

www.phoronix-test-suite.com

sh4dow

AMD A10-7800 Radeon R7 12 Compute Cores 4C+8G testing with a MSI A88XM-E35 (MS-7721) v6.0 and MSI AMD Radeon R7 512MB on Ubuntu 16.10 via the Phoronix Test Suite.

Test Systems:

AMD A4-6320 APU

MSI AMD Radeon HD 8370D

Processor: AMD A4-6320 APU @ 3.80GHz (2 Cores), Motherboard: MSI A88XM-E35 (MS-7721) v6.0, Chipset: AMD Family 15h, Memory: 16384MB, Disk: 750GB Seagate ST3750528AS, Graphics: MSI AMD Radeon HD 8370D 512MB, Audio: AMD Trinity HDMI Audio, Monitor: X193HQL + BenQ GW2265, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.8.0-30-generic (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.1 Mesa 12.0.6 Gallium 0.4 (LLVM 3.8.1), Compiler: GCC 6.2.0 20161005 + Clang 3.8.1-12ubuntu1, File-System: ext4, Screen Resolution: 3286x1080

Processor Notes: Scaling Governor: acpi-cpufreq ondemand
Graphics Notes: EXA

AMD A10-7800 Radeon R7 12 Compute Cores 4C

Processor: AMD A10-7800 Radeon R7 12 Compute Cores 4C+8G @ 3.50GHz (4 Cores), Motherboard: MSI A88XM-E35 (MS-7721) v6.0, Chipset: AMD Family 15h, Memory: 16384MB, Disk: 750GB Seagate ST3750528AS, Graphics: MSI AMD Radeon R7 512MB, Audio: AMD Kaveri HDMI/DP, Monitor: BenQ GW2265 + X193HQL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.10, Kernel: 4.8.0-42-generic (x86_64), Desktop: KDE Frameworks 5, Display Server: X Server 1.18.4, Display Driver: modesetting 1.18.4, OpenGL: 4.1 Mesa 12.0.6 Gallium 0.4 (LLVM 3.8.1), Compiler: GCC 6.2.0 20161005 + Clang 3.8.1-12ubuntu1, File-System: ext4, Screen Resolution: 3286x1080

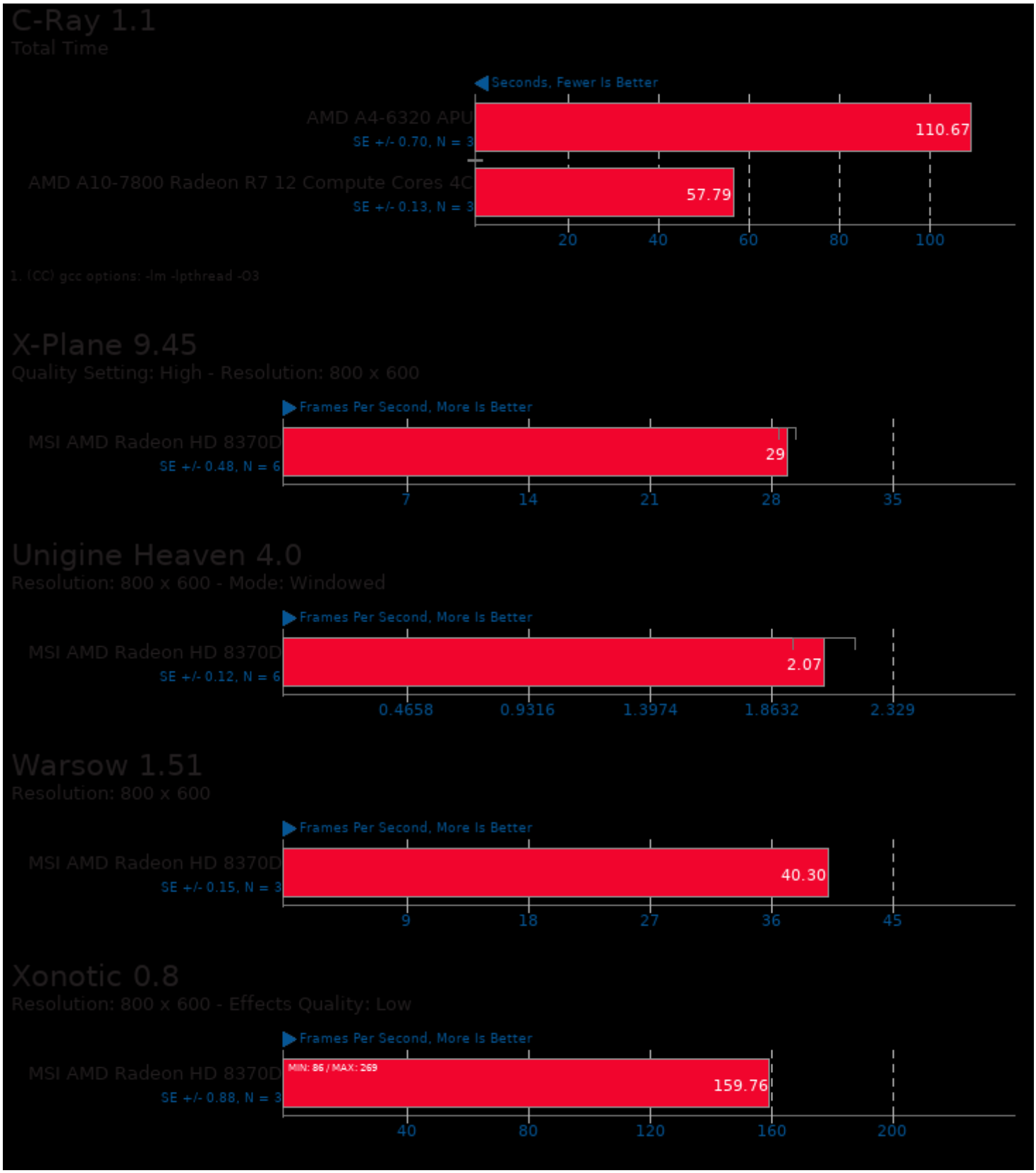
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --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-arch-directory=amd64 --with-default-libstdcxx-abi=new --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

	AMD A4-6320 APU	MSI AMD Radeon HD 8370D	AMD A10-7800 Radeon R7 12 Compute Cores 4C
C-Ray - Total Time (sec)	**110.67**		**57.79**
Normalized	52.22%		100%
Standard Deviation	1.1%		0.4%
X-Plane - High - 800 x 600 (FPS)		29	
Standard Deviation		4%	
Unigine Heaven - 800 x 600 - Windowed		2.07	
Standard Deviation		14%	
Warsow - 800 x 600 (FPS)		40.30	
Standard Deviation		0.7%	
Xonotic - 800 x 600 - Low (FPS)		159.76	
Standard Deviation		1%	
Xonotic - 800 x 600 - High (FPS)		76.54	
Standard Deviation		0.2%	
Xonotic - 800 x 600 - Ultra (FPS)		57.40	
Standard Deviation		2.8%	
Xonotic - 800 x 600 - Ultimate (FPS)		36.56	
Standard Deviation		3.3%	
X-Plane - Ultra - 800 x 600 (FPS)		28	
NoiseLevel - P.T.S.v.0.0 (Activity Level)		43680057	
CacheBench - Read (MB/s)		1704	
Standard Deviation		1%	
CacheBench - Write (MB/s)		10559	
Standard Deviation		3.3%	
CacheBench - R.M.W (MB/s)		19538	
Standard Deviation		3.2%	
VP8 libvpx Encoding - vpxenc (FPS)		1.05	

sh4dow

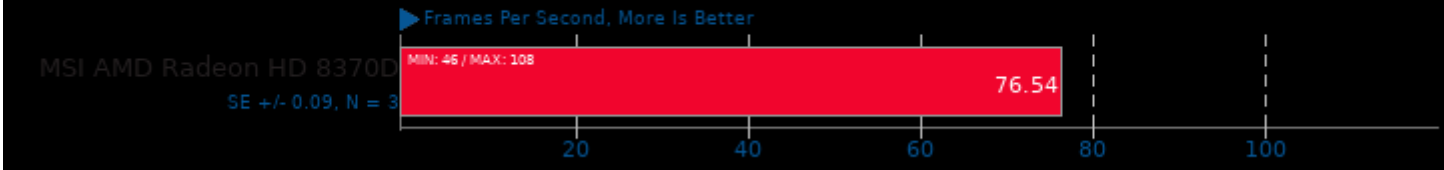
Standard Deviation	1%
GnuPG - L.4.3.P.F.E (sec)	17.51
Standard Deviation	0%
GIMP - resize (sec)	5.67
Standard Deviation	0.3%
GIMP - auto-levels (sec)	10.94
Standard Deviation	0.5%
GIMP - unsharp-mask (sec)	20.70
Standard Deviation	0.8%

sh4dow

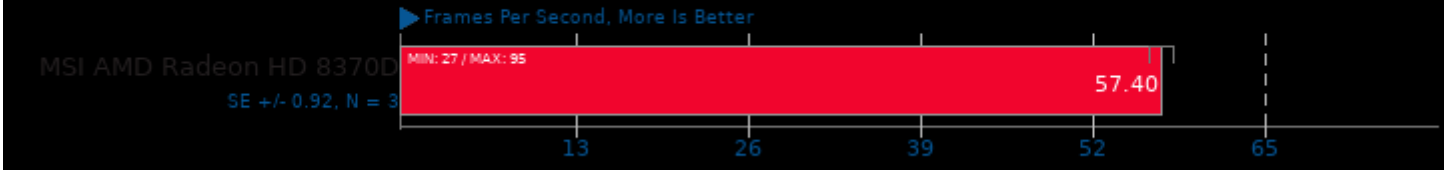

C-Ray 1.1
Total Time
Seconds, Fewer Is Better
AMD A4-6320 APU
SE +/- 0.70, N = 3
110.67
AMD A10-7800 Radeon R7 12 Compute Cores 4C
SE +/- 0.13, N = 3
57.79
20
40
60
80
100
1. (CC) gcc options: -lm -lpthread -O3
X-Plane 9.45
Quality Setting: High - Resolution: 800 x 600
Frames Per Second, More Is Better
MSI AMD Radeon HD 8370D
SE +/- 0.48, N = 6
29
7
14
21
28
35
Unigine Heaven 4.0
Resolution: 800 x 600 - Mode: Windowed
Frames Per Second, More Is Better
MSI AMD Radeon HD 8370D
SE +/- 0.12, N = 6
2.07
0.4658
0.9316
1.3974
1.8632
2.329
Warsow 1.51
Resolution: 800 x 600
Frames Per Second, More Is Better
MSI AMD Radeon HD 8370D
SE +/- 0.15, N = 3
40.30
9
18
27
36
45
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: Low
Frames Per Second, More Is Better
MSI AMD Radeon HD 8370D
SE +/- 0.88, N = 3
MIN: 86 / MAX: 269
159.76
40
80
120
160
200

sh4dow

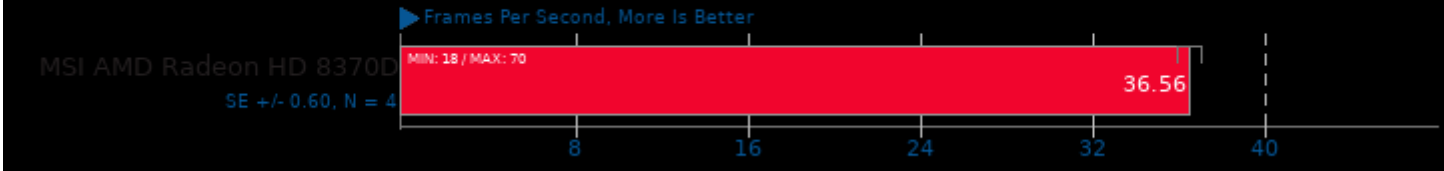
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: High



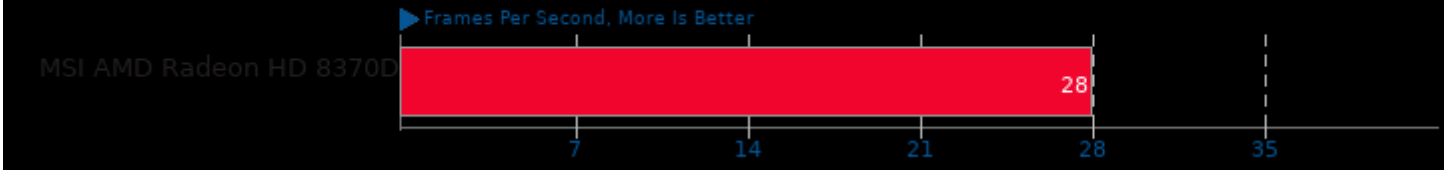
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: Ultra



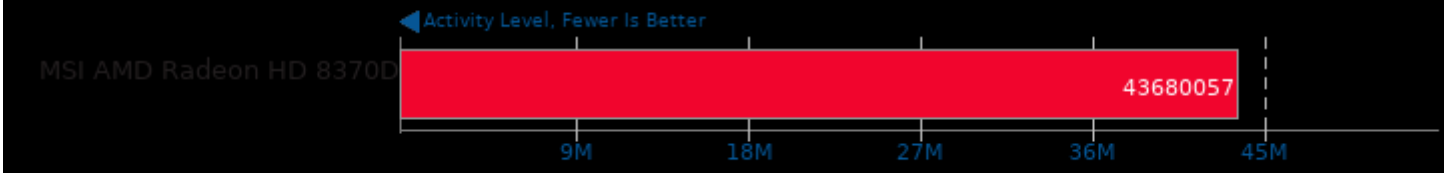
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: Ultimate



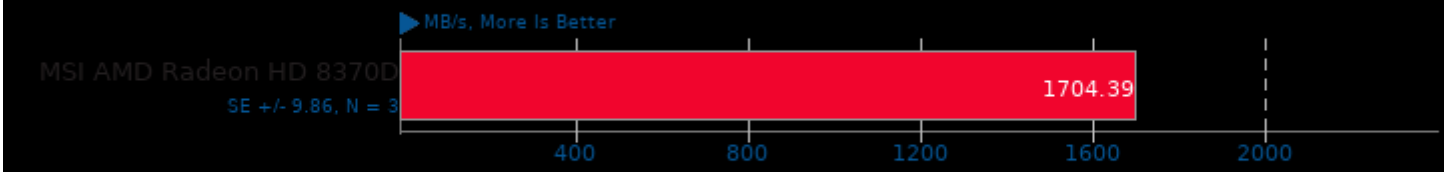
X-Plane 9.45
Quality Setting: Ultra - Resolution: 800 x 600



NoiseLevel
Phoronix Test Suite v7.0.0



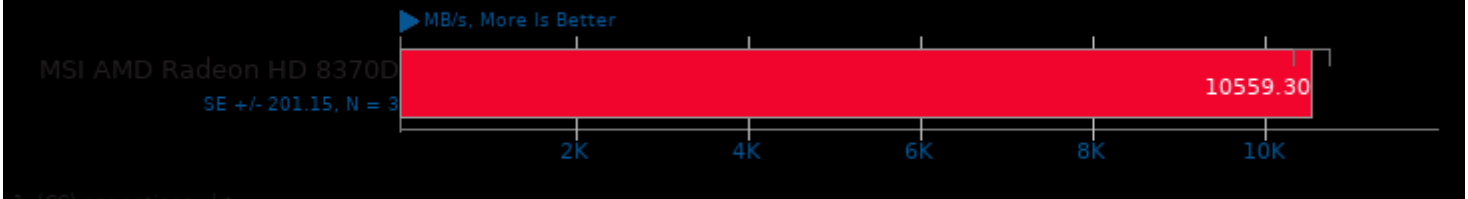
CacheBench
Test: Read



1. (CC) gcc options: -lrt

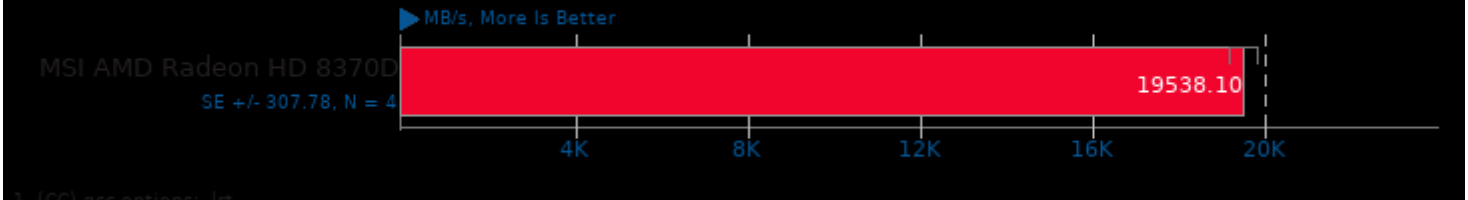
sh4dow

CacheBench
Test: Write



1. (CC) gcc options: -lrt

CacheBench
Test: Read / Modify / Write



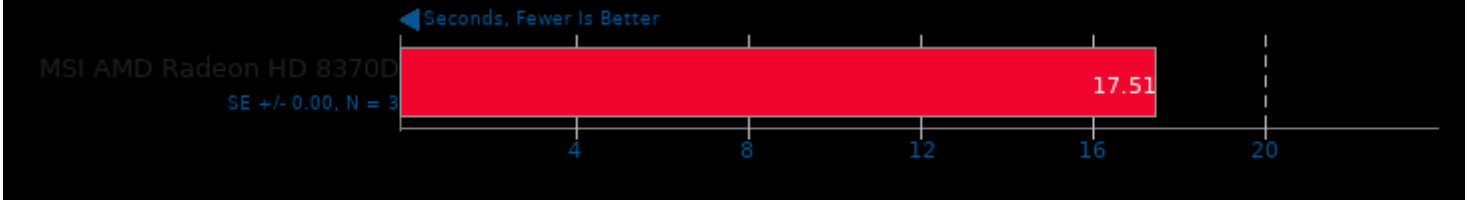
1. (CC) gcc options: -lrt

VP8 libvpx Encoding 1.6.0
vpxenc

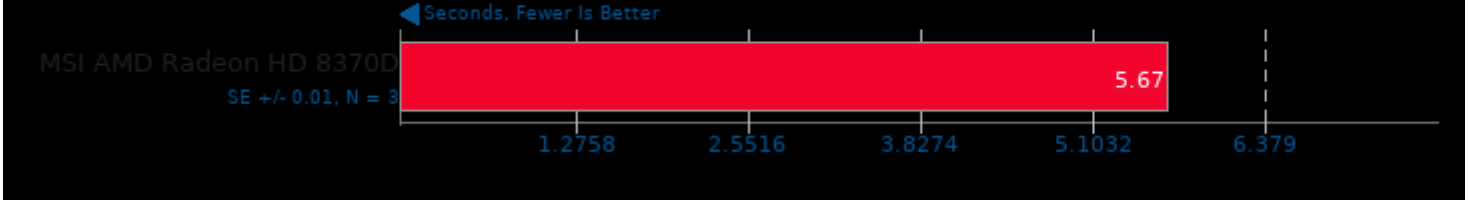


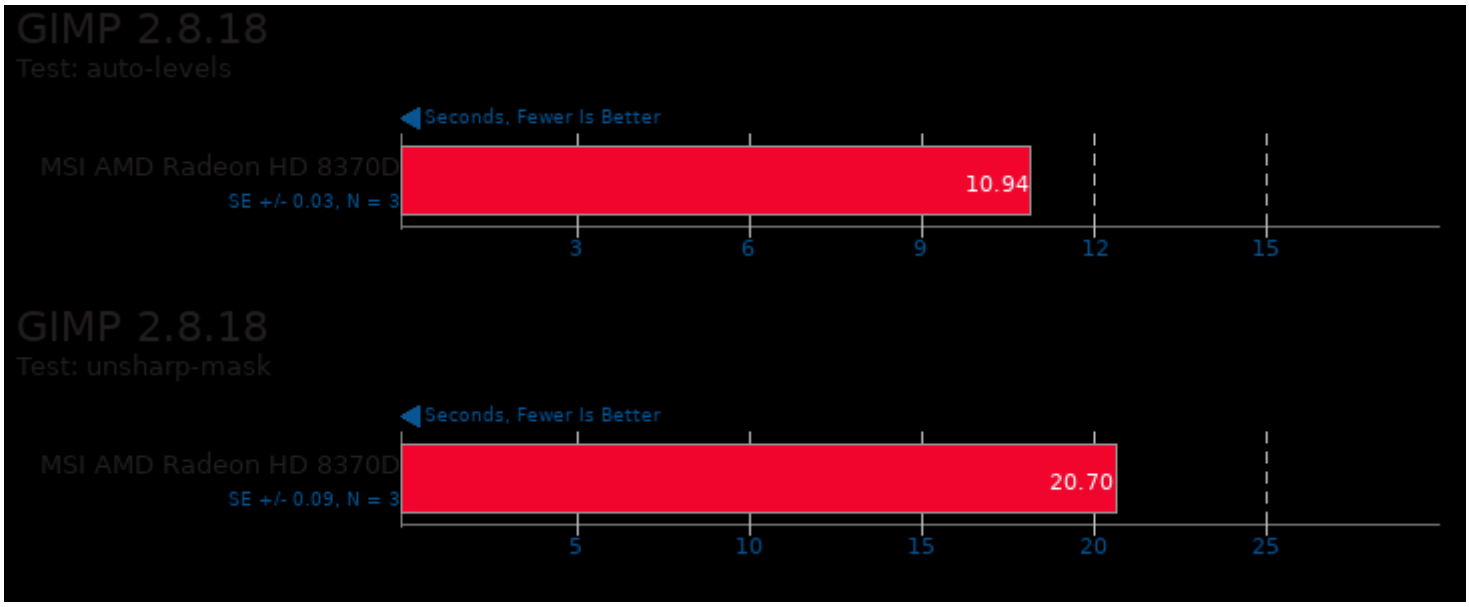
1. (CXX) g++ options: -m64 -lvpx -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE

GnuPG
Linux 4.3 Package File Encryption



GIMP 2.8.18
Test: resize





This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 02:46.