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AMD A10-7850K Ubuntu Linux

AMD A10-7850K APU with Radeon R7 testing with a ASUS A88X-PRO and ASUS AMD Radeon R7 1024MB on Ubuntu 14.04 Linux for a future article.

Test Systems:

AMD A10-7850K

Processor: AMD A10-7850K APU with Radeon R7 @ 3.70GHz (4 Cores), Motherboard: ASUS A88X-PRO, Chipset: AMD Device 1422, Memory: 7168MB, Disk: 120GB KINGSTON SV300S3, Graphics: ASUS AMD Radeon R7 1024MB (720MHz), Audio: ATI R6xx HDMI, Monitor: DELL S2409W, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.12.0-031200-generic (x86_64), Desktop: Unity 7.1.2, Display Server: X Server 1.14.5, Display Driver: fglrx 13.30.1, OpenGL: 4.3.12682, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Environment Notes: LIBGL_DRIVERS_PATH=/usr/lib/i386-linux-gnu/dri:/usr/lib/x86_64-linux-gnu/dri
Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --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-multilib-list=m32,m64,mx32 --with-tune=generic -v

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Processor Notes: Scaling Governor: acpi-cpufreq ondemand

	AMD A10-7850K
BLAKE2 - P.T.S.v.0.0 (Cycles/Byte)	8.23
Standard Deviation	0.4%
Botan - Tiger (Mbytes/s)	401.55
Botan - KASUMI (Mbytes/s)	69.69
Botan - AES-256 (Mbytes/s)	4102
Botan - Twofish (Mbytes/s)	181.96
Botan - CAST-256 (Mbytes/s)	86.30
Botan - X9.19-MAC (Mbytes/s)	66.71
John The Ripper - Blowfish (Real C/S)	3631
Standard Deviation	1.7%
John The Ripper - Traditional DES (Real C/S)	9059667
Standard Deviation	0.9%
John The Ripper - MD5 (Real C/S)	61971
Standard Deviation	0.1%
x264 - H.2.V.E (FPS)	90.34
Standard Deviation	0.5%
Timed Apache Compilation - Time To Compile (sec)	55.33
Standard Deviation	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	162.65
Standard Deviation	0.9%
C-Ray - Total Time (sec)	56.41
Standard Deviation	0.2%
Open Porous Media - Upscale-Relperm (sec)	123.14
Standard Deviation	0.3%
FFmpeg - H.2.H.T.N.D (sec)	20.84
Standard Deviation	1.6%
OpenSSL - R.4.b.P (Signs/sec)	334.13
Standard Deviation	1%

BLAKE2 20130131

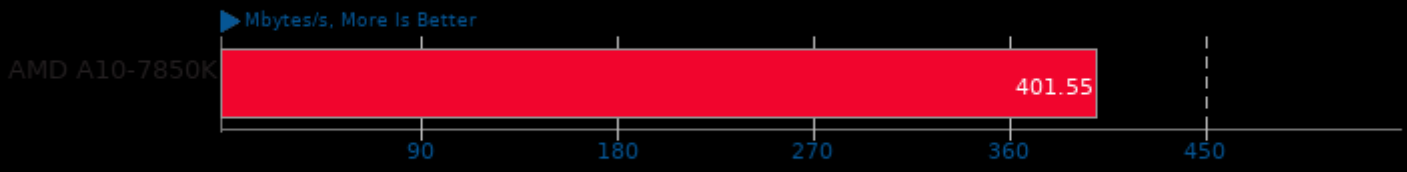
Phoronix Test Suite v5.0.0m0



1. (CC) gcc options: -std=gnu99 -O3 -march=native -lcrypto -lz

Botan 1.11.6

Test: Tiger



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6

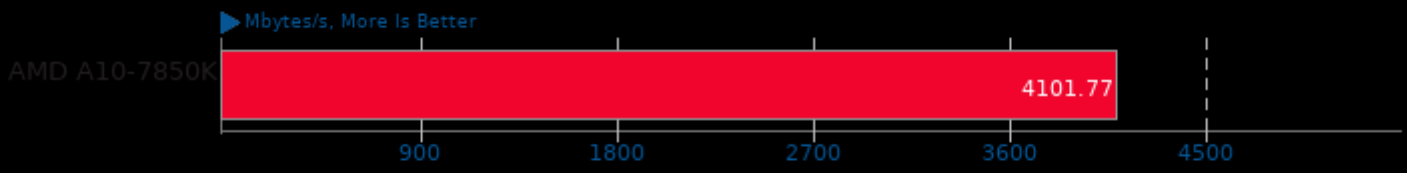
Test: KASUMI



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6

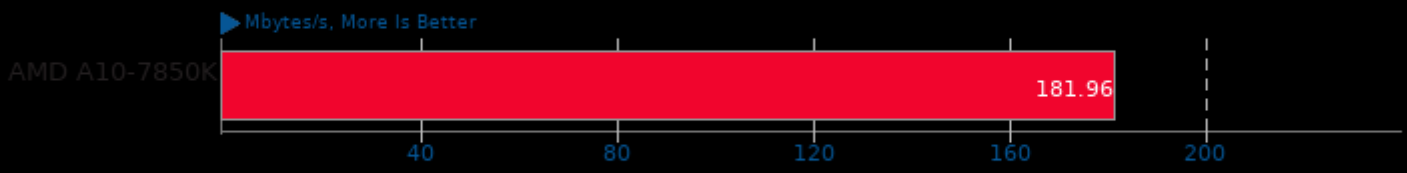
Test: AES-256



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6

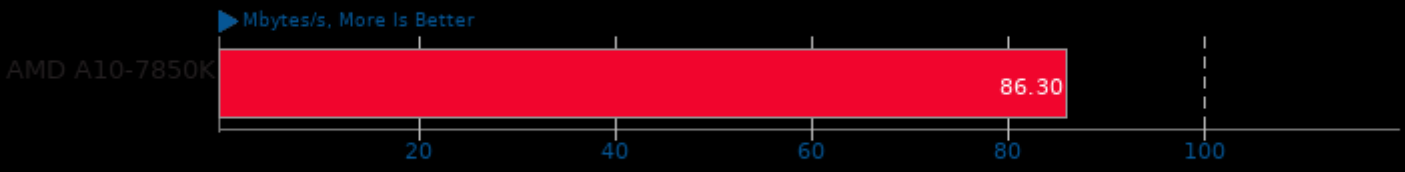
Test: Twofish



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6

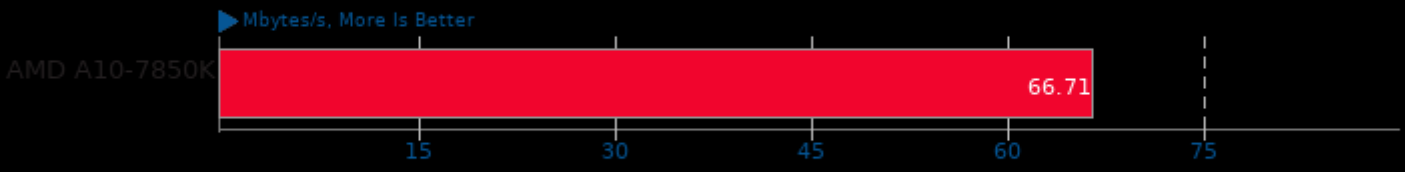
Test: CAST-256



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

Botan 1.11.6

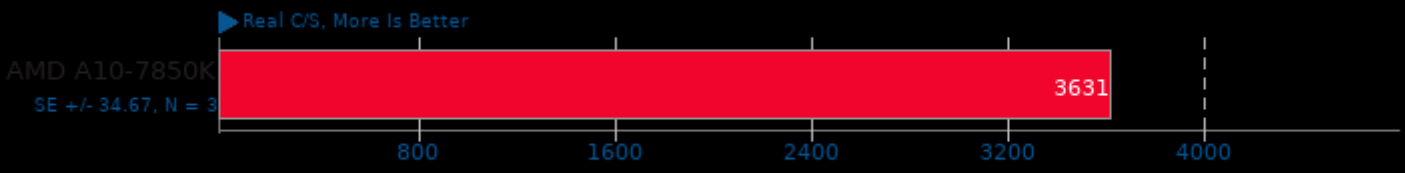
Test: X9.19-MAC



1. (CXX) g++ options: -m64 -pthread -lboost_filesystem -lboost_system -ldl -lrt -std=c++11 -fstack-protector -O2

John The Ripper 1.8.0

Test: Blowfish



1. (CC) gcc options: -fopenmp -lcrypt

John The Ripper 1.8.0

Test: Traditional DES



1. (CC) gcc options: -fopenmp -lcrypt

John The Ripper 1.8.0

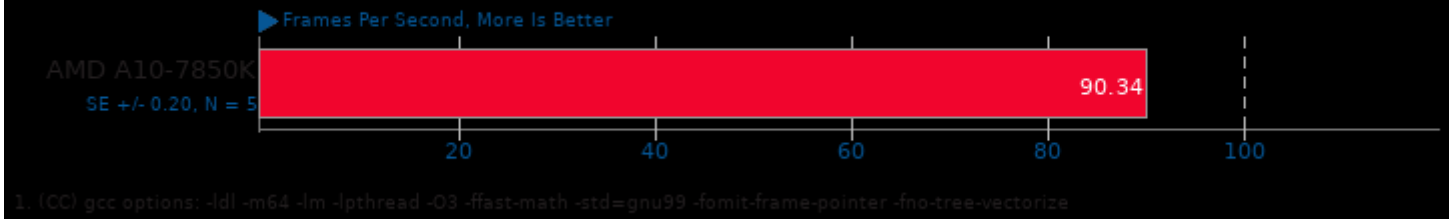
Test: MD5



1. (CC) gcc options: -fopenmp -lcrypt

x264 2014-01-09

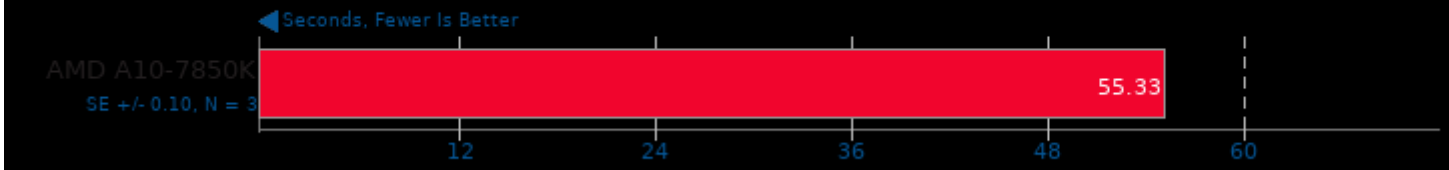
H.264 Video Encoding



1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fomit-frame-pointer -fno-tree-vectorize

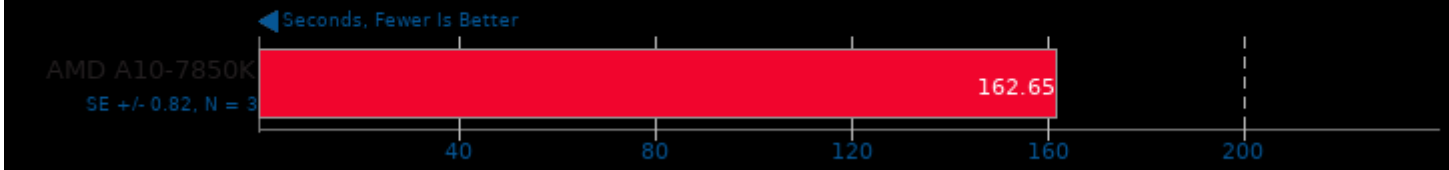
Timed Apache Compilation 2.4.7

Time To Compile



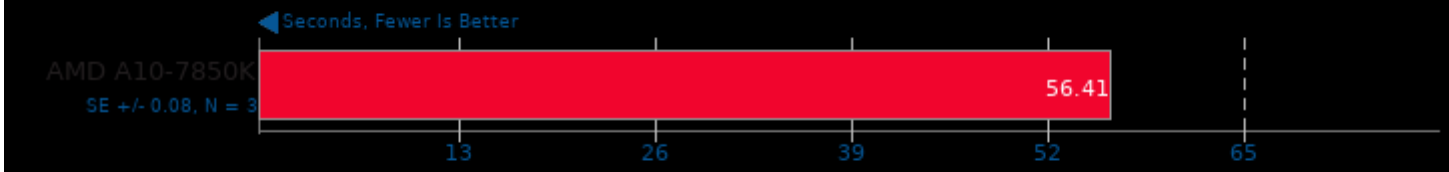
Timed Linux Kernel Compilation 3.1

Time To Compile



C-Ray 1.1

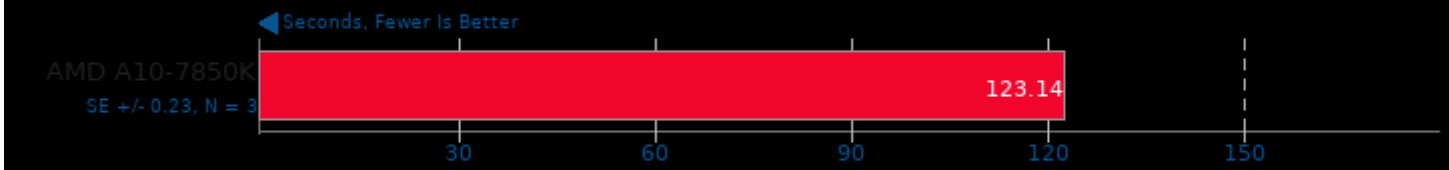
Total Time



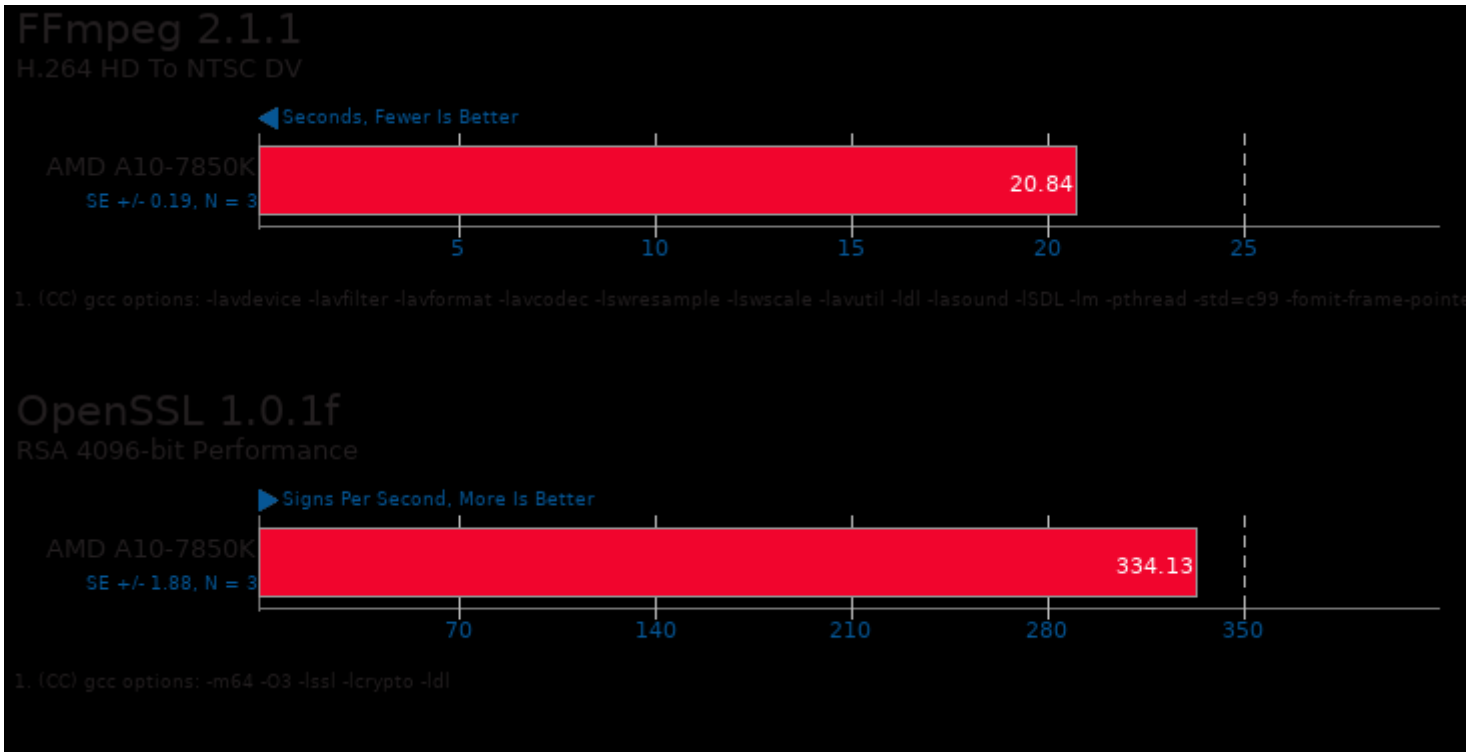
1. (CC) gcc options: -lm -lpthread -O3

Open Porous Media 2013-11-26

OPM Benchmark: Upscale-Relperm



1. (F9X) gfortran options: -rdynamic



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