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result

Intel Core i7-3770 testing with a Mouse B75H2-M2 (4.6.5 BIOS) and Gigabyte AMD Radeon HD 7790/8770 / R7 360 R9 260/360 OEM 1GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

corei7-3770

corei7-3770 and radeon hd 7790

Processor: Intel Core i7-3770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Mouse B75H2-M2 (4.6.5 BIOS), Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8GB, Disk: 2000GB Western Digital WD20EARX-55P + 480GB CSSD-S6B480CG3VX, Graphics: Gigabyte AMD Radeon HD 7790/8770 / R7 360 R9 260/360 OEM 1GB (1204/1680MHz), Audio: Realtek ALC662 rev3, Monitor: EX-LD2071T, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-92-lowlatency (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.3.0-devel (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3004.6), Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x21 - Thermald 1.9.1
Graphics Notes: GLAMOR - BAR1 / Visible vRAM Size: 256 MB
Graphics Oc Notes: AMD OverDrive GPU Overclock: 12%
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

core-3770 linux-kernel

test

Gigabyte AMD Radeon HD 7790

Processor: Intel Core i7-3770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Mouse B75H2-M2 (4.6.5 BIOS), Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 8GB, Disk: 2000GB Western Digital WD20EARX-55P + 480GB CSSD-S6B480CG3VX, Graphics: Gigabyte AMD Radeon HD 7790/8770 / R7 360 R9 260/360 OEM 1GB (1075/1500MHz), Audio: Realtek ALC662 rev3, Monitor: EX-LD2071T, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 20.04, Kernel: 5.4.0-92-lowlatency (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.13, OpenGL: 4.6 Mesa 21.3.0-devel (LLVM 12.0.1), OpenCL: OpenCL 2.1 AMD-APP (3004.6), Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0x21 - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

	corei7-3770	corei7-3770 and radeon hd 7790	core-3770 linux-kernel	test	Gigabyte AMD Radeon HD 7790
Timed Linux Kernel Compilation - defconfig (sec)			338.941		
Standard Deviation			3.4%		
OpenSSL - SHA256 (byte/s)					971452383
Standard Deviation					2.5%
Unigine Tropics - 1920 x 1080 - Fullscreen (FPS)		100.654			
Standard Deviation		0%			
John The Ripper - Blowfish (Real C/S)	3578				
Standard Deviation	7.4%				
Bork File Encrypter - F.E.T (sec)				29.713	
Standard Deviation				25.6%	
OpenSSL - RSA4096 (verify/s)					39415

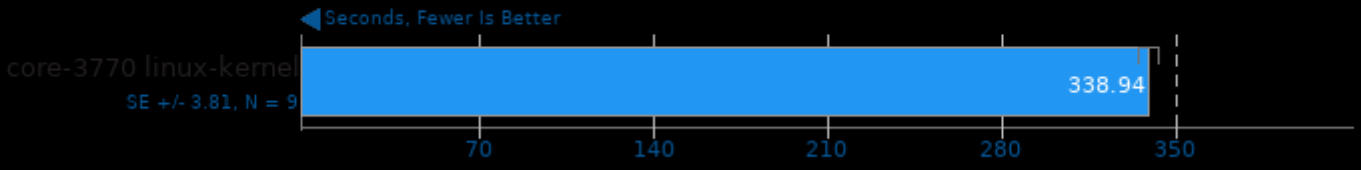
result

Standard Deviation		1.3%
OpenSSL - RSA4096 (sign/s)		590.7
Standard Deviation		2.4%
Flexible IO Tester - Rand Read - Sync - No - No - 2MB (IOPS)	115	
Standard Deviation	2.1%	
Flexible IO Tester - Rand Read - Sync - No - No - 2MB (MB/s)	232	
Standard Deviation	2.2%	
Flexible IO Tester - Rand Read - Sync - No - No - 1MB (IOPS)	218	
Flexible IO Tester - Rand Read - Sync - No - No - 1MB (MB/s)	217	
Standard Deviation	2.3%	
JuliaGPU - GPU (Samples/sec)		104803226
Standard Deviation		0.5%

result

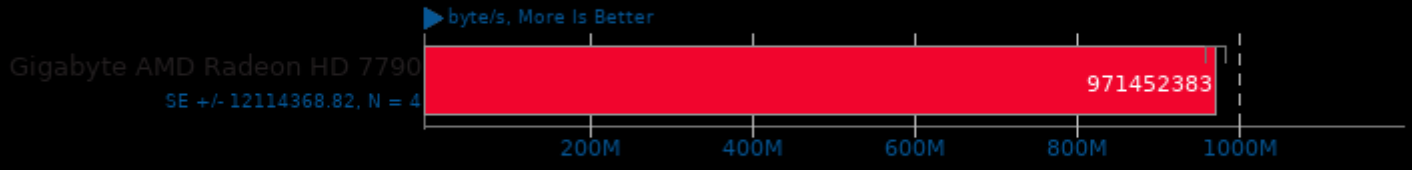
Timed Linux Kernel Compilation 5.16

Build: defconfig



OpenSSL 3.0

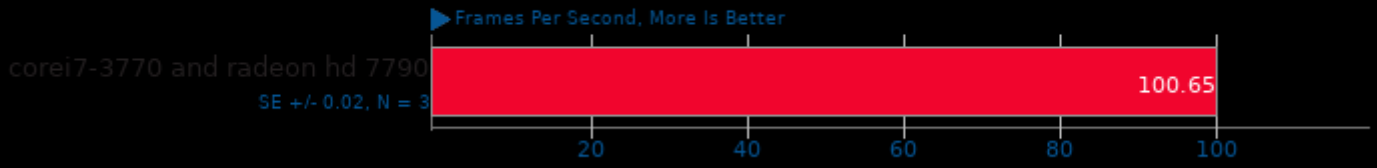
Algorithm: SHA256



1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl

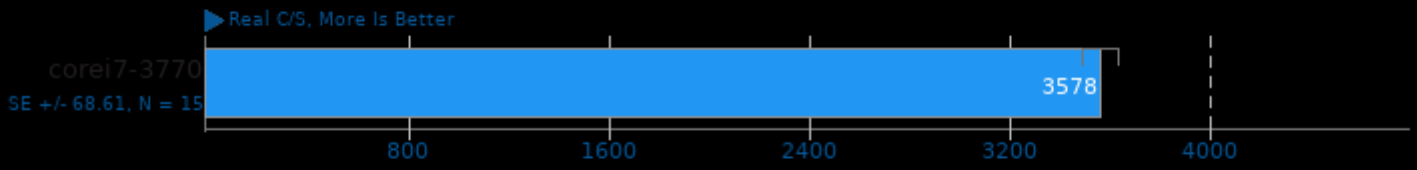
Unigine Tropics 1.3

Resolution: 1920 x 1080 - Mode: Fullscreen



John The Ripper 1.9.0-jumbo-1

Test: Blowfish



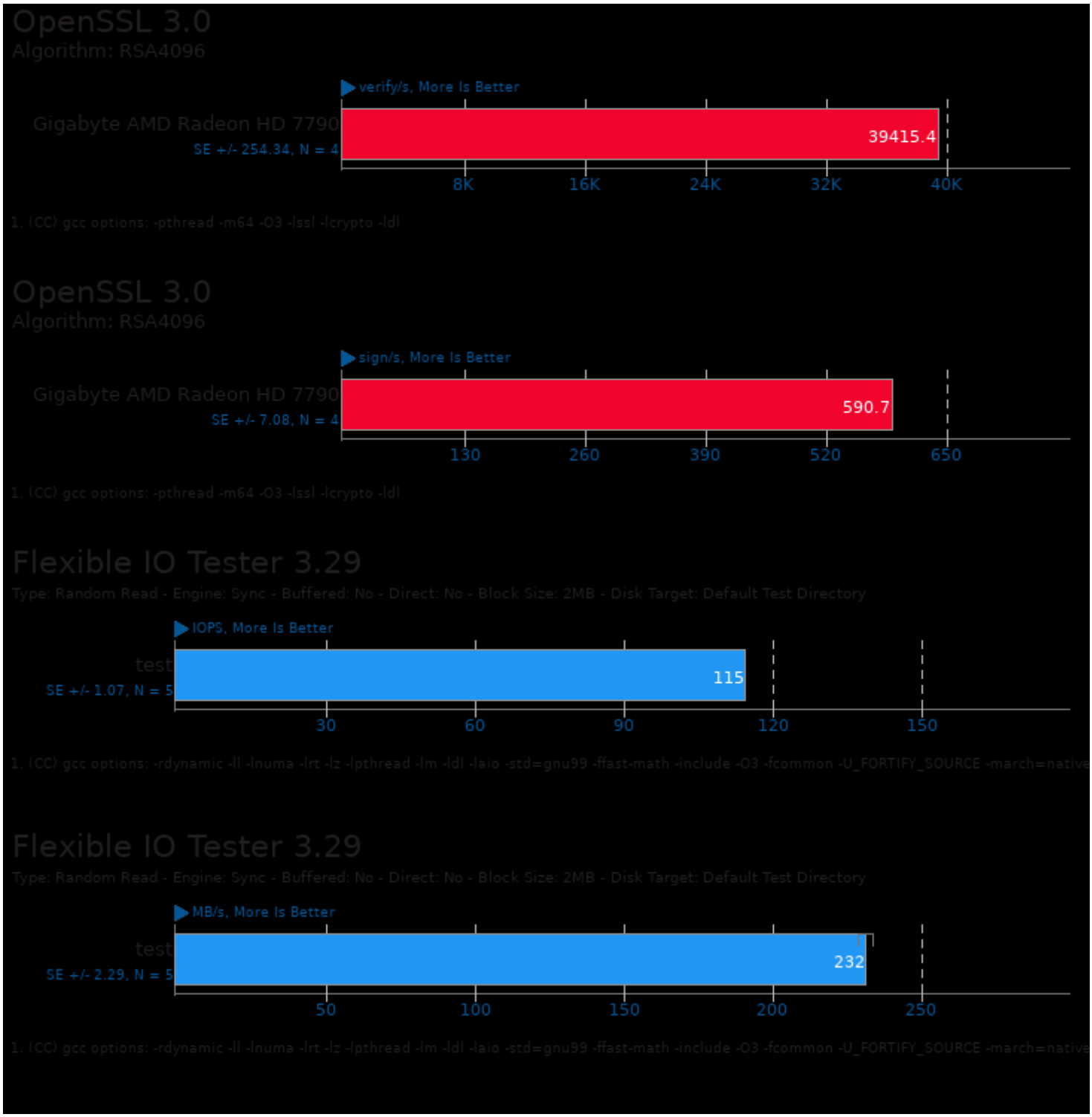
1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

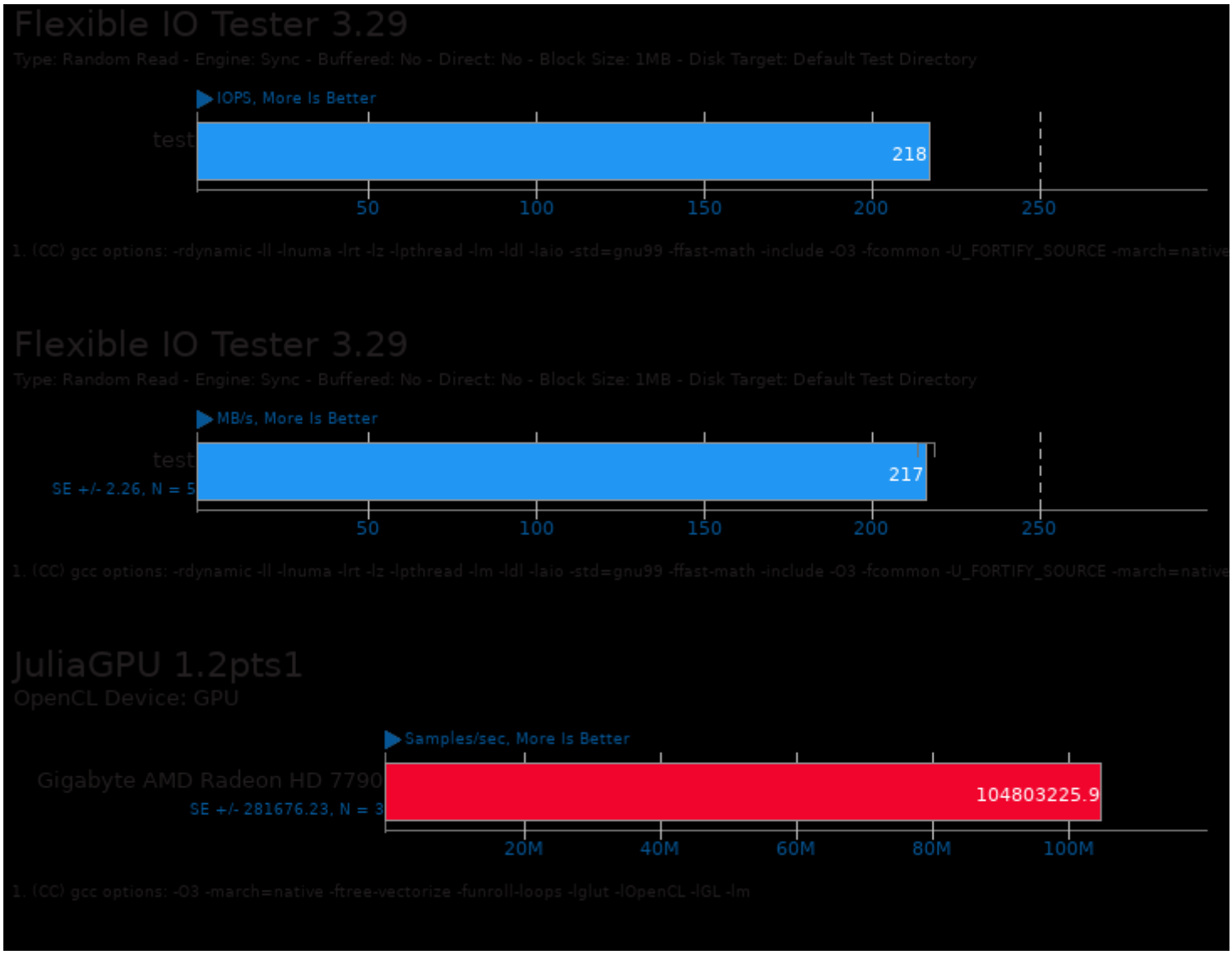
Bork File Encrypter 1.4

File Encryption Time



result


OpenSSL 3.0
Algorithm: RSA4096
verify/s, More Is Better
Gigabyte AMD Radeon HD 7790
SE +/- 254.34, N = 4
39415.4
8K
16K
24K
32K
40K
1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl
OpenSSL 3.0
Algorithm: RSA4096
sign/s, More Is Better
Gigabyte AMD Radeon HD 7790
SE +/- 7.08, N = 4
590.7
130
260
390
520
650
1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl
Flexible IO Tester 3.29
Type: Random Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
IOPS, More Is Better
test
SE +/- 1.07, N = 5
115
30
60
90
120
150
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native
Flexible IO Tester 3.29
Type: Random Read - Engine: Sync - Buffered: No - Direct: No - Block Size: 2MB - Disk Target: Default Test Directory
MB/s, More Is Better
test
SE +/- 2.29, N = 5
232
50
100
150
200
250
1. (CC) gcc options: -rdynamic -ll -lnuma -lrt -lz -lpthread -lm -ldl -laio -std=gnu99 -ffast-math -include -O3 -fcommon -U_FORTIFY_SOURCE -march=native



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 05:45.