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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.

Automated Executive Summary

AMD A10-7800 Radeon R7 12 Compute Cores 4C had the most wins, coming in first place for 50% of the tests.

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

C-Ray (Total Time) at 1.915x
Warsow (Resolution: 800 x 600) at 1x
Xonotic (Resolution: 800 x 600 - Effects Quality: Low) at 1x
Xonotic (Resolution: 800 x 600 - Effects Quality: High) at 1x
Xonotic (Resolution: 800 x 600 - Effects Quality: Ultra) at 1x
Xonotic (Resolution: 800 x 600 - Effects Quality: Ultimate) at 1x
X-Plane (Quality Setting: Ultra - Resolution: 800 x 600) at 1x
NoiseLevel (Phoronix Test Suite v7.0.0) at 1x
CacheBench (Test: Read) at 1x
CacheBench (Test: Write) at 1x.

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

MSI AMD Radeon R7

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

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

	AMD A4-6320 APU	MSI AMD Radeon HD 8370D	AMD A10-7800 Radeon R7 12 Compute Cores	MSI AMD Radeon R7
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**		**52**
Normalized		55.77%		100%
Standard Deviation		4%		6.7%
Unigine Heaven - 800 x 600 - Windowed (FPS)		2.07		
Standard Deviation		14%		
Warsow - 800 x 600 (FPS)		40.30		
Standard Deviation		0.7%		

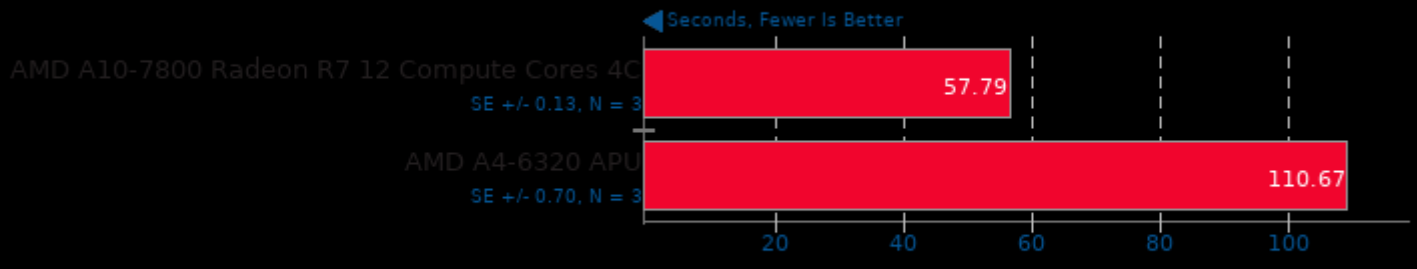
sh4dow

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	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
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%

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C-Ray 1.1

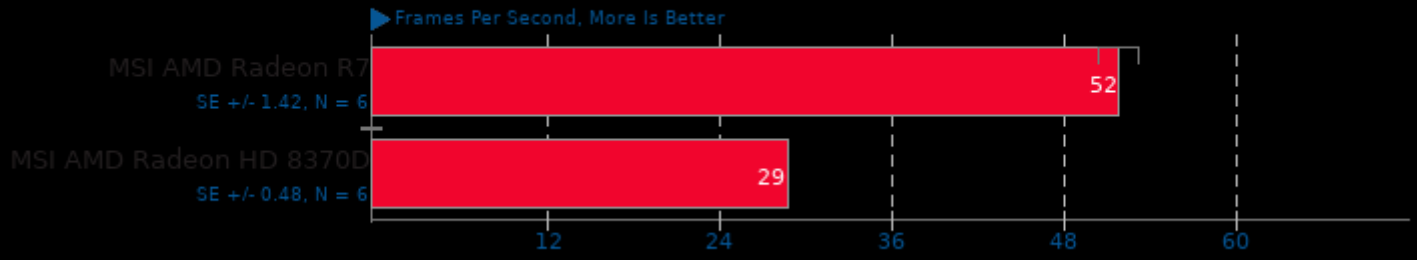
Total Time



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

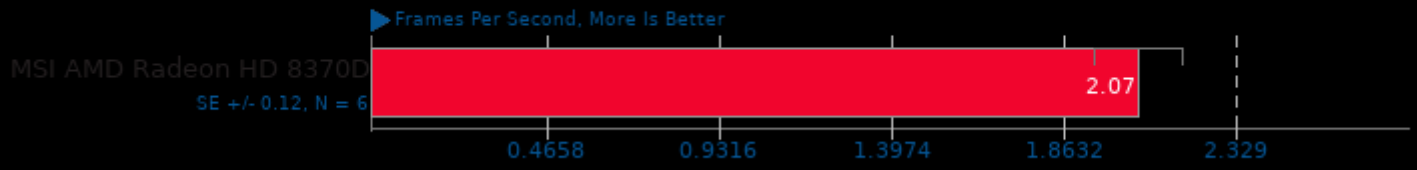
X-Plane 9.45

Quality Setting: High - Resolution: 800 x 600



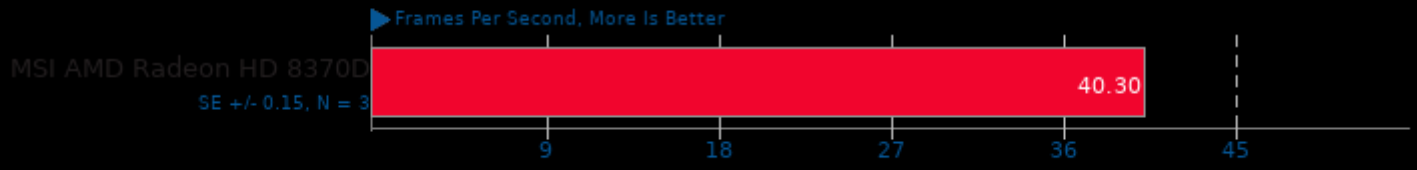
Unigine Heaven 4.0

Resolution: 800 x 600 - Mode: Windowed



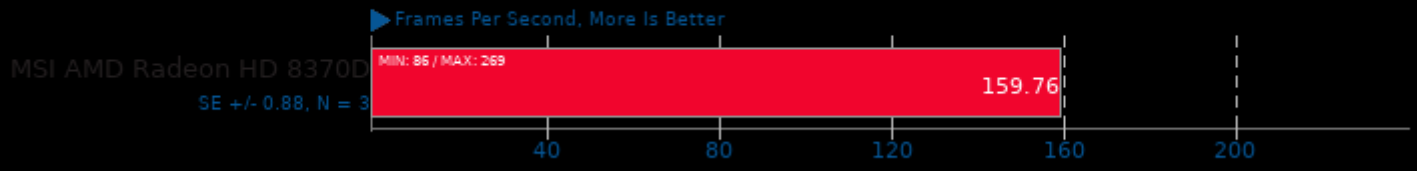
Warsow 1.51

Resolution: 800 x 600



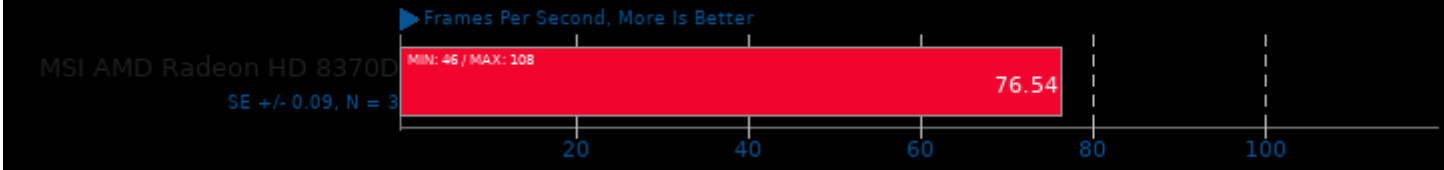
Xonotic 0.8

Resolution: 800 x 600 - Effects Quality: Low

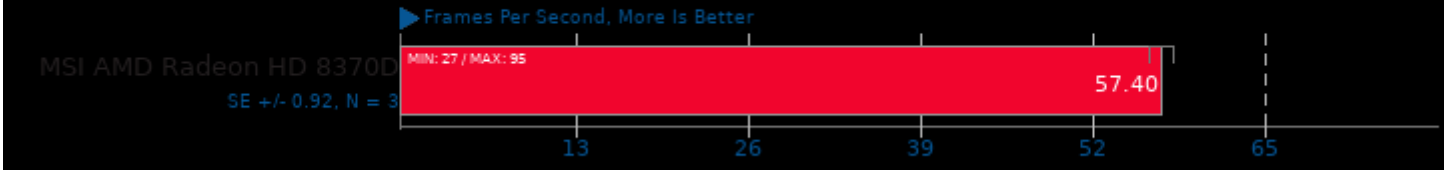


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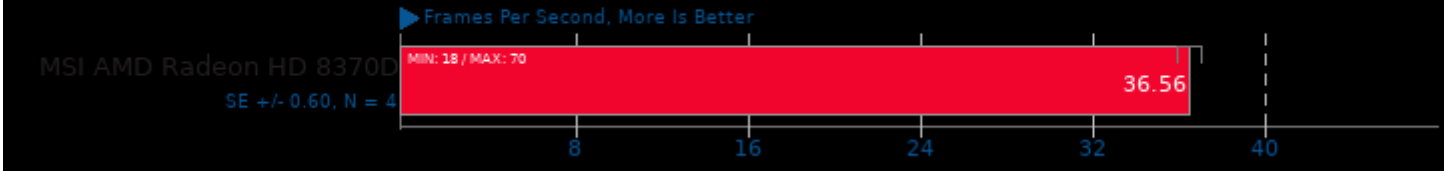
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: High



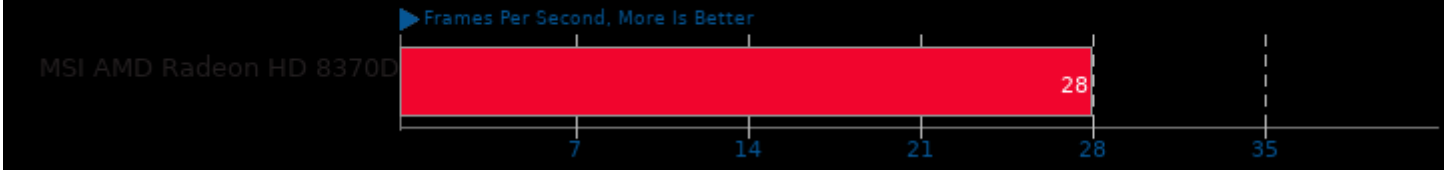
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: Ultra



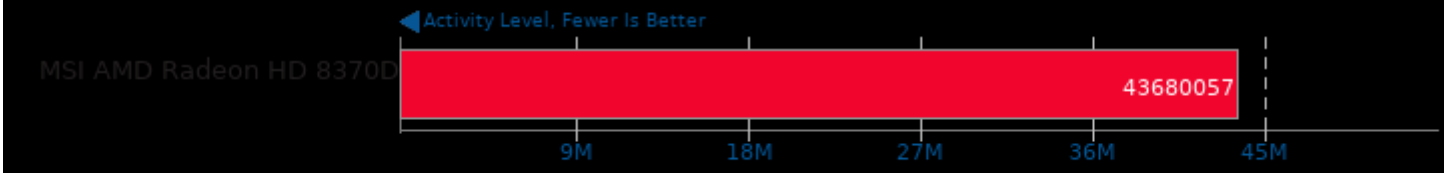
Xonotic 0.8
Resolution: 800 x 600 - Effects Quality: Ultimate



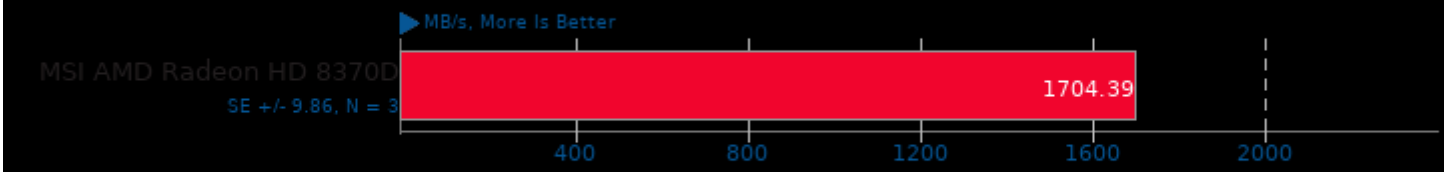
X-Plane 9.45
Quality Setting: Ultra - Resolution: 800 x 600



NoiseLevel
Phoronix Test Suite v7.0.0



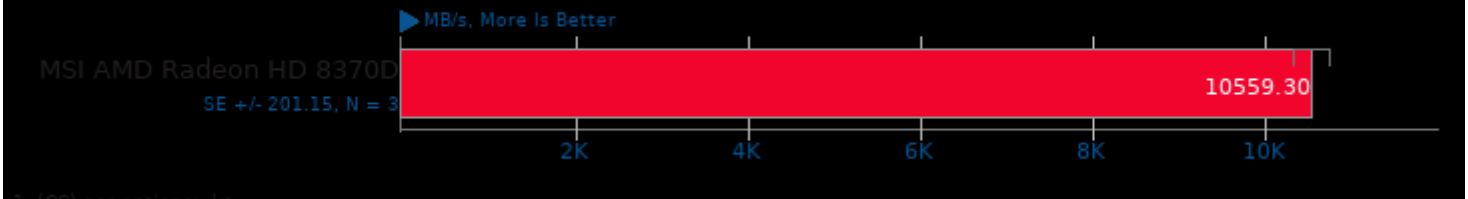
CacheBench
Test: Read



1. (CC) gcc options: -lrt

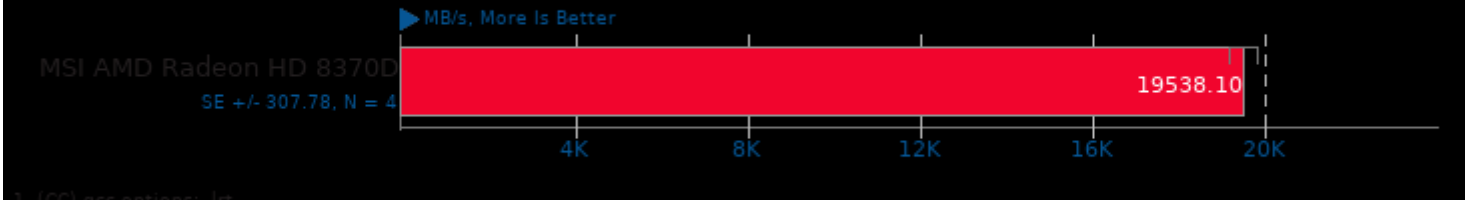
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CacheBench
Test: Write



1. (CC) gcc options: -lrt

CacheBench
Test: Read / Modify / Write



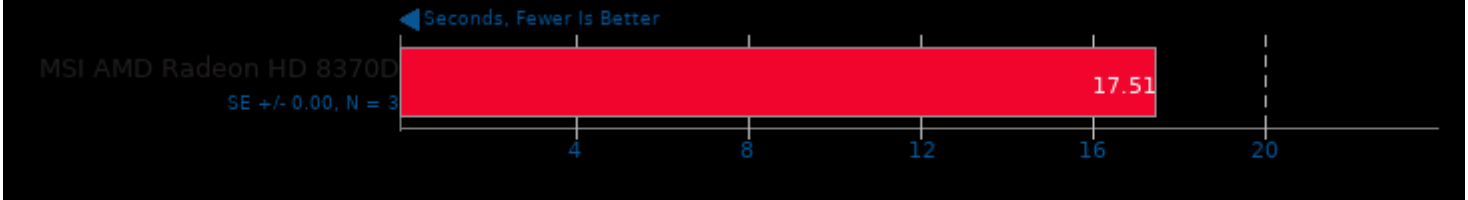
1. (CC) gcc options: -lrt

VP8 libvpx Encoding 1.6.0
vpxenc

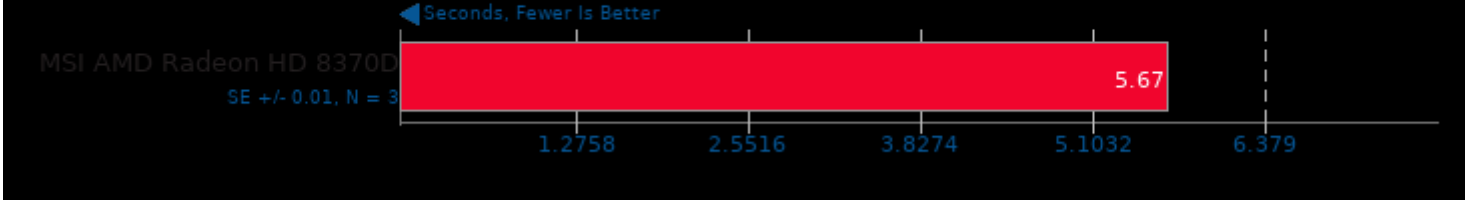


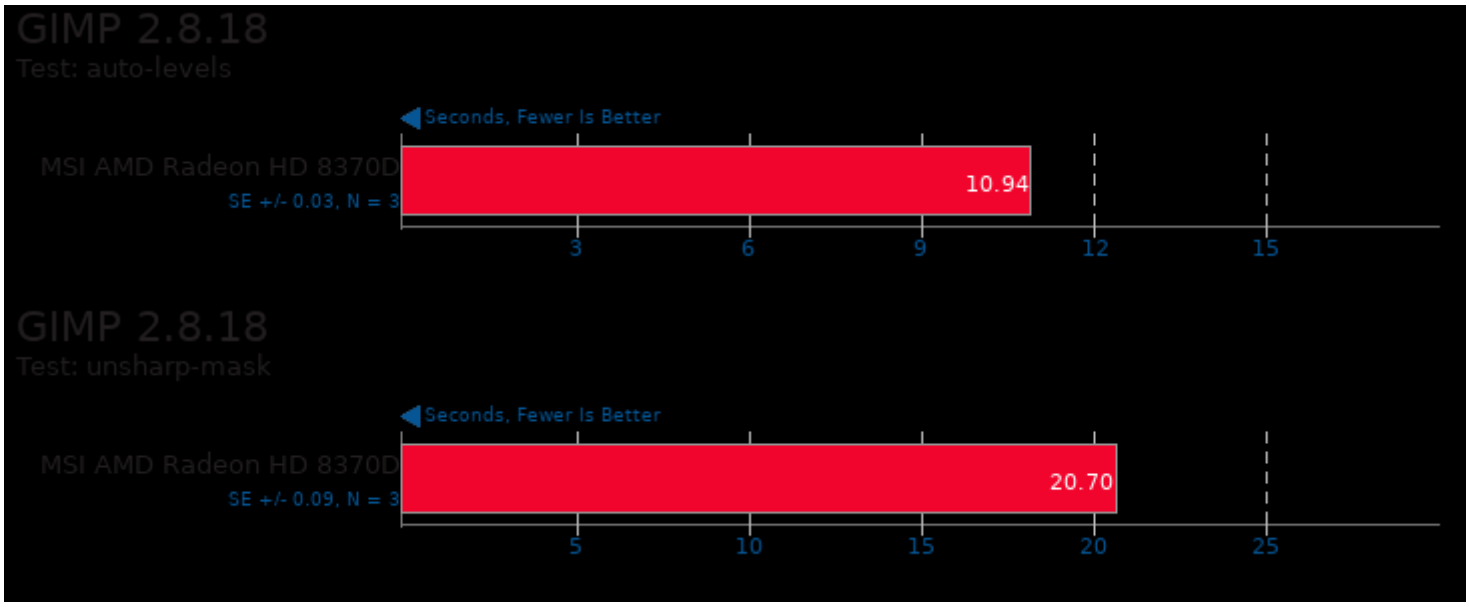
1. (CXX) g++ options: -m64 -lvpx -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE

GnuPG
Linux 4.3 Package File Encryption



GIMP 2.8.18
Test: resize





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