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**kam**

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

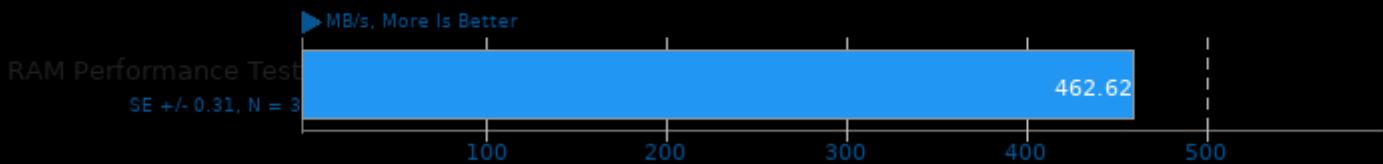
Compiler Notes: --build=riscv64-redhat-linux --disable-libunwind-exceptions --enable-\_\_cxa\_atexit --enable-bootstrap --enable-checking=release --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,objc,obj-c++,ada,go,d,lto --enable-multilib --enable-plugin --enable-shared --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	PostMark	Dolfyn	FFTE Test	Webp	GraphicsM	Coremark	AO Bench
	Performance Test		Test		Image Test	agick Test	Test	Test
<b>RAMspeed SMP - Copy</b>	462.62							
- Integer (MB/s)								
Standard Deviation	0.1%							
<b>PostMark - D.T.P (TPS)</b>		216						
Standard Deviation		1.2%						
<b>Dolfyn - C.F.D (sec)</b>			740.55					
Standard Deviation			0.4%					
<b>FFTE - N.2.3.C.F.R (MFLOPS)</b>				424.37				
Standard Deviation				0.4%				
<b>WebP Image Encode - Default (MP/s)</b>					39.27			
Normalized					98.94%			
Standard Deviation					1.5%			
<b>WebP Image Encode - Quality 100 (MP/s)</b>					53.69			
Normalized					100%			
Standard Deviation					0.9%			
<b>WebP Image Encode - Q.1.L (MP/s)</b>					288.57			
Normalized					100%			
Standard Deviation					0.2%			
<b>WebP Image Encode - Q.1.H.C (MP/s)</b>					91.90			
Normalized					100%			

Standard Deviation	0.5%	
<b>WebP Image Encode - Q.1.L.H.C (MP/s)</b>	<b>865.54</b>	
Normalized Standard Deviation	99.41%	
<b>GraphicsMagick - Swirl (Iterations/min)</b>	<b>4</b>	
Standard Deviation	0%	
<b>GraphicsMagick - Rotate (Iterations/min)</b>	<b>21</b>	
Standard Deviation	0%	
<b>GraphicsMagick - Sharpen</b>	<b>4</b>	
Standard Deviation	0%	
<b>GraphicsMagick - Enhanced (Iterations/min)</b>	<b>2</b>	
Standard Deviation	0%	
<b>GraphicsMagick - Resizing</b>	<b>10</b>	
Standard Deviation	0%	
<b>GraphicsMagick - Noise-Gaussian (Iterations/min)</b>	<b>3</b>	
Standard Deviation	12.9%	
<b>GraphicsMagick - HWB Color Space (Iterations/min)</b>	<b>12</b>	
Standard Deviation	3.4%	
<b>Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)</b>	<b>6151</b>	
Standard Deviation	0.1%	
<b>AOBench - 2048 x 2048 - Total Time (sec)</b>	<b>564.66</b>	
Standard Deviation	2%	

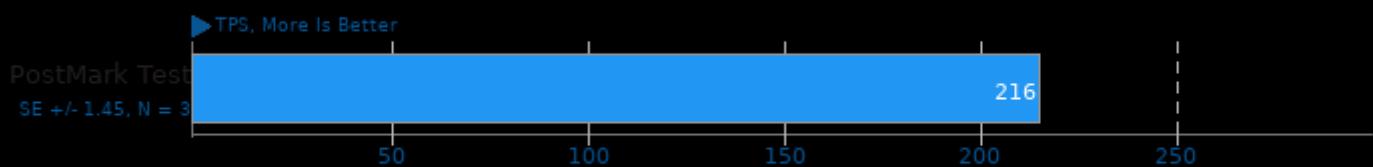
## RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer



## PostMark 1.51

Disk Transaction Performance



1. (CC) gcc options: -O3

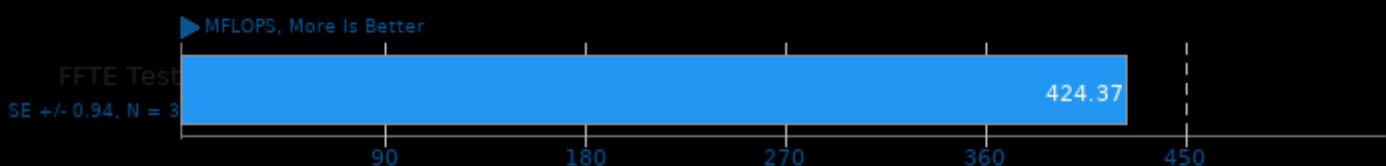
## Dolfyn 0.527

Computational Fluid Dynamics



## FFTE 7.0

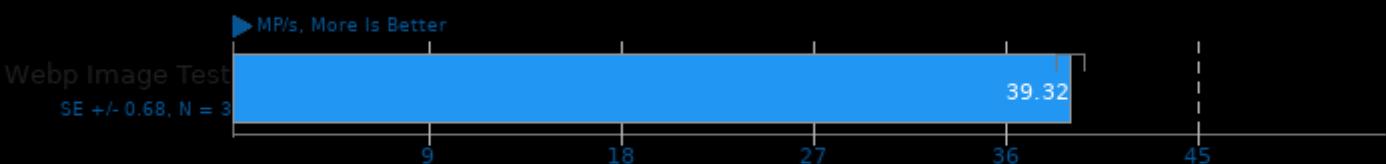
N=256, 3D Complex FFT Routine



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

## WebP Image Encode 1.2.4

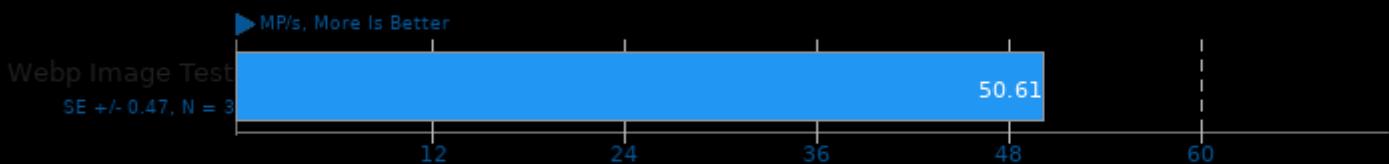
Encode Settings: Default



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

## WebP Image Encode 1.2.4

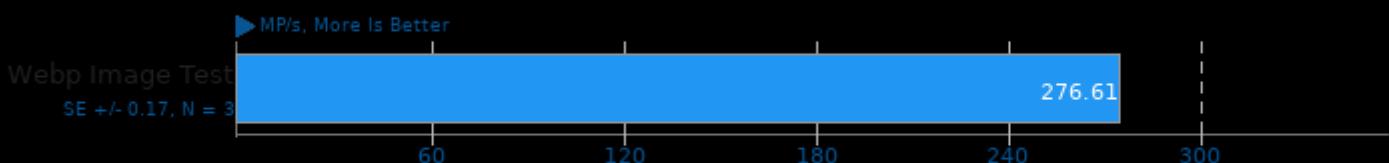
Encode Settings: Quality 100



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

## WebP Image Encode 1.2.4

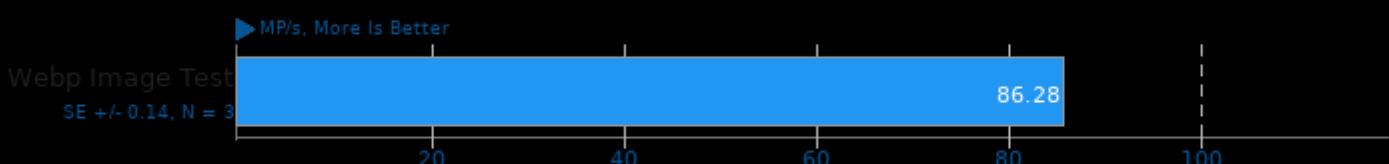
Encode Settings: Quality 100, Lossless



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

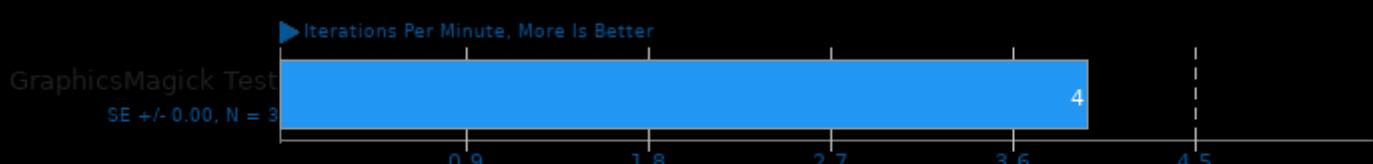
Encode Settings: Quality 100, Lossless, Highest Compression



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

## GraphicsMagick 1.3.38

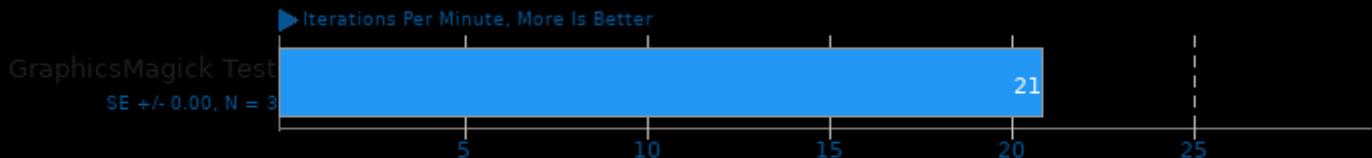
Operation: Swirl



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

## GraphicsMagick 1.3.38

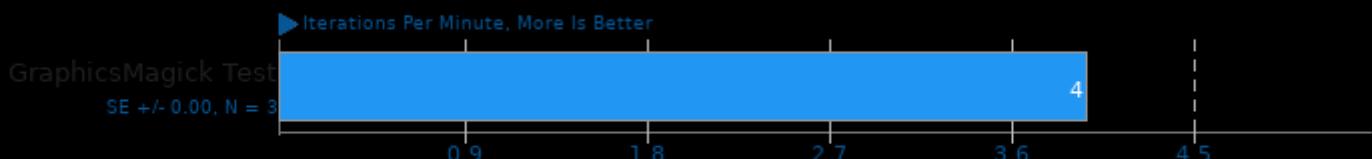
Operation: Rotate



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -jpeg -Xext -IS -ICE -X11 -lzma -bz2 -xml2 -lz -zstd -lm -pthread

## GraphicsMagick 1.3.38

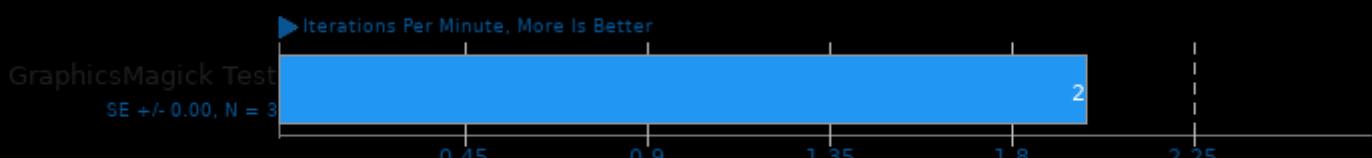
Operation: Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -jpeg -Xext -IS -ICE -X11 -lzma -bz2 -xml2 -lz -zstd -lm -pthread

## GraphicsMagick 1.3.38

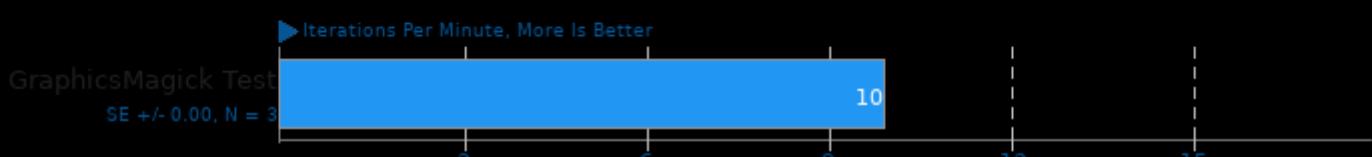
Operation: Enhanced



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -jpeg -Xext -IS -ICE -X11 -lzma -bz2 -xml2 -lz -zstd -lm -pthread

## GraphicsMagick 1.3.38

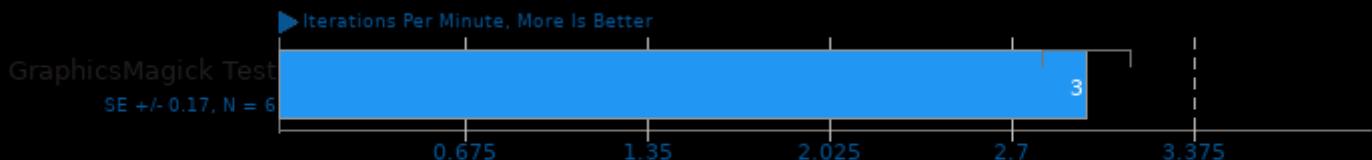
Operation: Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -lwebp -lwebpmux -ltiff -lfreetype -jpeg -Xext -IS -ICE -X11 -lzma -bz2 -xml2 -lz -zstd -lm -pthread

## GraphicsMagick 1.3.38

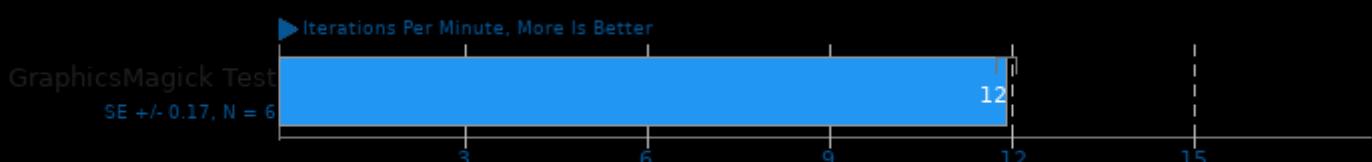
Operation: Noise-Gaussian



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

## GraphicsMagick 1.3.38

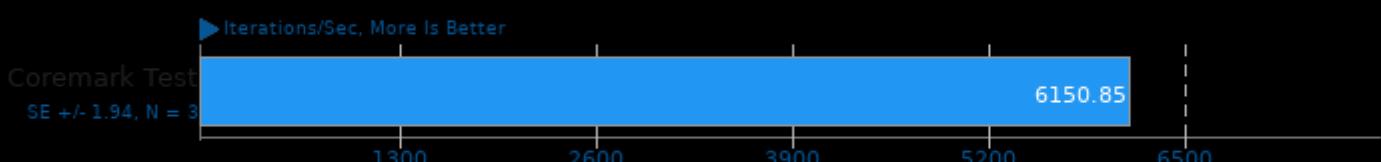
Operation: HWB Color Space



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

## Coremark 1.0

CoreMark Size 666 - Iterations Per Second



1. (CC) gcc options: -O2 -fipa -fipa-sra

## AOBench

Size: 2048 x 2048 - Total Time



1. (CC) gcc options: -lm -O3

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