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Running pts/aobench-1.0.1 via the Phoronix Test Suite.

Test Systems:

RAM Performance Test

PostMark Test

Dolfyn Test

FFTE Test

Webp Image Test

GraphicsMagick Test

Coremark Test

Processor: Unknown (2 Cores), Memory: 8192MB, Disk: 32GB SC32G, Monitor: DELL U2312HM

OS: Fedora 33, Kernel: 5.15.10+ (riscv64), Desktop: Xfce, Compiler: Clang 11.0.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=riscv64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-abi=lp64d --with-arch=rv64gc --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-multilib-list=lp64d

AO Bench Test

Processor: Unknown (2 Cores), Memory: 8192MB, Disk: 32GB SC32G, Monitor: Acer K202HQLA

OS: Fedora 33, Kernel: 5.15.10+ (riscv64), Desktop: Xfce, Compiler: Clang 11.0.0, File-System: ext4, Screen Resolution: 1366x768

Compiler Notes: --build=riscv64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-abi=lp64d --with-arch=rv64gc --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-multilib-list=lp64d

	RAM Performance Test	PostMark Test	Dolfyn Test	FFTE Test	Webp Image Test	GraphicsMagick Test	Coremark Test	AO Bench Test
RAMspeed SMP - Copy - Integer (MB/s)	462.62							
Standard Deviation	0.1%							
PostMark - D.T.P (TPS)		216						
Standard Deviation		1.2%						
Dolfyn - C.F.D (sec)			740.55					
Standard Deviation			0.4%					
FFTE - N.2.3.C.F.R (MFLOPS)				424.37				
Standard Deviation				0.4%				
WebP Image Encode - Default (MP/s)					**38.74**			
Normalized					97.61%			
Standard Deviation					0.3%			
WebP Image Encode - Quality 100 (MP/s)					**52.14**			
Normalized					97.11%			
Standard Deviation					1.1%			
WebP Image Encode - Q.1.L (MP/s)					**277.04**			
Normalized					96%			
Standard Deviation					1.2%			
WebP Image Encode - Q.1.H.C (MP/s)					**91.83**			
Normalized					99.92%			

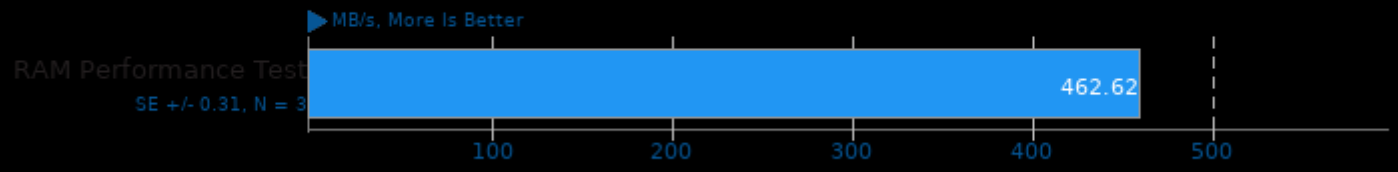
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Standard Deviation	3%			
WebP Image Encode - Q.1.L.H.C (MP/s)	**865.90**			
Normalized	99.45%			
Standard Deviation	1.5%			
GraphicsMagick - Swirl (Iterations/min)		4		
Standard Deviation		0%		
GraphicsMagick - Rotate (Iterations/min)		21		
Standard Deviation		0%		
GraphicsMagick - Sharpen		4		
Standard Deviation		0%		
GraphicsMagick - Enhanced (Iterations/min)		2		
Standard Deviation		0%		
GraphicsMagick - Resizing		10		
Standard Deviation		0%		
GraphicsMagick - Noise-Gaussian (Iterations/min)		3		
Standard Deviation		12.9%		
GraphicsMagick - HWB Color Space (Iterations/min)		12		
Standard Deviation		3.4%		
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)			6151	
Standard Deviation			0.1%	
AOBench - 2048 x 2048 - Total Time (sec)				564.66
Standard Deviation				2%

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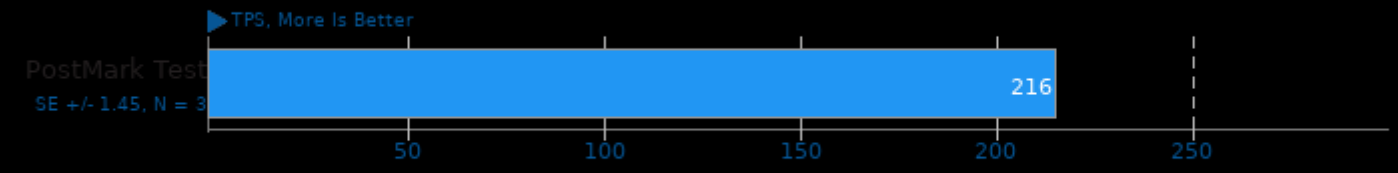
RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer



PostMark 1.51

Disk Transaction Performance



1. (CC) gcc options: -O3

Dolfyn 0.527

Computational Fluid Dynamics



FFTE 7.0

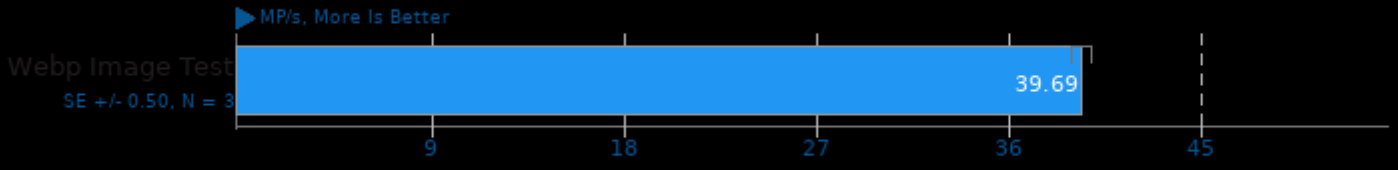
N=256, 3D Complex FFT Routine



1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp

WebP Image Encode 1.2.4

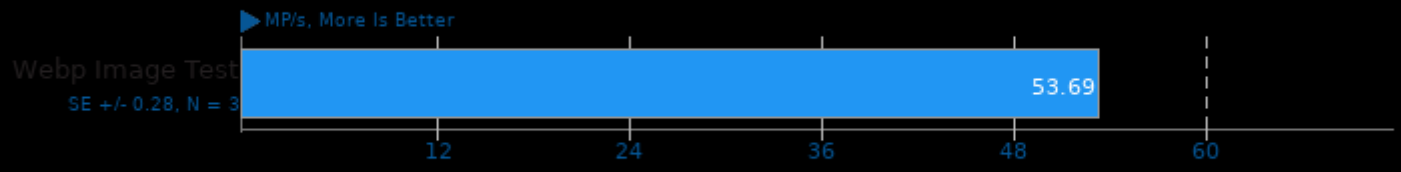
Encode Settings: Default



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

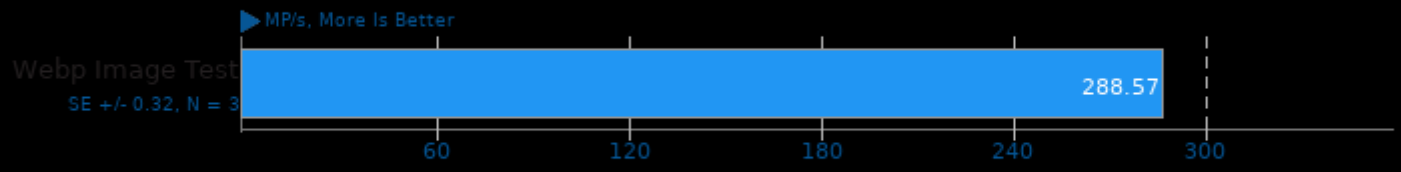
Encode Settings: Quality 100



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

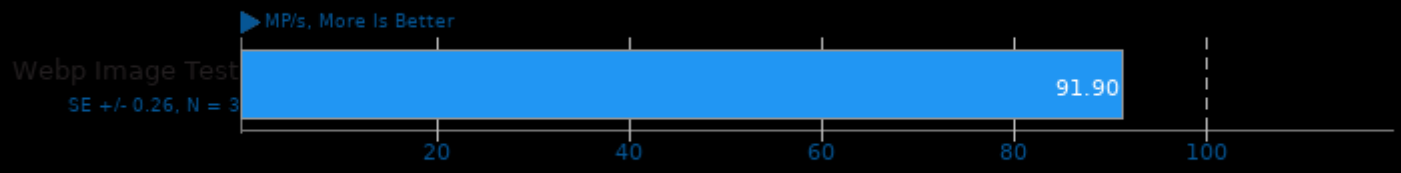
Encode Settings: Quality 100, Lossless



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

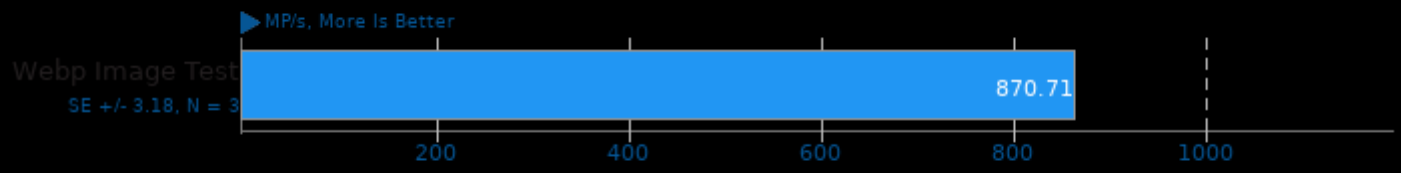
Encode Settings: Quality 100, Highest Compression



1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

WebP Image Encode 1.2.4

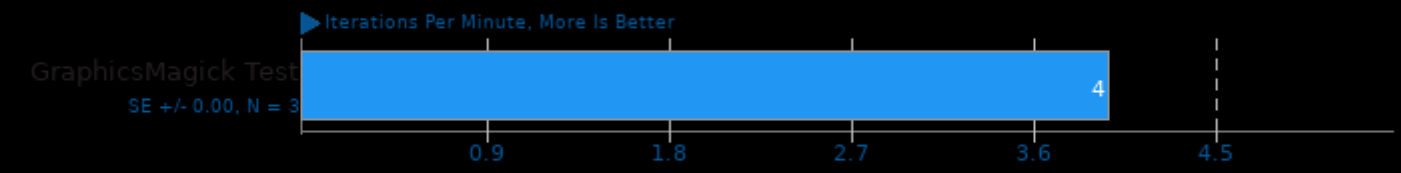
Encode Settings: Quality 100, Lossless, Highest Compression



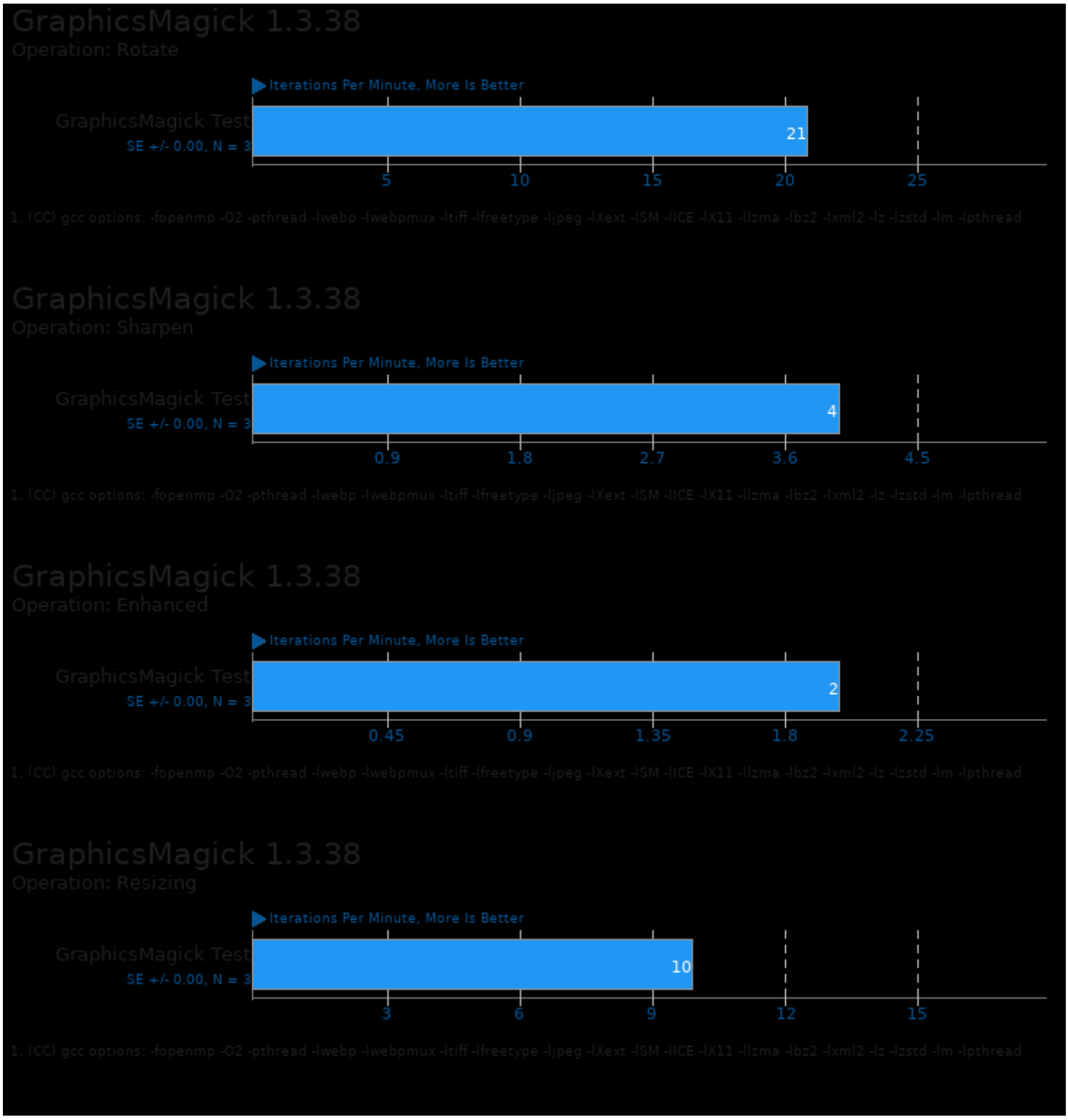
1. (CC) gcc options: -fvisibility=hidden -O2 -lm -pthread

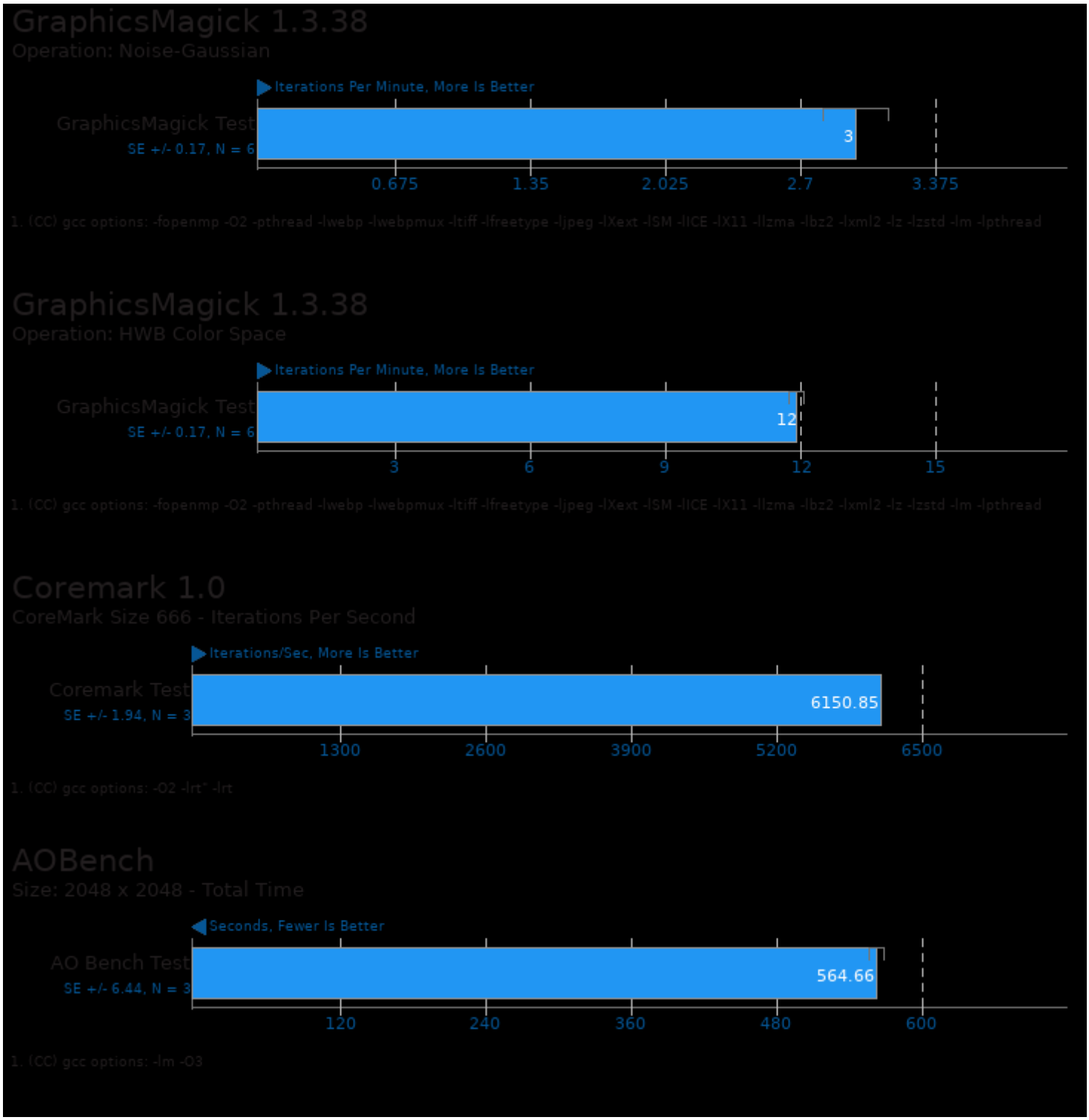
GraphicsMagick 1.3.38

Operation: Swirl



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


GraphicsMagick 1.3.38
Operation: Rotate
Iterations Per Minute, More Is Better
GraphicsMagick Test
SE +/- 0.00, N = 3
21
5
10
15
20
25
1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lzstd -lm -lpthread
GraphicsMagick 1.3.38
Operation: Sharpen
Iterations Per Minute, More Is Better
GraphicsMagick Test
SE +/- 0.00, N = 3
4
0.9
1.8
2.7
3.6
4.5
1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lzstd -lm -lpthread
GraphicsMagick 1.3.38
Operation: Enhanced
Iterations Per Minute, More Is Better
GraphicsMagick Test
SE +/- 0.00, N = 3
2
0.45
0.9
1.35
1.8
2.25
1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lzstd -lm -lpthread
GraphicsMagick 1.3.38
Operation: Resizing
Iterations Per Minute, More Is Better
GraphicsMagick Test
SE +/- 0.00, N = 3
10
3
6
9
12
15
1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -ljpeg -lXext -lSM -lICE -lX11 -llzma -lbz2 -lxml2 -lz -lzstd -lm -lpthread



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