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2daccel-20140508

Intel Core i7-3770K testing with a ASRock Z77 Pro4-M and Sapphire AMD Radeon HD 7950/8950 OEM / R9 280 3072MB on Gentoo 2.2 via the Phoronix Test Suite.

Automated Executive Summary

Intel HD 4000 SNA had the most wins, coming in first place for 85% of the tests.

Based on the geometric mean of all complete results, the fastest (Intel HD 4000 SNA) was 1.74x the speed of the slowest (AMD Radeon HD7950 3.15 + PTE). AMD Radeon HD7950 Catalyst 14.4 was 0.672x the speed of Intel HD 4000 SNA and AMD Radeon HD7950 3.15 + PTE was 0.855x the speed of AMD Radeon HD7950 Catalyst 14.4.

Test Systems:

AMD Radeon HD7950 3.15 + PTE

Processor: Intel Core i7-3770K @ 3.90GHz (8 Cores), Motherboard: ASRock Z77 Pro4-M, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 16384MB, Disk: 256GB OCZ VECTOR + 2 x 1000GB SAMSUNG HD103UJ + 80GB INTEL

SSDSA2M080 + 2 x 1000GB External USB 3.0, Graphics: Sapphire AMD Radeon HD 7950/8950 OEM / R9 280 3072MB (810/1250MHz), Audio: Intel 7 /C210, Monitor: SAMSUNG, Network: Realtek RTL8111/8168/8411

OS: Gentoo 2.2, Kernel: 3.15.0-rc4-core-avx-i-pte (x86_64), Desktop: KDE, Display Server: X Server 1.15.99.902 (1.16.0 RC 2), Display Driver: radeon 7.3.99, OpenGL: 3.3 Mesa 10.3.0-devel (git-cf93f86) Gallium 0.4, Compiler: GCC 4.8.2 + Clang 3.5.0 + LLVM 3.5.0svn, File-System: ext4, Screen Resolution: 1360x768

Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/4.8.2 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2 --disable-altivec --disable-fixed-point --disable-isl-version-check --disable-libgcj --disable-libmudflap --disable-libssp --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/4.8.2/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/man --with-cloog --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/python
Graphics Notes: GLAMOR

AMD Radeon HD7950 Catalyst 14.4

Processor: Intel Core i7-3770K @ 3.90GHz (8 Cores), Motherboard: ASRock Z77 Pro4-M, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 16384MB, Disk: 256GB OCZ VECTOR + 2 x 1000GB SAMSUNG HD103UJ + 80GB INTEL SSDSA2M080 + 2 x 1000GB External USB 3.0, Graphics: Sapphire AMD Radeon HD 7900 3072MB, Audio: Realtek ALC892, Monitor: LCD3090WQXi + LCD3090WQXi, Network: Realtek RTL8111/8168/8411

OS: Gentoo 2.2, Kernel: 3.14.3-core-avx-i (x86_64), Desktop: KDE, Display Server: X Server 1.15.1, OpenGL: 4.4.12874, Compiler: GCC 4.8.2 + Clang 3.5.0 + LLVM 3.5.0svn, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib64/dri:/usr/lib32/dri
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/4.8.2 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2 --disable-altivec --disable-fixed-point --disable-isl-version-check --disable-libgcj --disable-libmudflap --disable-libssp --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/4.8.2/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/man --with-cloog --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/python

Intel HD 4000 SNA

Processor: Intel Core i7-3770K @ 3.90GHz (8 Cores), Motherboard: ASRock Z77 Pro4-M, Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 16384MB, Disk: 256GB OCZ VECTOR + 2 x 1000GB SAMSUNG HD103UJ + 80GB INTEL SSDSA2M080 + 2 x 1000GB External USB 3.0, Graphics: Intel HD 4000 3072MB, Audio: Intel 7 /C210, Network: Realtek RTL8111/8168/8411

OS: Gentoo 2.2, Kernel: 3.15.0-rc4-core-avx-i-pte (x86_64), Desktop: KDE, Display Server: X Server 1.15.99.902 (1.16.0 RC 2), OpenGL: 3.3 Mesa 10.3.0-devel (git-cf93f86), Compiler: GCC 4.8.2 + Clang 3.5.0 + LLVM 3.5.0svn, File-System: ext4, Screen Resolution: 1360x768

Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/4.8.2 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2 --disable-altivec --disable-fixed-point --disable-isl-version-check --disable-libgcj --disable-libmudflap --disable-libssp --disable-werror --enable-__cxa_atexit --enable-checking=release --enable-clocale=gnu --enable-languages=c,c++,fortran --enable-libgomp --enable-libstdcxx-time --enable-lto --enable-multilib --enable-nls --enable-obsolete --enable-secureplt --enable-shared --enable-targets=all --enable-threads=posix --host=x86_64-pc-linux-gnu --includedir=/usr/lib/gcc/x86_64-pc-linux-gnu/4.8.2/include --mandir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/man --with-cloog --with-multilib-list=m32,m64 --with-python-dir=/share/gcc-data/x86_64-pc-linux-gnu/4.8.2/python
Graphics Notes: SNA

	AMD Radeon HD7950 3.15 + PTE	AMD Radeon HD7950 Catalyst 14.4	Intel HD 4000 SNA
x11perf - C.i.8.c.a.l (Operations / Second)	6273333	**4623333**	**21633333**

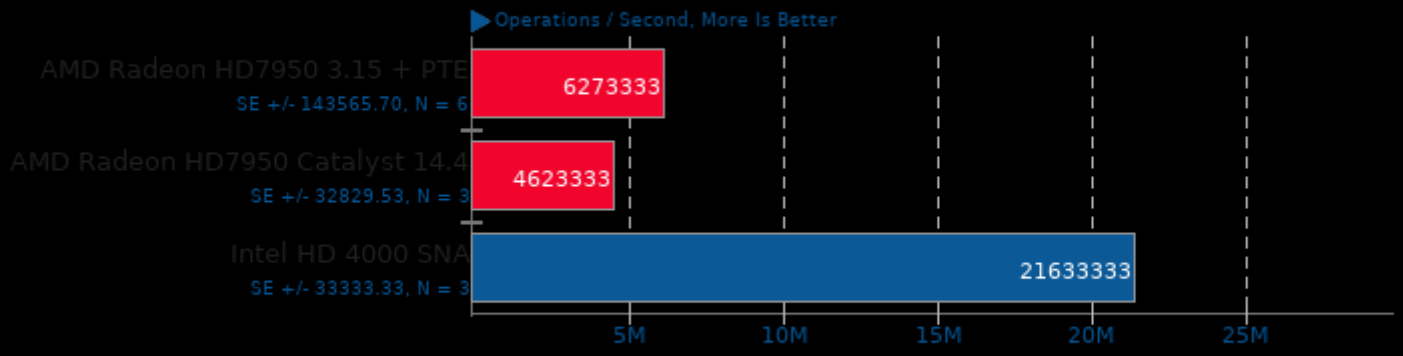
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Normalized	29%	21.37%	100%
Standard Deviation	5.6%	1.2%	0.3%
x11perf - 5.C.F.W.T.W (Operations / Second)	**26900**	10833	**7130**
Normalized	100%	40.27%	26.51%
Standard Deviation	0%	0.5%	0%
GtkPerf - GtkCheckButton (sec)	**11.62**	7.79	**4.11**
Normalized	35.37%	52.76%	100%
Standard Deviation	2.3%	2.8%	2.6%
GtkPerf - GtkToggleButton (sec)	**11.40**	7.82	**4.25**
Normalized	37.28%	54.35%	100%
Standard Deviation	1.2%	0.8%	5.6%
x11perf - P.X.5.S (Operations / Second)	**68.23**	72.63	**157**
Normalized	43.46%	46.26%	100%
Standard Deviation	0.1%	1.3%	0%
x11perf - 5.P.S (Operations / Second)	**2590**	2940	**5677**
Normalized	45.62%	51.79%	100%
Standard Deviation	2.1%	0.9%	1%
GtkPerf - GtkComboBox (sec)	**56.28**	47.61	**27.94**
Normalized	49.64%	58.69%	100%
Standard Deviation	1.9%	1%	3%
x11perf - 5.C.F.P.T.W (Operations / Second)	**83500**	53800	**7750**
Normalized	100%	64.43%	9.28%
Standard Deviation	0%	0%	0%
QGears2 - XRender Extension - Image Scaling (FPS)	463.50	**426.68**	**499.82**
Normalized	92.73%	85.37%	100%
Standard Deviation	0.1%	2.3%	3%
QGears2 - XRender Extension - Text (FPS)	194.38	**192.66**	**198.45**
Normalized	97.95%	97.08%	100%
Standard Deviation	0.4%	4.3%	0.2%
QGears2 - XRender Extension - Gears (FPS)	196.22	**194.62**	**196.82**
Normalized	99.7%	98.88%	100%
Standard Deviation	3.7%	4.6%	0.1%
GtkPerf - GtkDrawingArea - Pixbufs (sec)	**5.14**	0.87	**0.32**
Normalized	6.23%	36.78%	100%
Standard Deviation	4.1%	5.2%	11%
GtkPerf - GtkDrawingArea - Circles (sec)	**27.05**	18.34	**7.85**
Normalized	29.02%	42.8%	100%
Standard Deviation	5.5%	14.7%	4%
cairo-perf-trace - Poppler (sec)	**4.48**	2.35	**0.77**
Normalized	17.19%	32.77%	100%
Standard Deviation	1%	10.8%	14.2%

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x11perf 1.5

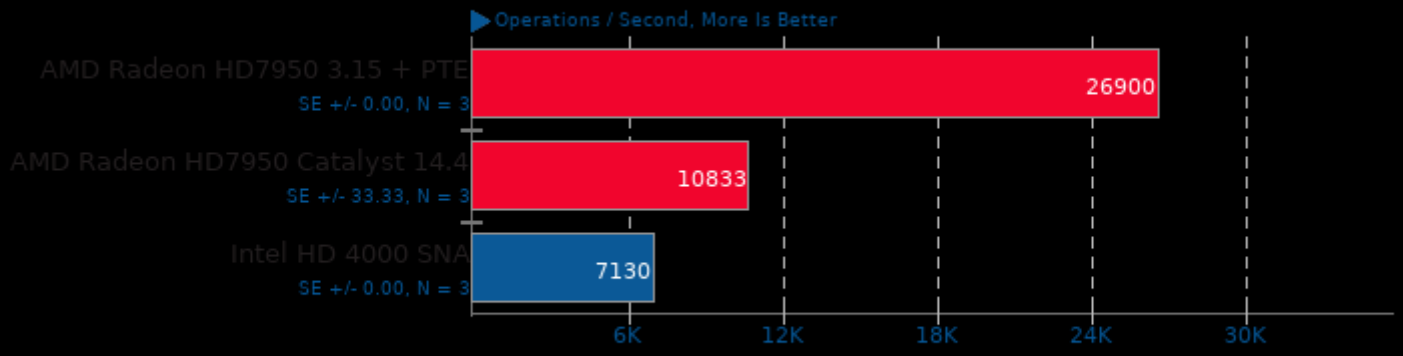
Test: Char in 80-char aa line



1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lXext -lXft -lXrender -lX11 -lXmuu -lm

x11perf 1.5

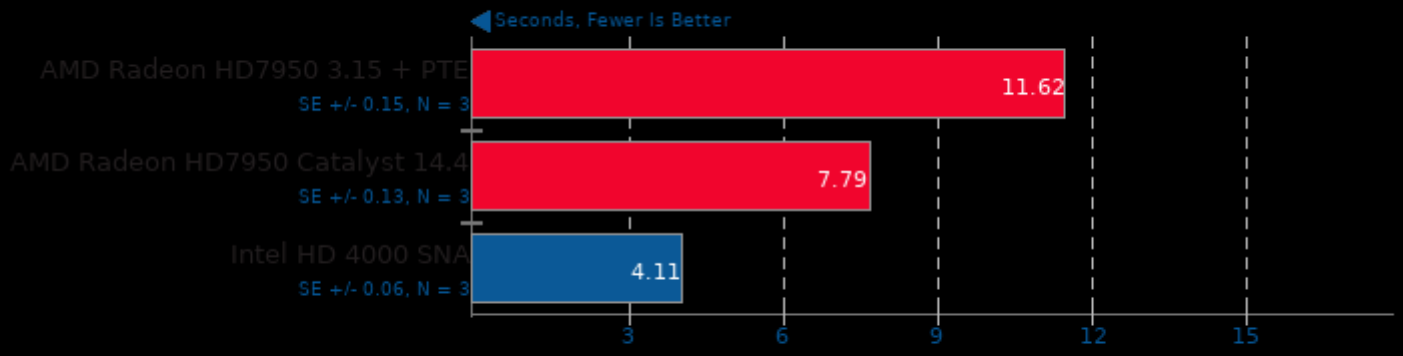
Test: 500px Compositing From Window To Window



1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lXext -lXft -lXrender -lX11 -lXmuu -lm

GtkPerf 0.40

GTK Widget: GtkCheckButton

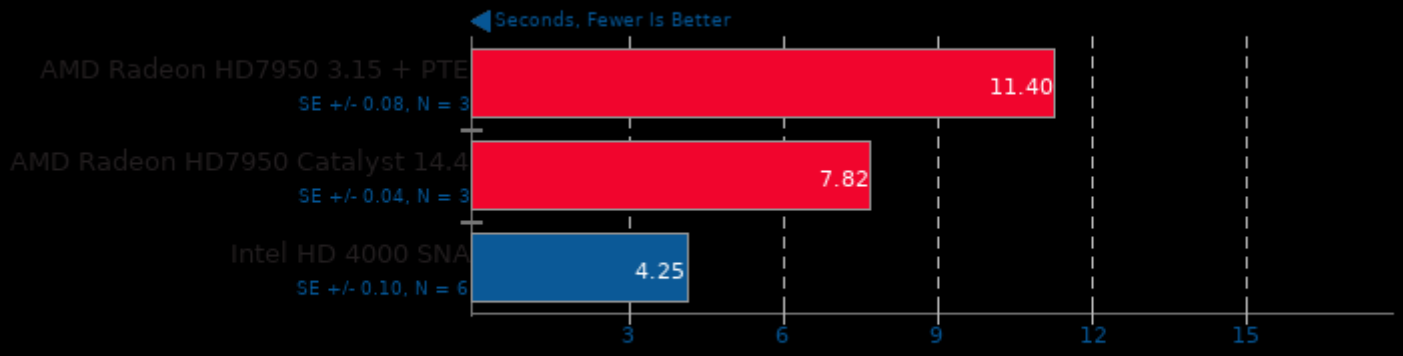


1. (CC) gcc options: -lgtk-x11-2.0 -latk-1.0 -lgio-2.0 -lpangoft2-1.0 -lfreetype -lgdk-x11-2.0 -lpangocairo-1.0 -lpango-1.0 -lcairo -lgdk_pixbuf-2.0 -lgobject-2

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GtkPerf 0.40

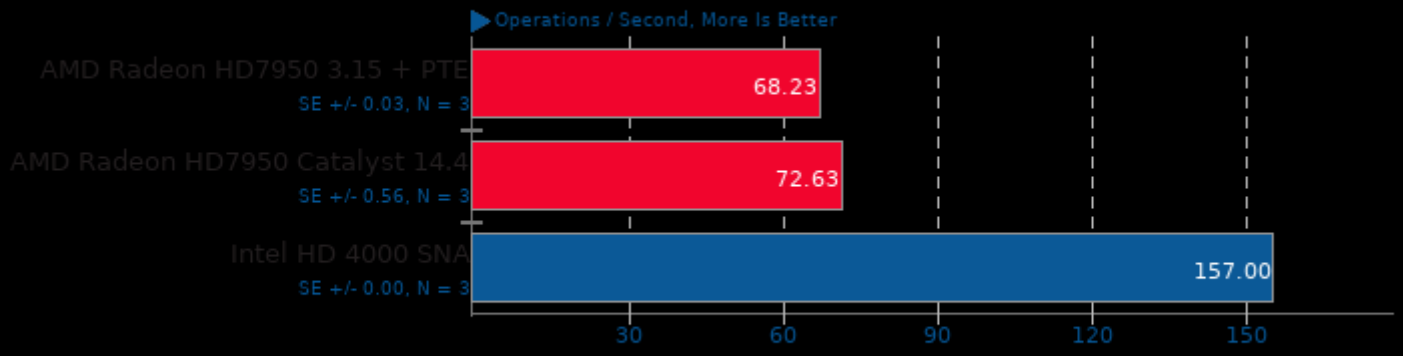
GTK Widget: GtkToggleButton



1. (CC) gcc options: -lgtk-x11-2.0 -latk-1.0 -lgio-2.0 -lpangoft2-1.0 -lfreetype -lgdk-x11-2.0 -lpangocairo-1.0 -lpango-1.0 -lcairo -lgdk_pixbuf-2.0 -lgobject-2

x11perf 1.5

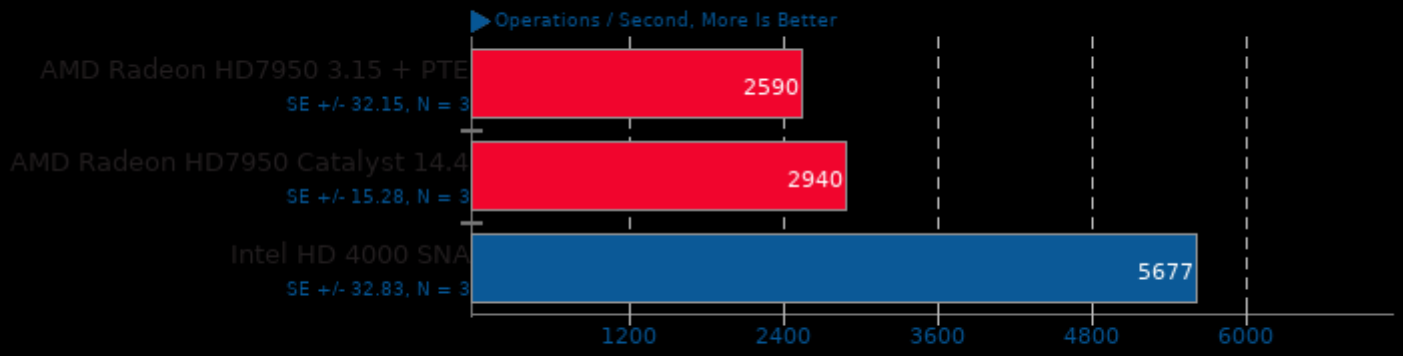
Test: PutImage XY 500x500 Square



1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lXext -lXft -lXrender -lX11 -lXmuu -lm

x11perf 1.5

Test: 500px PutImage Square

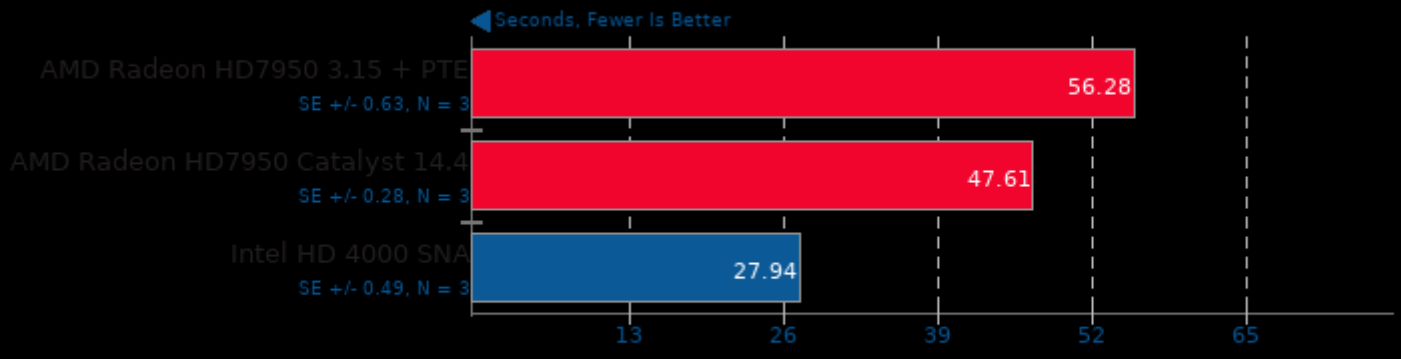


1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lXext -lXft -lXrender -lX11 -lXmuu -lm

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GtkPerf 0.40

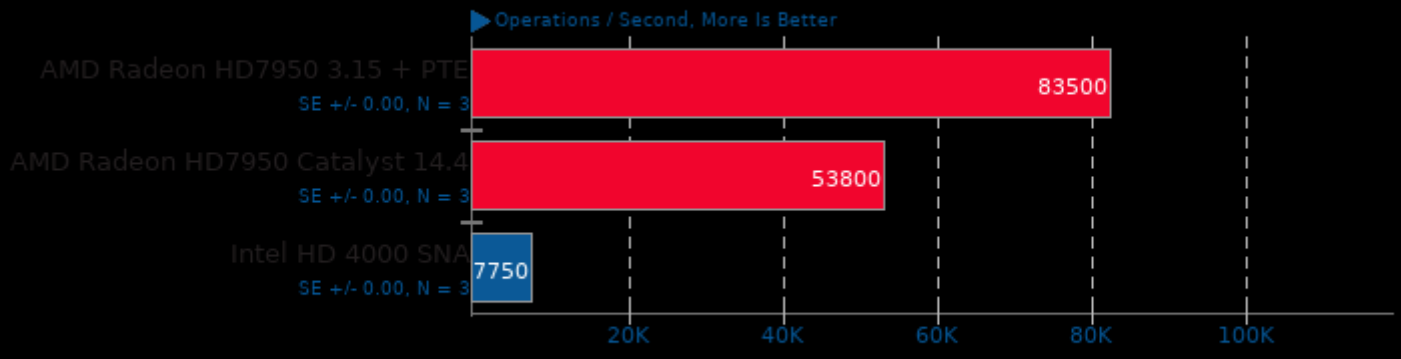
GTK Widget: GtkComboBox



1. (CC) gcc options: -lgtk-x11-2.0 -latk-1.0 -lgio-2.0 -lpangoft2-1.0 -lfreetype -lgdk-x11-2.0 -lpangocairo-1.0 -lpango-1.0 -lcairo -lgdk_pixbuf-2.0 -lgobject-2

x11perf 1.5

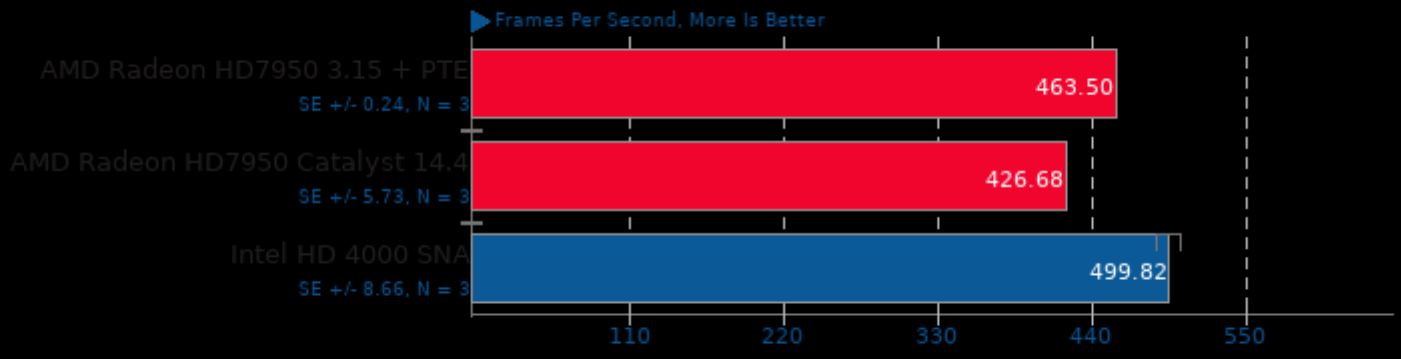
Test: 500px Compositing From Pixmap To Window



1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lXext -lXft -lXrender -lX11 -lXmuu -lm

QGears2

Rendering: XRender Extension - Test: Image Scaling

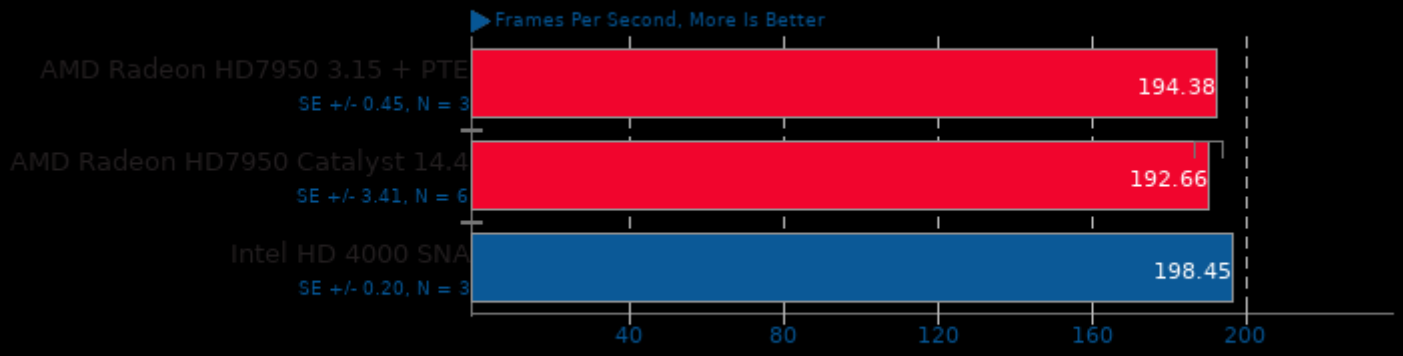


1. (CXX) g++ options: -lQtOpenGL -lQtGui -lQtCore -lgthread-2.0 -lrt -lglib-2.0 -lGL -lpthread

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QGears2

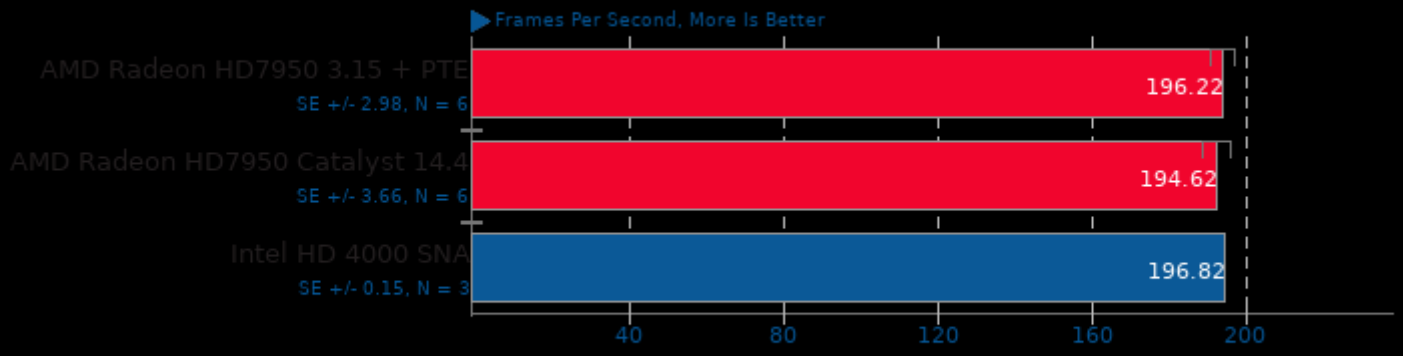
Rendering: XRender Extension - Test: Text



1. (CXX) g++ options: -lQtOpenGL -lQtGui -lQtCore -lgthread-2.0 -lrt -lglib-2.0 -lGL -lpthread

QGears2

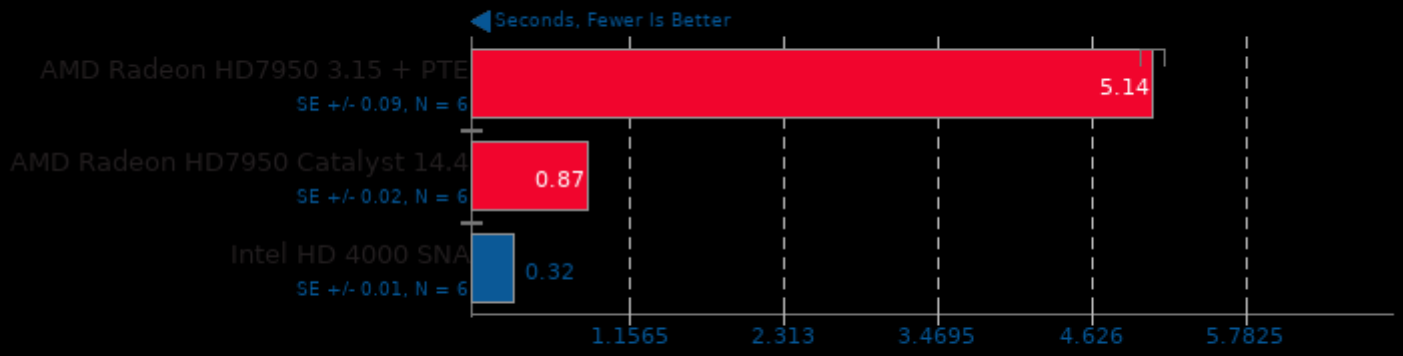
Rendering: XRender Extension - Test: Gears



1. (CXX) g++ options: -lQtOpenGL -lQtGui -lQtCore -lgthread-2.0 -lrt -lglib-2.0 -lGL -lpthread

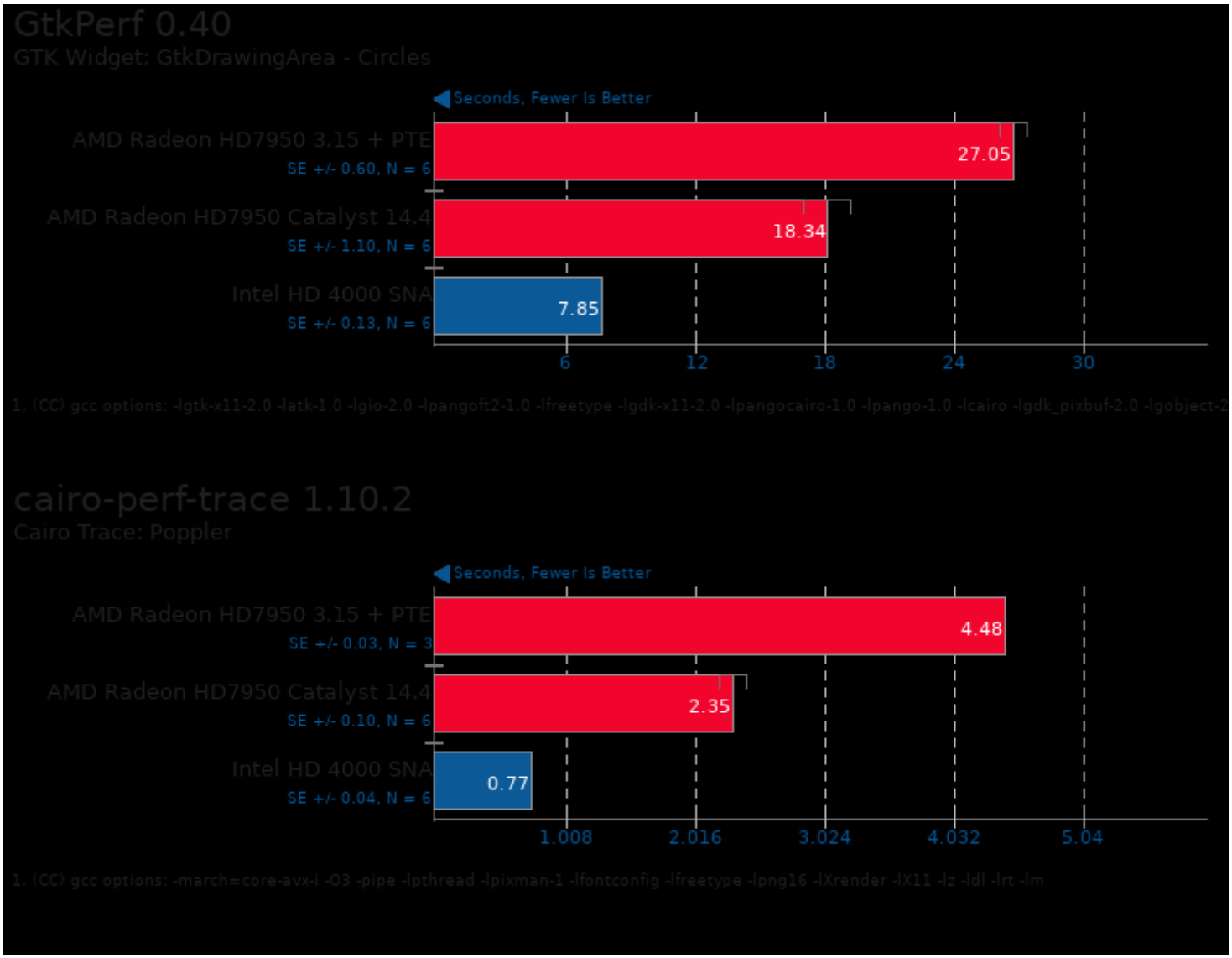
GtkPerf 0.40

GTK Widget: GtkDrawingArea - Pixbufs



1. (CC) gcc options: -lgtk-x11-2.0 -latk-1.0 -lgio-2.0 -lpangoft2-1.0 -lfreetype -lgdk-x11-2.0 -lpangocairo-1.0 -lpango-1.0 -lcairo -lgdk_pixbuf-2.0 -lgobject-2

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