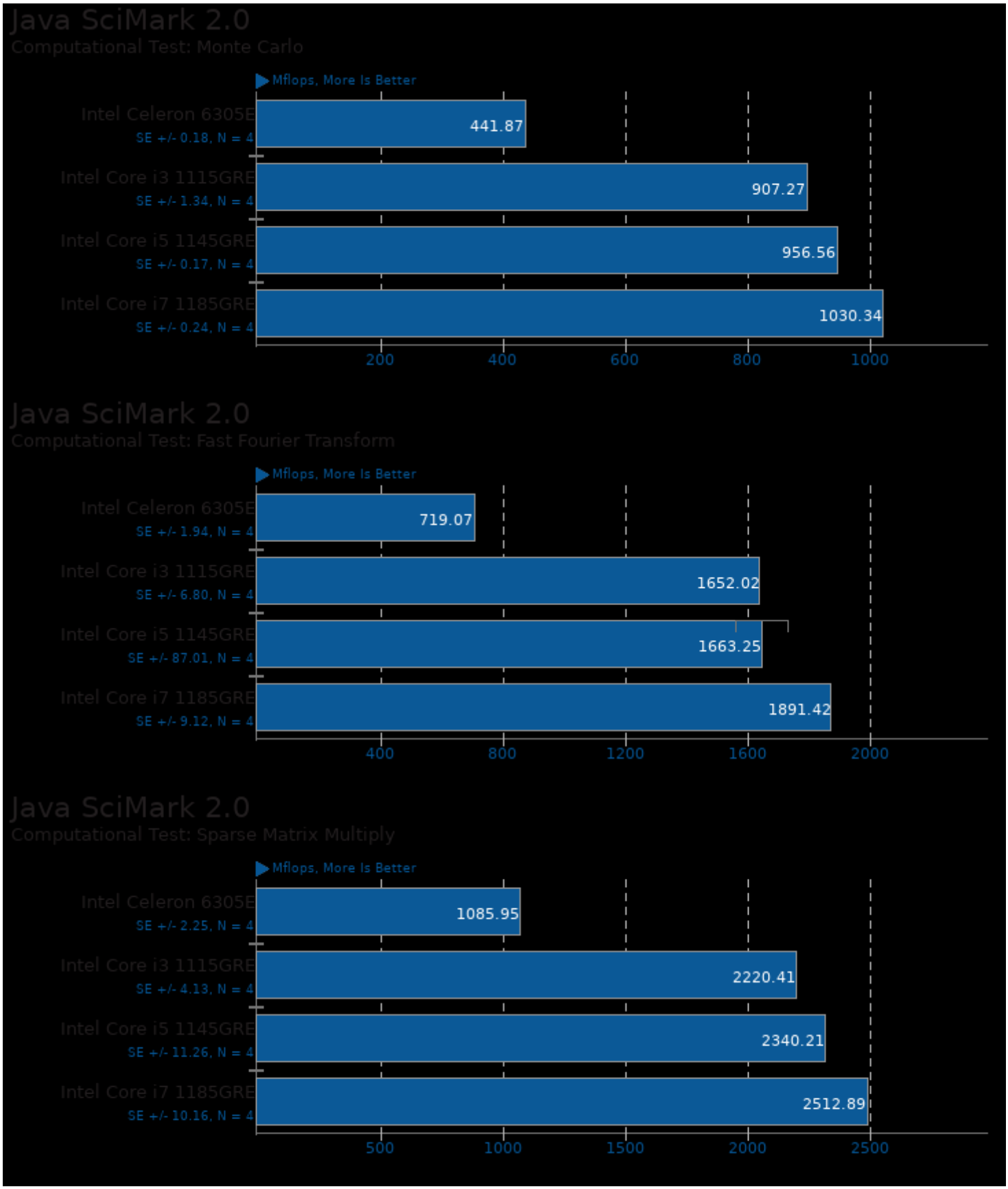
Test: http



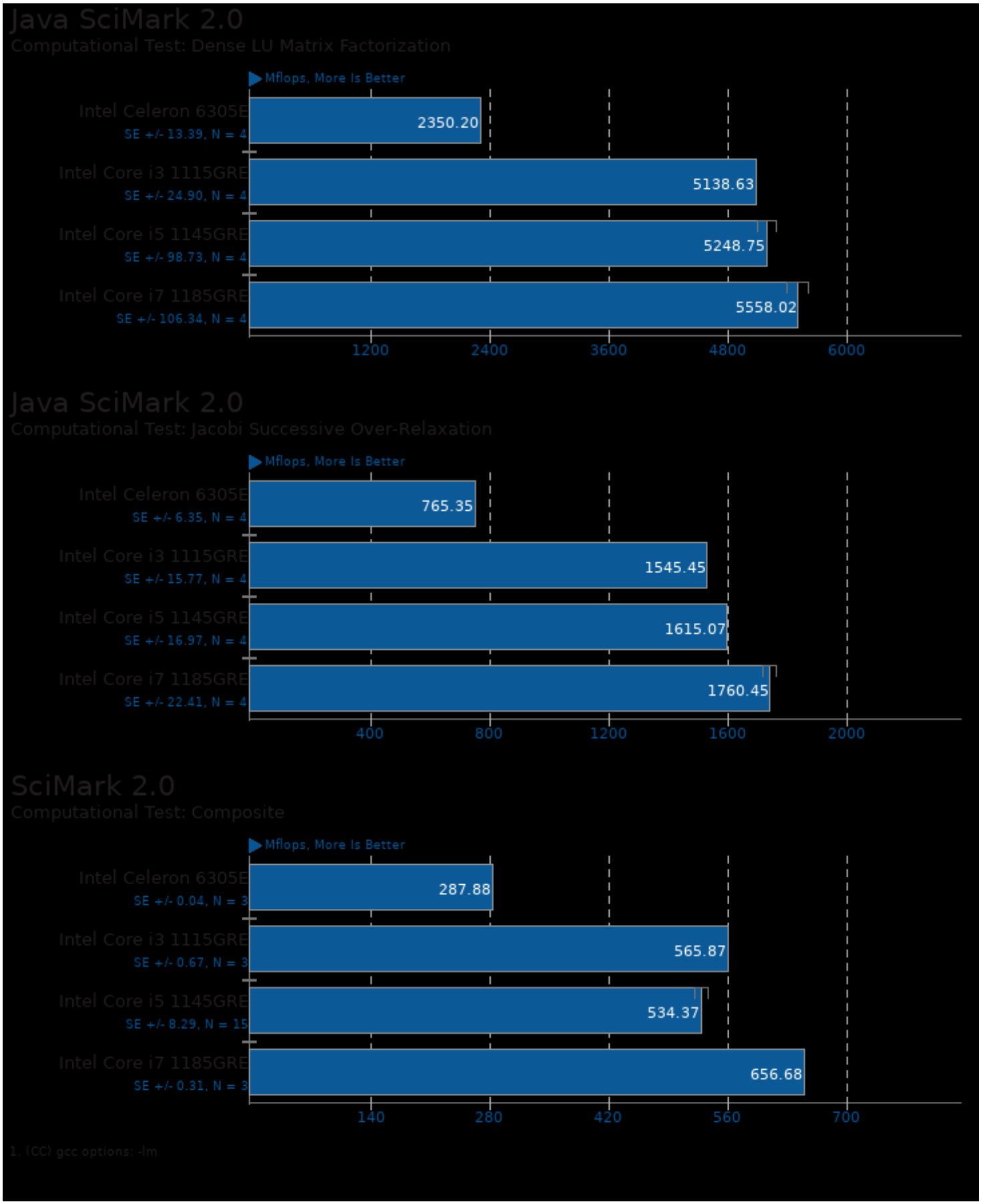
BENCHMARK COMPARISON ON UP XTREME i11



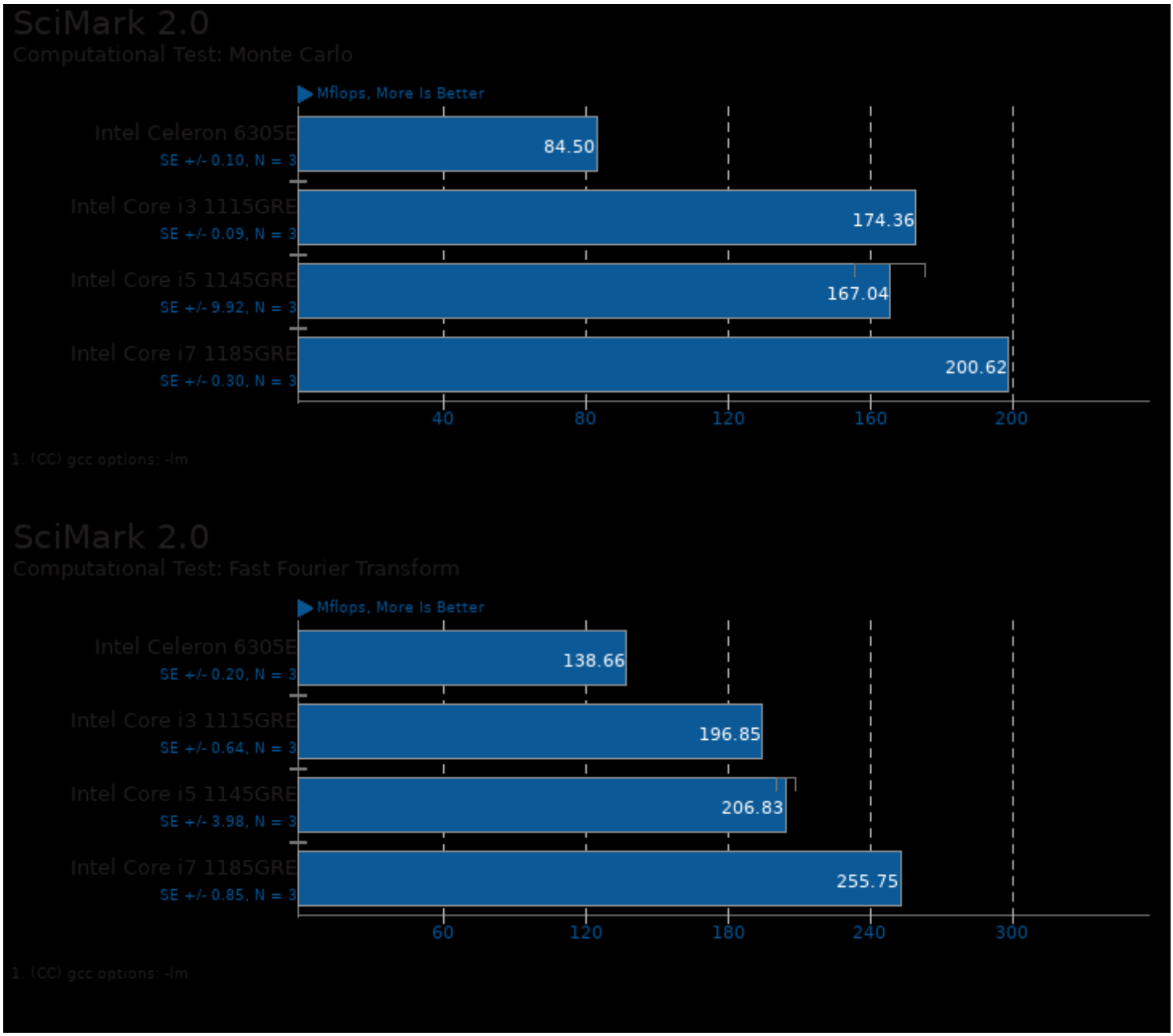
BENCHMARK COMPARISON ON UP XTREME i11



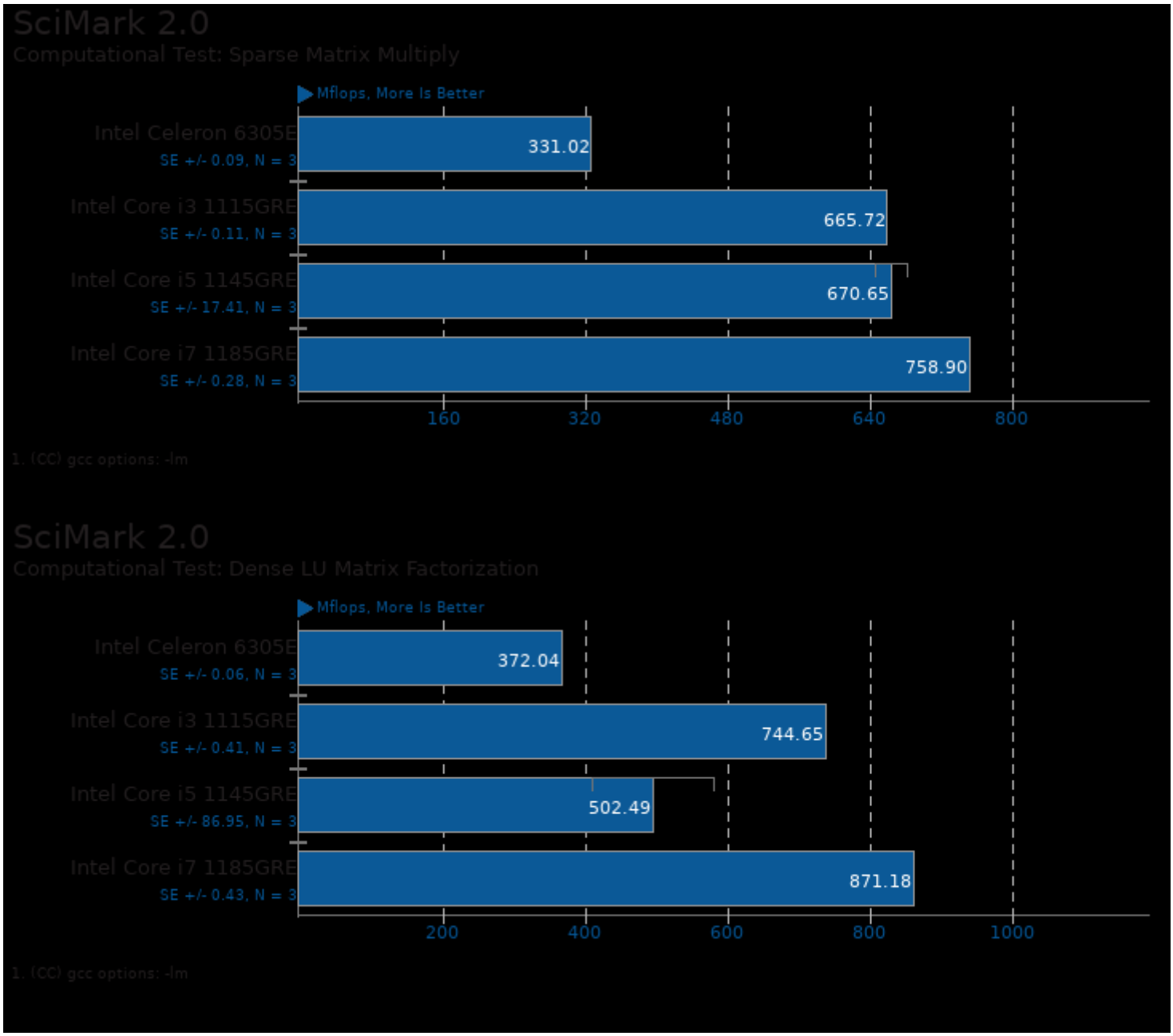
BENCHMARK COMPARISON ON UP XTREME i11



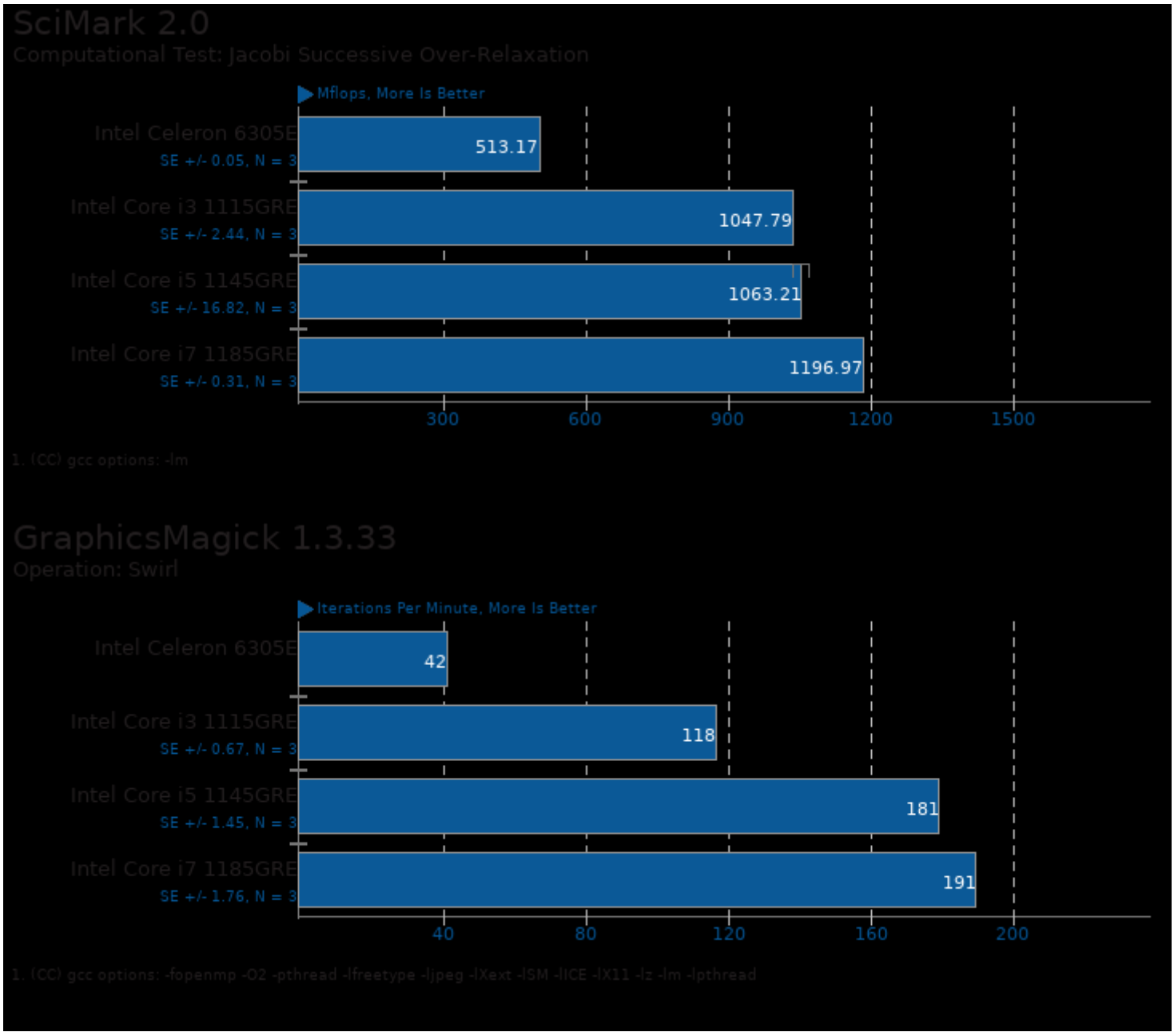
BENCHMARK COMPARISON ON UP XTREME i11



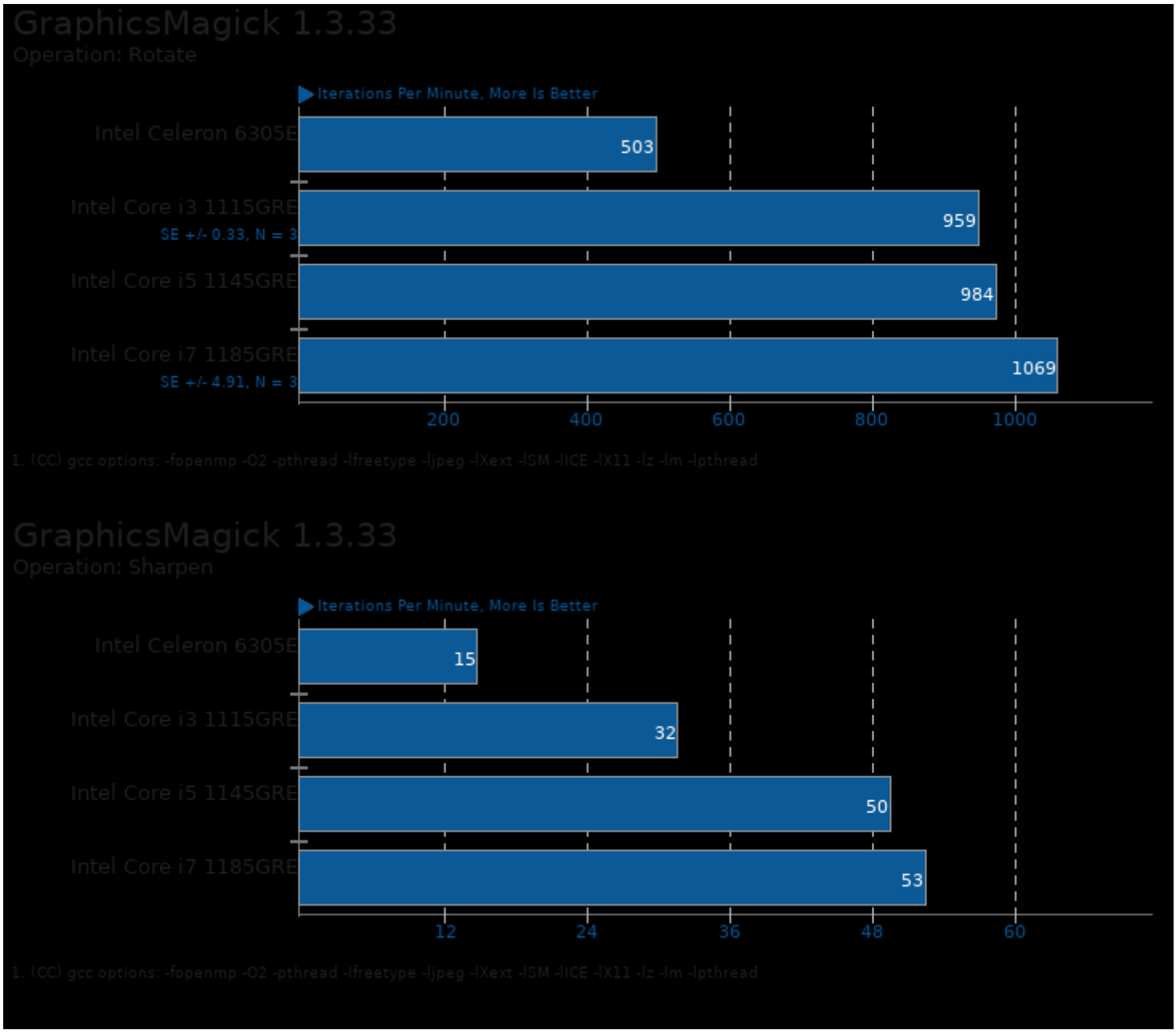
BENCHMARK COMPARISON ON UP XTREME i11



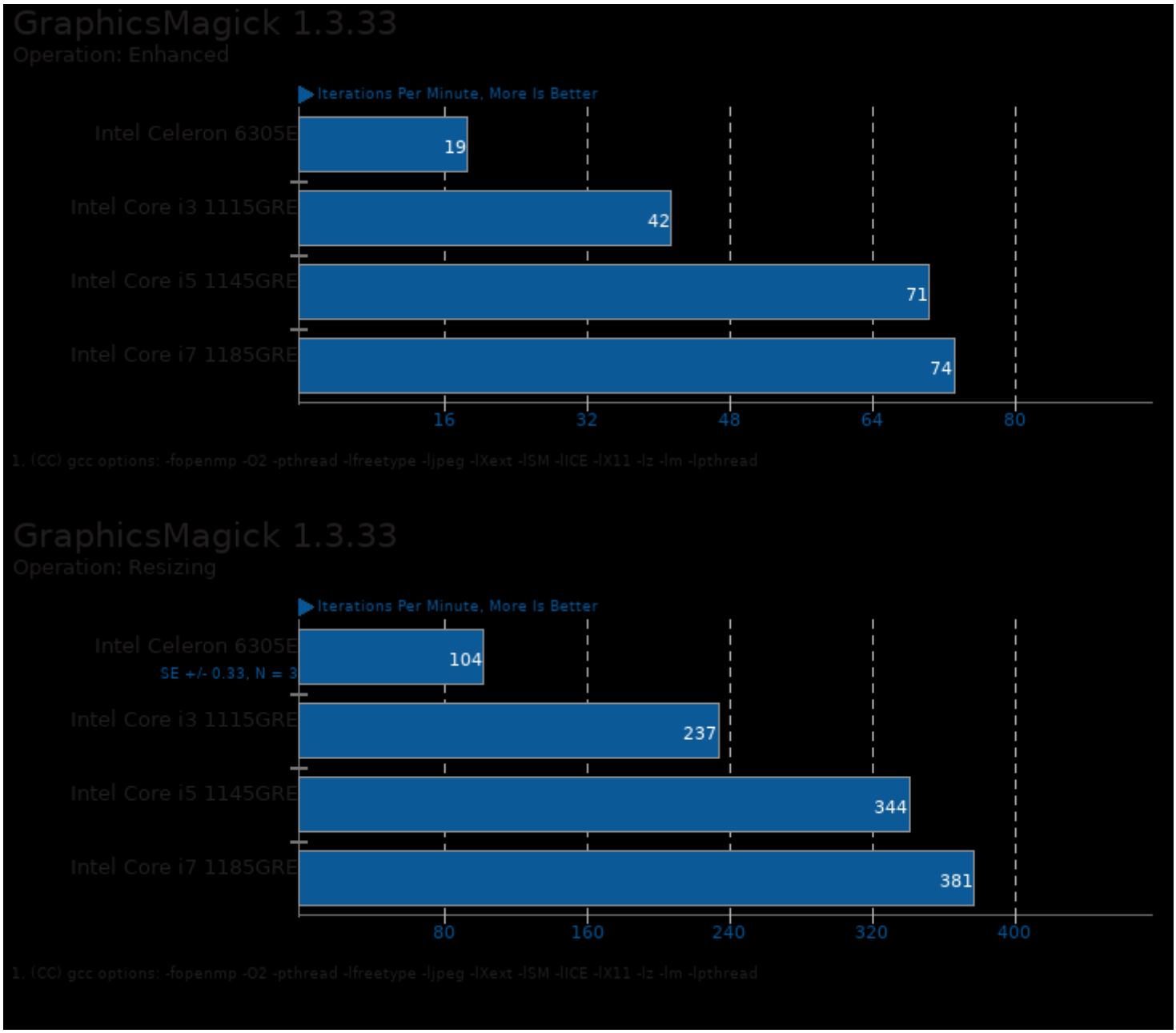
BENCHMARK COMPARISON ON UP XTREME i11



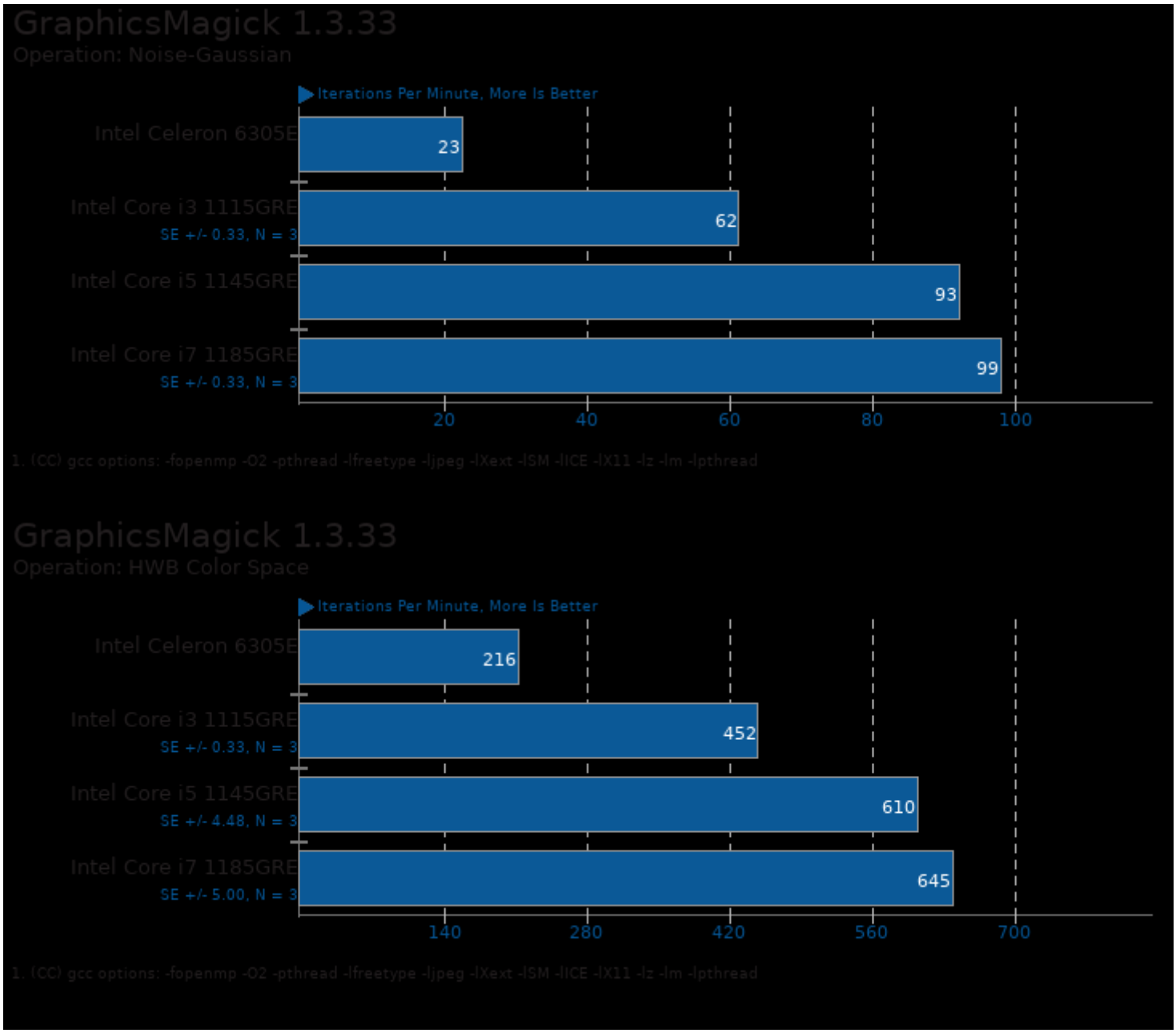
BENCHMARK COMPARISON ON UP XTREME i11



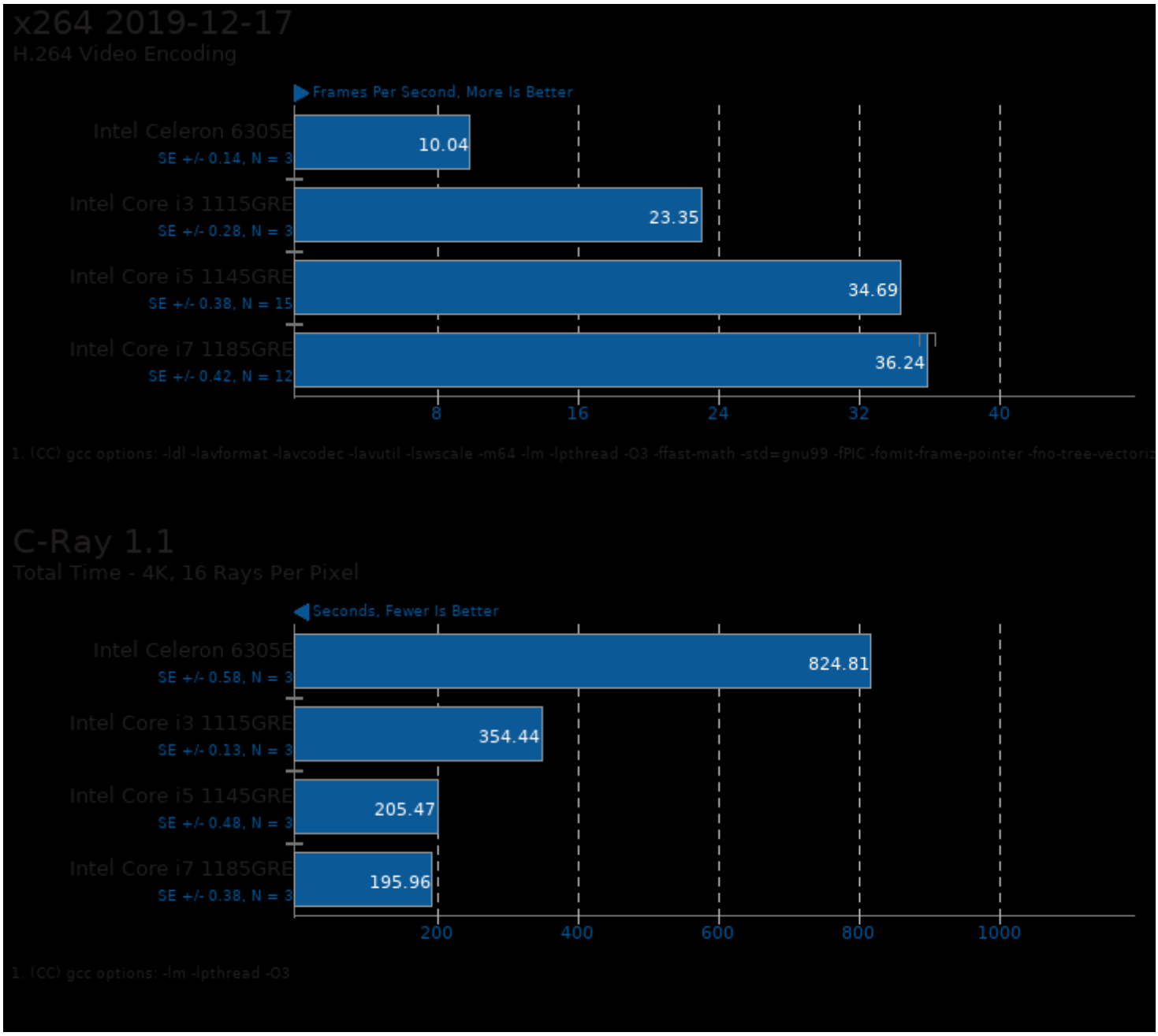
BENCHMARK COMPARISON ON UP XTREME i11

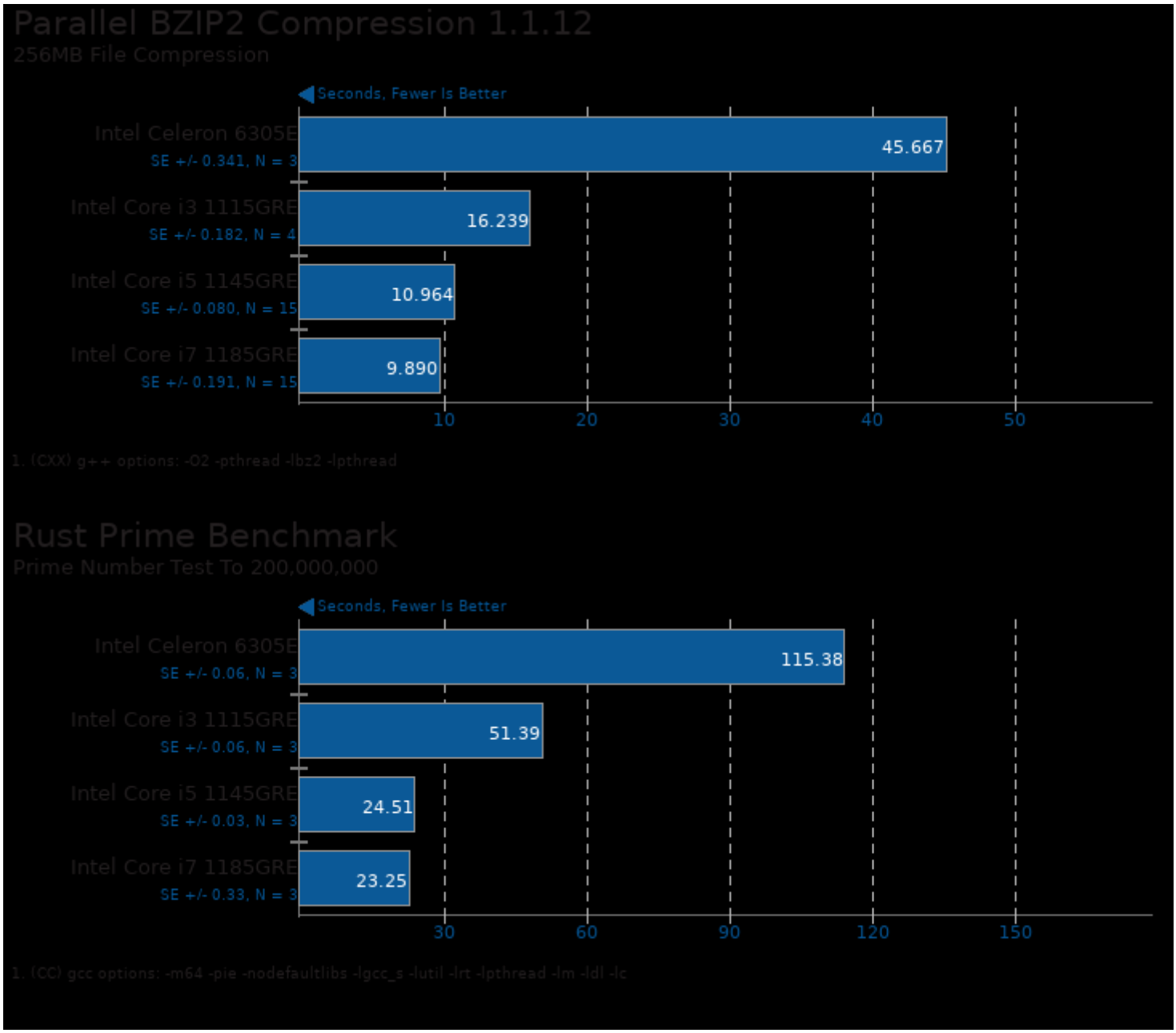


BENCHMARK COMPARISON ON UP XTREME i11

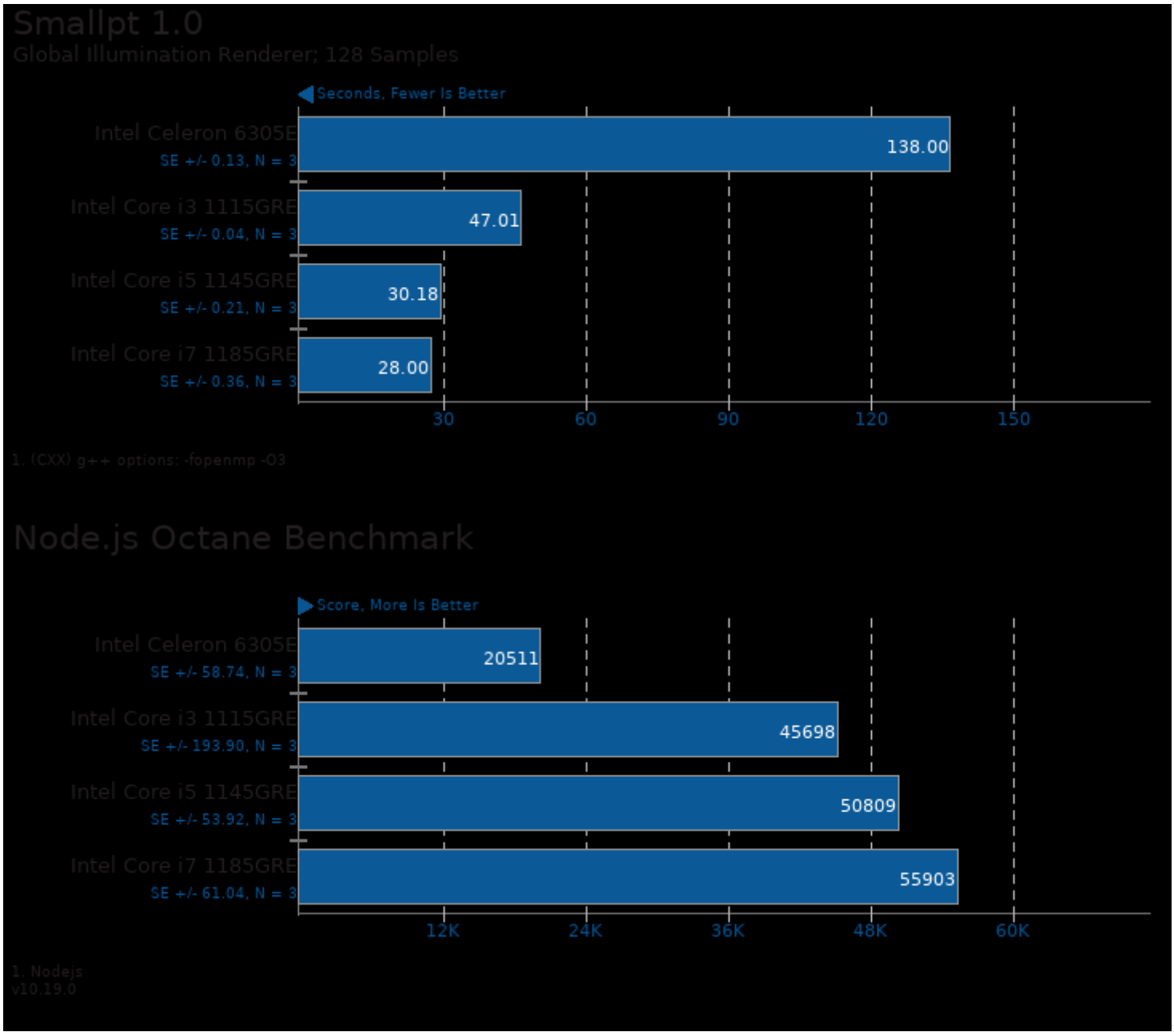


BENCHMARK COMPARISON ON UP XTREME i11

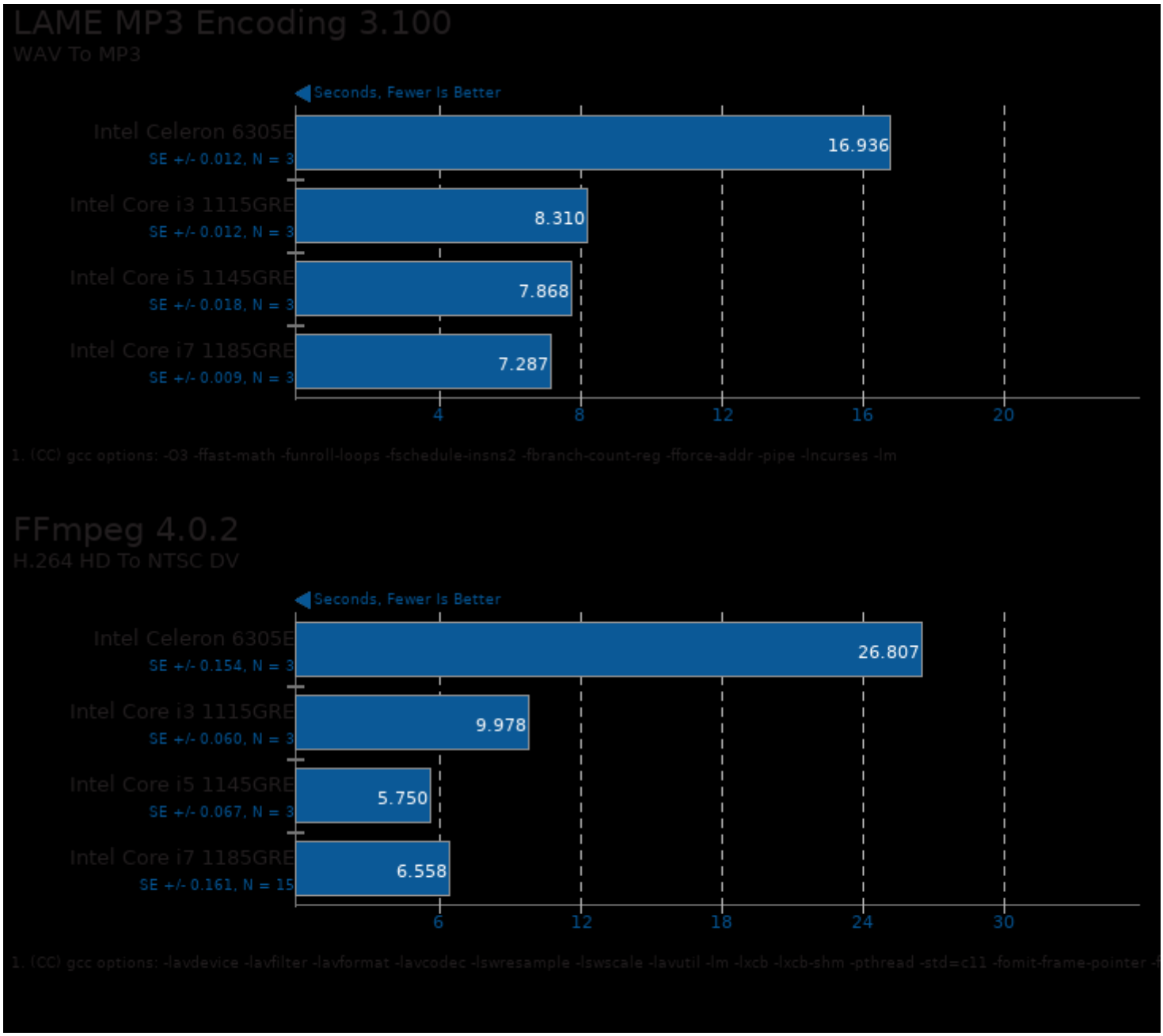



Parallel BZIP2 Compression 1.1.12
256MB File Compression
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 0.341, N = 3
45.667
Intel Core i3 1115GRE
SE +/- 0.182, N = 4
16.239
Intel Core i5 1145GRE
SE +/- 0.080, N = 15
10.964
Intel Core i7 1185GRE
SE +/- 0.191, N = 15
9.890
10
20
30
40
50
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread
Rust Prime Benchmark
Prime Number Test To 200,000,000
Seconds, Fewer Is Better
Intel Celeron 6305E
SE +/- 0.06, N = 3
115.38
Intel Core i3 1115GRE
SE +/- 0.06, N = 3
51.39
Intel Core i5 1145GRE
SE +/- 0.03, N = 3
24.51
Intel Core i7 1185GRE
SE +/- 0.33, N = 3
23.25
30
60
90
120
150
1. (CC) gcc options: -m64 -pie -nodefaultlibs -lgcc_s -lutil -lrt -lpthread -lm -ldl -lc

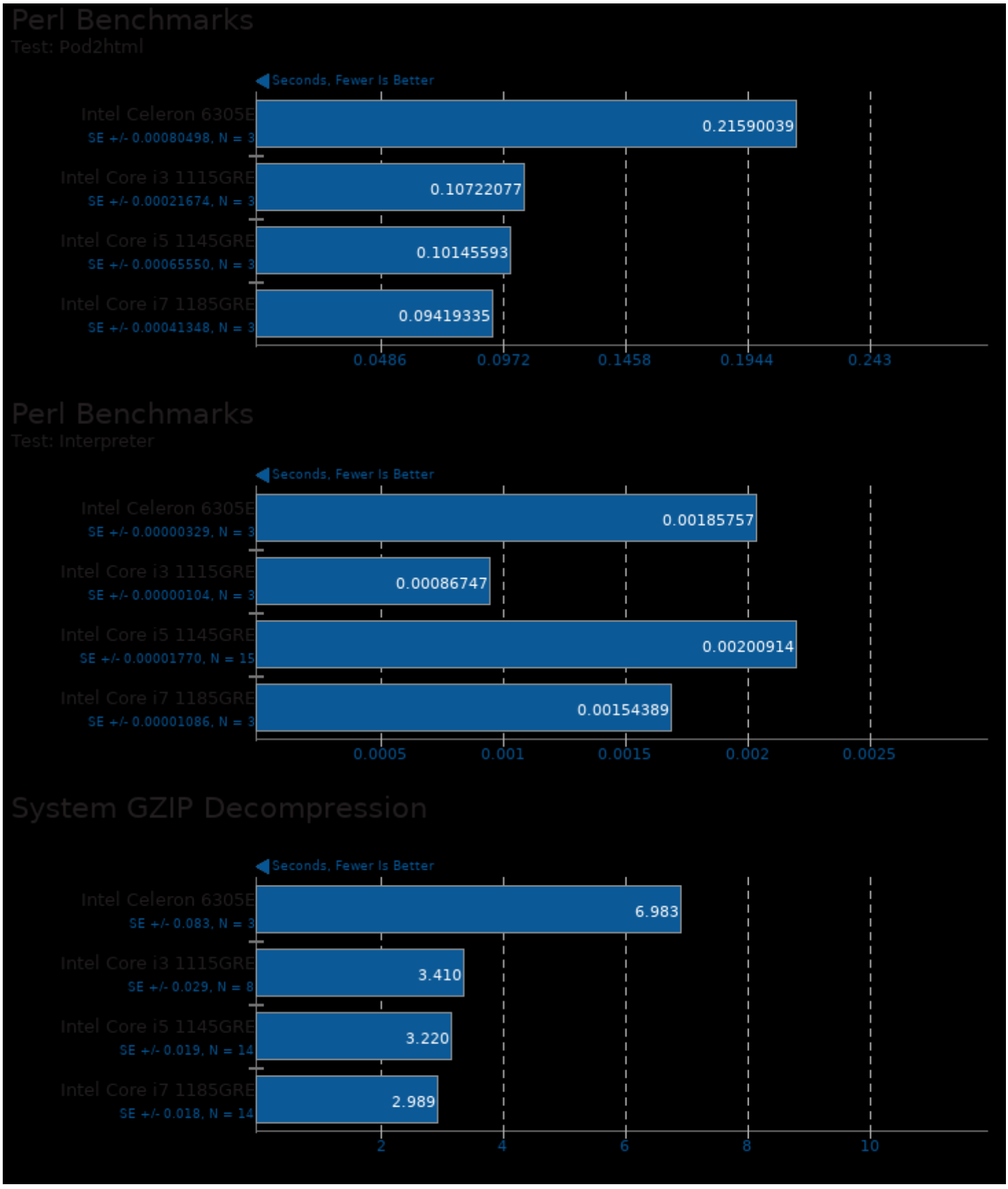
BENCHMARK COMPARISON ON UP XTREME i11



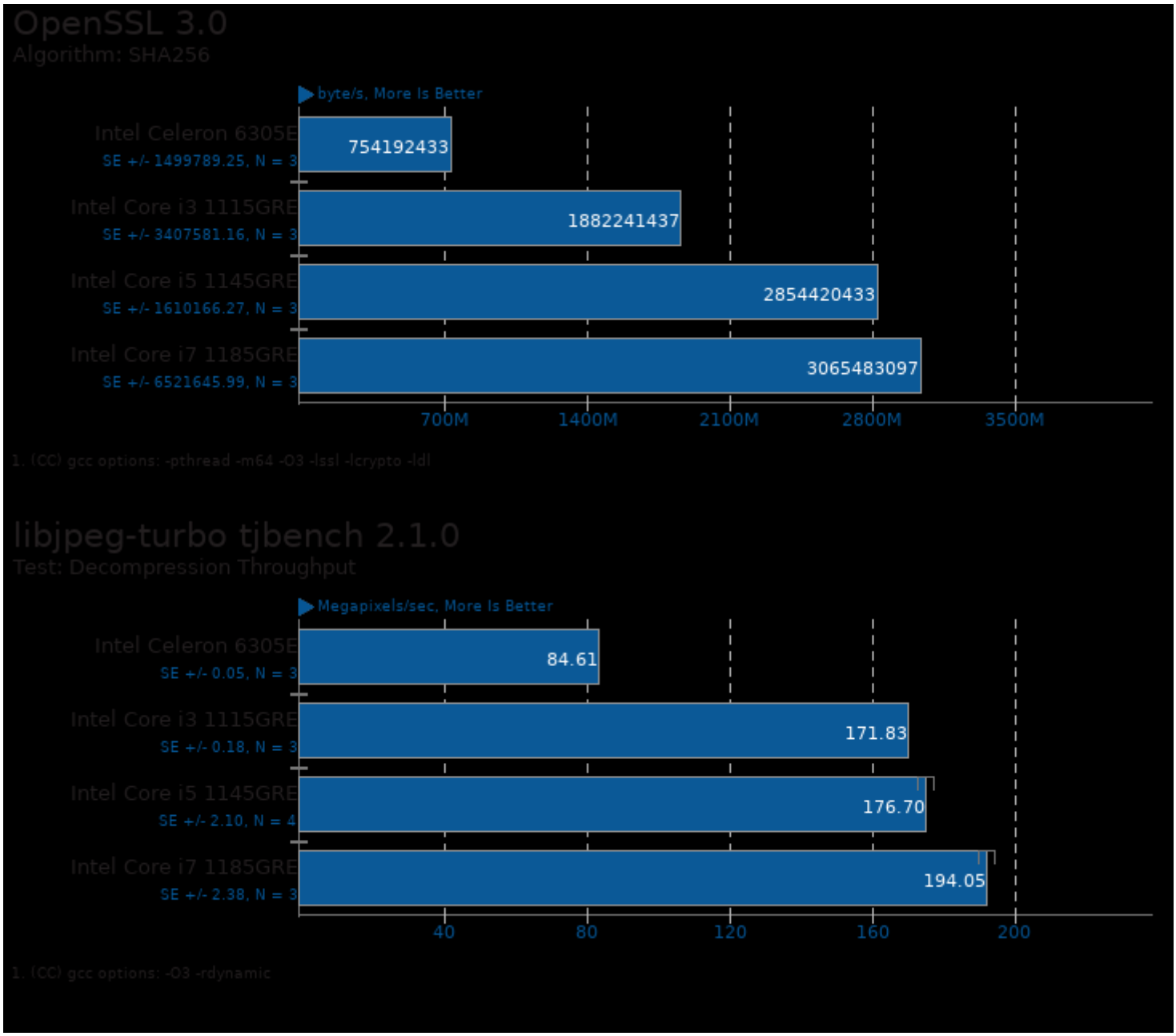
BENCHMARK COMPARISON ON UP XTREME i11



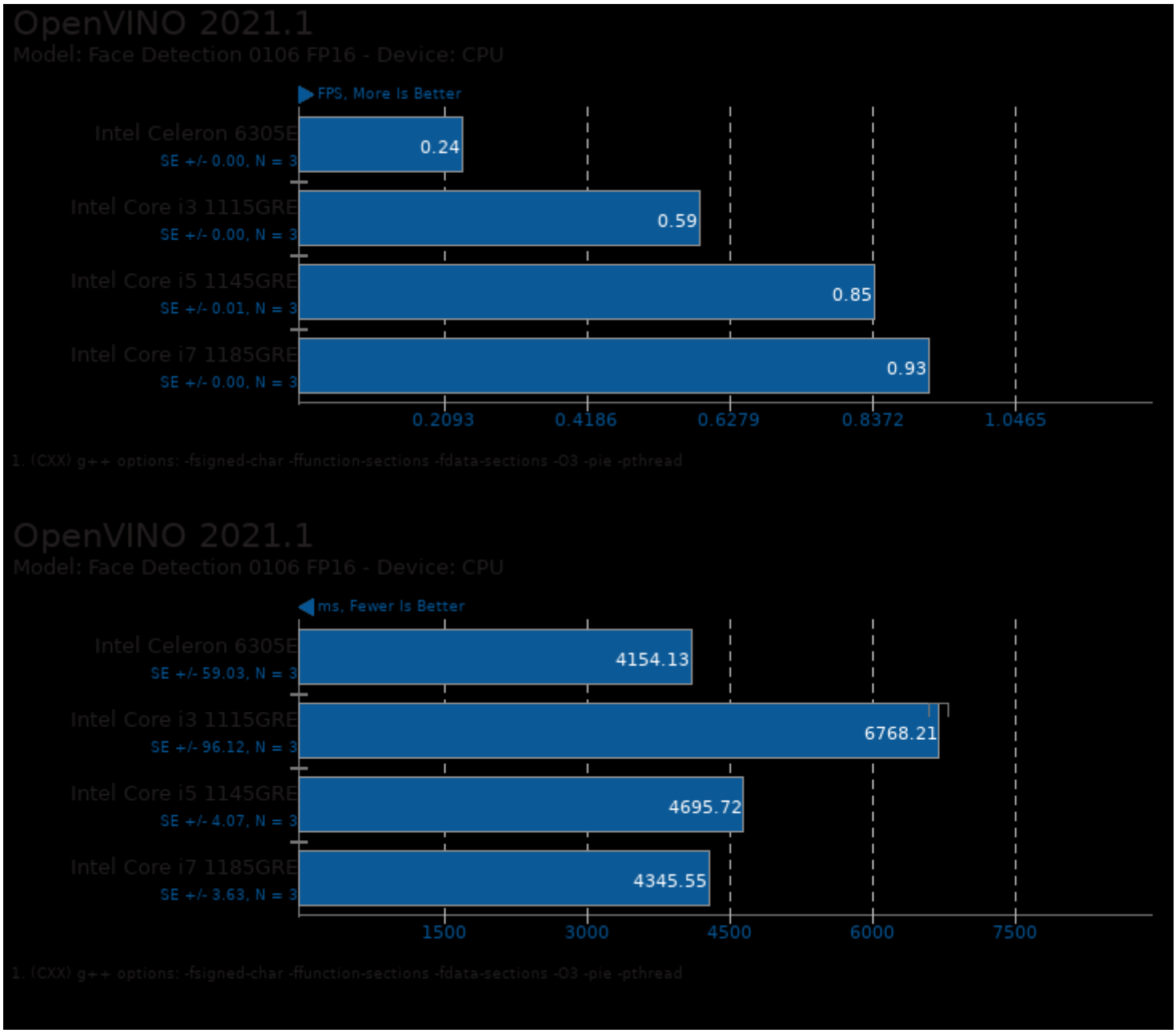
BENCHMARK COMPARISON ON UP XTREME i11



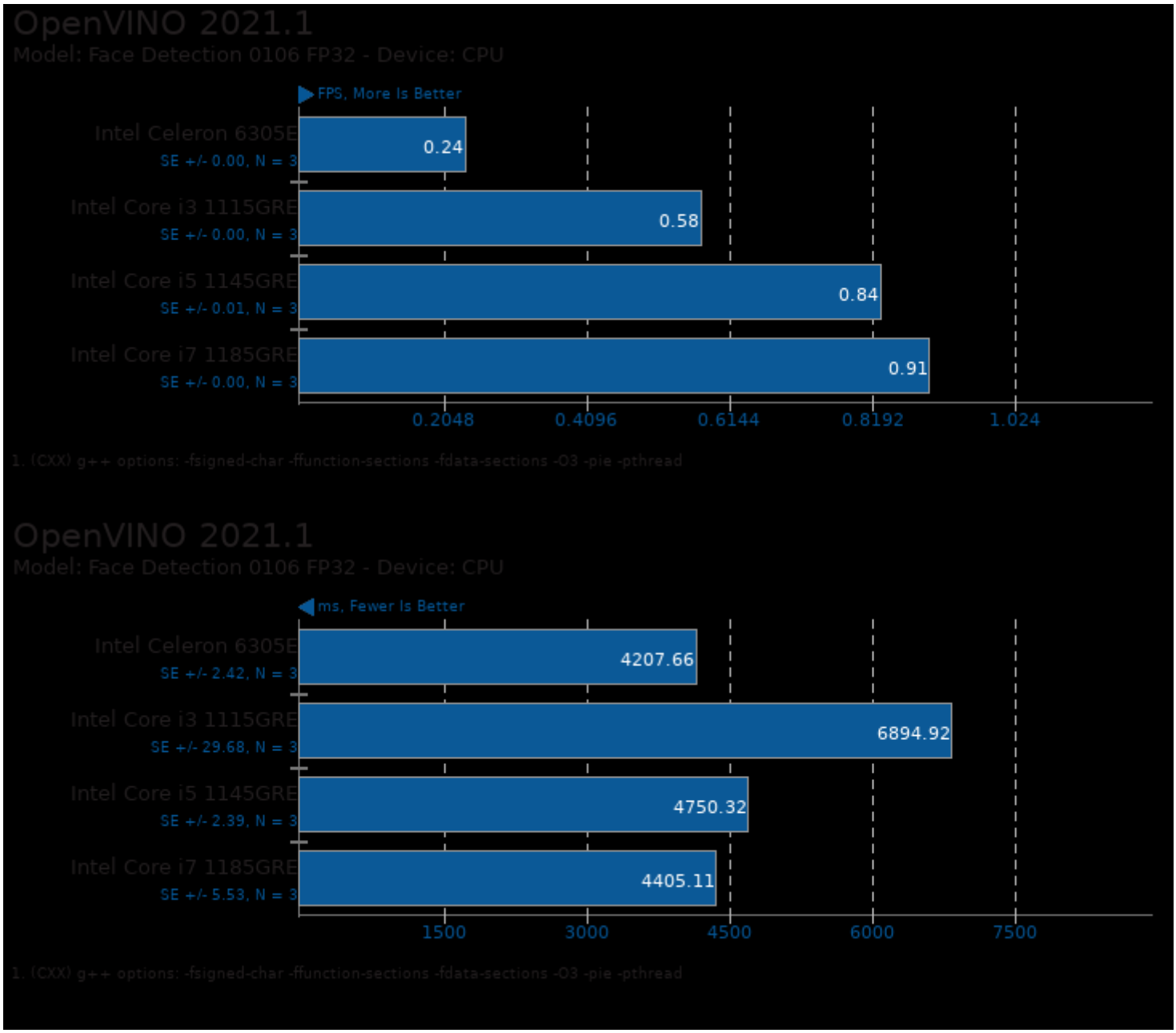
BENCHMARK COMPARISON ON UP XTREME i11



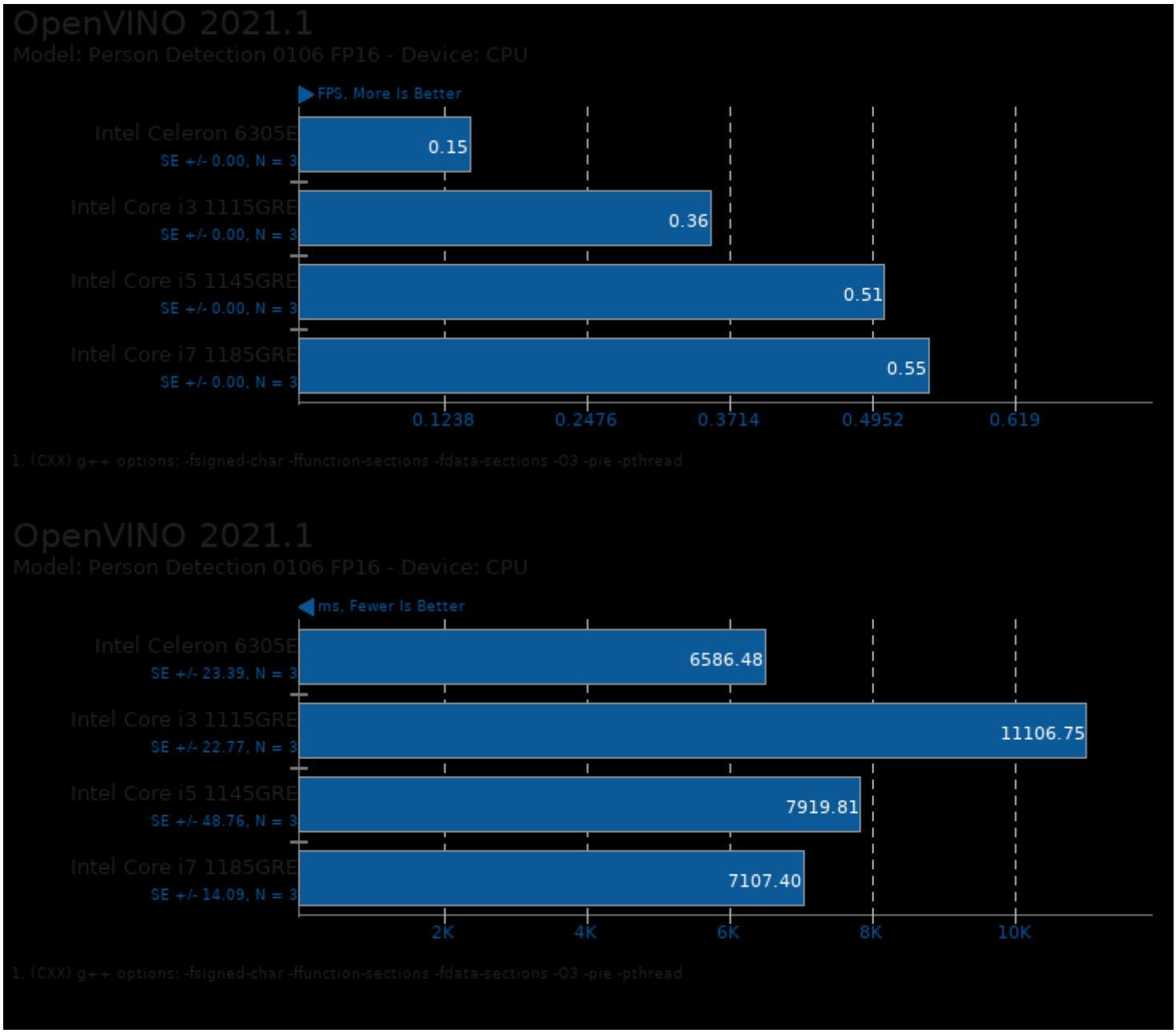
BENCHMARK COMPARISON ON UP XTREME i11



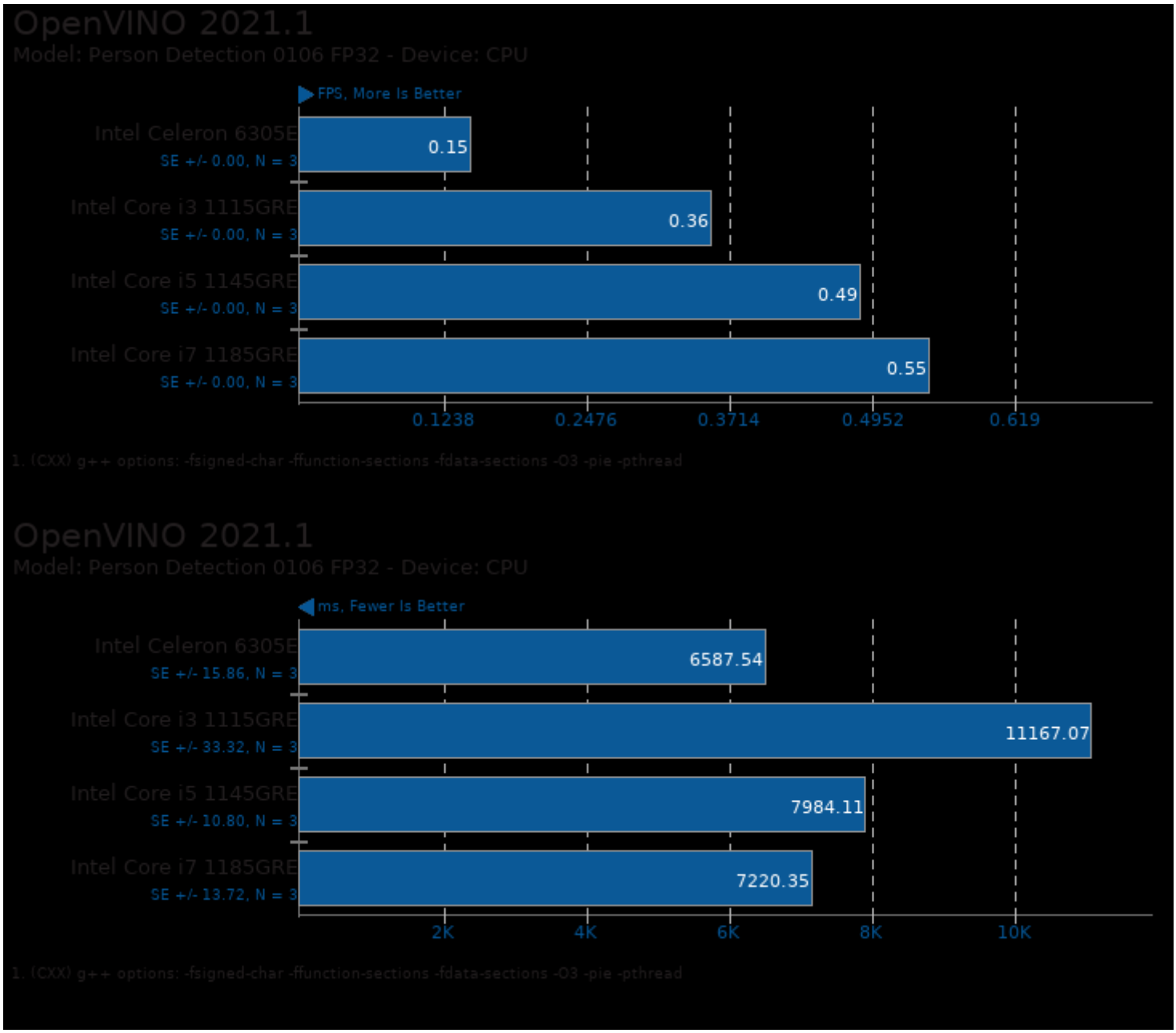
BENCHMARK COMPARISON ON UP XTREME i11

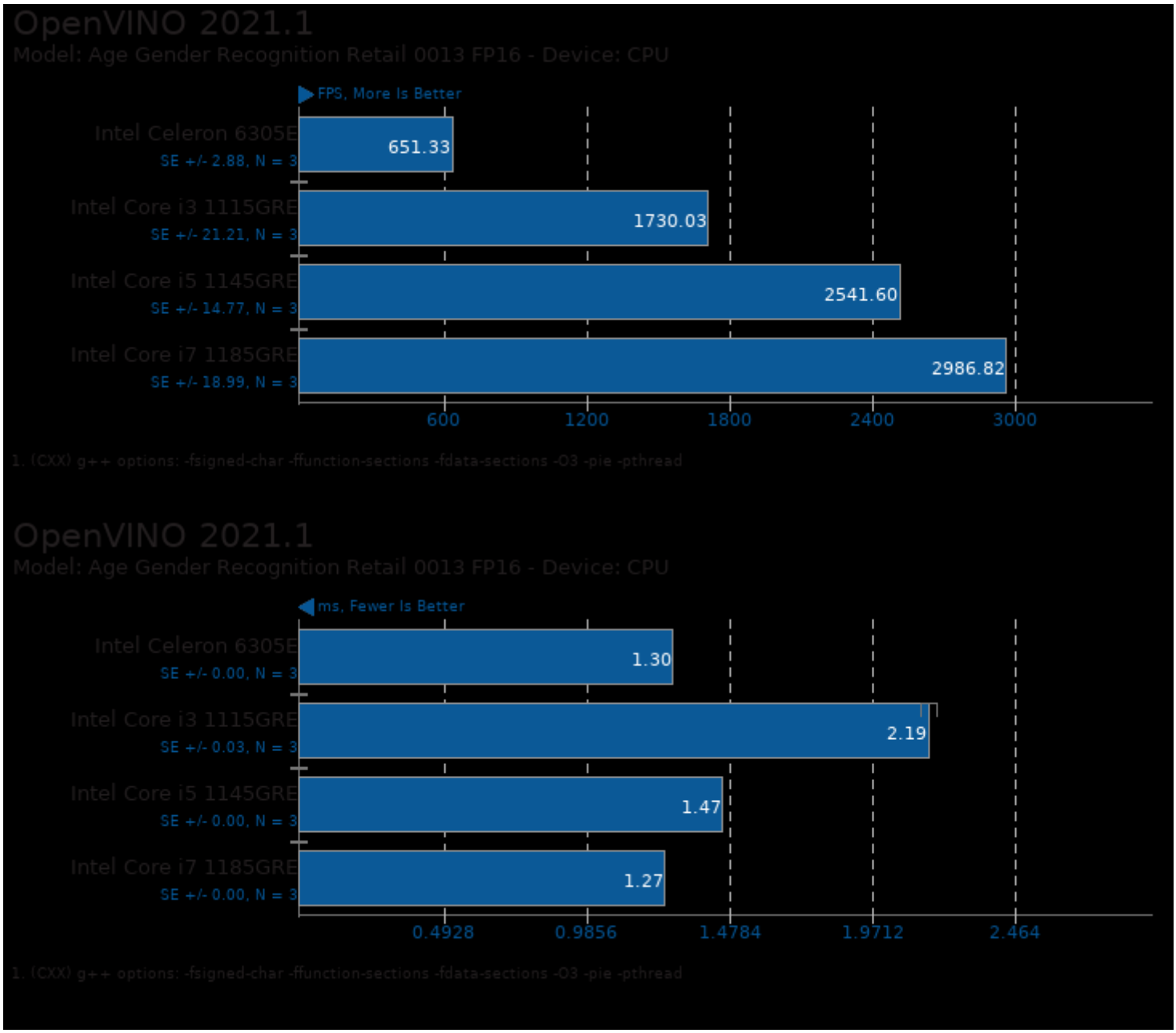


BENCHMARK COMPARISON ON UP XTREME i11

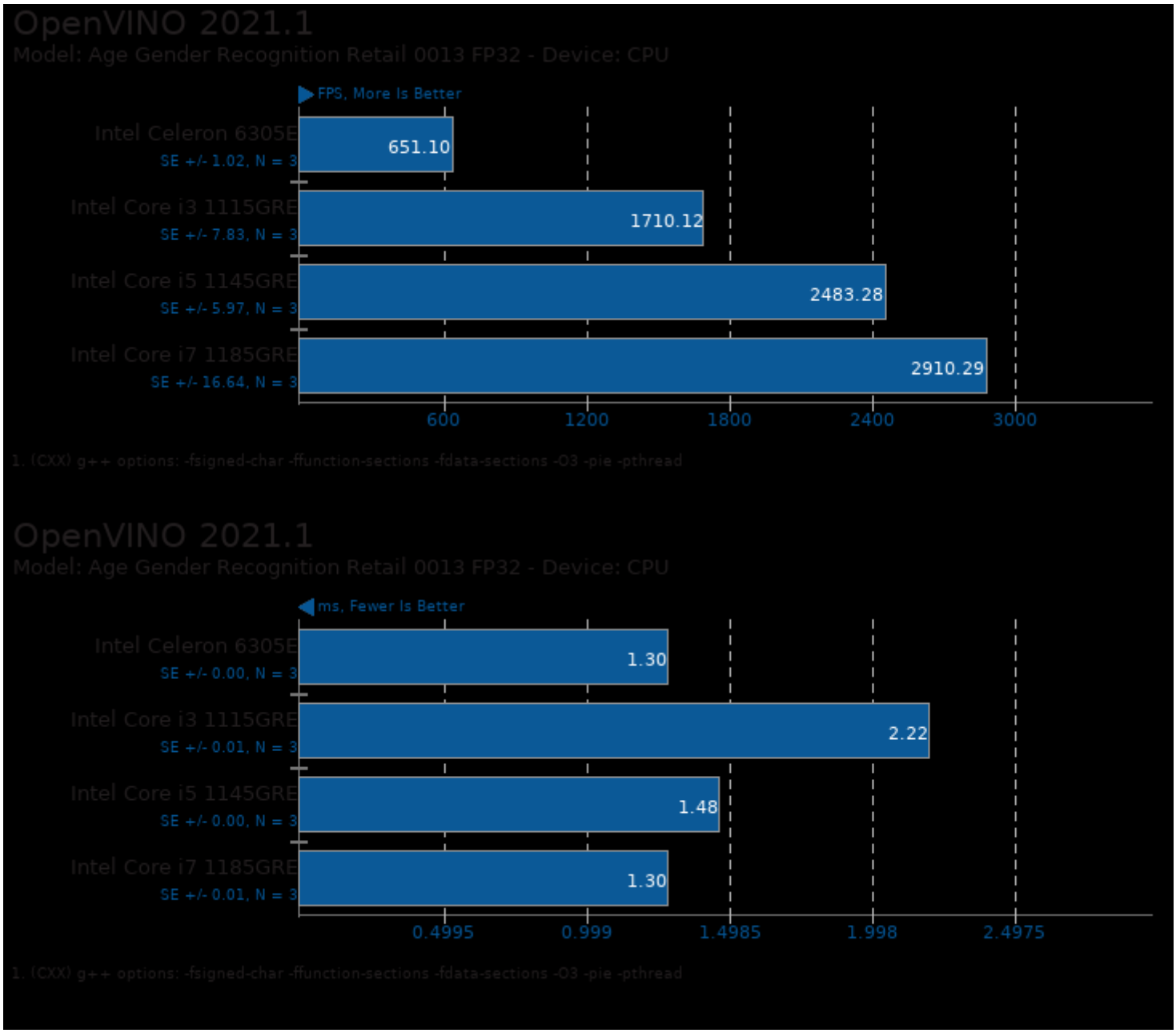


BENCHMARK COMPARISON ON UP XTREME i11

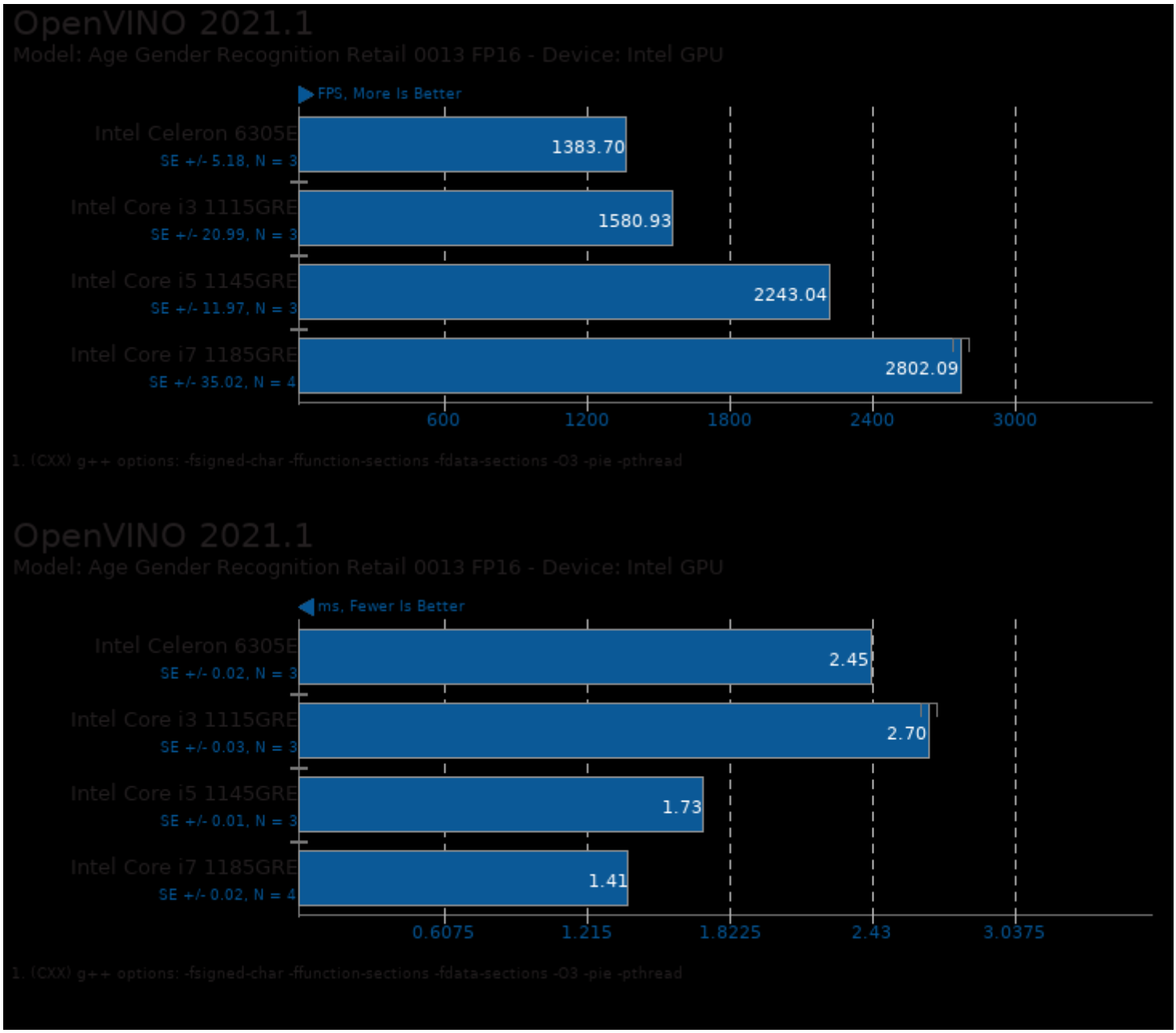



OpenVINO 2021.1
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU
FPS, More Is Better
Intel Celeron 6305E
SE +/- 2.88, N = 3
651.33
Intel Core i3 1115GRE
SE +/- 21.21, N = 3
1730.03
Intel Core i5 1145GRE
SE +/- 14.77, N = 3
2541.60
Intel Core i7 1185GRE
SE +/- 18.99, N = 3
2986.82
600
1200
1800
2400
3000
1. (CXX) g++ options: -fsigned-char -ffunction-sections -fdata-sections -O3 -pie -pthread
OpenVINO 2021.1
Model: Age Gender Recognition Retail 0013 FP16 - Device: CPU
ms, Fewer Is Better
Intel Celeron 6305E
SE +/- 0.00, N = 3
1.30
Intel Core i3 1115GRE
SE +/- 0.03, N = 3
2.19
Intel Core i5 1145GRE
SE +/- 0.00, N = 3
1.47
Intel Core i7 1185GRE
SE +/- 0.00, N = 3
1.27
0.4928
0.9856
1.4784
1.9712
2.464
1. (CXX) g++ options: -fsigned-char -ffunction-sections -fdata-sections -O3 -pie -pthread

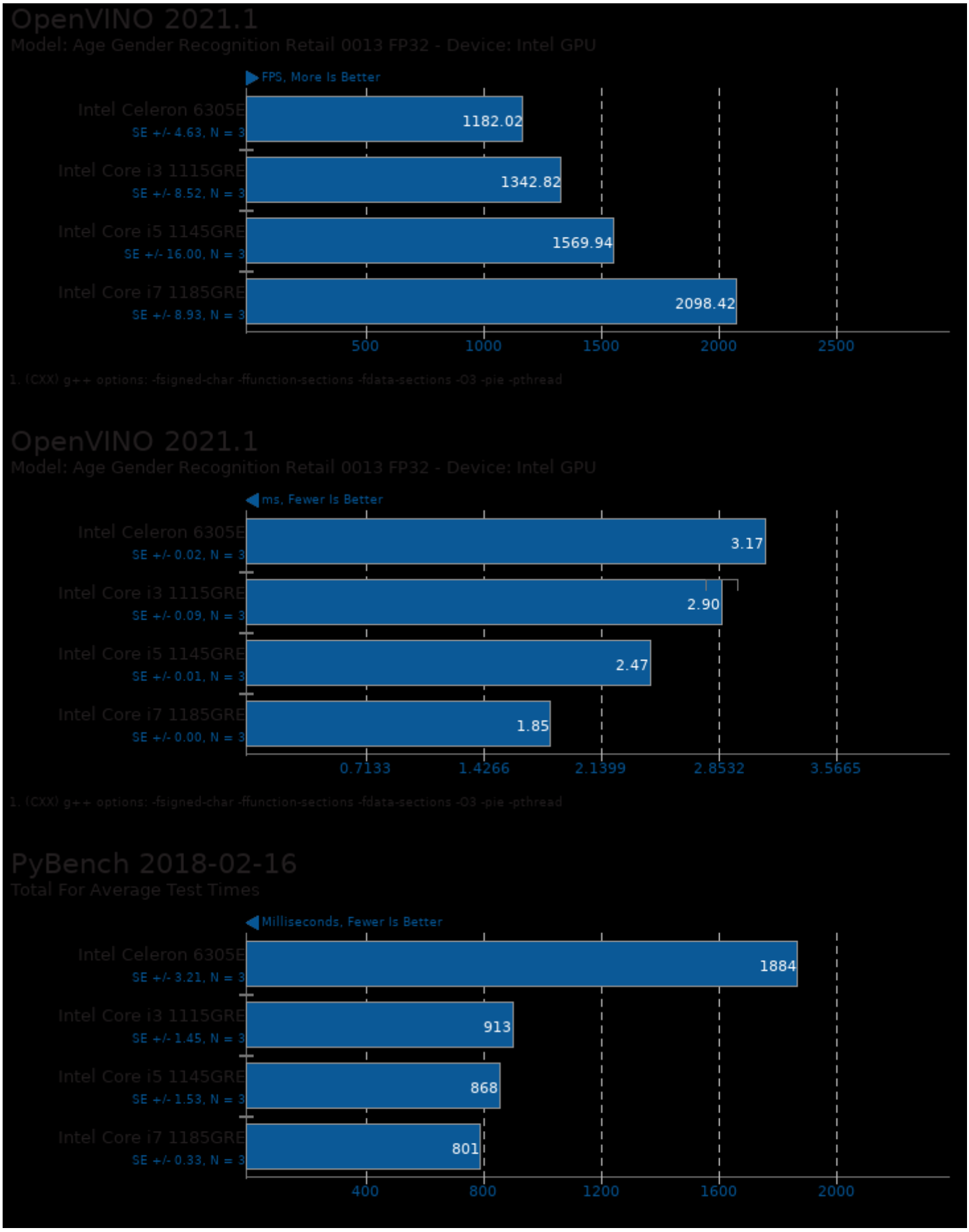
BENCHMARK COMPARISON ON UP XTREME i11



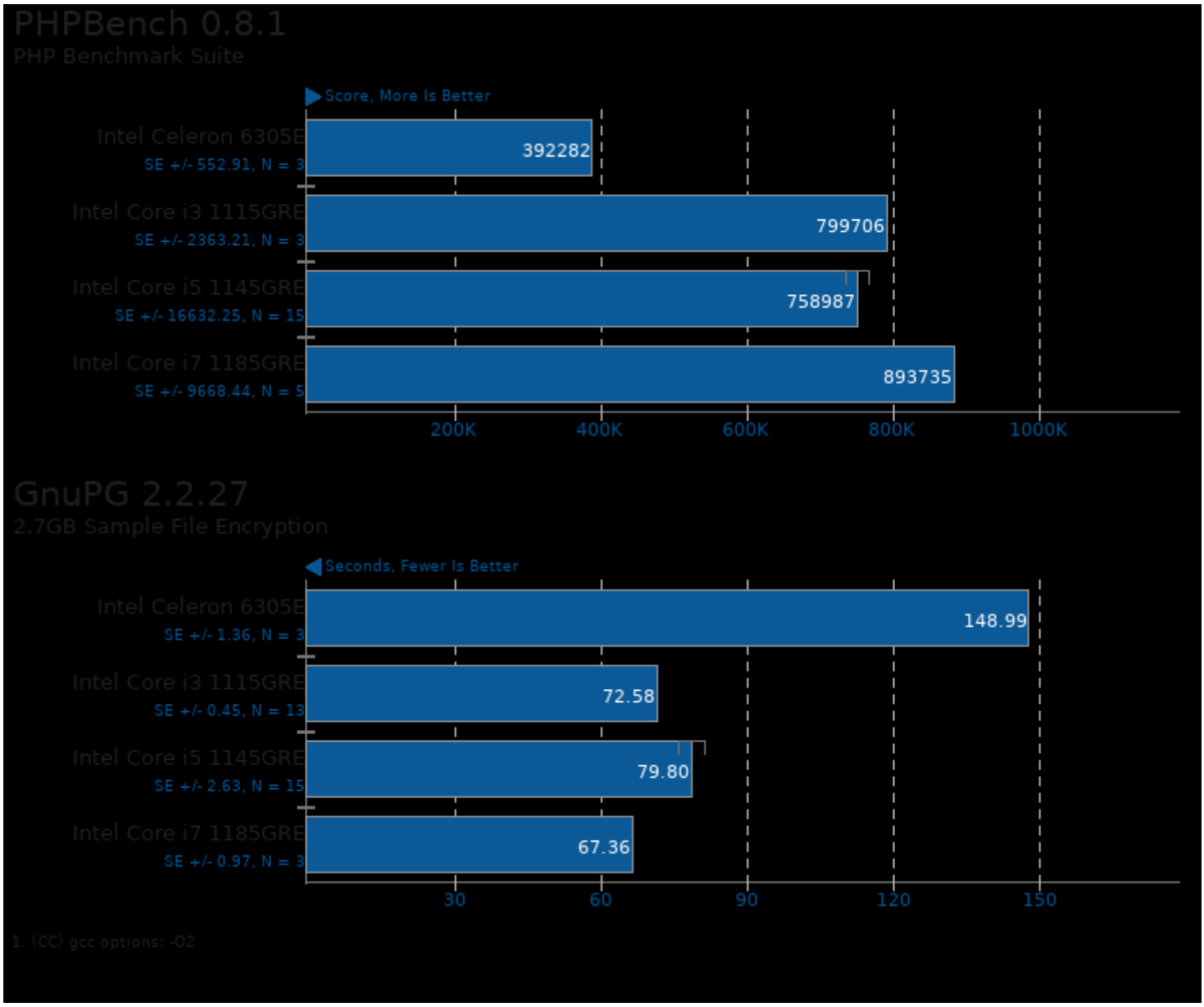
BENCHMARK COMPARISON ON UP XTREME i11



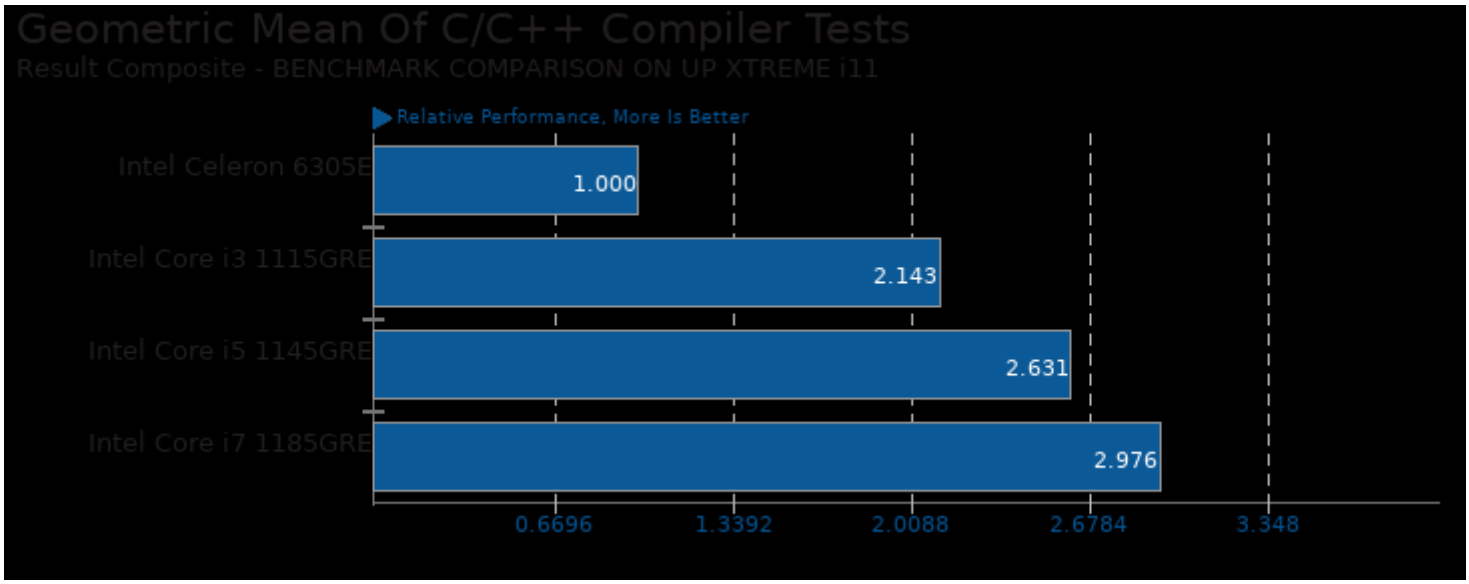
BENCHMARK COMPARISON ON UP XTREME i11



BENCHMARK COMPARISON ON UP XTREME i11



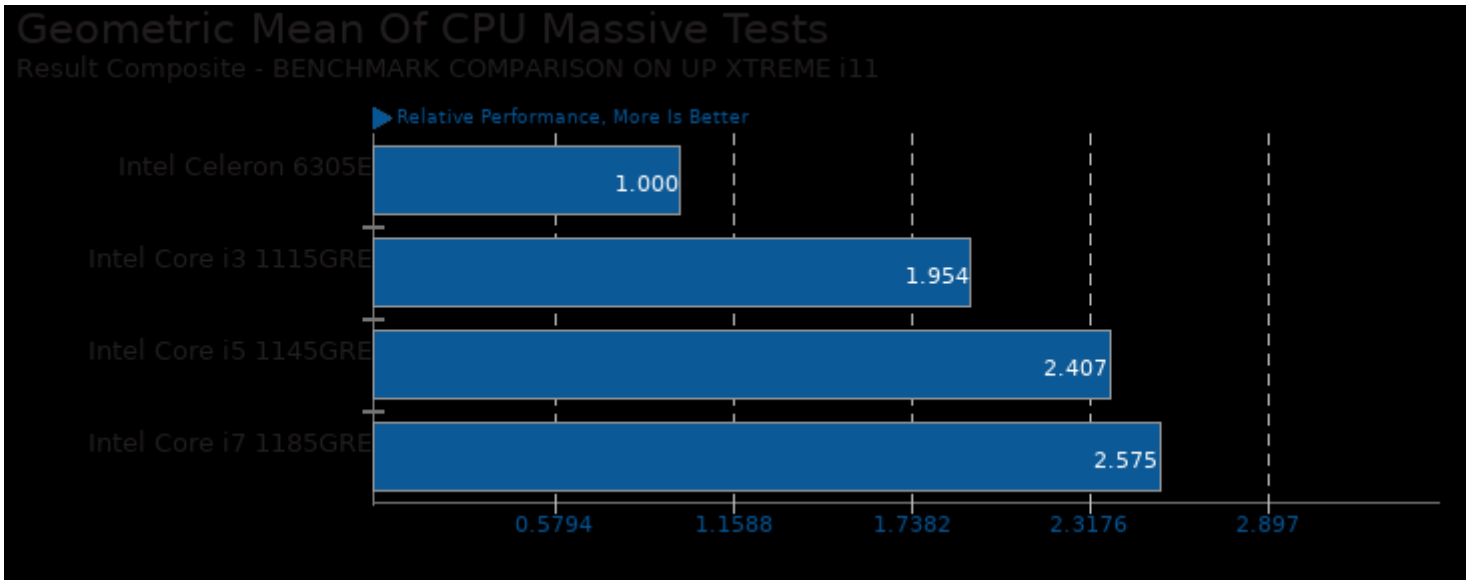
These geometric means are based upon test groupings / test suites for this result file.



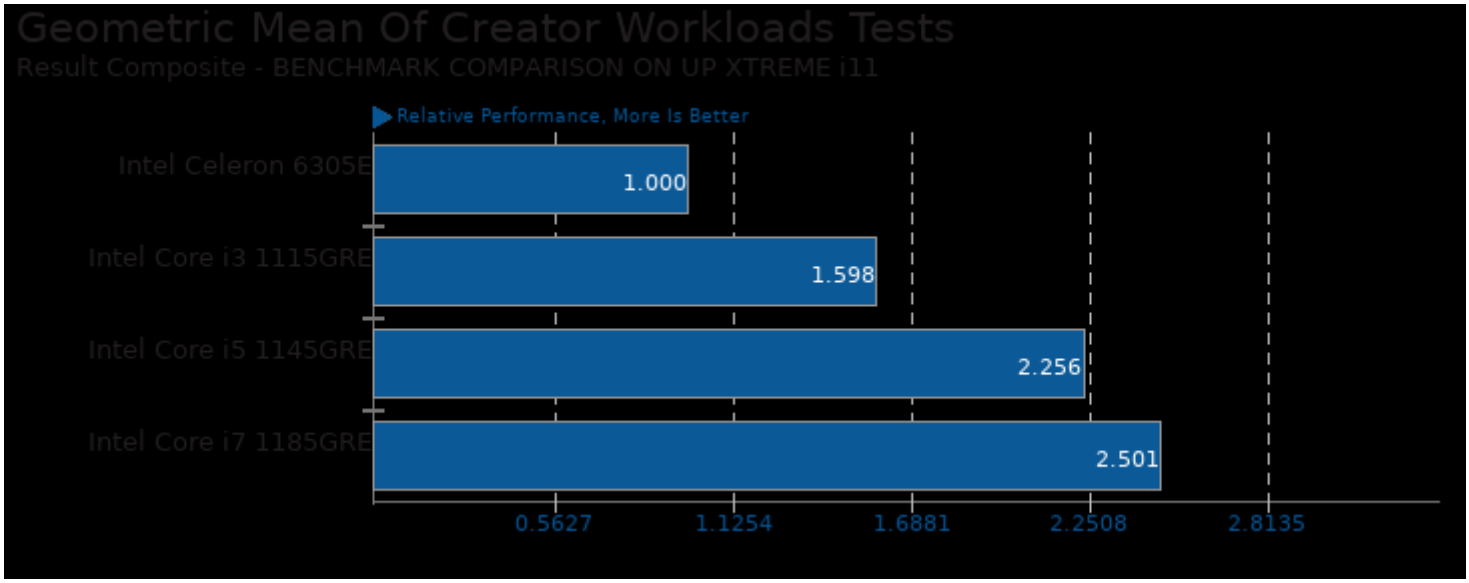
Geometric mean based upon tests: pts/scimark2, pts/graphics-magick, pts/c-ray, pts/encode-mp3, pts/x264 and pts/openssl



Geometric mean based upon tests: pts/compress-pbzip2 and pts/system-decompress-gzip

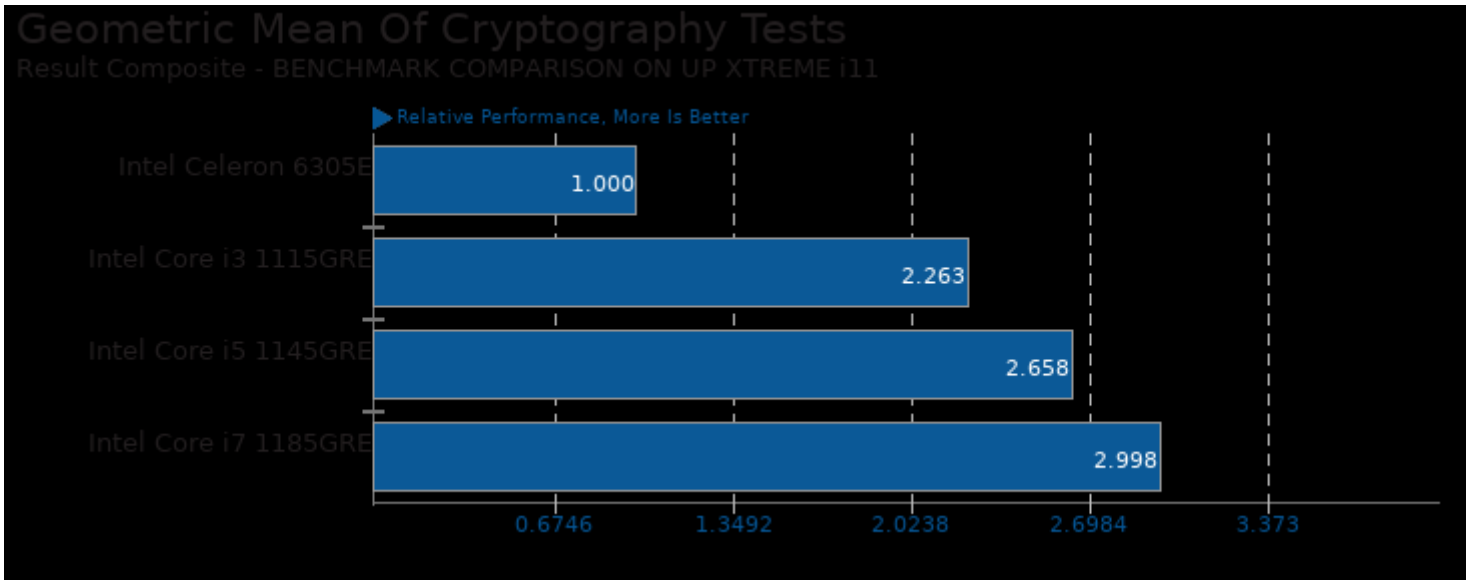


Geometric mean based upon tests: pts/c-ray, pts/compress-pbzip2, pts/x264, pts/encode-mp3, pts/go-benchmark, pts/graphics-magick, pts/java-scimark2, pts/openssl, pts/phpbench, pts/rust-prime, pts/stream and pts/tjbench

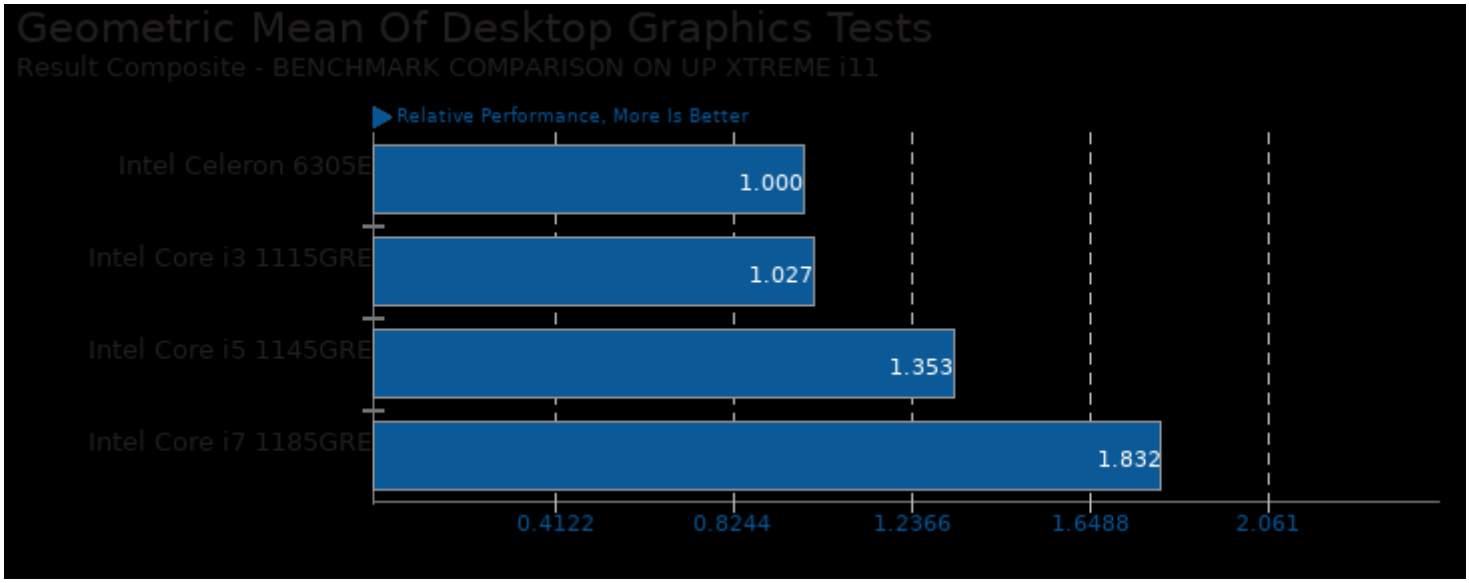


Geometric mean based upon tests: pts/c-ray, pts/smallpt, pts/x264, pts/ffmpeg, pts/encode-mp3, pts/graphics-magick, pts/tjbench and pts/openvino

BENCHMARK COMPARISON ON UP XTREME i11

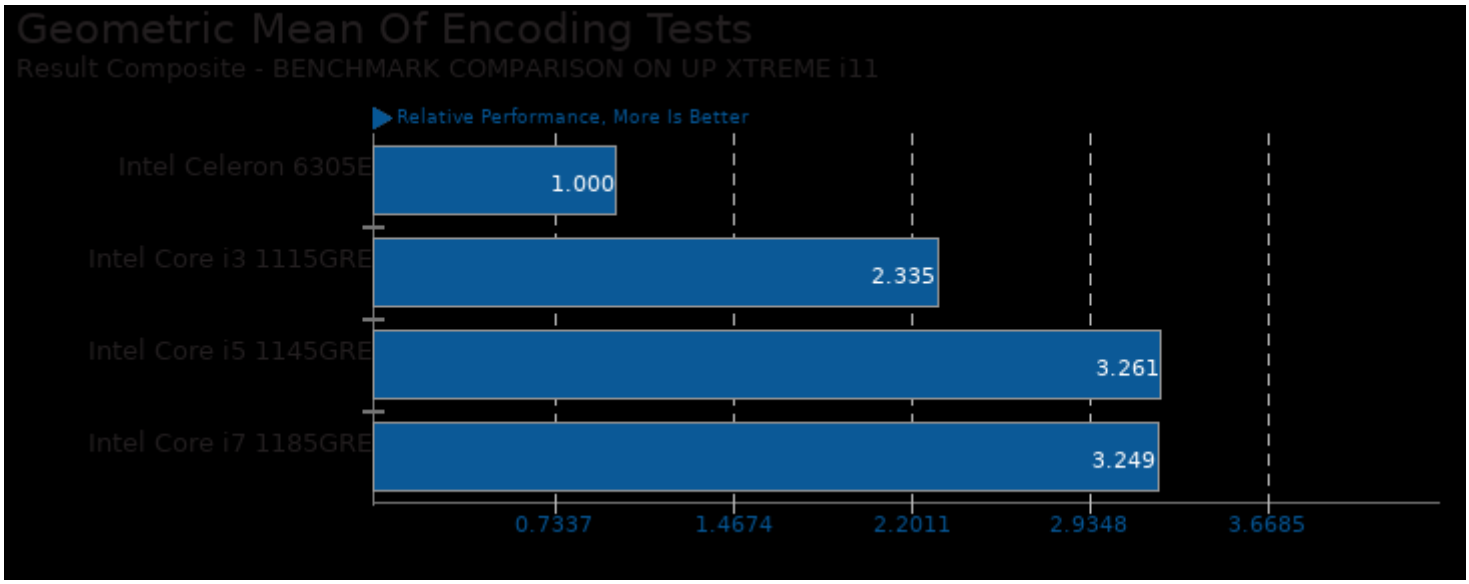


Geometric mean based upon tests: pts/gnupg and pts/openssl

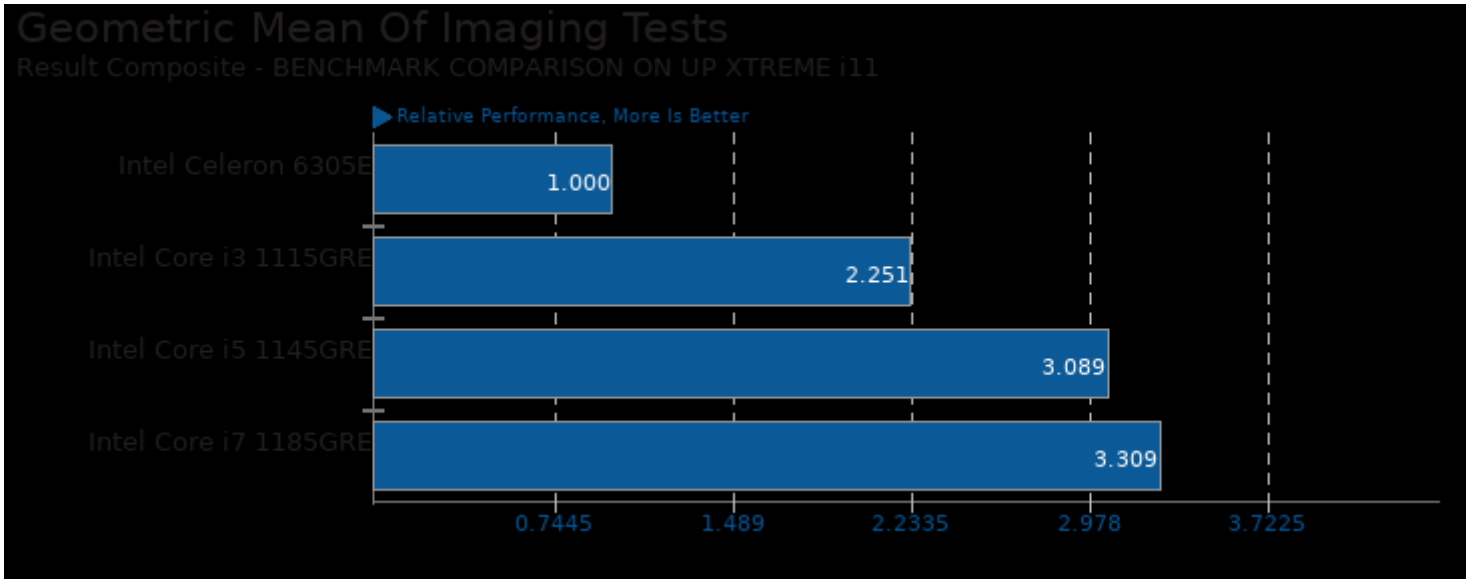


Geometric mean based upon tests: pts/unigine-valley and pts/unigine-heaven

BENCHMARK COMPARISON ON UP XTREME i11

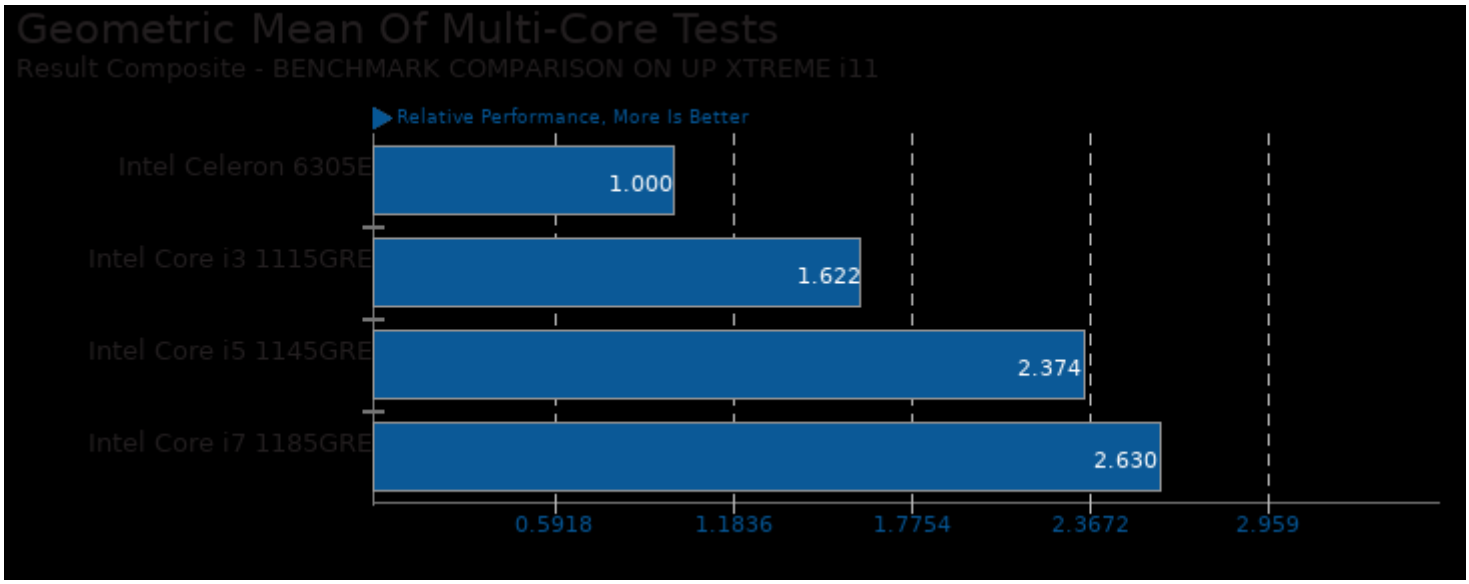


Geometric mean based upon tests: pts/encode-mp3, pts/x264 and pts/ffmpeg

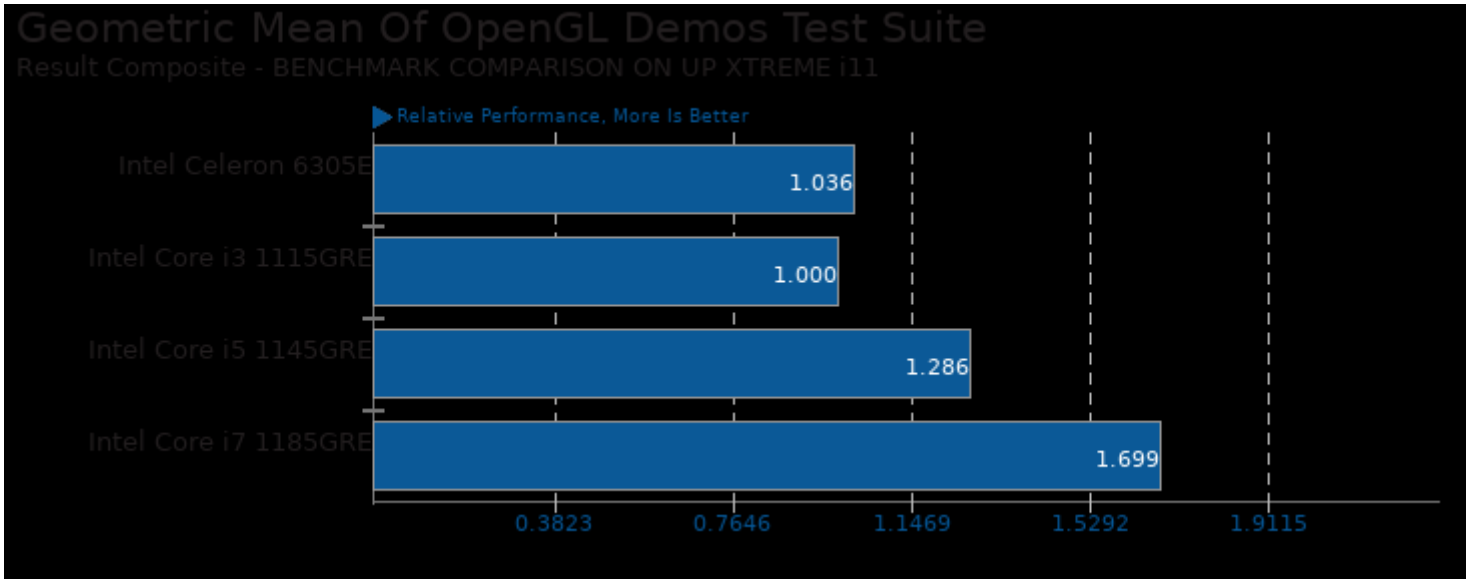


Geometric mean based upon tests: pts/graphics-magick and pts/tjbench

BENCHMARK COMPARISON ON UP XTREME i11

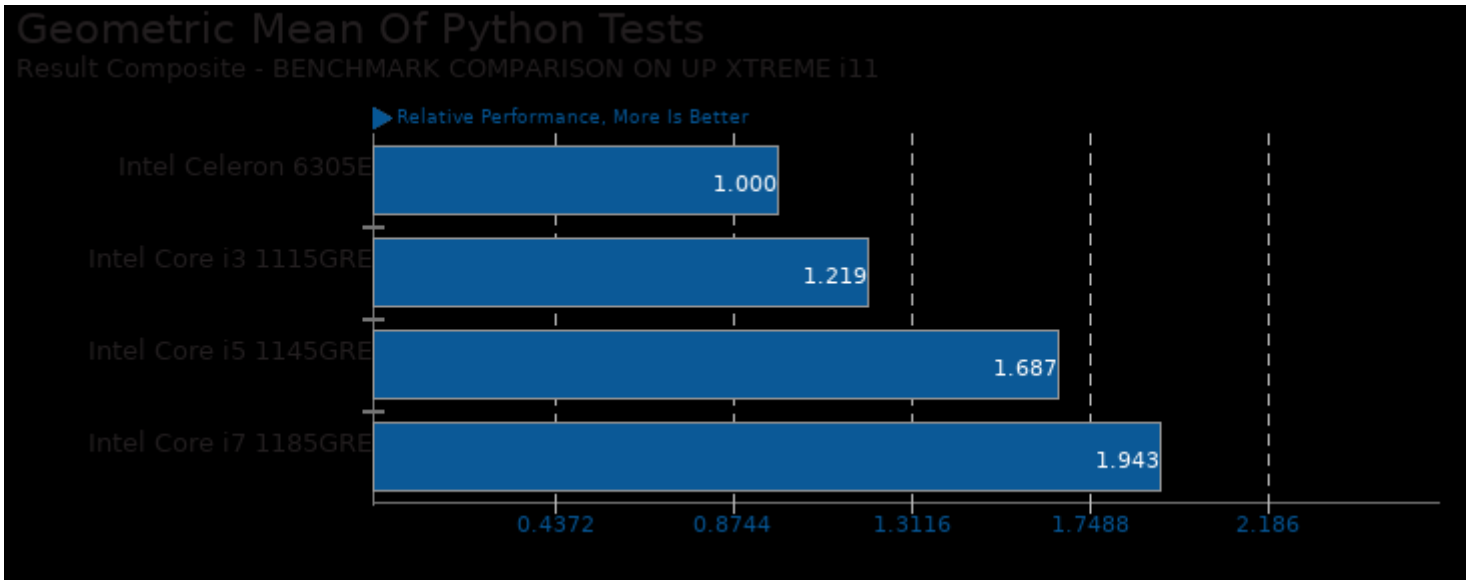


Geometric mean based upon tests: pts/c-ray, pts/x264, pts/ffmpeg, pts/smallpt, pts/graphics-magick, pts/compress-pbzip2, pts/rust-prime and pts/openvino

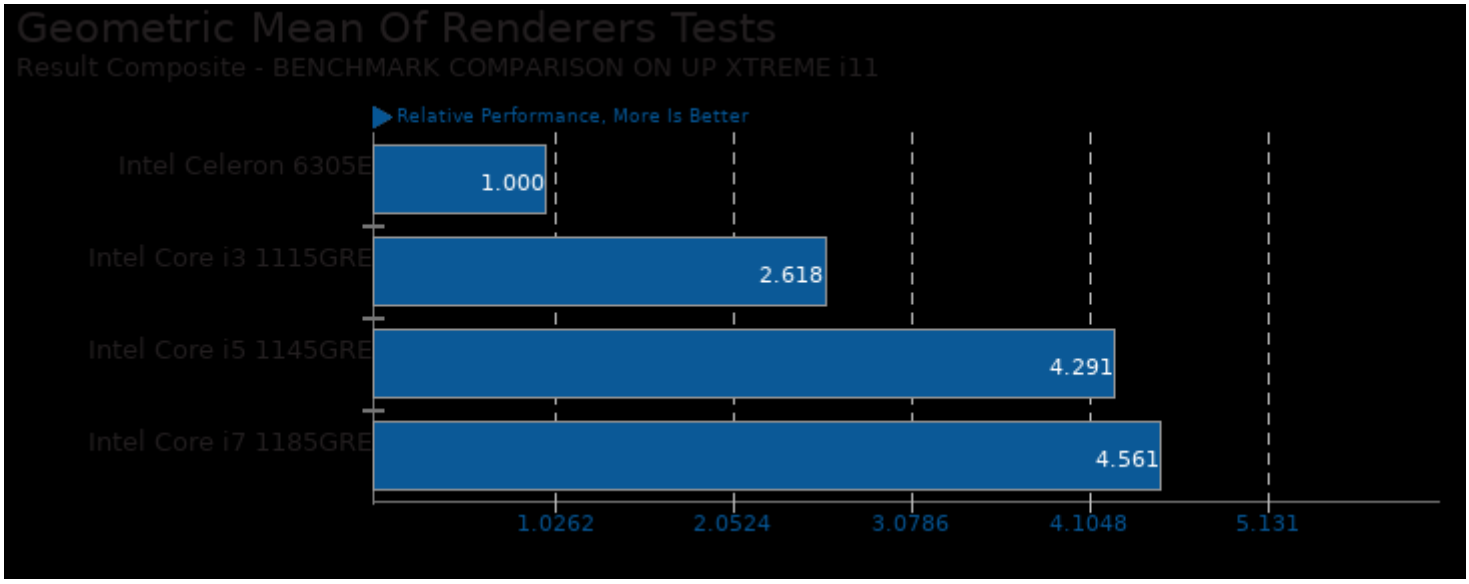


Geometric mean based upon tests: pts/unigine-valley, pts/unigine-heaven, pts/unigine-sanctuary, pts/unigine-tropics and pts/unigine-super

BENCHMARK COMPARISON ON UP XTREME i11

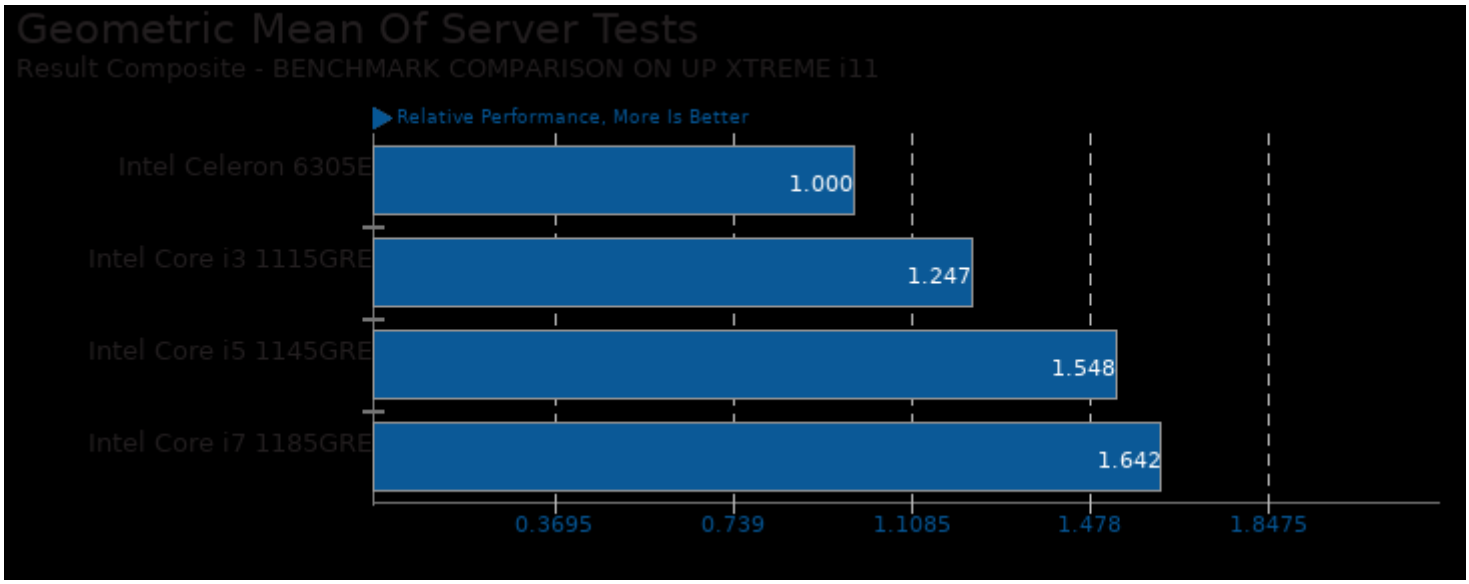


Geometric mean based upon tests: pts/openvino and pts/pybench

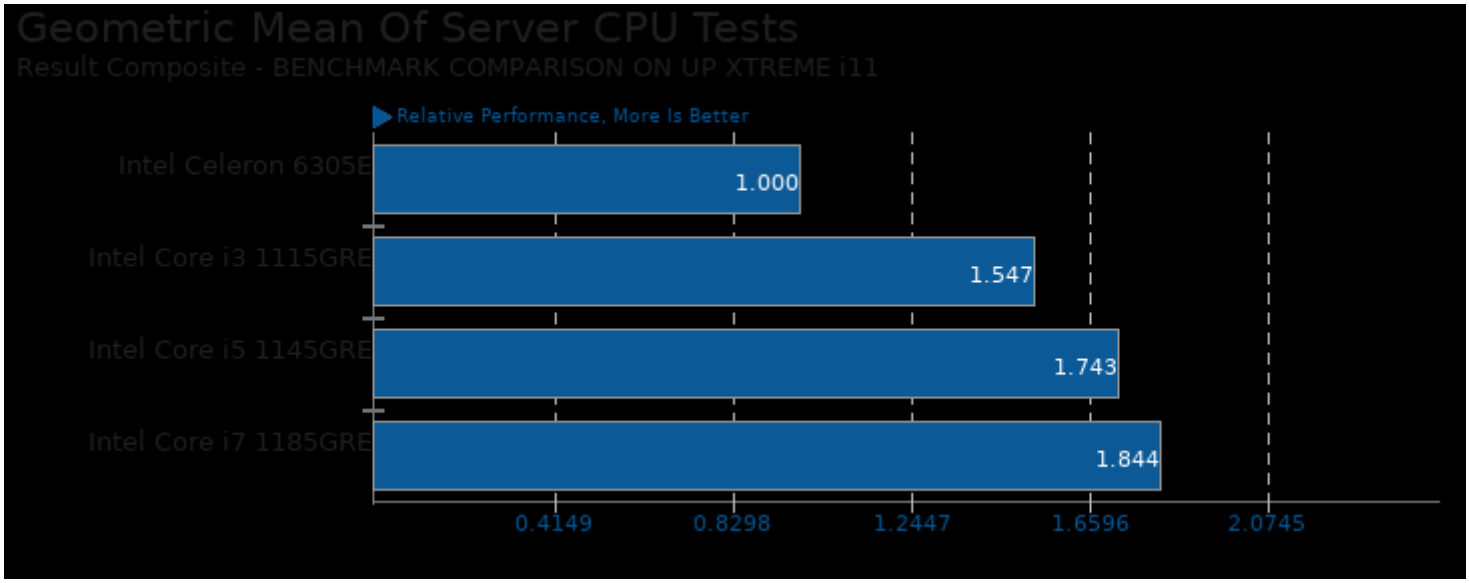


Geometric mean based upon tests: pts/c-ray and pts/smallpt

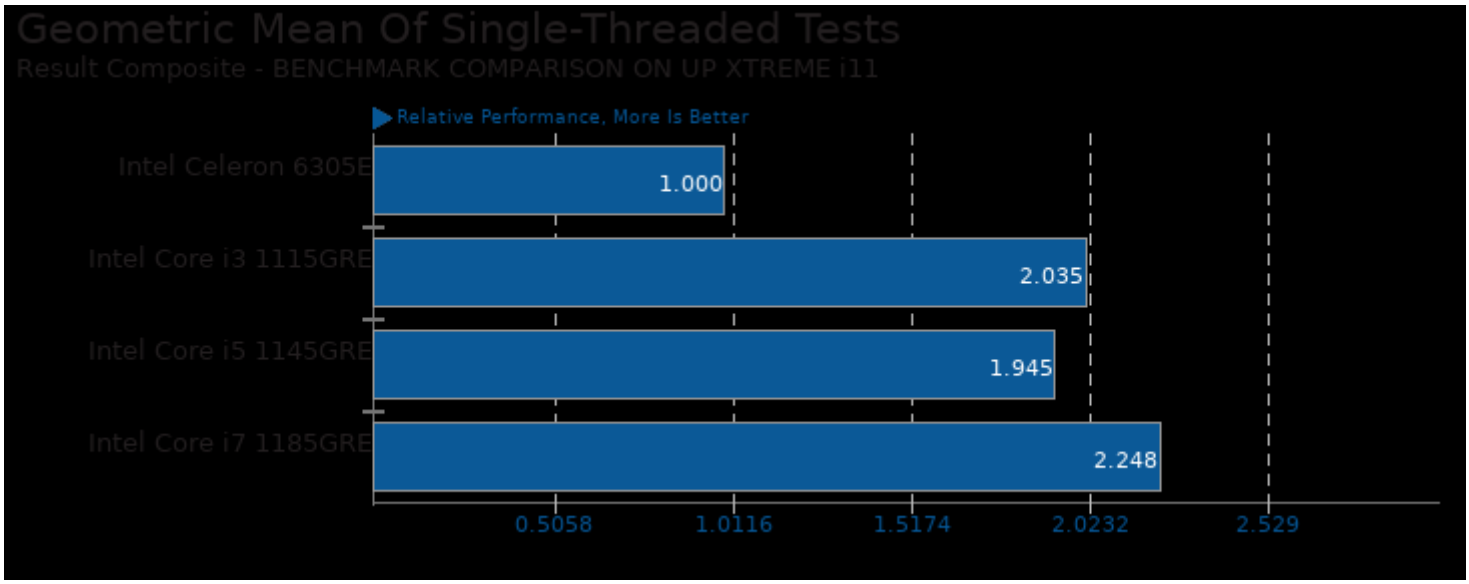
BENCHMARK COMPARISON ON UP XTREME i11



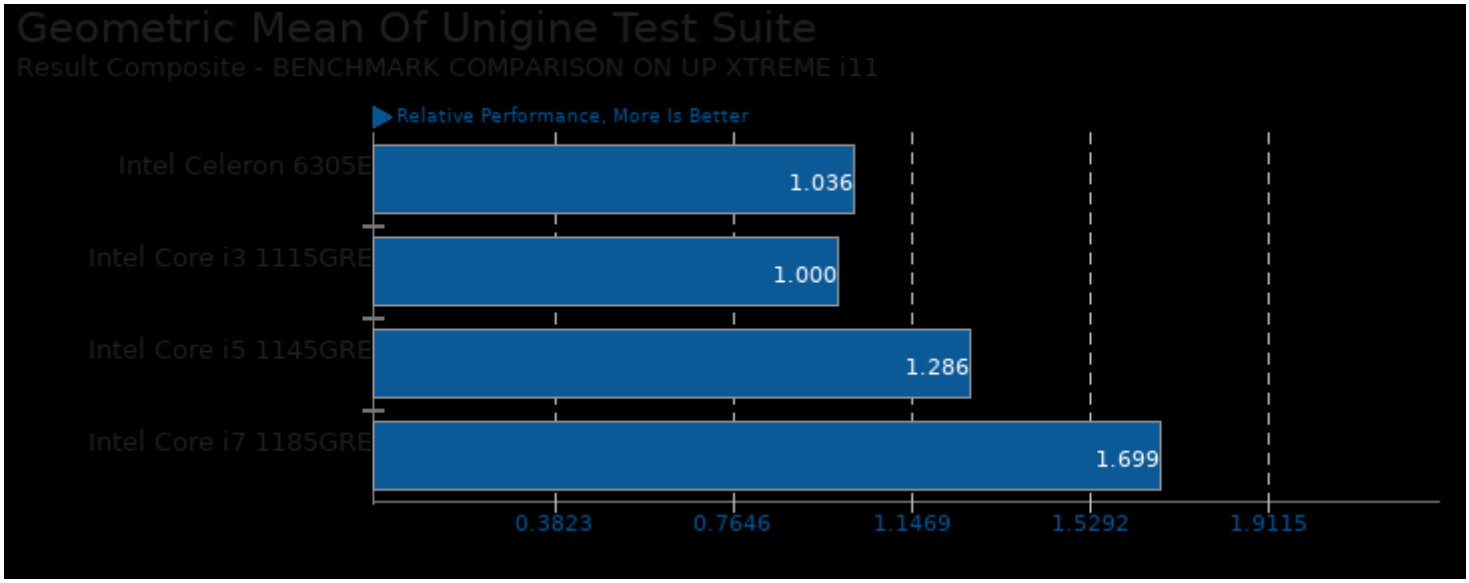
Geometric mean based upon tests: pts/phpbench, pts/openssl, pts/perl-benchmark and pts/sqlite



Geometric mean based upon tests: pts/x264, pts/c-ray, pts/openssl, pts/tjbench, pts/pybench, pts/phpbench and pts/stream

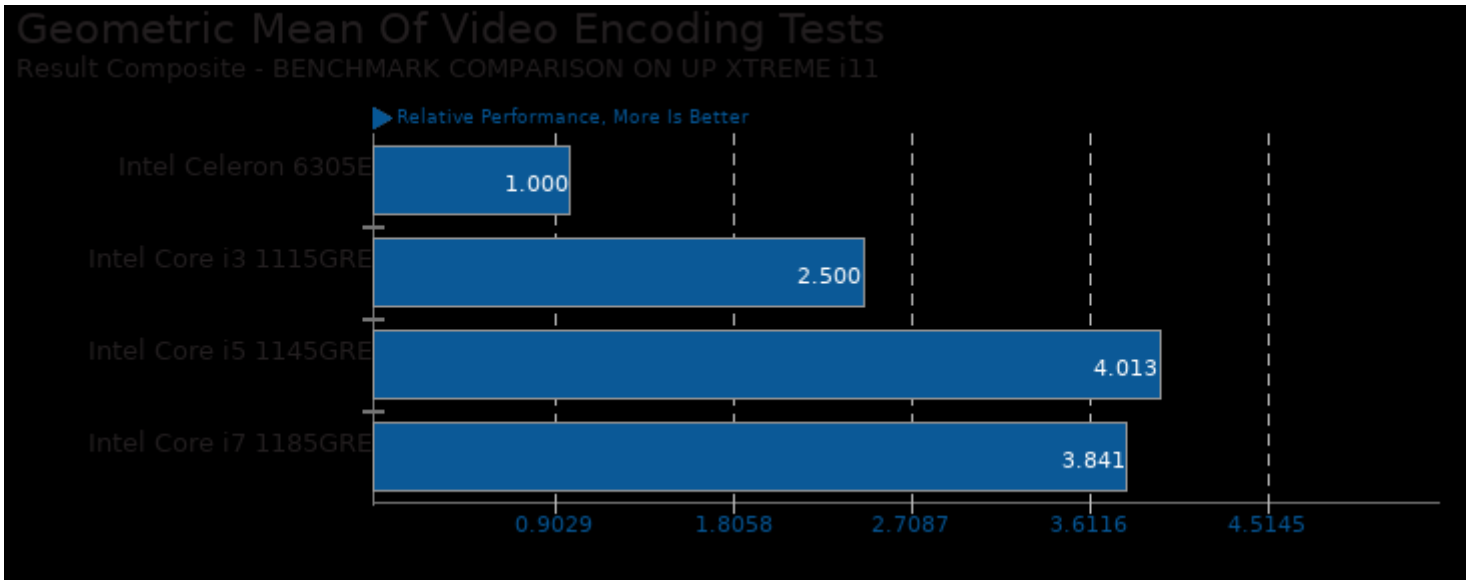


Geometric mean based upon tests: pts/java-scimark2, pts/scimark2, pts/node-octane, pts/encode-mp3, pts/gnupg, pts/perl-benchmark, pts/tjbench, pts/pybench and pts/phpbench



Geometric mean based upon tests: pts/unigine-valley, pts/unigine-heaven, pts/unigine-sanctuary, pts/unigine-tropics and pts/unigine-super

BENCHMARK COMPARISON ON UP XTREME i11



Geometric mean based upon tests: pts/x264 and pts/ffmpeg

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:22.