


**www.phoronix-test-suite.com**

# 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

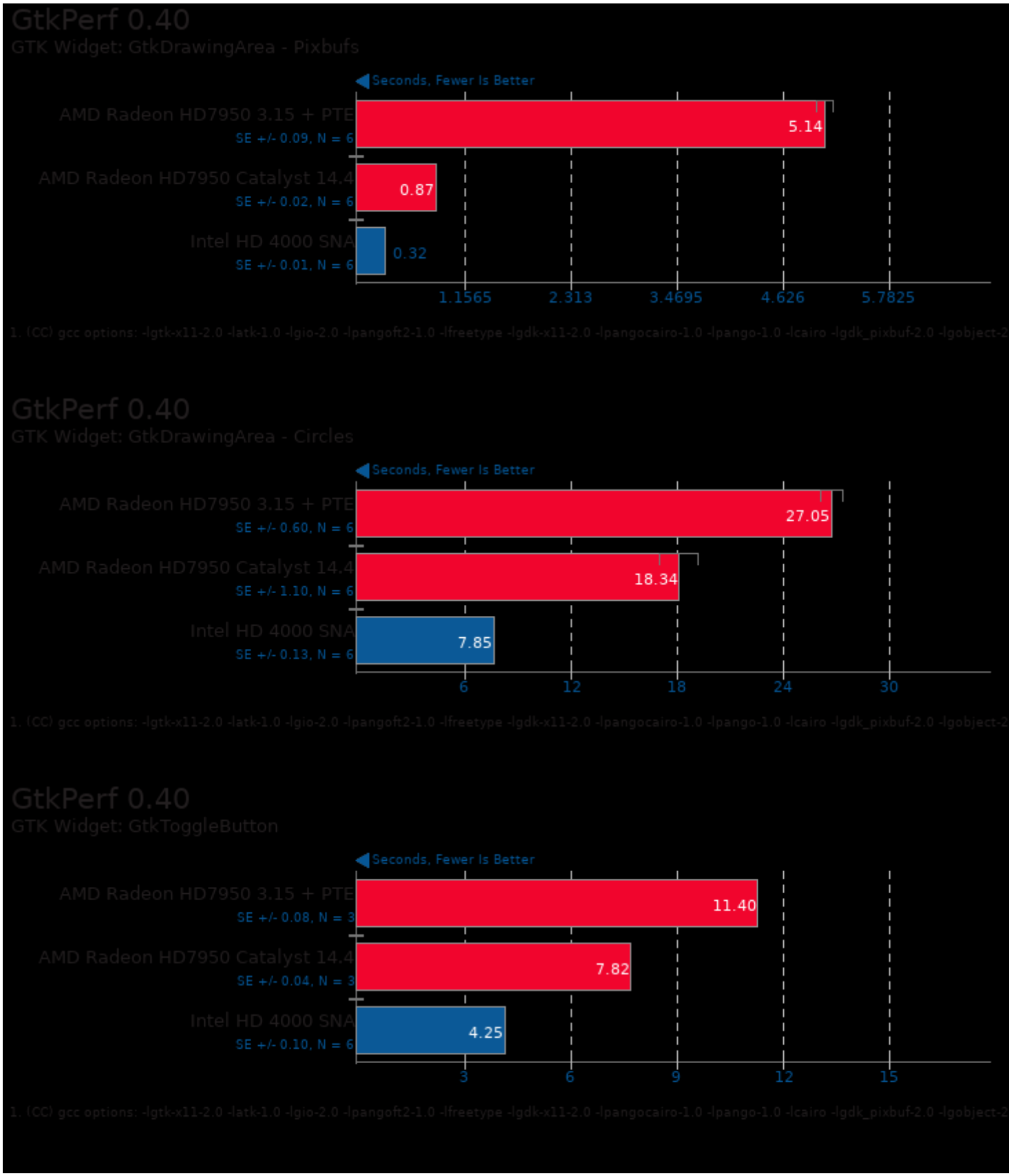
Compiler Notes: --bindir=/usr/x86_64-pc-linux-gnu/gcc-bin/4.8.2 --build=x86_64-pc-linux-gnu --datadir=/usr/share/gcc-data/x86_64-pc-linux-gnu/4.8.2 --disable-altivec --disable-fixed-point --disable-isl-version-check --disable-libgcj --disable-libmudflap --disable-libssp --disable-werror --enable-__cxa_atexit --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 |
|---|---|---|---|
| **GtkPerf - GtkDrawingArea - Pixbufs (sec)** | **5.14** | 0.87 | **0.32** |

# 2daccel-20140508

| | | | |
|---|---|---|---|
| **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% |
| **GtkPerf - GtkToggleButton (sec)** | **11.40** | 7.82 | **4.25** |
| **Normalized** | 37.28% | 54.35% | 100% |
| **Standard Deviation** | 1.2% | 0.8% | 5.6% |
| **GtkPerf - GtkCheckButton (sec)** | **11.62** | 7.79 | **4.11** |
| **Normalized** | 35.37% | 52.76% | 100% |
| **Standard Deviation** | 2.3% | 2.8% | 2.6% |
| **GtkPerf - GtkComboBox (sec)** | **56.28** | 47.61 | **27.94** |
| **Normalized** | 49.64% | 58.69% | 100% |
| **Standard Deviation** | 1.9% | 1% | 3% |
| **cairo-perf-trace - Poppler (sec)** | **4.48** | 2.35 | **0.77** |
| **Normalized** | 17.19% | 32.77% | 100% |
| **Standard Deviation** | 1% | 10.8% | 14.2% |
| **x11perf - 5.C.F.W.T.W (Operations / Second)** | **26900** | 10833 | **7130** |
| **Normalized** | 100% | 40.27% | 26.51% |
| **Standard Deviation** | 0% | 0.5% | 0% |
| **x11perf - 5.C.F.P.T.W (Operations / Second)** | **83500** | 53800 | **7750** |
| **Normalized** | 100% | 64.43% | 9.28% |
| **Standard Deviation** | 0% | 0% | 0% |
| **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 - C.i.8.c.a.l (Operations / Second)** | 6273333 | **4623333** | **21633333** |
| **Normalized** | 29% | 21.37% | 100% |
| **Standard Deviation** | 5.6% | 1.2% | 0.3% |
| **x11perf - 5.P.S (Operations / Second)** | **2590** | 2940 | **5677** |
| **Normalized** | 45.62% | 51.79% | 100% |
| **Standard Deviation** | 2.1% | 0.9% | 1% |
| **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 - Gears (FPS)** | 196.22 | **194.62** | **196.82** |
| **Normalized** | 99.7% | 98.88% | 100% |
| **Standard Deviation** | 3.7% | 4.6% | 0.1% |
| **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% |

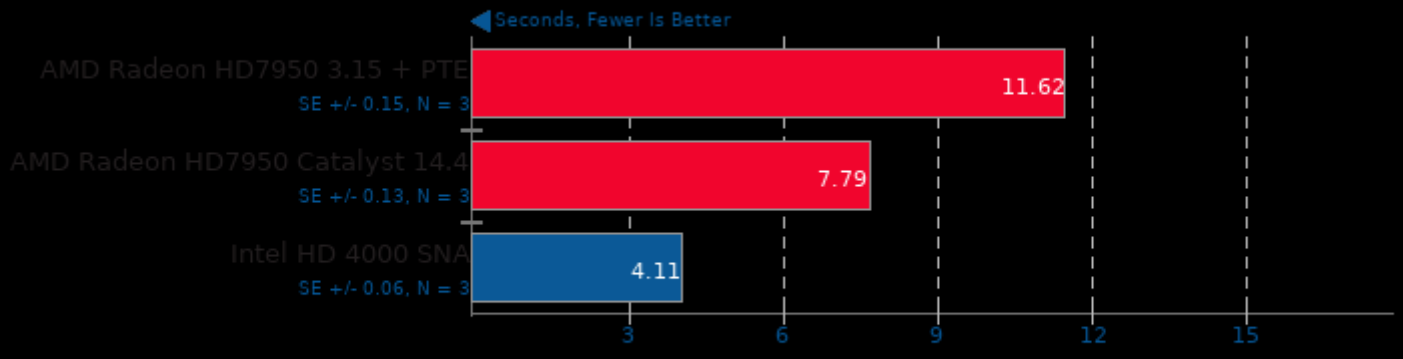
# 2daccel-20140508



# 2daccel-20140508

## GtkPerf 0.40

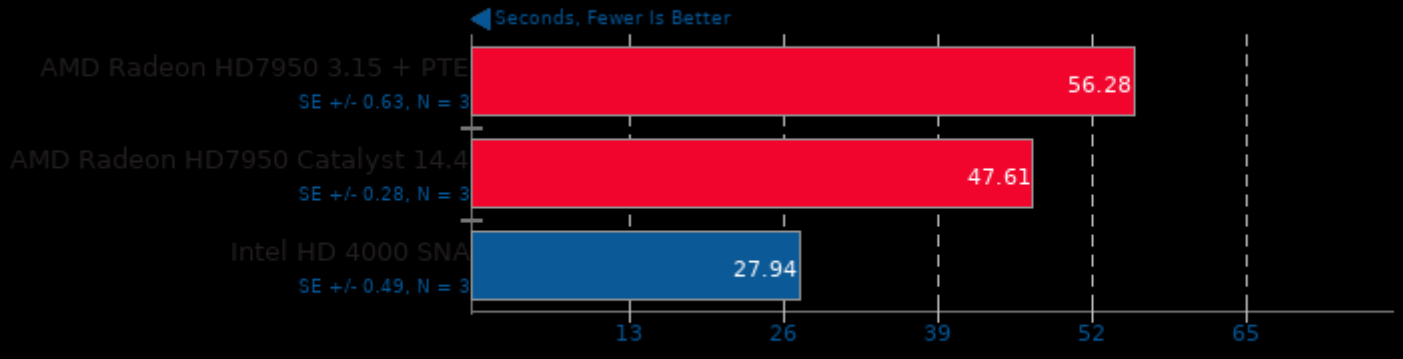
GTK Widget: GtkCheckButton




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

## GtkPerf 0.40

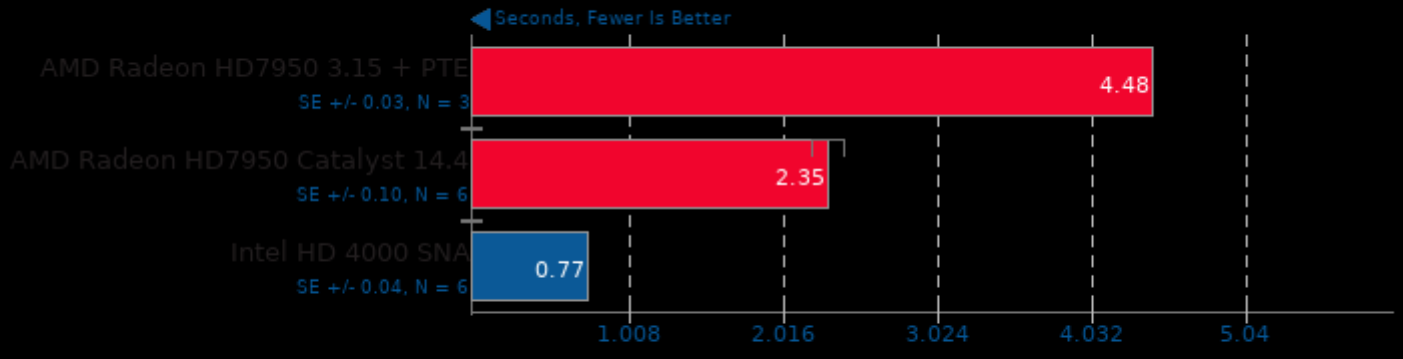
GTK Widget: GtkComboBox




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

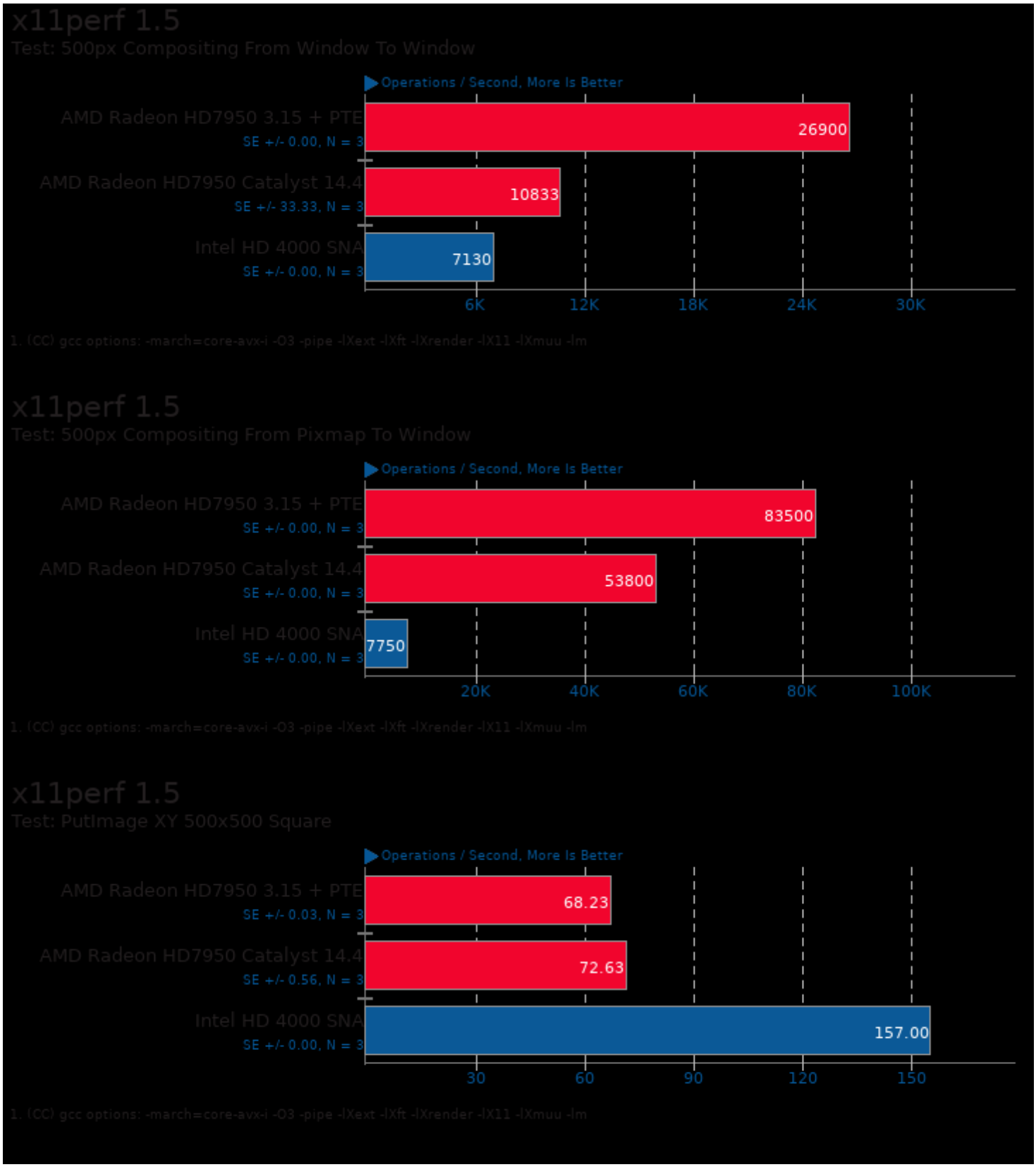
## cairo-perf-trace 1.10.2

Cairo Trace: Poppler




1. (CC) gcc options: -march=core-avx-i -O3 -pipe -lpthread -lpixman-1 -lfontconfig -lfreetype -lpng16 -lXrender -lX11 -lz -ldl -lrt -lm

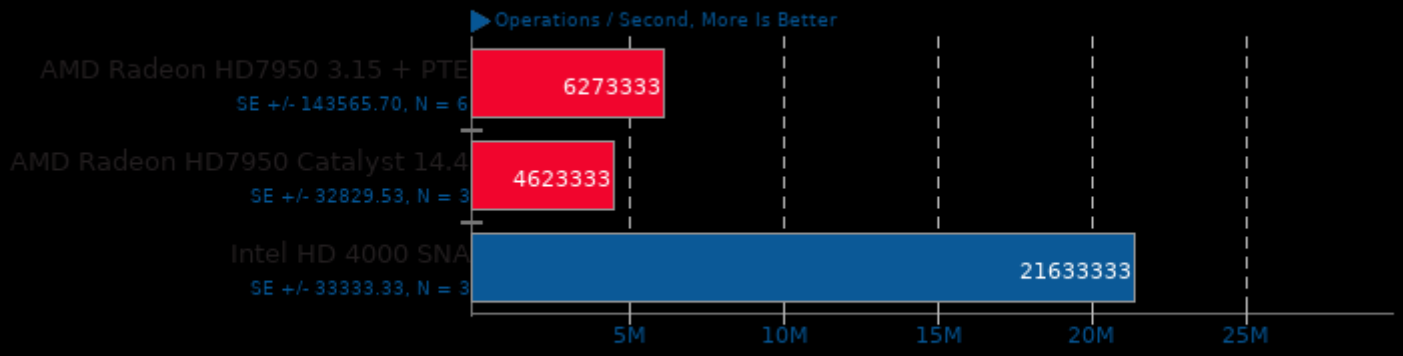
# 2daccel-20140508



# 2daccel-20140508

## x11perf 1.5

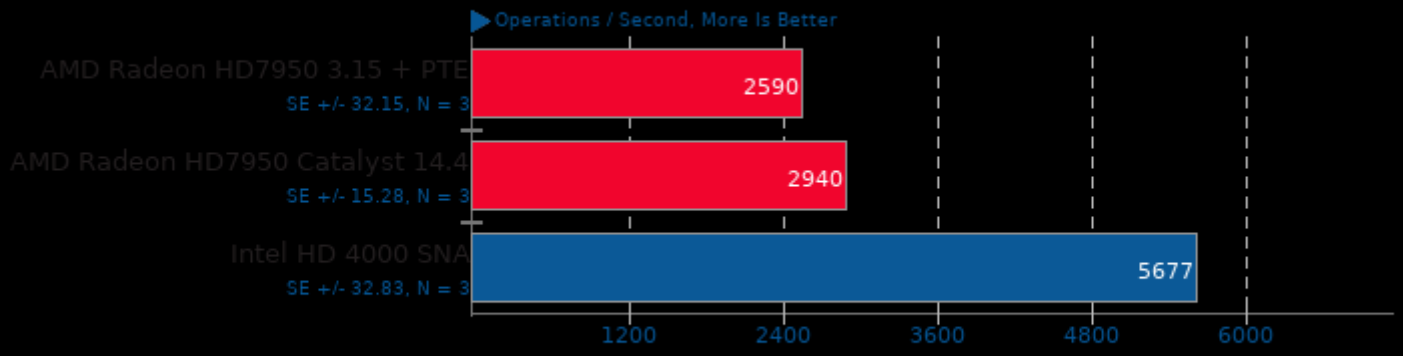
Test: Char in 80-char aa line




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

## x11perf 1.5

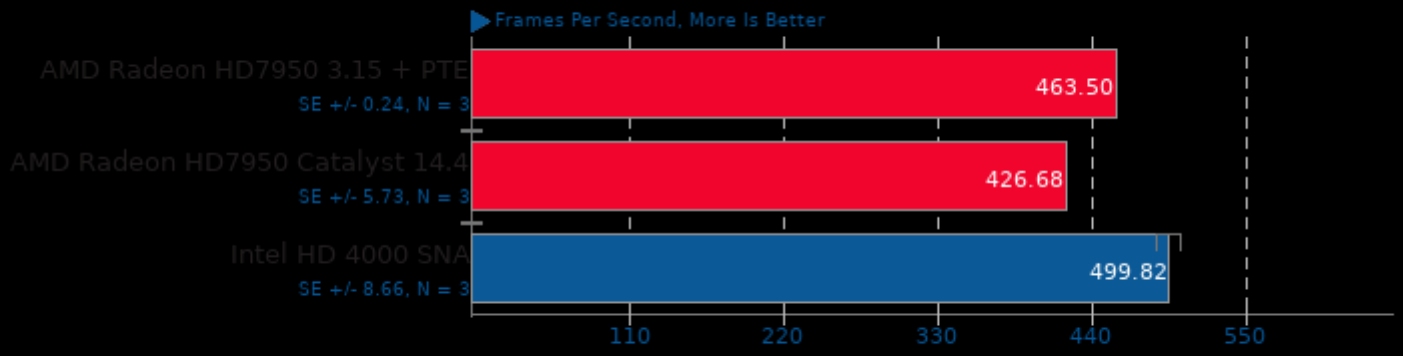
Test: 500px PutImage Square




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

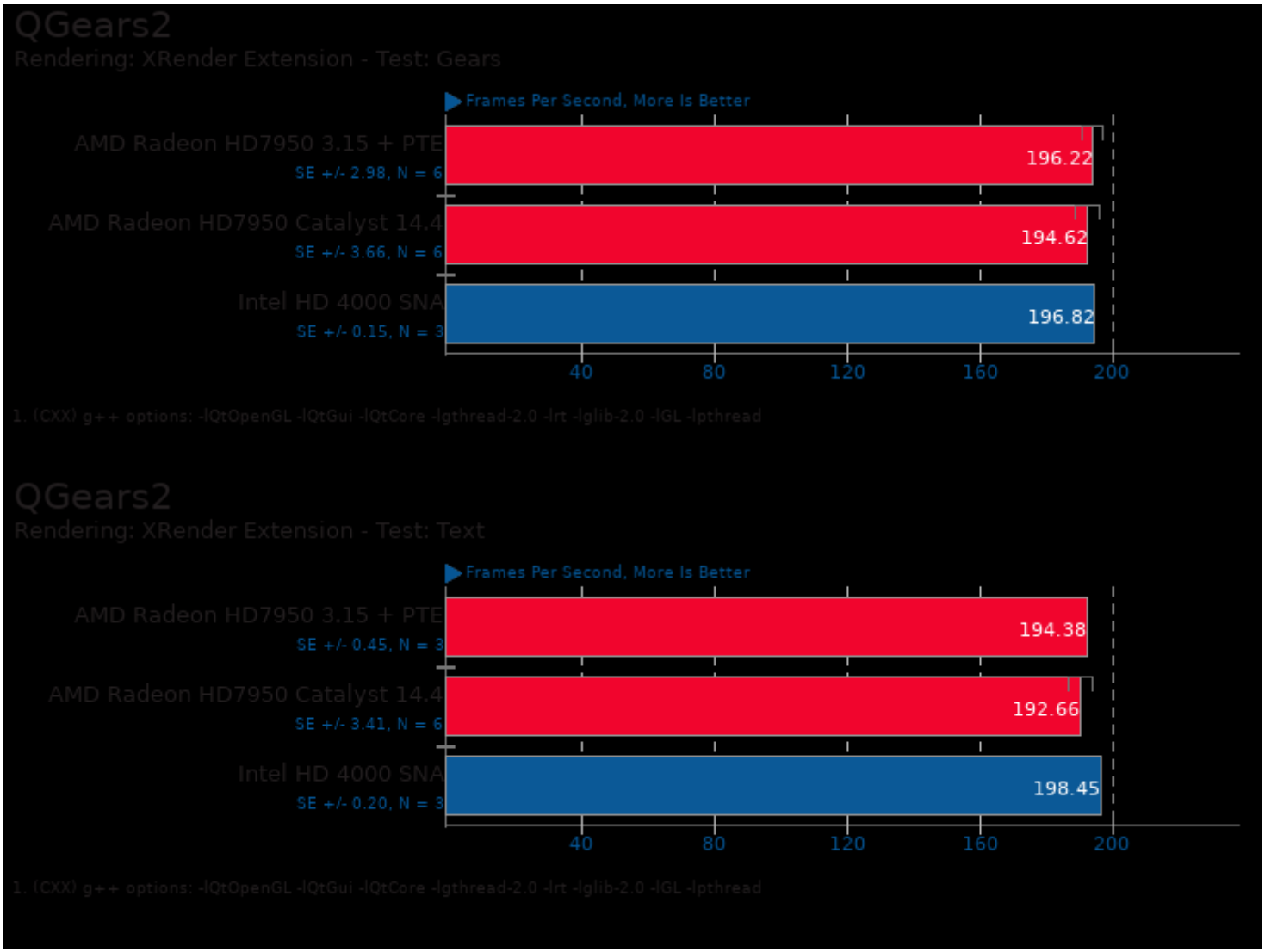
## QGears2

Rendering: XRender Extension - Test: Image Scaling




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

# 2daccel-20140508




*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 18:25.*