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kernel1

Intel Core i7-2670QM testing with a ZaReason STRATA and NVIDIA GeForce GT 540M 1024MB on Fedora 27 via the Phoronix Test Suite.

Test Systems:

base-kernel1

Processor: Intel Core i7-2670QM @ 3.10GHz (8 Cores), Motherboard: ZaReason STRATA, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 2 x 4096 MB DDR3-1333MT/s SUPERTALENT02, Disk: 500GB Seagate ST500LM000-1EJ16, Graphics: NVIDIA GeForce GT 540M 1024MB, Audio: Realtek ALC259, Network: Realtek RTL8111/8168/8411 + Intel Centrino Wireless-N 1030

OS: Fedora 27, Kernel: 4.13.9-300.fc27.x86_64 (x86_64), Desktop: GNOME Shell 3.26.1, Display Server: X Server 1.19.5, Display Driver: modesetting 1.19.5, Compiler: GCC 7.2.1 20170915, File-System: ext4, Screen Resolution: 1366x768

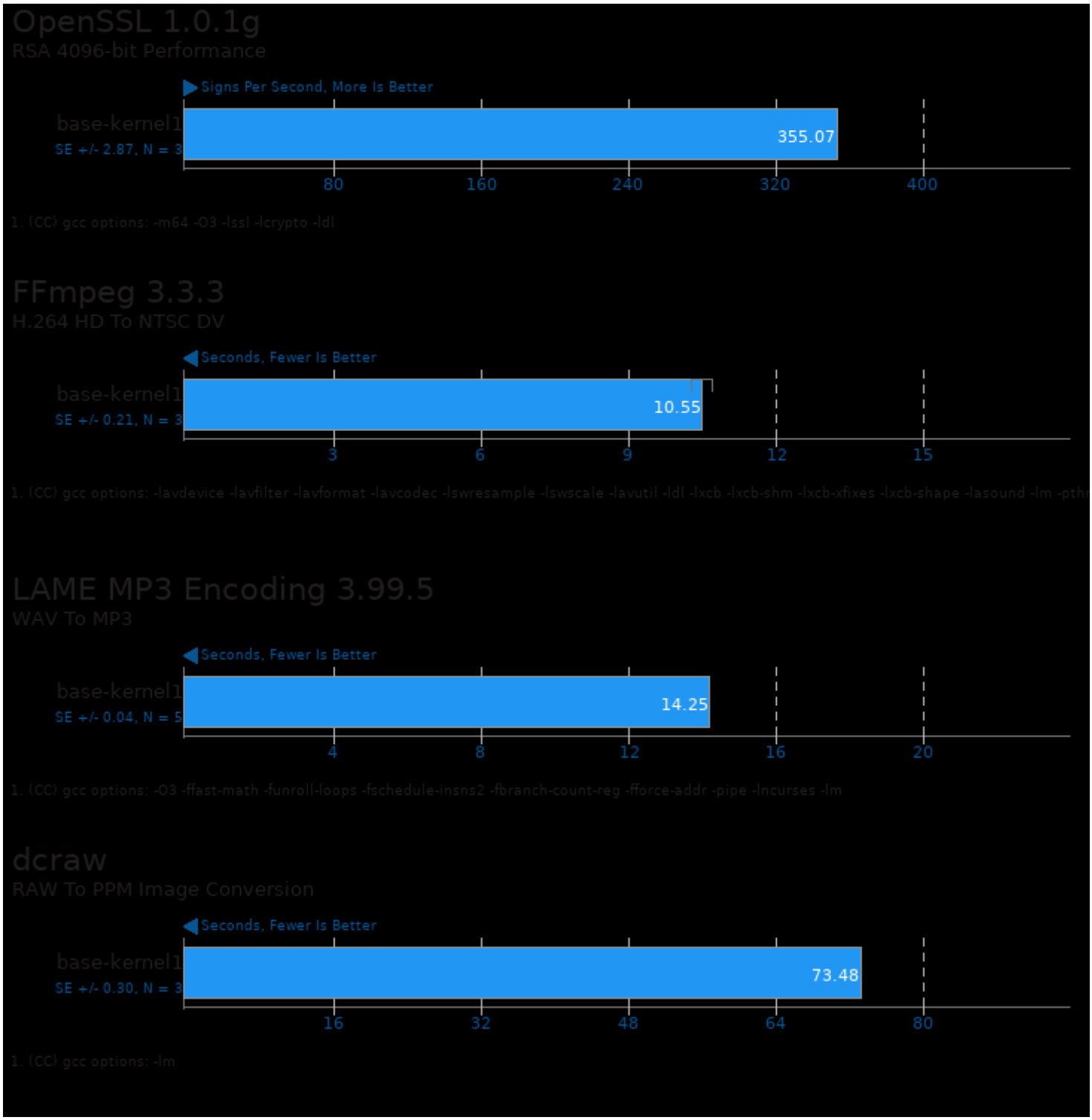
Compiler Notes: --build=x86_64-redhat-linux --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,objc,obj-c++,fortran,ada,go,lto --enable-libmpx --enable-multilib

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--enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=i686 --with-gcc-major-version-only --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
Disk Notes: CFQ / data=ordered,relatime,rw,seclabel
Processor Notes: Scaling Governor: intel_pstate powersave
System Notes: SELinux: Enabled.

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OpenSSL - R.4.b.P (Signs/sec)	355.07
Standard Deviation	1.4%
FFmpeg - H.2.H.T.N.D (sec)	10.55
Standard Deviation	3.4%
LAME MP3 Encoding - WAV To MP3 (sec)	14.25
Standard Deviation	0.7%
dcraw - R.T.P.I.C (sec)	73.48
Standard Deviation	0.7%
LZMA Compression - 2.F.C (sec)	388.37
Standard Deviation	1.9%
Bullet Physics Engine - Convex Trimesh (sec)	1.82
Standard Deviation	1.2%
Smallpt - G.I.R.1.S (sec)	164
Standard Deviation	2.7%
Parallel BZIP2 Compression - 2.F.C (sec)	15.84
Standard Deviation	6.6%
C-Ray - Total Time (sec)	51.01
Standard Deviation	2.7%
7-Zip Compression - C.S.T (MIPS)	13782
Standard Deviation	1.9%
Himeno Benchmark - P.P.S (MFLOPS)	1301
Standard Deviation	0.1%
GraphicsMagick - L.A.T (Iterations/min)	66
GraphicsMagick - HWB Color Space (Iterations/min)	140
x264 - H.2.V.E (FPS)	90.04
Standard Deviation	4.6%
John The Ripper - Blowfish (Real C/S)	3235
Standard Deviation	1.4%
BYTE Unix Benchmark - Integer Arithmetic (LPS)	1
BYTE Unix Benchmark - Dhrystone 2 (LPS)	21129105
Standard Deviation	6.3%
Dbench - 12 Clients (MB/s)	68.80
Standard Deviation	38.6%
FS-Mark - 1.F.1.S (Files/s)	46.33
Standard Deviation	12.6%

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OpenSSL 1.0.1g
RSA 4096-bit Performance
Signs Per Second, More Is Better
base-kernel1
SE +/- 2.87, N = 3
355.07
80
160
240
320
400
1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl
FFmpeg 3.3.3
H.264 HD To NTSC DV
Seconds, Fewer Is Better
base-kernel1
SE +/- 0.21, N = 3
10.55
3
6
9
12
15
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lxcb -lxcb-shm -lxcb-xfixes -lxcb-shape -lasound -lm -pth
LAME MP3 Encoding 3.99.5
WAV To MP3
Seconds, Fewer Is Better
base-kernel1
SE +/- 0.04, N = 5
14.25
4
8
12
16
20
1. (CC) gcc options: -O3 -ffast-math -funroll-loops -fschedule-insns2 -fbranch-count-reg -fforce-addr -pipe -lncurses -lm
dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
base-kernel1
SE +/- 0.30, N = 3
73.48
16
32
48
64
80
1. (CC) gcc options: -lm

LZMA Compression

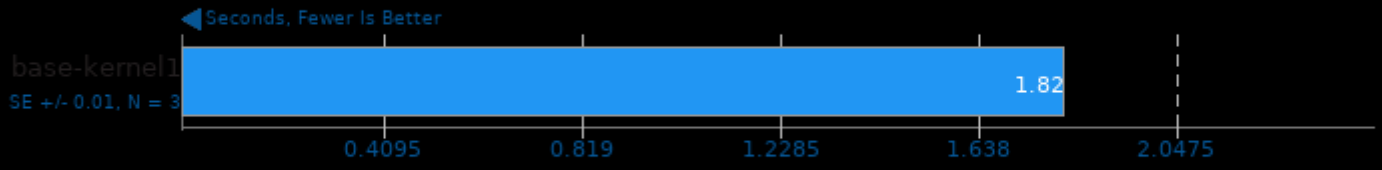
256MB File Compression



1. (CXX) g++ options: -O2

Bullet Physics Engine 2.81

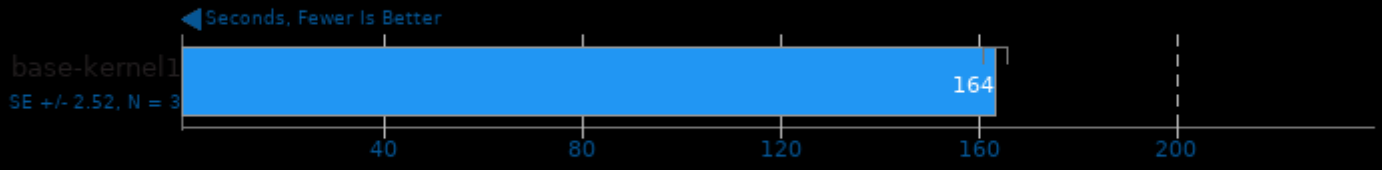
Test: Convex Trimesh



1. (CXX) g++ options: -O2 -rdynamic -lglut -lGL -lGLU

Smallpt 1.0

Global Illumination Renderer; 100 Samples



1. (CXX) g++ options: -fopenmp

Parallel BZIP2 Compression 1.1.12

256MB File Compression



1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

C-Ray 1.1

Total Time



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

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7-Zip Compression 9.20.1

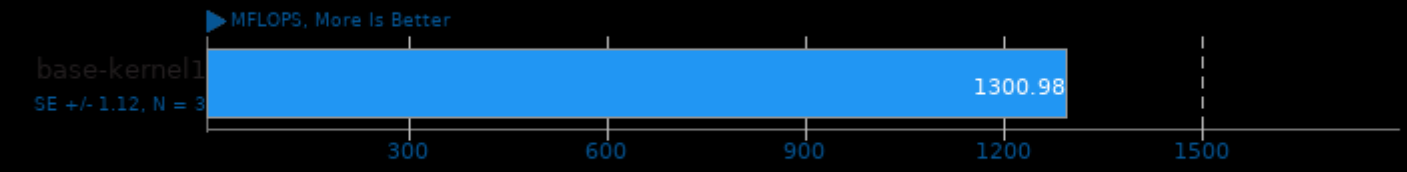
Compress Speed Test



1. (CXX) g++ options: -pipe -lpthread

Himeno Benchmark 3.0

Poisson Pressure Solver



1. (CC) gcc options: -O3

GraphicsMagick 1.3.19

Local Adaptive Thresholding



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lX11 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.19

HWB Color Space



1. (CC) gcc options: -fopenmp -O2 -pthread -lXext -lX11 -lz -lm -lgomp -lpthread

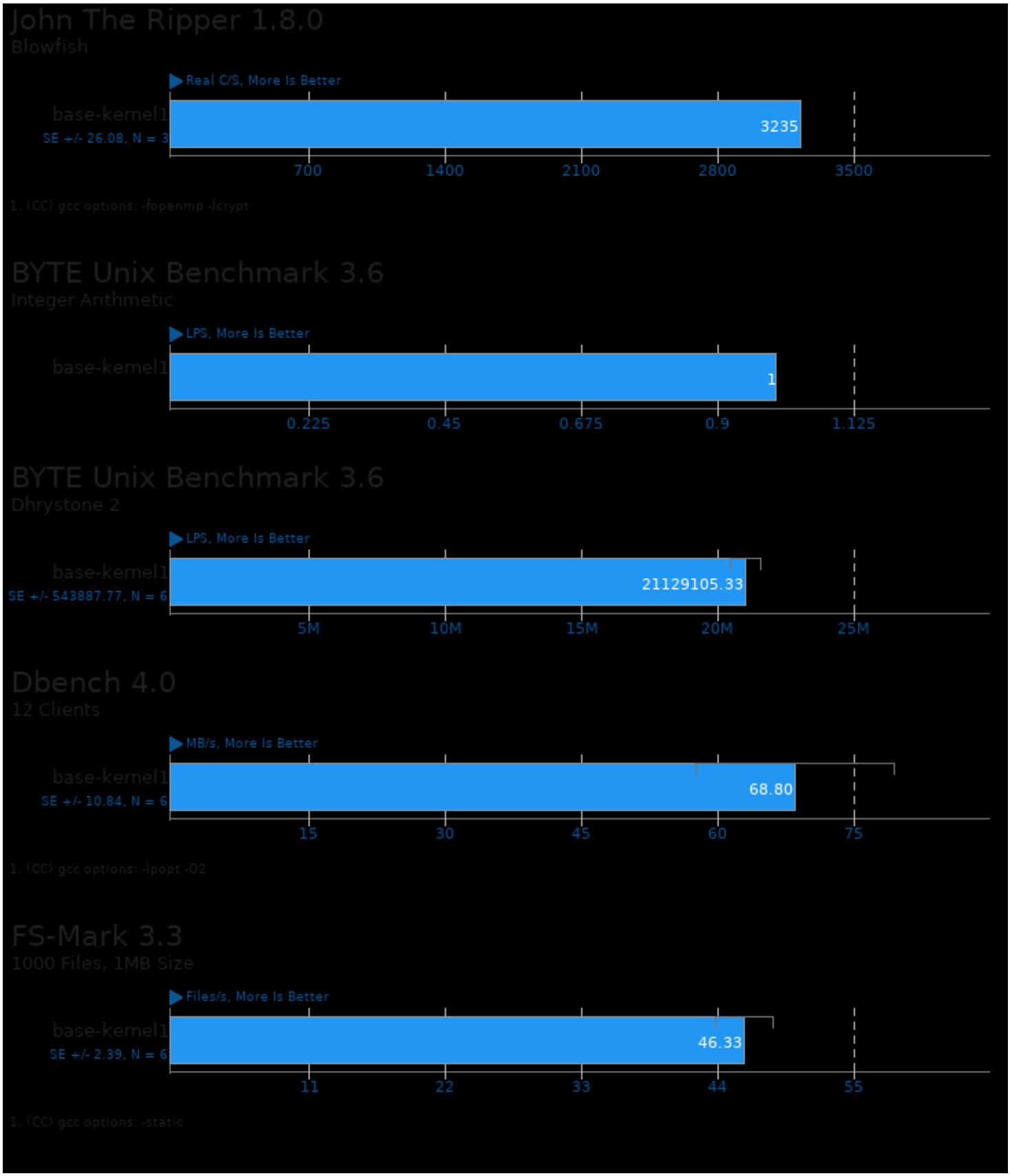
x264 2017-09-08

H.264 Video Encoding



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

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