



www.phoronix-test-suite.com

acer-r13

ARMv8 rev 2 testing on Arch Linux ARM via the Phoronix Test Suite.

Test Systems:

Acer R13 Chromebook Arch Linux

Processor: ARMv8 rev 2 @ 1.70GHz (4 Cores), Memory: 4096MB, Disk: 31GB HBG4a2 + 129GB 00000

OS: Arch Linux ARM, Kernel: 3.18.0-3-ARCH (aarch64), Compiler: GCC 6.2.1 20160830, File-System: ext4, Screen Resolution: 1920x1080

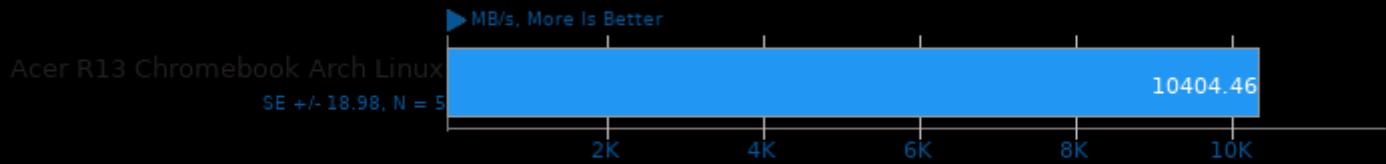
Compiler Notes: --build=aarch64-unknown-linux-gnu --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-multilib --disable-werror --enable-_cxa_atexit --enable-checking=release --enable-clocale-gnu --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liblberity --enable-languages=c,c++,fortran,go,lto,objc,obj-c++ --enable-lto --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-unknown-linux-gnu --mandir=/usr/share/man --with-arch=armv8-a --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: mtk-cpufreq interactive

Acer R13 Chromebook Arch

Stream - Copy (MB/s)	10404
Standard Deviation	0.4%
Stream - Scale (MB/s)	10257
Standard Deviation	0.4%
Stream - Triad (MB/s)	9199
Standard Deviation	0.4%
Stream - Add (MB/s)	9535
Standard Deviation	1.1%
Timed MAFFT Alignment - M.S.A (sec)	21.03
Standard Deviation	4.1%
TSCP - A.C.P (Nodes/s)	513689
Standard Deviation	0%
John The Ripper - Traditional DES (Real C/S)	1613833
Standard Deviation	6.5%
John The Ripper - Blowfish (Real C/S)	835
Standard Deviation	1.7%
x264 - H.2.V.E (FPS)	29.78
Standard Deviation	0.8%
GraphicsMagick - HWB Color Space (Iterations/min)	102
Standard Deviation	0.6%
GraphicsMagick - L.A.T (Iterations/min)	76
Standard Deviation	3.3%
GraphicsMagick - Sharpen (Iterations/min)	40
Standard Deviation	2.5%
GraphicsMagick - Resizing (Iterations/min)	72
Standard Deviation	0.8%
Himenzo Benchmark - P.P.S (MFLOPS)	469.62
Standard Deviation	1.1%
7-Zip Compression - C.S.T (MIPS)	4395
Standard Deviation	0.7%
C-Ray - Total Time (sec)	132.17
Standard Deviation	3.4%
Parallel BZIP2 Compression - 2.F.C (sec)	55.36
Standard Deviation	6.2%
Smallpt - G.I.R.1.S (sec)	486
Standard Deviation	0.5%
Crafty - Elapsed Time (sec)	162.04
Standard Deviation	0.6%
FLAC Audio Encoding - WAV To FLAC (sec)	33.62
Standard Deviation	2.4%
FFmpeg - H.2.H.T.N.D (sec)	78.71
Standard Deviation	2.1%
OpenSSL - R.4.b.P (Signs/sec)	34.93
Standard Deviation	3.9%

Stream 2013-01-17

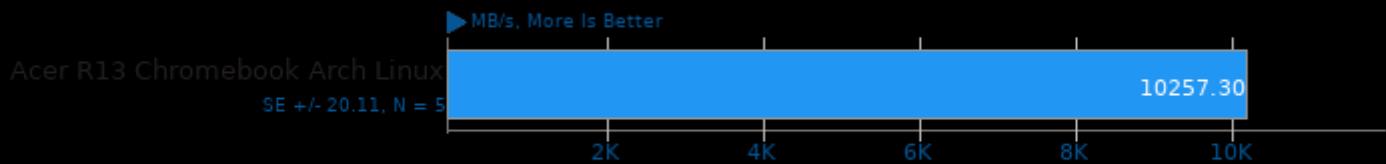
Type: Copy



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

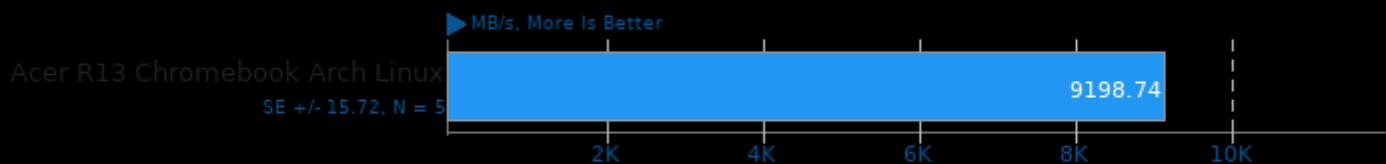
Type: Scale



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

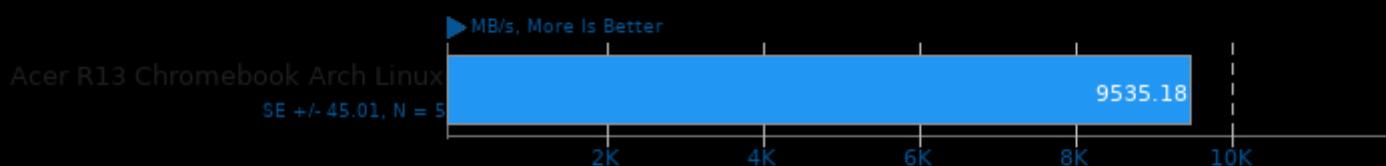
Type: Triad



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

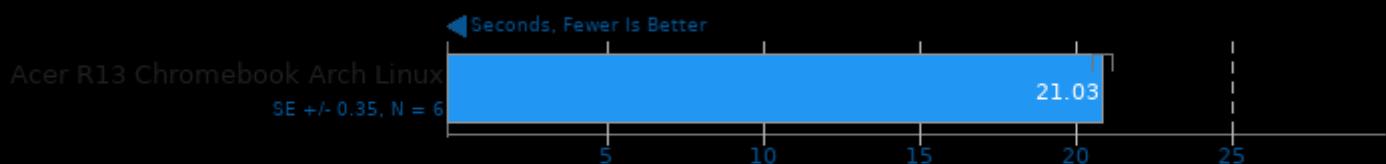
Type: Add



1. (CC) gcc options: -O3 -march=native -fopenmp

Timed MAFFT Alignment 6.864

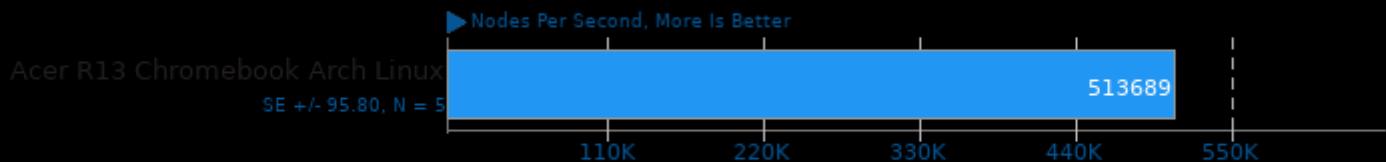
Multiple Sequence Alignment



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

TSCP 1.81

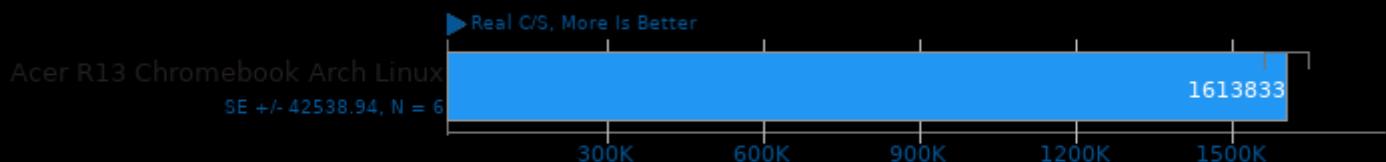
AI Chess Performance



1. (CC) gcc options: -O3 -march=native

John The Ripper 1.8.0

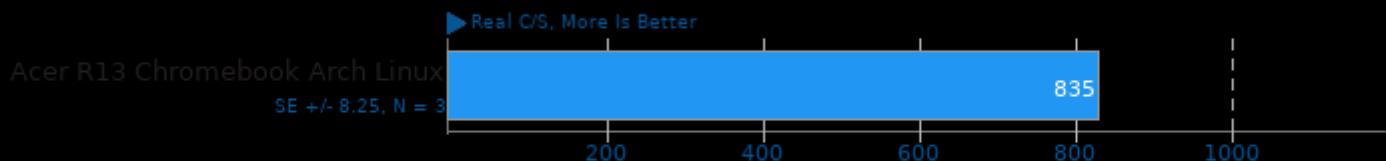
Traditional DES



1. (CC) gcc options: -fopenmp

John The Ripper 1.8.0

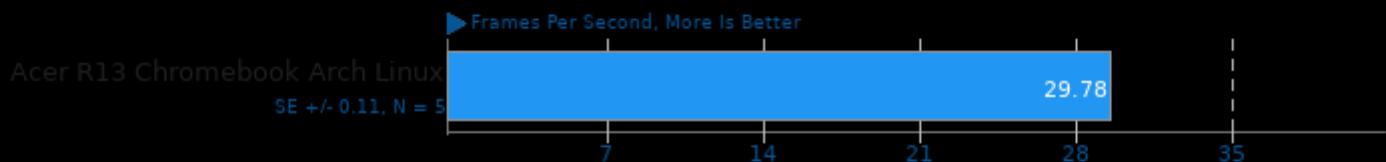
Blowfish



1. (CC) gcc options: -fopenmp

x264 2015-11-02

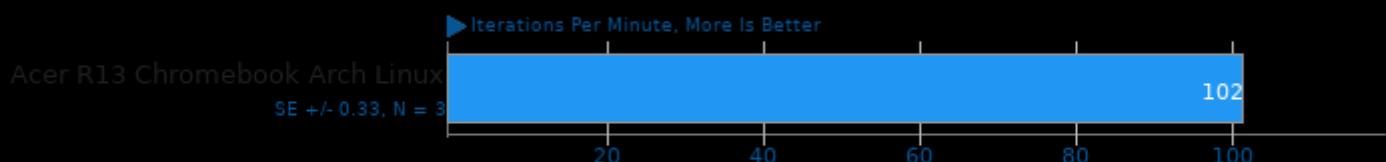
H.264 Video Encoding



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

GraphicsMagick 1.3.19

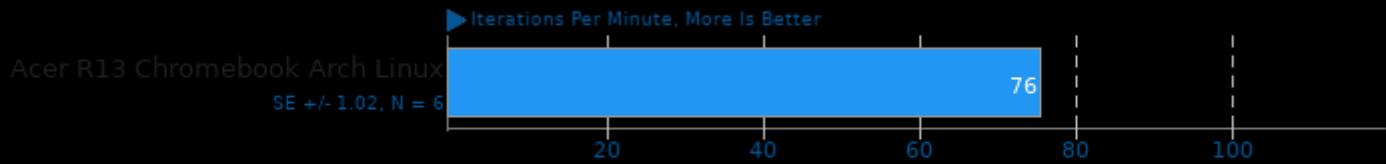
HWB Color Space



1. (CC) gcc options: -fopenmp -O2 -pthread -ltiff -lfreetype -jpeg -png16 -Xext -ISM -ICE -X11 -lzma -bz2 -xml2 -lz -lm -gomp -pthread

GraphicsMagick 1.3.19

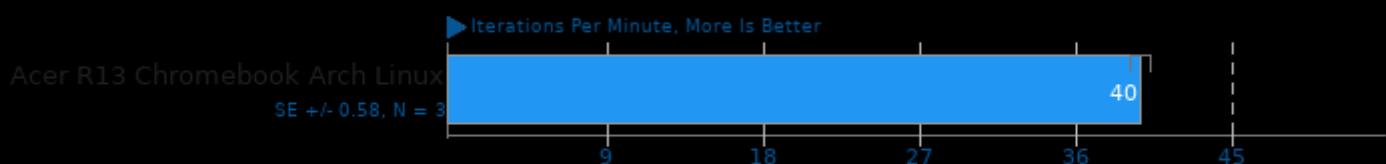
Local Adaptive Thresholding



1. (CC) gcc options: -fopenmp -O2 -pthread -ltiff -lfreetype -ljpeg -lpng16 -lXext -lSM -lICE -lX11 -lZma -lbz2 -lxml2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.19

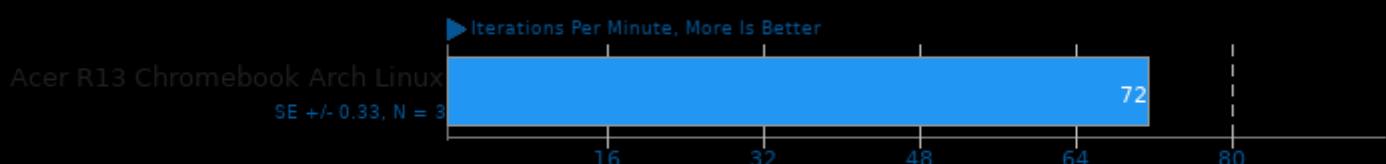
Sharpen



1. (CC) gcc options: -fopenmp -O2 -pthread -ltiff -lfreetype -ljpeg -lpng16 -lXext -lSM -lICE -lX11 -lZma -lbz2 -lxml2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.19

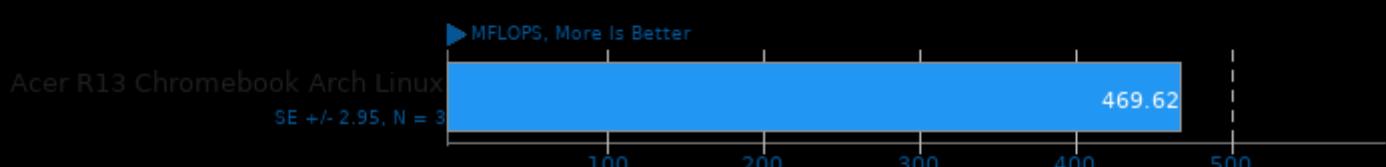
Resizing



1. (CC) gcc options: -fopenmp -O2 -pthread -ltiff -lfreetype -ljpeg -lpng16 -lXext -lSM -lICE -lX11 -lZma -lbz2 -lxml2 -lz -lm -lgomp -lpthread

Himeno Benchmark 3.0

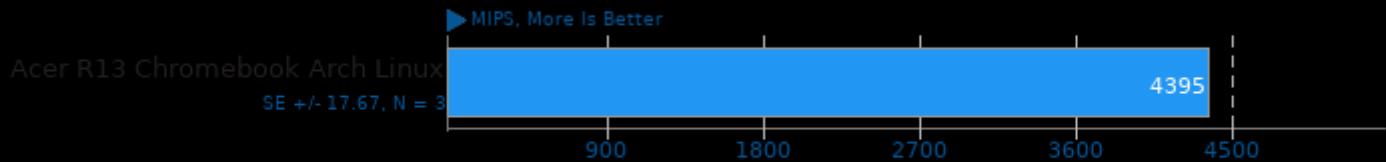
Poisson Pressure Solver



1. (CC) gcc options: -O3

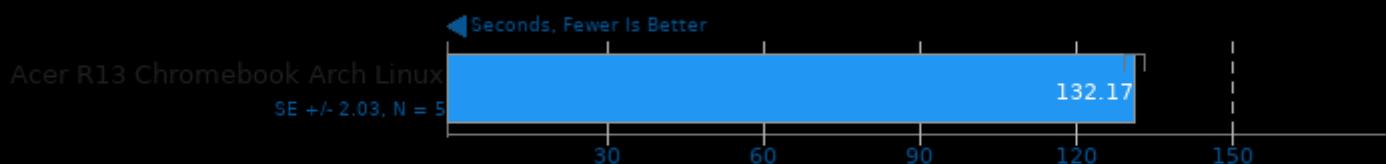
7-Zip Compression 9.20.1

Compress Speed Test



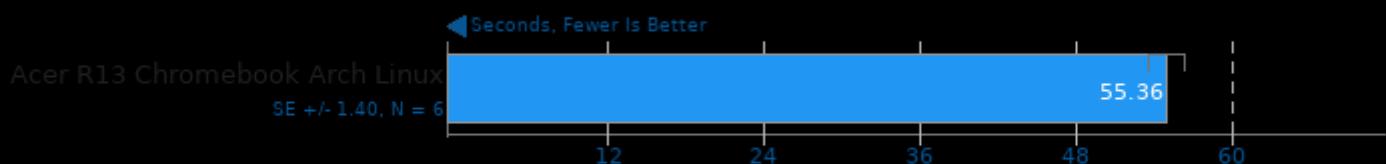
C-Ray 1.1

Total Time



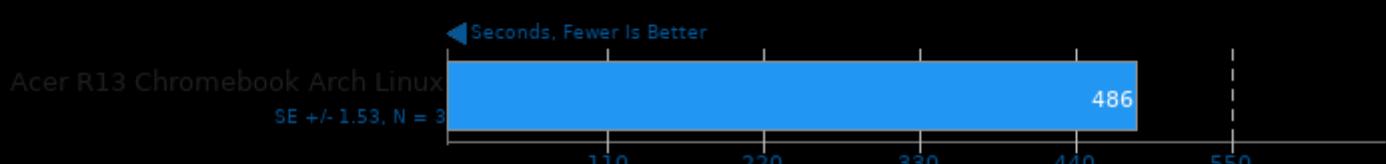
Parallel BZIP2 Compression 1.1.12

256MB File Compression



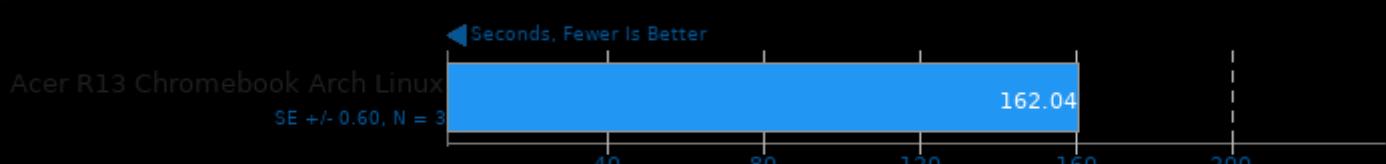
Smallpt 1.0

Global Illumination Renderer; 100 Samples



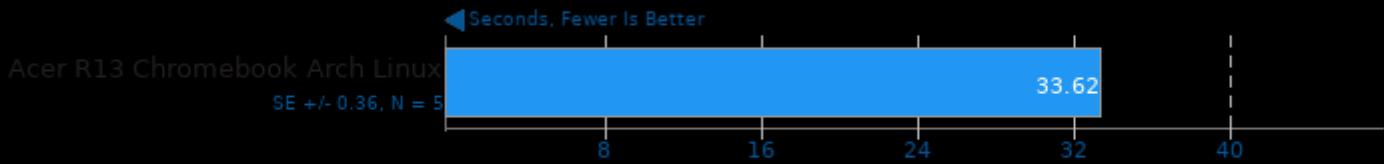
Crafty 23.4

Elapsed Time



FLAC Audio Encoding 1.3.1

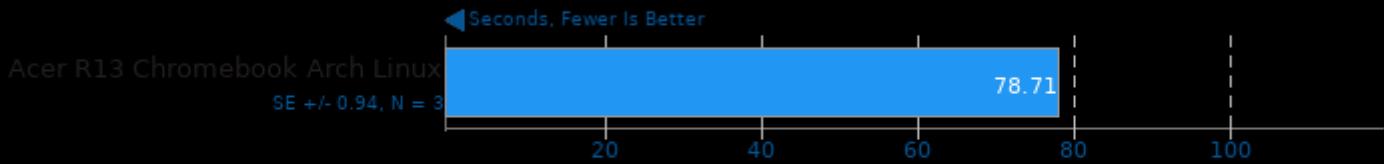
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -fno-rtti -fno-threadsafe-statics

FFmpeg 2.8.1

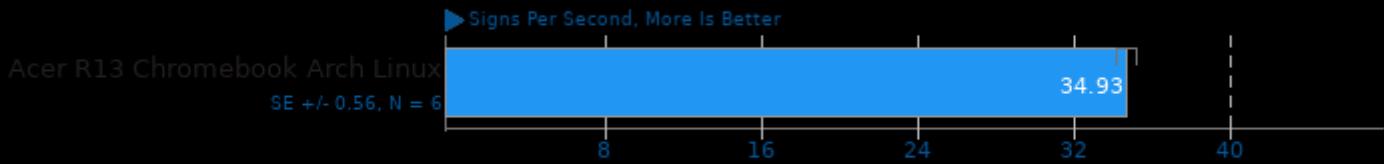
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lxv -lx11 -lxext -lasound -lSDL -lpthread -lm -lzma -lbz2 -pt

OpenSSL 1.0.1g

RSA 4096-bit Performance



1. (CC) gcc options: -O3 -fomit-frame-pointer -lssl -lcrypto -ldl

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