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AMD Kaveri A10-7850K Ubuntu 16.04

AMD A10-7850K APU tests by Michael Larabel for a future article on Phoronix.

Test Systems:

fglrx 15.20.3

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: Gigabyte F2A88XM-D3H, Chipset: AMD Family 15h, Memory: 7168MB, Disk: 120GB KINGSTON SV300S3, Graphics: AMD Radeon R7 1024MB, Audio: AMD Kaveri HDMI/DP, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.4.0-6-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: fglrx 15.20.3, OpenGL: 4.5.13399, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/fglrx/dri:/usr/lib/x86_64-linux-gnu/dri:/usr/lib/dri:/usr/lib32/fglrx/dri:/usr/lib/i386-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-vtable-verify --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,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 --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 performance

Linux 4.4 + Mesa 11.1

Linux 4.4 + Mesa 11.1 + DRI3

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: Gigabyte F2A88XM-D3H, Chipset: AMD Family 15h, Memory: 7168MB, Disk: 120GB KINGSTON SV300S3, Graphics: AMD Radeon R7 1024MB, Audio: AMD Kaveri HDMI/DP, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.4.0-6-generic (x86_64), Desktop: Unity 7.4.0, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.1.2 Gallium 0.4, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1920x1080

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

Linux 4.5 + Mesa 11.1 + DRI3

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: Gigabyte F2A88XM-D3H, Chipset: AMD Family 15h, Memory: 7168MB, Disk: 120GB KINGSTON SV300S3, Graphics: AMD Radeon R7 1024MB, Audio: AMD Kaveri HDMI/DP, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, Desktop: Unity 7.4.0, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.1.2 Gallium 0.4, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1920x1080

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

Linux 4.5 + Mesa 11.2 + DRI3

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: Gigabyte F2A88XM-D3H, Chipset: AMD Family 15h, Memory: 7168MB, Disk: 120GB KINGSTON SV300S3, Graphics: AMD Radeon R7 1024MB, Audio: AMD Kaveri HDMI/DP, Monitor: G237HL, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 16.04, Kernel: 4.5.0-999-generic (x86_64) 20160220, Desktop: Unity 7.4.0, Display Driver: radeon 7.6.1, OpenGL: 4.1 Mesa 11.2.0-devel (git-3c9ed20 2016-02-21 xenial-oibaf-ppa) Gallium 0.4, Compiler: GCC 5.3.1 20160211, File-System: ext4, Screen Resolution: 1920x1080

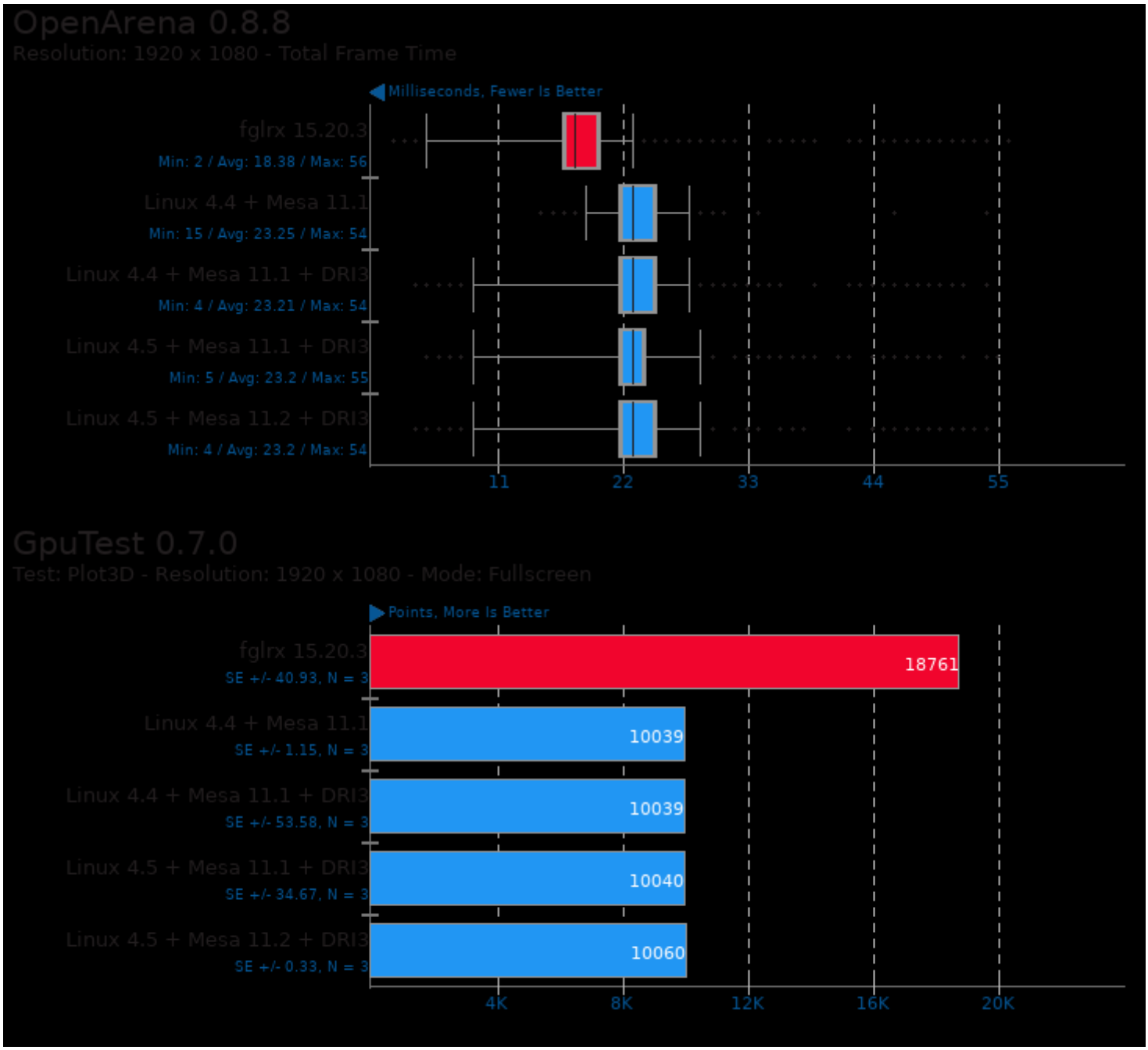
Processor Notes: Scaling Governor: acpi-cpufreq performance
Graphics Notes: GLAMOR

	fglrx 15.20.3	Linux 4.4 + Mesa 11.1	Linux 4.4 + Mesa 11.1 + DRI3	Linux 4.5 + Mesa 11.1 + DRI3	Linux 4.5 + Mesa 11.2 + DRI3
GpuTest - Plot3D - 1920 x 1080 - Fullscreen (Points)	**18761**	**10039**	**10039**	10040	10060
Normalized	100%	53.51%	53.51%	53.52%	53.62%
Standard Deviation	0.4%	0%	0.9%	0.6%	0%
Xonotic - 1920 x 1080 - High	**129.00**	**86.81**	89.09	89.21	90.14
Normalized	100%	67.29%	69.06%	69.16%	69.88%

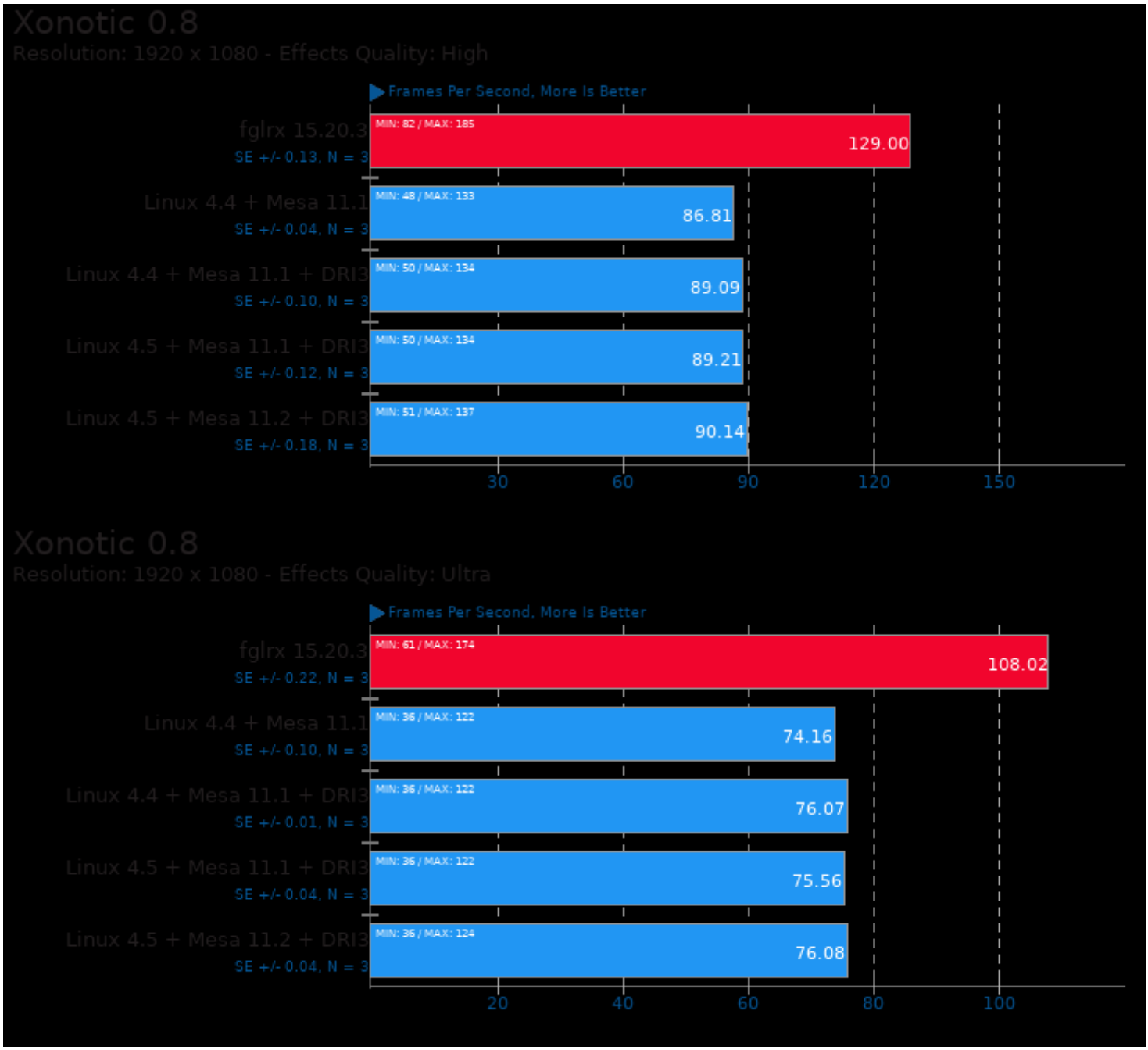
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Standard Deviation	0.2%	0.1%	0.2%	0.2%	0.4%
Xonotic - 1920 x 1080 - Ultra	**108.02**	**74.16**	76.07	75.56	76.08
Normalized	100%	68.65%	70.42%	69.95%	70.43%
Standard Deviation	0.3%	0.2%	0%	0.1%	0.1%
Xonotic - 1920 x 1080 - Ultimate (FPS)	**76.70**	**55.86**	56.75	56.77	56.94
Normalized	100%	72.83%	73.99%	74.02%	74.24%
Standard Deviation	0.1%	0.1%	0.4%	0.3%	0.5%
OpenArena - 1920 x 1080 (FPS)	**54.20**	42.97	42.97	42.97	**42.57**
Normalized	100%	79.28%	79.28%	79.28%	78.54%
Standard Deviation	0.2%	0.3%	0.1%	0.1%	1.8%
Xonotic - 1920 x 1080 - Low	**193.41**	**158.39**	170.41	170.80	171.57
Normalized	100%	81.89%	88.11%	88.31%	88.71%
Standard Deviation	1.4%	0.3%	0.2%	0.4%	0.4%
Tesseract - 1920 x 1080 (FPS)	**63.36**	**53.05**	53.21	53.24	54.52
Normalized	100%	83.73%	83.98%	84.03%	86.05%
Standard Deviation	0.6%	0.7%	0.7%	1%	0.8%
GpuTest - GiMark - 1920 x 1080 - Fullscreen (Points)	780				
Standard Deviation	0.7%				
GpuTest - Furmark - 1920 x 1080 - Fullscreen (Points)	**580**	482		**393**	
Normalized	100%	83.1%		67.76%	
Standard Deviation	0.1%	3.1%		13.6%	

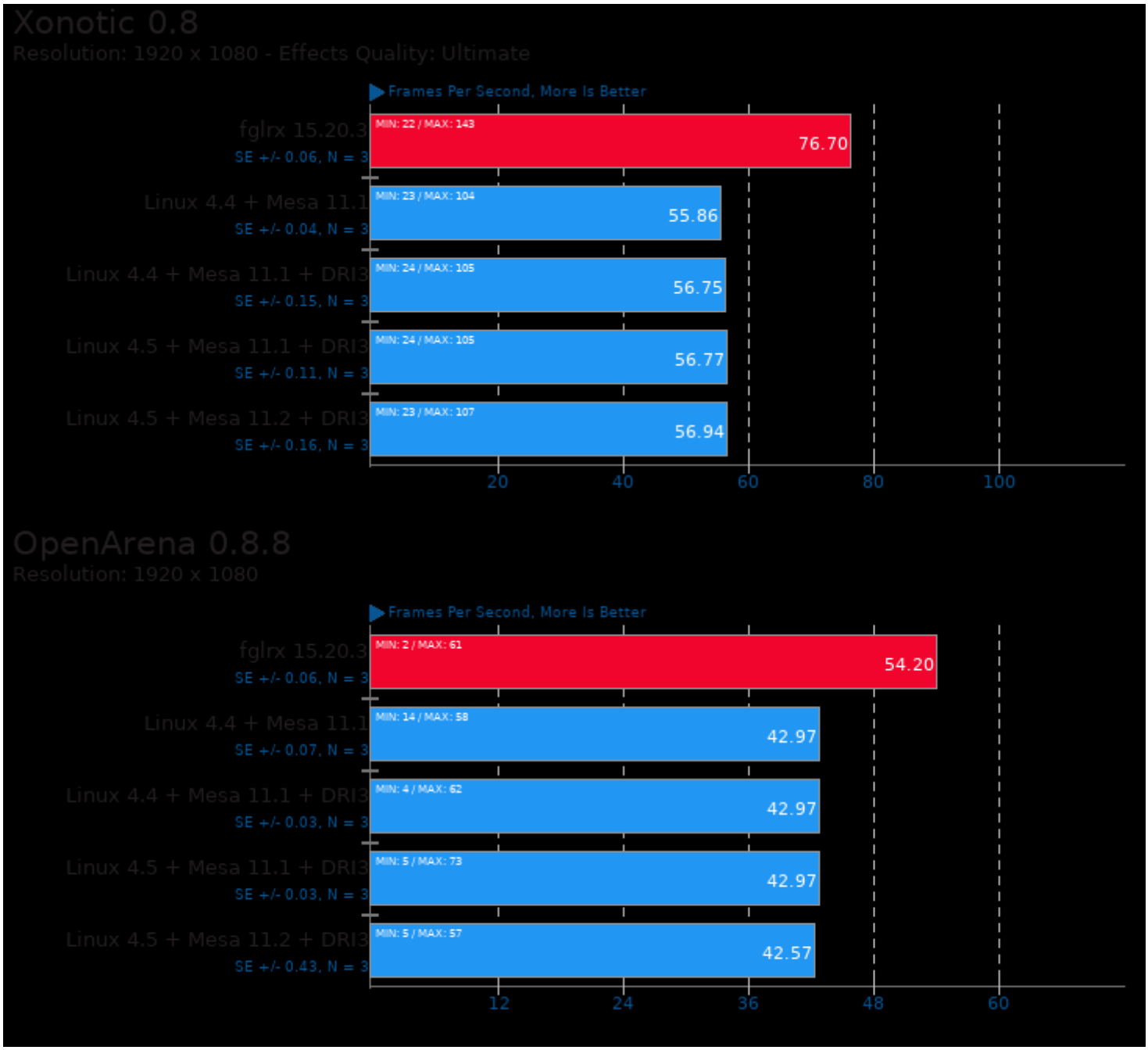
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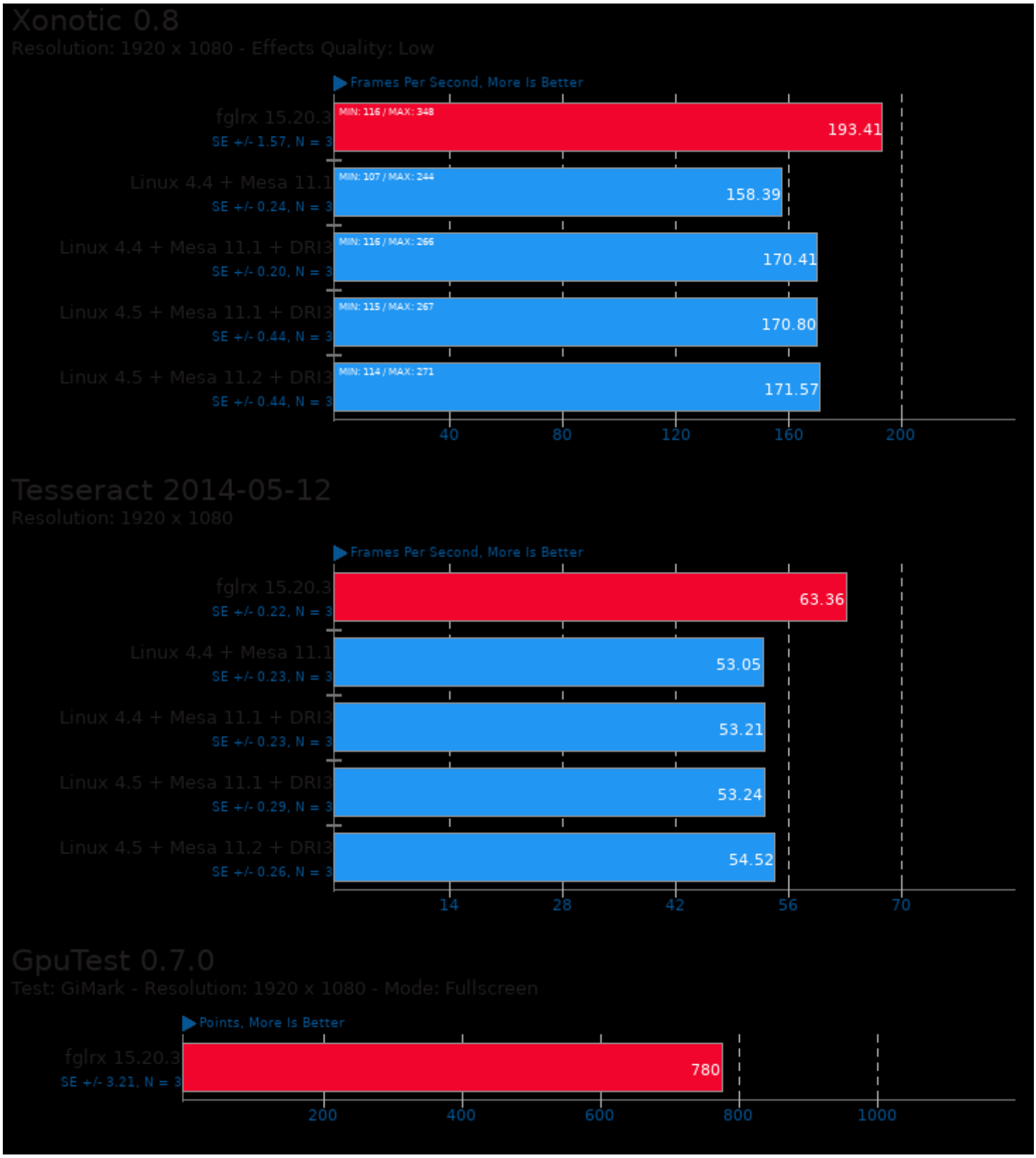
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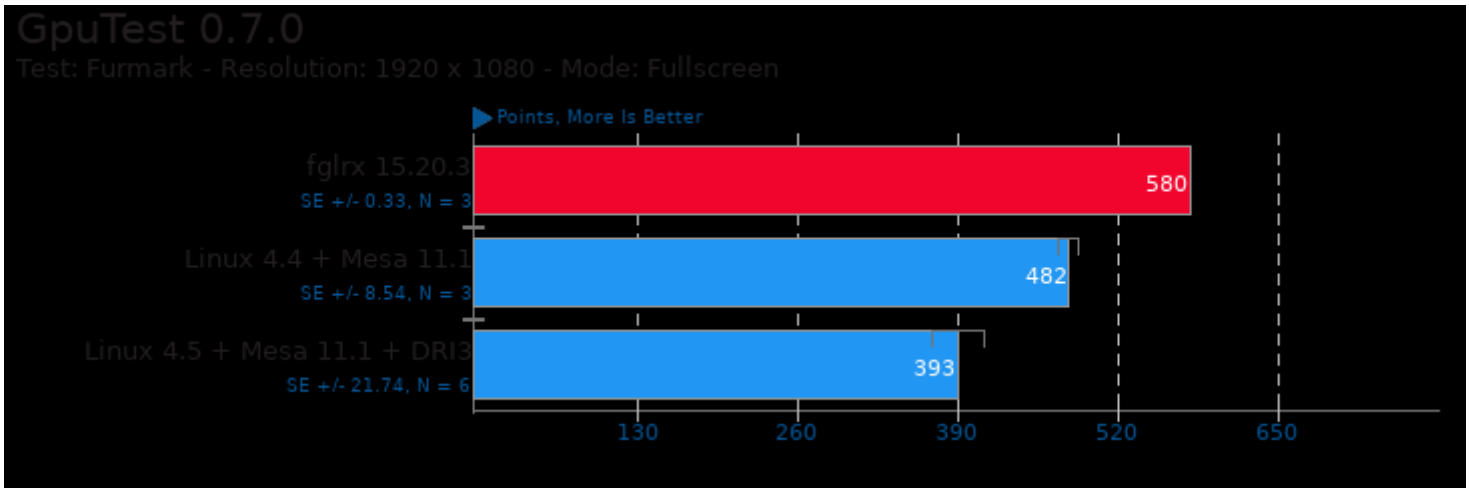


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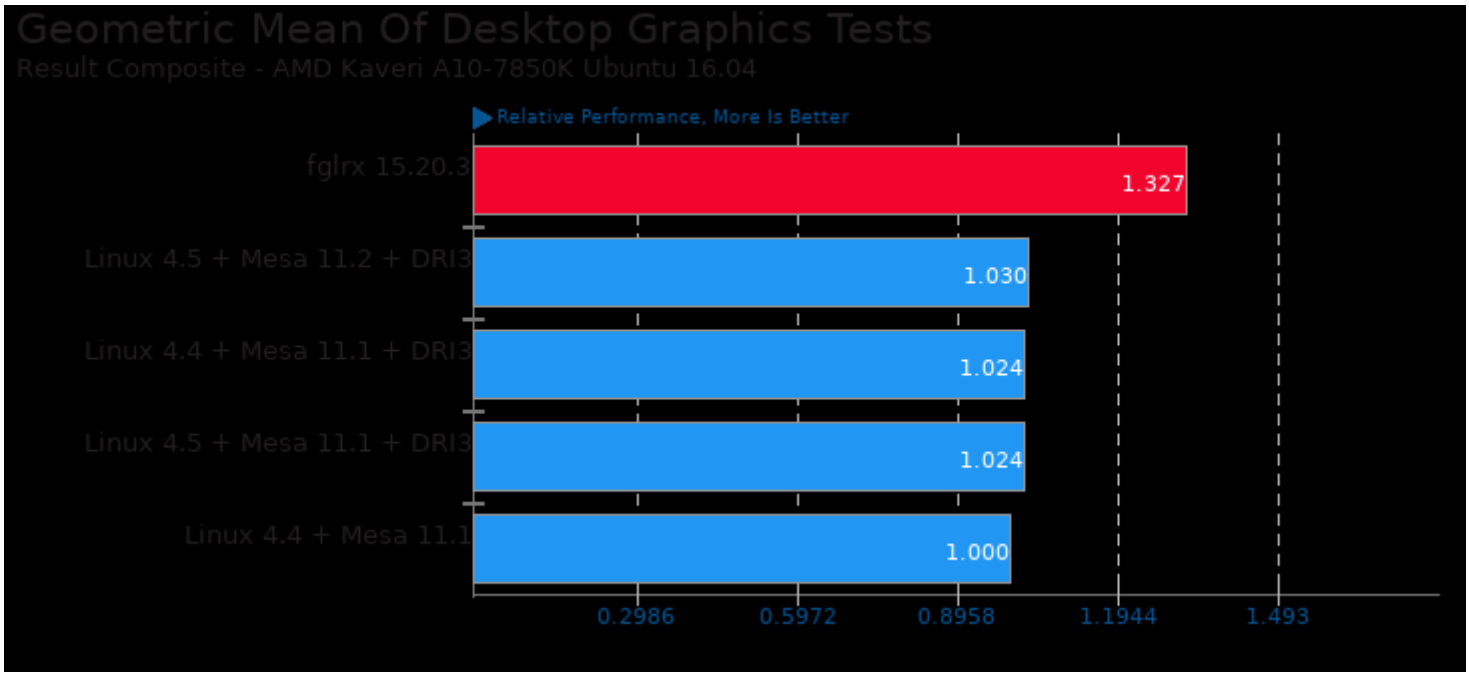


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GpuTest 0.7.0
Test: Furmark - Resolution: 1920 x 1080 - Mode: Fullscreen
Points, More Is Better
fglrx 15.20.3
SE +/- 0.33, N = 3
580
Linux 4.4 + Mesa 11.1
SE +/- 8.54, N = 3
482
Linux 4.5 + Mesa 11.1 + DRI3
SE +/- 21.74, N = 6
393
130
260
390
520
650

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



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

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 04:58.