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Mesa 9.2 Radeon R600 Gallium3D

Intel Core i7-3960X testing with a Radeon HD 4650 RV730 graphics card testing of Mesa 9.2 Git using R600 LLVM back-end and R600 SB shader optimization back-end. Benchmarking by Michael Larabel for a future article on phoronix.

Test Systems:

Stock

Processor: Intel Core i7-3960X @ 2.54GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Xeon E5/Core, Memory: 8192MB, Disk: 64GB OCZ VERTEX, Graphics: Sapphire AMD Radeon HD 4650 512MB, Audio: Realtek ALC892, Monitor: DELL S2409W, Network: Intel 82579LM Gigabit Connection

OS: Ubuntu 13.10, Kernel: 3.10.0-2-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.14.1, Display Driver: radeon 7.1.0, OpenGL: 3.1 Mesa 9.2.0-devel (git-b042aae) Gallium 0.4, Compiler: GCC 4.8 + Clang 3.3-3 + LLVM 3.3, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64

--with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Graphics Notes: EXA

R600_LLVM

Processor: Intel Core i7-3960X @ 1.58GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Xeon E5/Core, Memory: 8192MB, Disk: 64GB OCZ VERTEX, Graphics: Sapphire AMD Radeon HD 4650 512MB, Audio: Realtek ALC892, Monitor: DELL S2409W, Network: Intel 82579LM Gigabit Connection

OS: Ubuntu 13.10, Kernel: 3.10.0-2-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.14.1, Display Driver: radeon 7.1.0, OpenGL: 3.1 Mesa 9.2.0-devel (git-b042aae) Gallium 0.4, Compiler: GCC 4.8 + Clang 3.3-3 + LLVM 3.3, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Graphics Notes: EXA

R600_DEBUG=sb

Processor: Intel Core i7-3960X @ 1.78GHz (12 Cores), Motherboard: Intel DX79SI, Chipset: Intel Xeon E5/Core, Memory: 8192MB, Disk: 64GB OCZ VERTEX, Graphics: Sapphire AMD Radeon HD 4650 512MB, Audio: Realtek ALC892, Monitor: DELL S2409W, Network: Intel 82579LM Gigabit Connection

OS: Ubuntu 13.10, Kernel: 3.10.0-2-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.14.1, Display Driver: radeon 7.1.0, OpenGL: 3.1 Mesa 9.2.0-devel (git-b042aae) Gallium 0.4, Compiler: GCC 4.8 + Clang 3.3-3 + LLVM 3.3, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Graphics Notes: EXA

	Stock	R600_LLVM	R600_DEBUG=sb
Nexuiz - 1024 x 768 - Yes - Off (FPS)	**55.18**	58.41	**59.69**
Normalized	92.44%	97.86%	100%
Standard Deviation	0.6%	0.3%	0.9%
Nexuiz - 1920 x 1080 - Yes - Off (FPS)	**30.90**	33.68	**35.33**
Normalized	87.46%	95.33%	100%
Standard Deviation	0.1%	0.2%	0.2%
OpenArena - 1920 x 1080 (FPS)	**37.17**	38.60	**39**
Normalized	95.31%	98.97%	100%
Standard Deviation	0.2%	0%	0%
Reaction Quake 3 - 1280 x 1024 (FPS)	**60**	87.70	**116.30**
Normalized	51.59%	75.41%	100%
Standard Deviation	0%	0%	0.1%

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Reaction Quake 3 - 1920 x 1080 (FPS)	**60**	87.70	**116.27**
Normalized	51.6%	75.43%	100%
Standard Deviation	0%	0.1%	0.1%
Urban Terror - 1920 x 1080 (FPS)	**101.67**	112.85	**120.53**
Normalized	84.35%	93.63%	100%
Standard Deviation	15.2%	12.6%	0.6%
Warsow - 1920 x 1080 (FPS)	**34.40**	39.10	**43.00**
Normalized	80%	90.93%	100%
Standard Deviation	1.5%	1.2%	0.5%
Xonotic - 1920 x 1080 - Low (FPS)	**163.16**	177.87	**188.33**
Normalized	86.64%	94.45%	100%
Standard Deviation	7.5%	9.3%	7.8%
Xonotic - 1920 x 1080 - High (FPS)	**52.32**	64.95	**76.42**
Normalized	68.46%	84.99%	100%
Standard Deviation	0%	0.2%	0.1%
Xonotic - 1920 x 1080 - Ultra (FPS)	**29.52**	38.19	**47.25**
Normalized	62.48%	80.83%	100%
Standard Deviation	0%	0.1%	0.1%

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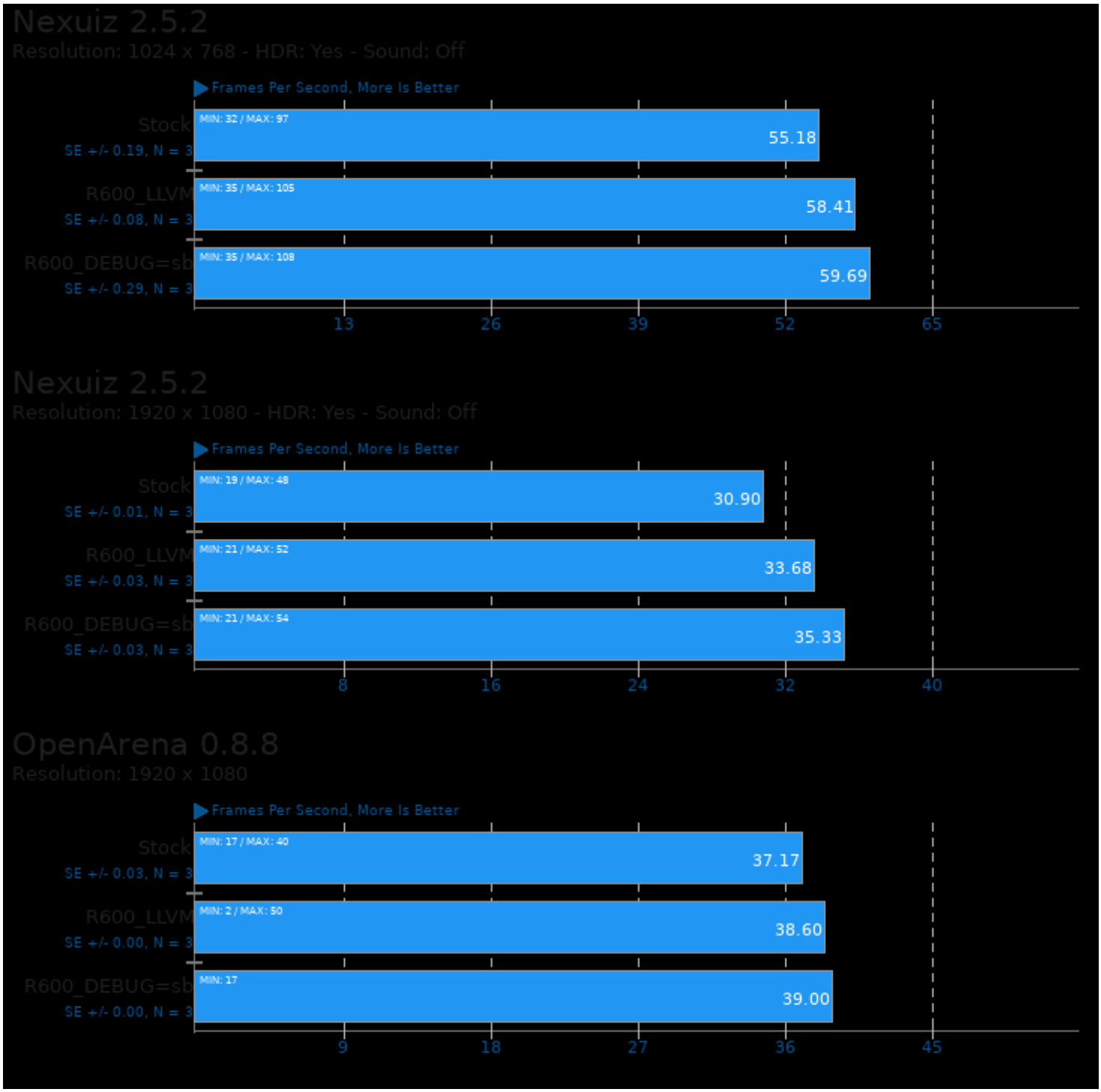

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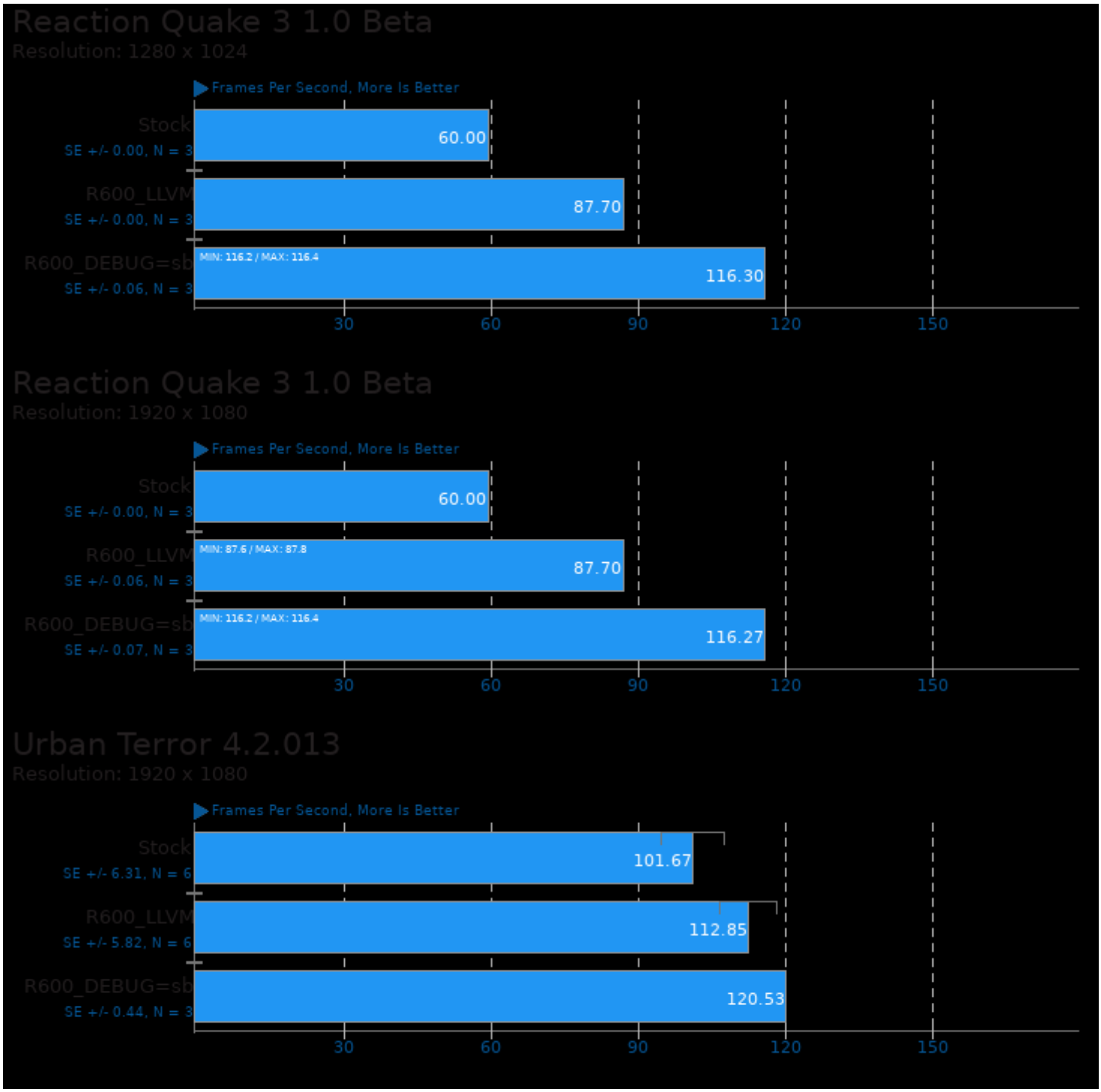

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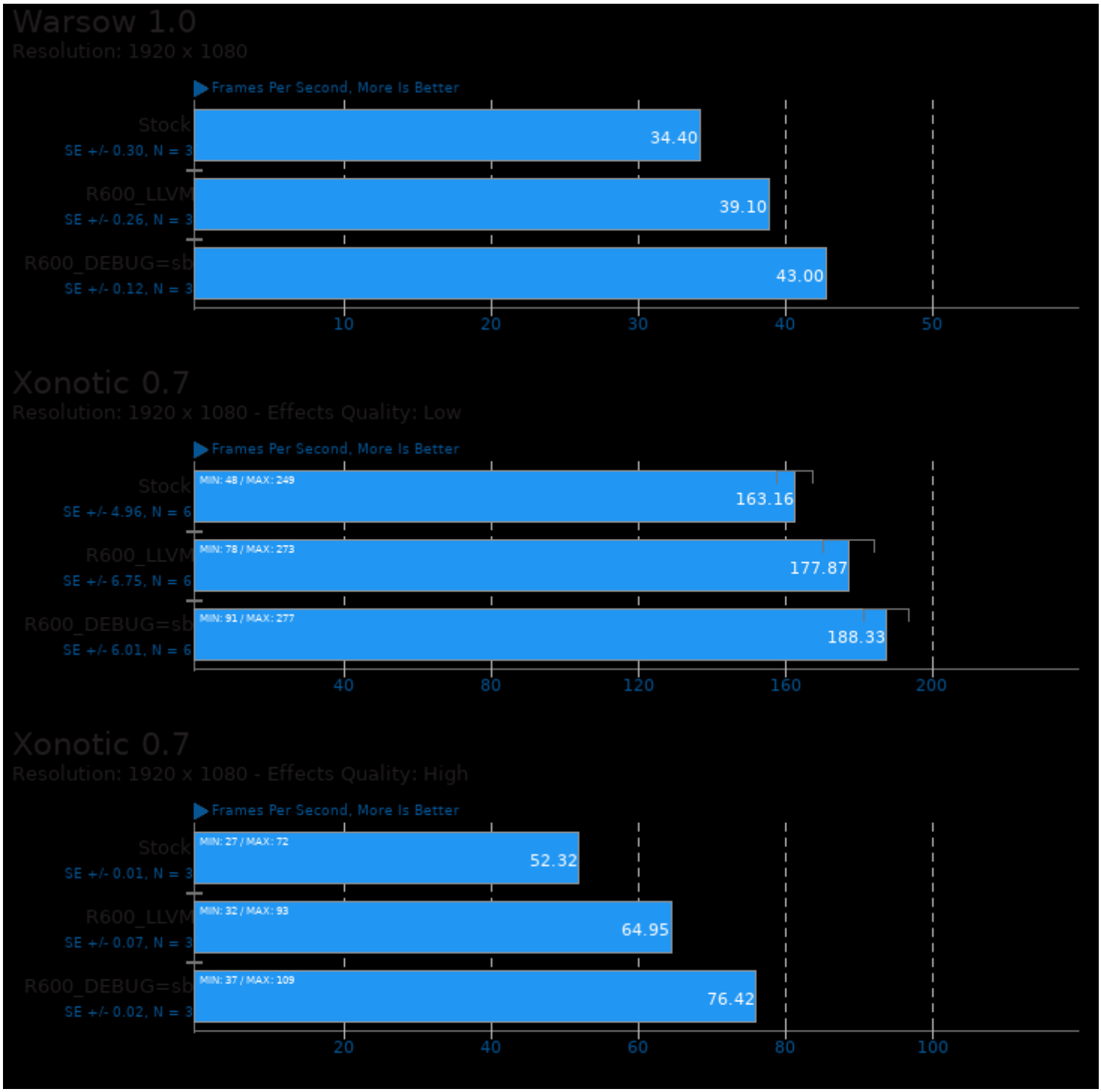

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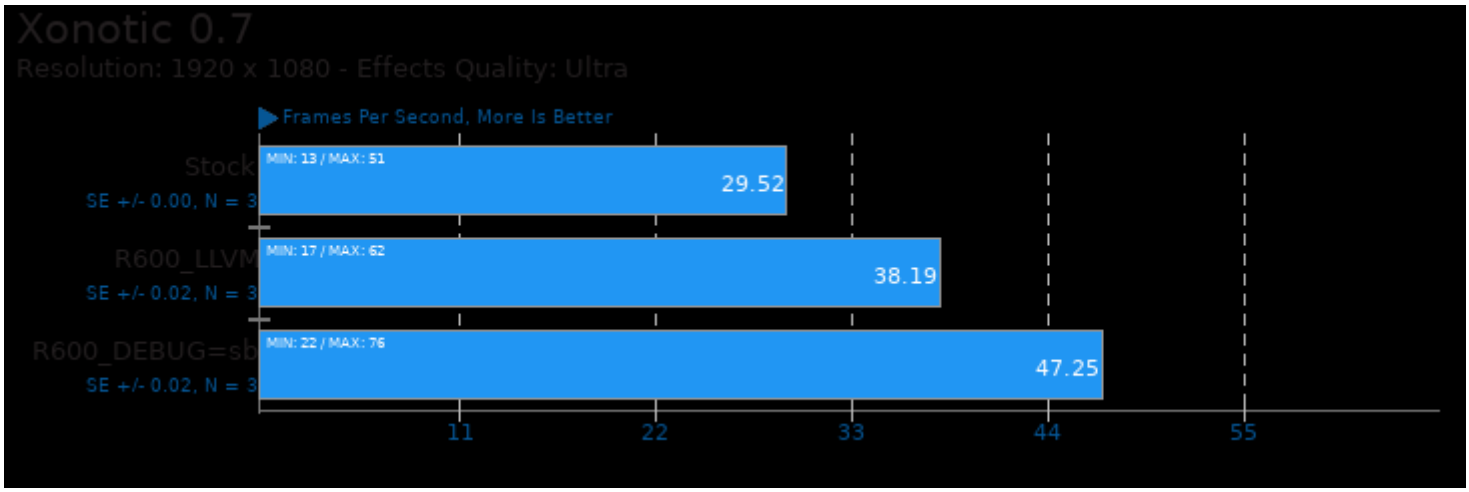

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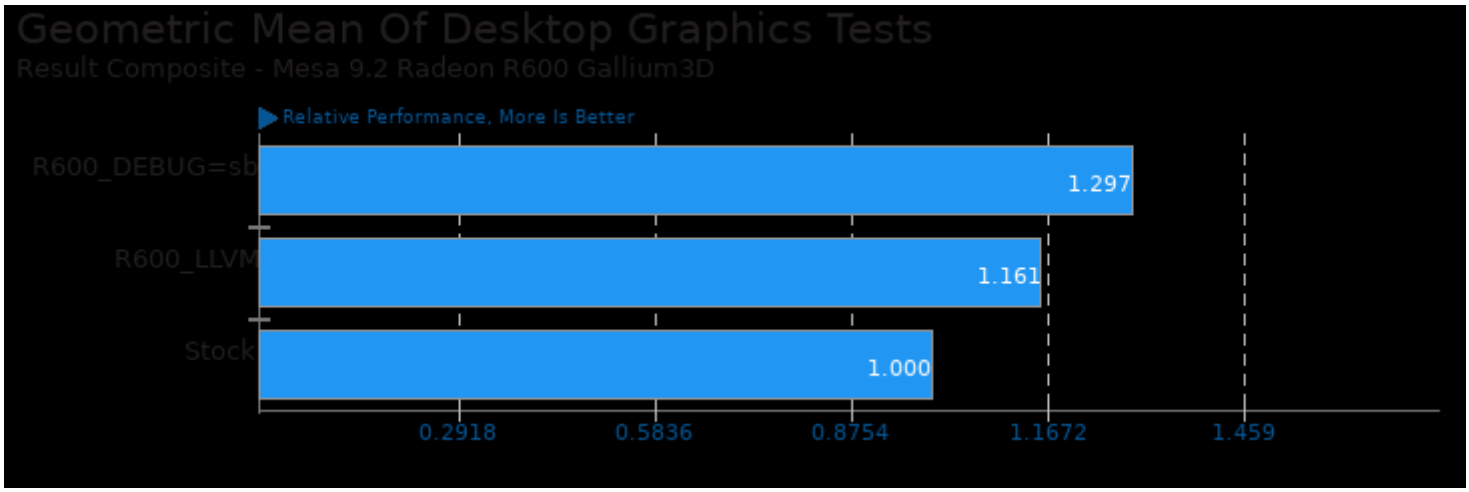
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/xonotic and pts/openarena

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 10:18.