



www.phoronix-test-suite.com

ryzen

Intel Core i7-2630QM testing with a ASUS G73Sw v1.0 (G73Sw.205 BIOS) and ASUS NVIDIA GeForce GTX 460M 2GB on ManjaroLinux 21.0.6 via the Phoronix Test Suite.

Automated Executive Summary

ryzen manjaro had the most wins, coming in first place for 68% of the tests.

Based on the geometric mean of all complete results, the fastest (ryzen manjaro) was 2.865x the speed of the slowest (asusko). ryzen vmware was 0.889x the speed of ryzen manjaro, tigerbomb was 0.9x the speed of ryzen vmware, kabybomb was 0.793x the speed of tigerbomb, asusko was 0.55x the speed of kabybomb.

The results with the greatest spread from best to worst included:

Aircrack-ng at 14.104x

x264 (H.264 Video Encoding) at 9.284x

Coremark (CoreMark Size 666 - Iterations Per Second) at 7.682x

7-Zip Compression (Compress Speed Test) at 7.272x

x265 (Video Input: Bosphorus 1080p) at 6.376x

dav1d (Video Input: Summer Nature 1080p) at 6.28x

Parallel BZIP2 Compression (256MB File Compression) at 6.077x

FFTE (N=256, 3D Complex FFT Routine) at 5.677x

PolyBench-C (Test: Covariance Computation) at 5.03x
glibc bench (Benchmark: sqrt) at 4.615x.

Test Systems:

ryzen vmware

Processor: AMD Ryzen 9 5900X 12-Core (24 Cores), Motherboard: Intel 440BX (VMW71.00V.16722896.B64.2008100651 BIOS), Chipset: Intel 440BX/ZX/DX, Memory: 64GB, Disk: 86GB VMware Virtual S, Graphics: VMware SVGA II, Audio: Ensoniq ES1371/ES1373, Network: Intel 82545EM

OS: Arch rolling, Kernel: 5.12.10-arch1-1 (x86_64), Display Server: X Server 1.20.9, Compiler: GCC 11.1.0, File-System: btrfs, Screen Resolution: 1176x885, System Layer: VMware

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,Ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: CPU Microcode: 0xa201016
Java Notes: OpenJDK Runtime Environment (build 11.0.11+9)
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + 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 AMD retpoline IBPB: conditional STIBP: disabled RSB filling + srbs: Not affected + tsx_async_abort: Not affected

ryzen manjaro

Processor: AMD Ryzen 9 5900X 12-Core @ 3.70GHz (12 Cores / 24 Threads), Motherboard: MSI MAG B550 TOMAHAWK (MS-7C91) v2.0 (A.71 BIOS), Chipset: AMD Starship/Matisse, Memory: 126GB, Disk: 1024GB ADATA SX8200PNP + 1024GB INTEL SSDPEKNW010T8 + 4001GB Seagate ST4000DM000-1F21 + 4001GB Seagate ST4000DM005-2DP1 + 960GB Patriot Burst + 2 x 2000GB CT2000MX500SSD1, Graphics: eVGA NVIDIA GeForce RTX 3080 10GB, Audio: NVIDIA GA102 HD Audio, Monitor: BenQ GW2765, Network: Realtek RTL8111/8168/8411 + Realtek RTL8125 2.5GbE

OS: ManjaroLinux 21.0.6, Kernel: 5.12.11-1-MANJARO (x86_64), Desktop: Cinnamon 5.0.2, Display Server: X Server 1.20.11, Display Driver: NVIDIA 465.31, OpenGL: 4.6.0, Compiler: GCC 11.1.0 + Clang 12.0.0, File-System: btrfs, Screen Resolution: 2560x1440

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-libiberty --enable-languages=c,c++,ada,fortran,go,Ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016
Java Notes: OpenJDK Runtime Environment (build 1.8.0_292-b10)
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbs: Not affected + tsx_async_abort: Not affected

tigerbomb

Processor: Intel Core i7-1165G7 @ 4.70GHz (4 Cores / 8 Threads), Motherboard: Intel NUC11TNBi7

(TNTGL357.0056.2021.0513.1618 BIOS), Chipset: Intel Tiger Lake-LP, Memory: 64GB, Disk: 512GB SAMSUNG MZVLB512HAJQ-000H1, Graphics: Intel Xe TGL GT2 3GB (1300MHz), Audio: Intel Tiger Lake-LP Smart Sound Audio, Monitor: SAMSUNG, Network: Intel I225-LM + Intel Wi-Fi 6 AX201

OS: ManjaroLinux 21.0.6, Kernel: 5.12.11-1-MANJARO (x86_64), Desktop: Cinnamon 5.0.2, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.2, Compiler: GCC 11.1.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,Ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate performance - CPU Microcode: 0x88
Java Notes: OpenJDK Runtime Environment (build 1.8.0_292-b10)
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + srbs: Not affected + tsx_async_abort: Not affected

kabybomb

Processor: Intel Core i7-8650U @ 4.20GHz (4 Cores / 8 Threads), Motherboard: Intel NUC7i7DNB (DNKBLi7v.86A.0073.2021.0414.1709 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 32GB, Disk: 525GB Crucial CT525MX3, Graphics: Intel UHD 620 KBL GT2 3GB (1150MHz), Audio: Intel Sunrise Point-LP HD Audio, Monitor: SAMSUNG, Network: Intel I219-LM + Intel 8265 / 8275

OS: ManjaroLinux 21.0.6, Kernel: 5.12.12-1-MANJARO (x86_64), Desktop: Cinnamon 5.0.2, Display Server: X Server 1.20.11, OpenGL: 4.6 Mesa 21.1.2, Compiler: GCC 11.1.0 + Clang 12.0.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,Ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xea
Java Notes: OpenJDK Runtime Environment (build 1.8.0_292-b10)
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown: Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swaps barriers + spectre_v2: Vulnerable IBPB: disabled STIBP: disabled + srbs: Vulnerable + tsx_async_abort: Vulnerable

asusko

Processor: Intel Core i7-2630QM @ 2.90GHz (4 Cores / 8 Threads), Motherboard: ASUS G73Sw v1.0 (G73Sw.205 BIOS), Chipset: Intel 2nd Generation Core DRAM, Memory: 28GB, Disk: 240GB KINGSTON SH103S3 + 250GB Samsung SSD 840, Graphics: ASUS NVIDIA GeForce GTX 460M 2GB, Audio: Realtek ALC269VB, Network: Qualcomm Atheros AR9462

OS: ManjaroLinux 21.0.6, Kernel: 5.12.12-1-MANJARO (x86_64), Desktop: Cinnamon 5.0.2, Display Server: X Server 1.20.11, Display Driver: NVIDIA 390.143, OpenGL: 4.6.0, Compiler: GCC 11.1.0, File-System: btrfs, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --disable-libssp --disable-libstdcxx-pch --disable-libunwind-exceptions --disable-werror --enable-__cxa_atexit --enable-cet=auto --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-default-ssp --enable-gnu-indirect-function --enable-gnu-unique-object --enable-install-liberty --enable-languages=c,c++,ada,fortran,go,Ito,objc,obj-c++,d --enable-lto --enable-multilib --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-isl --with-linker-hash-style=gnu
Processor Notes: Scaling Governor: intel_cpufreq schedutil - CPU Microcode: 0x2f
Java Notes: OpenJDK Runtime Environment (build 1.8.0_292-b10)
Python Notes: Python 3.9.5
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: vulnerable + mds: Vulnerable; SMT vulnerable + meltdown:

Vulnerable + spec_store_bypass: Vulnerable + spectre_v1: Vulnerable: __user pointer sanitization and usercopy barriers only; no swapgs barriers + spectre_v2: Vulnerable
 IBPB: disabled STIBP: disabled + srbds: Not affected + tsx_async_abort: Not affected

	ryzen	vmware	ryzen manjaro	tigerbomb	kabybomb	asusko
CloverLeaf - L.E.H (sec)	107.39		90.94	154.94	201.19	445.75
Normalized	84.68%		100%	58.69%	45.2%	20.4%
Standard Deviation	10.7%		0.1%	3.1%	0.3%	0.1%
PolyBench-C - C.C (sec)	5.773			3.145	5.535	15.818
Normalized	54.48%			100%	56.82%	19.88%
Standard Deviation	0.5%			4.8%	0.1%	5.8%
PolyBench-C - C.C (sec)	5.666			3.080	5.561	15.244
Normalized	54.36%			100%	55.39%	20.2%
Standard Deviation	2.2%			6.5%	0.2%	0.4%
Izbench - XZ 0 - Compression (MB/s)	50		55	51	40	24
Normalized	90.91%		100%	92.73%	72.73%	43.64%
Standard Deviation	13.4%		1.1%	1.1%	0%	0%
Izbench - XZ 0 - Decompression (MB/s)	175		177	139	113	74
Normalized	98.87%		100%	78.53%	63.84%	41.81%
Standard Deviation	0.3%		0.9%	0.4%	0.5%	0%
Izbench - Zstd 1 - Compression (MB/s)	686		688	608	487	271
Normalized	99.71%		100%	88.37%	70.78%	39.39%
Standard Deviation	0.3%		0.5%	0.3%	0.2%	0.2%
Izbench - Zstd 1 - Decompression (MB/s)	2341		2338	2107	1650	929
Normalized	100%		99.87%	90%	70.48%	39.68%
Standard Deviation	0.2%		0.7%	0.2%	0.5%	0.3%
Izbench - Zstd 8 - Compression (MB/s)	109		128	122	86	51
Normalized	85.16%		100%	95.31%	67.19%	39.84%
Standard Deviation	14.2%		1.6%	0.5%	0.7%	1.1%
Izbench - Zstd 8 - Decompression (MB/s)	2591		2567	2217	1775	1009
Normalized	100%		99.07%	85.57%	68.51%	38.94%
Standard Deviation	0.2%		0.5%	0.1%	0.4%	0.1%
Izbench - Crush 0 - Compression (MB/s)	131		169	120	94	53
Normalized	77.51%		100%	71.01%	55.62%	31.36%
Standard Deviation	14.5%		1.7%	0.5%	1.8%	1.1%
Izbench - Crush 0 - Decompression (MB/s)	714		714	562	492	336
Normalized	100%		100%	78.71%	68.91%	47.06%
Standard Deviation	0.2%		0.4%	0.2%	0.3%	0.2%
Izbench - Brotli 0 - Compression (MB/s)	494		640	567	436	277
Normalized	77.19%		100%	88.59%	68.13%	43.28%
Standard Deviation	23.5%		0.1%	0.4%	0.2%	0.2%

Izbench - Brotli 0 - 760	832	727	598	373
Decompression (MB/s)				
Normalized	91.35%	100%	87.38%	71.88%
Standard Deviation	9.5%	0.4%	0.8%	0.2%
Izbench - Brotli 2 - Compression 193	273	240	183	111
(MB/s)				
Normalized	70.7%	100%	87.91%	67.03%
Standard Deviation	25.5%	0.4%	0.2%	0%
Izbench - Brotli 2 - 878	998	881	691	438
Decompression (MB/s)				
Normalized	87.98%	100%	88.28%	69.24%
Standard Deviation	0.1%	0.1%	1%	0.2%
Izbench - Libdeflate 1 - 187	341	287	227	131
Compression (MB/s)				
Normalized	54.84%	100%	84.16%	66.57%
Standard Deviation	11.9%	0.2%	0.2%	0.3%
Izbench - Libdeflate 1 - 1542	1638	1301	1143	601
Decompression (MB/s)				
Normalized	94.14%	100%	79.43%	69.78%
Standard Deviation	0%	0.1%	0.1%	0.4%
FFTE - N.2.3.C.F.R (MFLOPS)	55961	58152	30071	20631
				10244
Normalized	96.23%	100%	51.71%	35.48%
Standard Deviation	0.5%	0.2%	0.4%	0.8%
Timed HMMer Search - P.D.S	128.328	88.315	119.011	156.032
(sec)				261.477
Normalized	68.82%	100%	74.21%	56.6%
Standard Deviation	1.4%	0.3%	0.1%	0.7%
Timed MAFFT Alignment - M.S.A	14.151	6.850	8.709	12.370
- LSU RNA (sec)				22.515
Normalized	48.41%	100%	78.65%	55.38%
Standard Deviation	17.5%	0.2%	0.6%	0.3%
Java SciMark - Composite	3081	4109	3012	2247
				1419
Normalized	74.98%	100%	73.3%	54.67%
Standard Deviation	5.4%	0.9%	1.2%	2.3%
Java SciMark - Monte Carlo	1992	1974	1138	1019
(Mflops)				643.30
Normalized	100%	99.1%	57.13%	51.17%
Standard Deviation	0.2%	2.8%	0.3%	0.2%
Java SciMark - F.F.T (Mflops)	2000	2413	1937	1399
				808.81
Normalized	82.88%	100%	80.25%	57.98%
Standard Deviation	47.7%	6.9%	0.7%	0.1%
Java SciMark - S.M.M (Mflops)	2792	4095	3002	1958
				1321
Normalized	68.2%	100%	73.32%	47.81%
Standard Deviation	4.7%	1.3%	0.2%	0.2%
Java SciMark - D.L.M.F (Mflops)	6297	9997	7171	5396
				3218
Normalized	62.99%	100%	71.73%	53.97%
Standard Deviation	10.1%	0.5%	2.5%	5.4%
Java SciMark - J.S.O.R (Mflops)	2325	2069	1813	1503
				1106
Normalized	100%	88.99%	77.96%	64.66%
Standard Deviation	0.1%	0%	1.7%	0.3%
Bork File Encrypter - F.E.T (sec)	8.876	6.610	9.261	7.086
				16.279
Normalized	74.47%	100%	71.37%	93.28%
Standard Deviation	38.5%	0.2%	1.6%	1.6%
LuaJIT - Composite (Mflops)	1892	2013	1749	1397
				793.59

	Normalized	93.99%	100%	86.89%	69.41%	39.42%
	Standard Deviation	0.2%	0.1%	1.4%	0.2%	0.3%
LuaJIT - Monte Carlo (Mflops)	586.97	610.69	604.42	496.02	326.85	
	Normalized	96.12%	100%	98.97%	81.22%	53.52%
	Standard Deviation	0.2%	0.5%	0.4%	0.5%	2.8%
LuaJIT - F.F.T (Mflops)	496.79	528.62	522.00	360.85	183.89	
	Normalized	93.98%	100%	98.75%	68.26%	34.79%
	Standard Deviation	0.3%	0.2%	0.3%	1%	1.9%
LuaJIT - S.M.M (Mflops)	1488	1770	1732	1180	778.74	
	Normalized	84.09%	100%	97.84%	66.65%	44%
	Standard Deviation	0.3%	0.1%	4.4%	0.9%	0.1%
LuajIT - D.L.M.F (Mflops)	4416	4658	4158	3416	1555	
	Normalized	94.81%	100%	89.28%	73.33%	33.38%
	Standard Deviation	0.6%	0.2%	1.3%	0.2%	0.2%
LuajIT - J.S.O.R (Mflops)	2473	2498	1729	1534	1124	
	Normalized	98.97%	100%	69.21%	61.41%	44.98%
	Standard Deviation	0%	0%	0.1%	0.8%	0.2%
SciMark - Composite (Mflops)	734.74	906.49	697.75	618.15	375.94	
	Normalized	81.05%	100%	76.97%	68.19%	41.47%
	Standard Deviation	15.1%	0.2%	5.3%	0.2%	0.2%
SciMark - Monte Carlo (Mflops)	116.96	199.22	219.71	140.37	90.88	
	Normalized	53.23%	90.67%	100%	63.89%	41.36%
	Standard Deviation	0.2%	0.3%	0.1%	0.2%	1.2%
SciMark - F.F.T (Mflops)	447.21	546.71	289.04	191.30	126.05	
	Normalized	81.8%	100%	52.87%	34.99%	23.06%
	Standard Deviation	28.3%	0.4%	2.5%	0.8%	0.3%
SciMark - S.M.M (Mflops)	850.51	848.94	829.52	692.60	418.28	
	Normalized	100%	99.82%	97.53%	81.43%	49.18%
	Standard Deviation	0.1%	0.4%	0.2%	0.3%	0.4%
SciMark - D.L.M.F (Mflops)	1028	1537	845.79	911.69	515.85	
	Normalized	66.86%	100%	55.01%	59.3%	33.55%
	Standard Deviation	52.4%	0.3%	21.5%	0%	0.1%
SciMark - J.S.O.R (Mflops)	1231	1400	1305	1155	728.62	
	Normalized	87.93%	100%	93.18%	82.48%	52.04%
	Standard Deviation	1.6%	0%	0.9%	0.2%	0%
Botan - KASUMI (MiB/s)	117.572	117.670	94.678	91.364	52.204	
	Normalized	99.92%	100%	80.46%	77.64%	44.36%
	Standard Deviation	0.1%	0.3%	0.4%	0.1%	0.2%
Botan - KASUMI - Decrypt	113.299	112.997	91.702	89.182	49.766	
	Normalized	100%	99.73%	80.94%	78.71%	43.92%
	Standard Deviation	0.2%	0.2%	0.4%	0.1%	0.4%
Botan - AES-256 (MiB/s)	7562	7581	7634	3978	1777	
	Normalized	99.06%	99.3%	100%	52.11%	23.28%
	Standard Deviation	0.4%	0.1%	0.4%	0.1%	0.1%
Botan - AES-256 - Decrypt	7574	7636	7690	3973	1773	
	Normalized	98.5%	99.31%	100%	51.67%	23.06%
	Standard Deviation	0.2%	0%	0.4%	0.1%	0.1%
Botan - Twofish (MiB/s)	430.959	431.321	329.534	330.414	168.110	
	Normalized	99.92%	100%	76.4%	76.61%	38.98%
	Standard Deviation	1.8%	0.8%	0.8%	0.1%	0.1%
Botan - Twofish - Decrypt (MiB/s)	428.197	436.124	330.629	329.009	163.151	
	Normalized	98.18%	100%	75.81%	75.44%	37.41%
	Standard Deviation	2.8%	0.8%	0.7%	0.2%	0.1%
Botan - Blowfish (MiB/s)	502.878	528.601	396.719	400.058	197.700	
	Normalized	95.13%	100%	75.05%	75.68%	37.4%

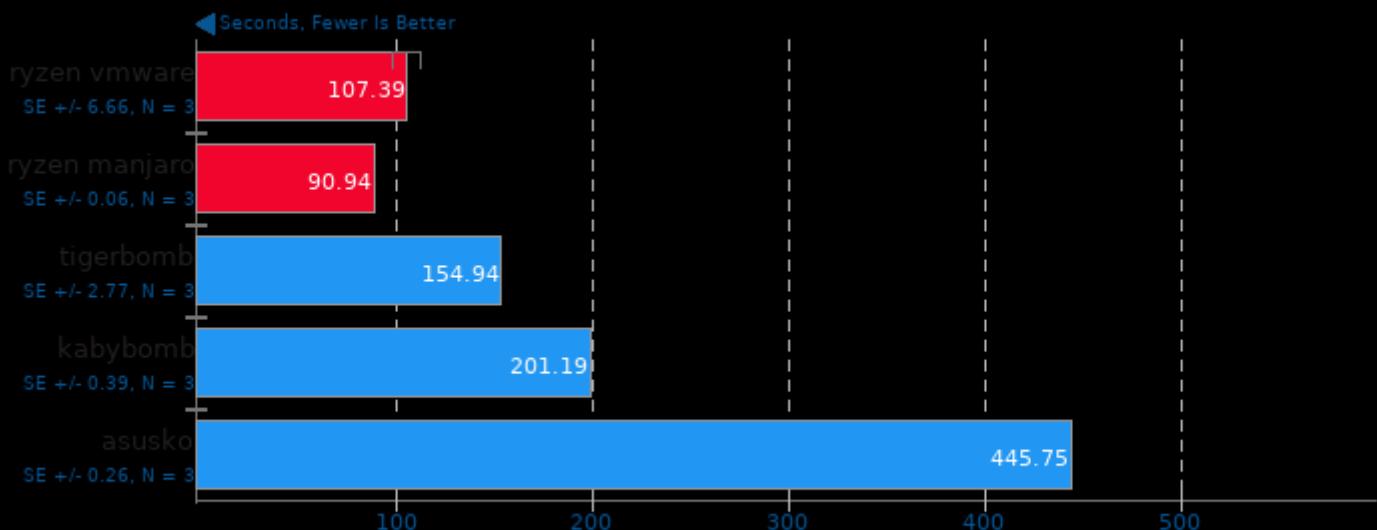
	Standard Deviation	3.6%	0.1%	0.2%	0.2%	0.5%
Botan - Blowfish - Decrypt	497.884	526.450	392.132	393.315	197.574	
	Normalized	94.57%	100%	74.49%	74.71%	37.53%
	Standard Deviation	2.3%	0.1%	1%	0.2%	0.2%
Botan - CAST-256 (MiB/s)	173.852	174.874	145.370	137.089	76.212	
	Normalized	99.42%	100%	83.13%	78.39%	43.58%
	Standard Deviation	0.2%	0.4%	0.4%	0.4%	0.3%
Botan - CAST-256 - Decrypt	174.056	174.777	145.636	137.212	76.276	
	(MiB/s)					
	Normalized	99.59%	100%	83.33%	78.51%	43.64%
	Standard Deviation	0.3%	0.4%	0.6%	0.1%	0.2%
Botan - ChaCha20Poly1305	1000	990.266	956.974	756.501	305.749	
	(MiB/s)					
	Normalized	100%	99%	95.67%	75.63%	30.57%
	Standard Deviation	0.1%	0.5%	0.3%	1.1%	0.2%
Botan - ChaCha20Poly1305 - Decrypt (MiB/s)	983.754	971.160	948.275	745.194	303.641	
	Normalized	100%	98.72%	96.39%	75.75%	30.87%
	Standard Deviation	0.1%	0.4%	0.2%	2.2%	0.2%
TSCP - A.C.P (Nodes/s)	2020523	2013083	1652006	1229427	784590	
	Normalized	100%	99.63%	81.76%	60.85%	38.83%
	Standard Deviation	0.6%	0.2%	0.2%	0.4%	0.3%
dav1d - S.N.1 (FPS)	813.99	926.17	386.16	294.93	147.48	
	Normalized	87.89%	100%	41.69%	31.84%	15.92%
	Standard Deviation	0.4%	0.4%	0.2%	0.3%	0.3%
x264 - H.2.V.E (FPS)	170.63	187.36	51.17	36.77	20.18	
	Normalized	91.07%	100%	27.31%	19.63%	10.77%
	Standard Deviation	0.1%	1.1%	1.9%	0.8%	1.9%
x265 - Bosphorus 1080p (FPS)	85.22	87.35	38.37	27.61	13.70	
	Normalized	97.56%	100%	43.93%	31.61%	15.68%
	Standard Deviation	0.7%	1.1%	3.9%	0.1%	1.6%
Coremark - CoreMark Size 666 - I.P.S (Iterations/Sec)	680863	679031	174008	130694	88633	
	Normalized	100%	99.73%	25.56%	19.2%	13.02%
	Standard Deviation	0.2%	0.5%	0.2%	0.9%	0.1%
Himeno Benchmark - P.P.S	4216	5370	5345	3273	2185	
	Normalized	78.51%	100%	99.55%	60.96%	40.7%
	Standard Deviation	4.9%	3.8%	0.6%	0.4%	0.3%
7-Zip Compression - C.S.T	87943	102080	29272	21418	14038	
	Normalized	86.15%	100%	28.68%	20.98%	13.75%
	Standard Deviation	0.2%	0.2%	0.6%	2.1%	0.8%
Swet - Average (Operations/sec)	867185556	1137690354	793416169	715106400	431675084	
	Normalized	76.22%	100%	69.74%	62.86%	37.94%
	Standard Deviation	1%	0.6%	0.3%	1.8%	1.4%
Parallel BZIP2 Compression - 2.F.C (sec)	2.257		7.108	9.335	13.716	
	Normalized	100%		31.75%	24.18%	16.46%
	Standard Deviation	0.3%		1.7%	1.7%	2.1%
Bullet Physics Engine - 3000 Fall (sec)	2.86143	2.674918	3.123245		7.110315	
	Normalized	93.48%	100%	85.65%	37.62%	
	Standard Deviation	5.4%	0%	0.8%	0.8%	

Bullet Physics Engine - 1000 Stack (sec)	3.397069	3.283612	3.646767	8.343604
Normalized	96.66%	100%	90.04%	39.35%
Standard Deviation	3.5%	0.1%	0.5%	0.3%
Bullet Physics Engine - 1000 Convex (sec)	3.046435	2.923287	3.494797	8.153381
Normalized	95.96%	100%	83.65%	35.85%
Standard Deviation	3.1%	0.2%	0.6%	0.4%
Bullet Physics Engine - 136 Ragdolls (sec)	1.842695	1.748024	1.957212	4.746472
Normalized	94.86%	100%	89.31%	36.83%
Standard Deviation	5.5%	0%	0.3%	2%
Bullet Physics Engine - Prim Trimesh (sec)	0.690433	0.658662	0.714912	1.508498
Normalized	95.4%	100%	92.13%	43.66%
Standard Deviation	4.8%	0%	0.8%	0.6%
Bullet Physics Engine - Convex Trimesh (sec)	0.785933	0.755915	0.878443	1.900722
Normalized	96.18%	100%	86.05%	39.77%
Standard Deviation	3.8%	0.3%	2.8%	1%
Cython Benchmark - N-Queens (sec)	33.731	15.915	18.584	41.019
Normalized	47.18%	100%	85.64%	38.8%
Standard Deviation	3.9%	0.1%	0.1%	0.8%
eSpeak-NG Speech Engine - T.T.S.S (sec)	23.183	20.437	27.319	56.283
Normalized	88.16%	100%	74.81%	36.31%
Standard Deviation	4.9%	1.3%	2.1%	0.9%
FFmpeg - H.2.H.T.N.D (sec)	4.408	4.057	5.038	10.556
Normalized	92.04%	100%	80.53%	38.43%
Standard Deviation	0.3%	1.2%	6%	1.2%
Mencoder - AVI To LAVC (sec)	12.653			
Standard Deviation	5%			
Aircrack-ng (k/s)	66544	67286	16316	4771
Normalized	98.9%	100%	24.25%	7.09%
Standard Deviation	0.2%	0.2%	0.1%	0%
glibc bench - cos (nanoseconds)	34.7727	34.7368	33.9884	48.0597
Normalized	97.74%	97.85%	100%	70.72%
Standard Deviation	0%	0.1%	0.8%	0.8%
glibc bench - exp (nanoseconds)	4.29539	4.47529	3.94797	5.40897
Normalized	91.91%	88.22%	100%	72.99%
Standard Deviation	0.6%	1.3%	1.2%	0.1%
glibc bench - ffs (nanoseconds)	2.39543	2.34778	1.44789	1.84618
Normalized	60.44%	61.67%	100%	78.43%
Standard Deviation	0.1%	0.2%	0.5%	0.2%
glibc bench - sin (nanoseconds)	34.2985	34.3210	34.0024	47.0639
Normalized	99.14%	99.07%	100%	72.25%
Standard Deviation	0.1%	0%	2.4%	0%
glibc bench - log2	4.79505	4.39004	6.07831	7.41363
Normalized	91.55%	100%	72.22%	59.22%
Standard Deviation	0.1%	0.4%	0.5%	0.1%
glibc bench - modf	2.39672	2.35093	1.53472	2.08685
Normalized	64.03%	65.28%	100%	73.54%
Standard Deviation	0.1%	0.3%	0.6%	0.1%

glibc bench - sinh	6.91209	6.84033	6.39559	9.10574	19.2148
Normalized	92.53%	93.5%	100%	70.24%	33.28%
Standard Deviation	1%	0.1%	1.9%	0.3%	0.2%
glibc bench - sqrt (nanoseconds)	2.33712	2.32521	1.44816	1.86096	6.68389
Normalized	61.96%	62.28%	100%	77.82%	21.67%
Standard Deviation	4.2%	0%	0.4%	1%	0.2%
glibc bench - tanh	8.35672	8.26959	8.64333	12.8875	26.5353
Normalized	98.96%	100%	95.68%	64.17%	31.16%
Standard Deviation	0.1%	0.6%	0.4%	0.2%	0.1%
glibc bench - asinh	6.09428	6.12683	6.97796	10.0409	24.6170
Normalized	100%	99.47%	87.34%	60.69%	24.76%
Standard Deviation	0.7%	0.6%	0.1%	0%	0.2%
glibc bench - atanh	7.87058	7.77575	9.56644	11.6555	25.6671
Normalized	98.8%	100%	81.28%	66.71%	30.29%
Standard Deviation	0.5%	0.8%	0.1%	0%	0.1%
glibc bench - ffsll (nanoseconds)	2.14519	2.14599	1.23069	1.60875	3.40526
Normalized	57.37%	57.35%	100%	76.5%	36.14%
Standard Deviation	3.7%	0%	0.5%	0.1%	0%
glibc bench - sincos	9.83196	9.75163	10.7141	15.4406	29.0525
Normalized	99.18%	100%	91.02%	63.16%	33.57%
Standard Deviation	0.1%	0.3%	0.6%	1.9%	0.2%
glibc bench - pthread_once	2.12701	2.14446	1.22615	1.61140	3.05306
(nanoseconds)					
Normalized	57.65%	57.18%	100%	76.09%	40.16%
Standard Deviation	4.1%	0%	0.6%	0.2%	0.1%
Multichase Pointer Chaser -	64.404	54.082	78.174	60.937	72.465
2.A.2.B.S (ns)					
Normalized	83.97%	100%	69.18%	88.75%	74.63%
Standard Deviation	4.2%	2.3%	0.1%	3.1%	2.5%

CloverLeaf

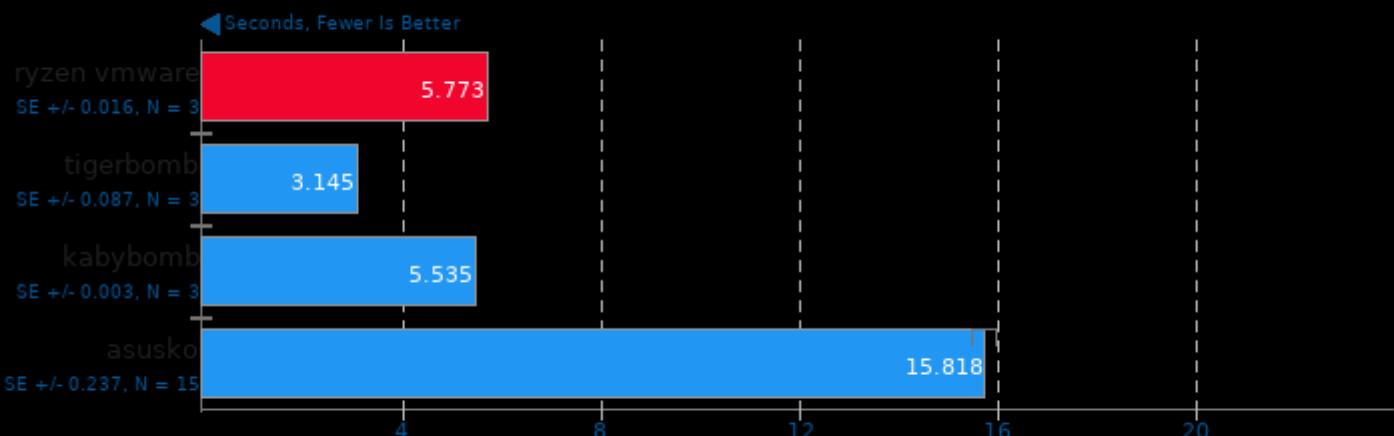
Lagrangian-Eulerian Hydrodynamics



1. (F9X) gfortran options: -O3 -march=native -funroll-loops -fopenmp

PolyBench-C 4.2

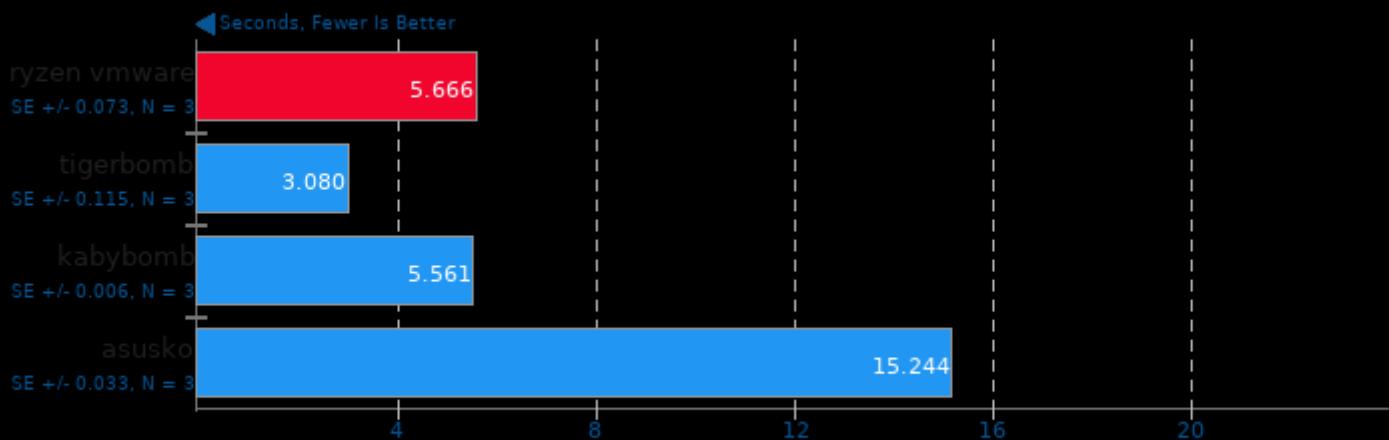
Test: Covariance Computation



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

PolyBench-C 4.2

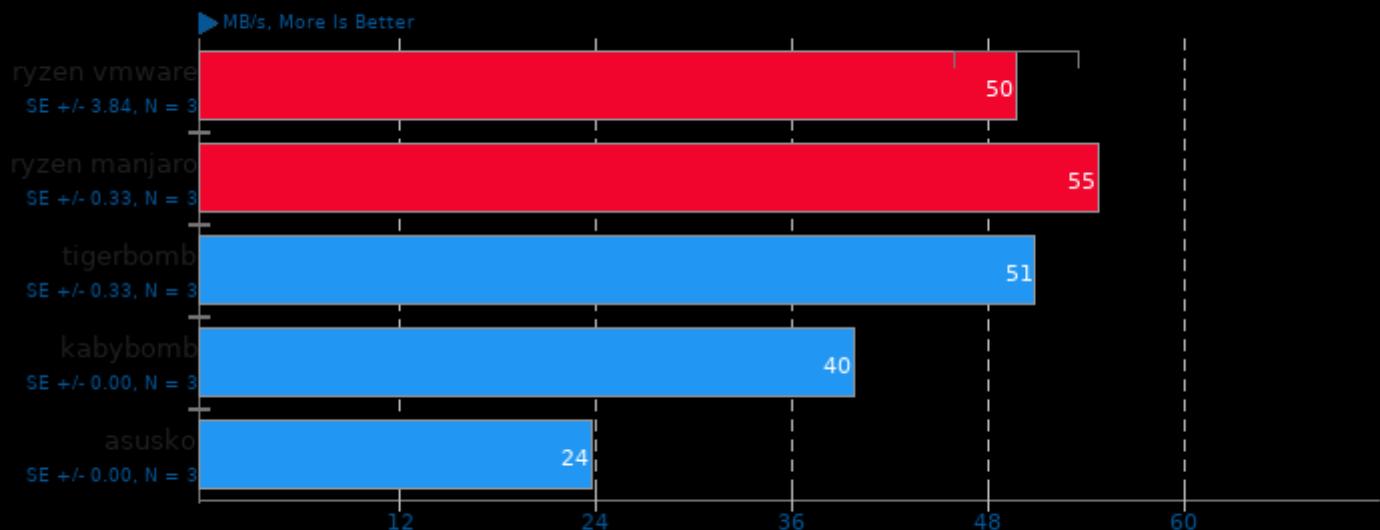
Test: Correlation Computation



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

Izbench 1.8

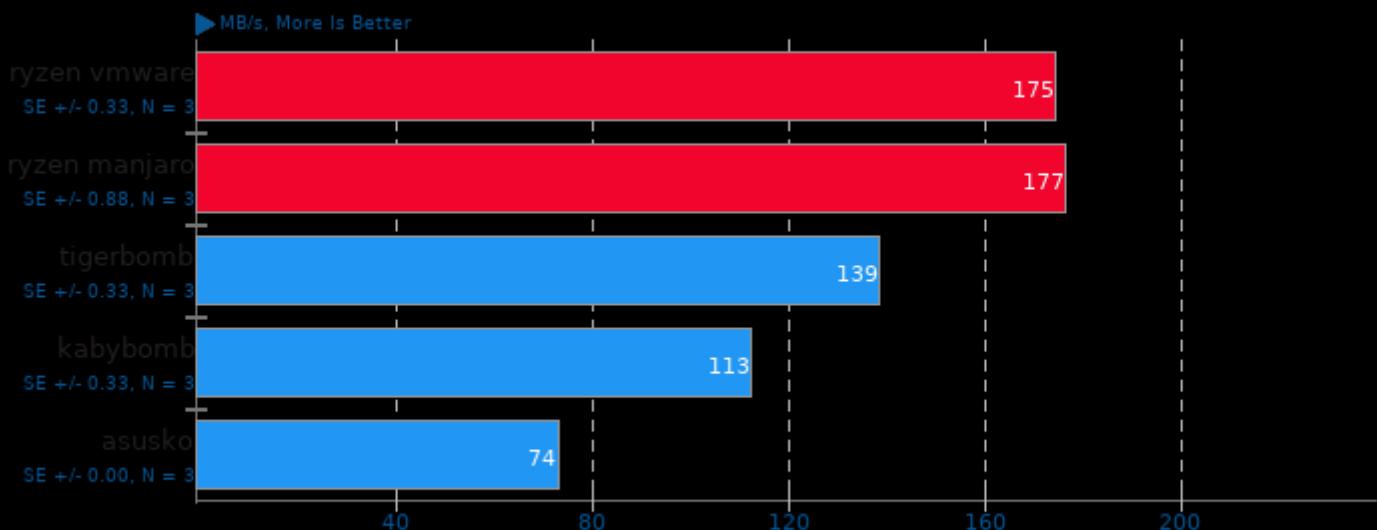
Test: XZ 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

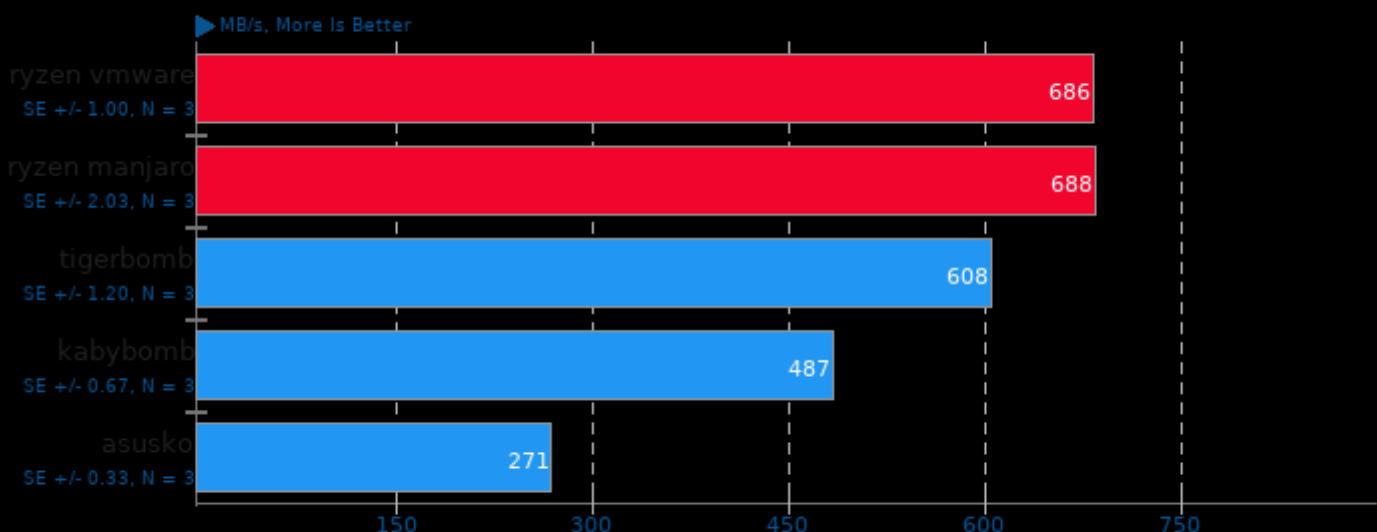
Test: XZ 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

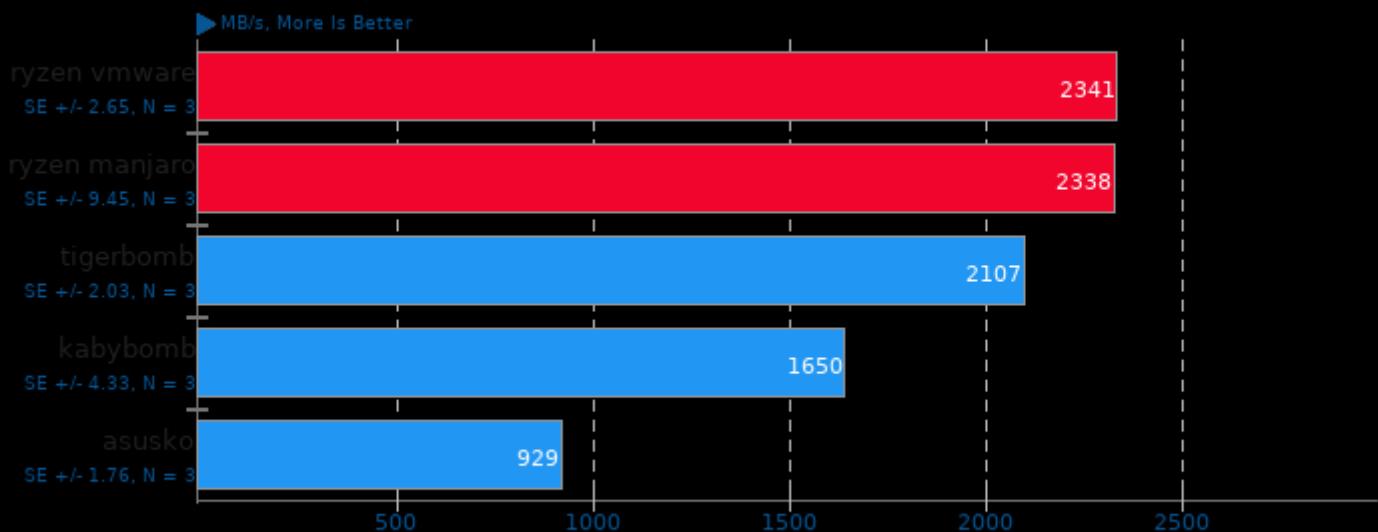
Test: Zstd 1 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

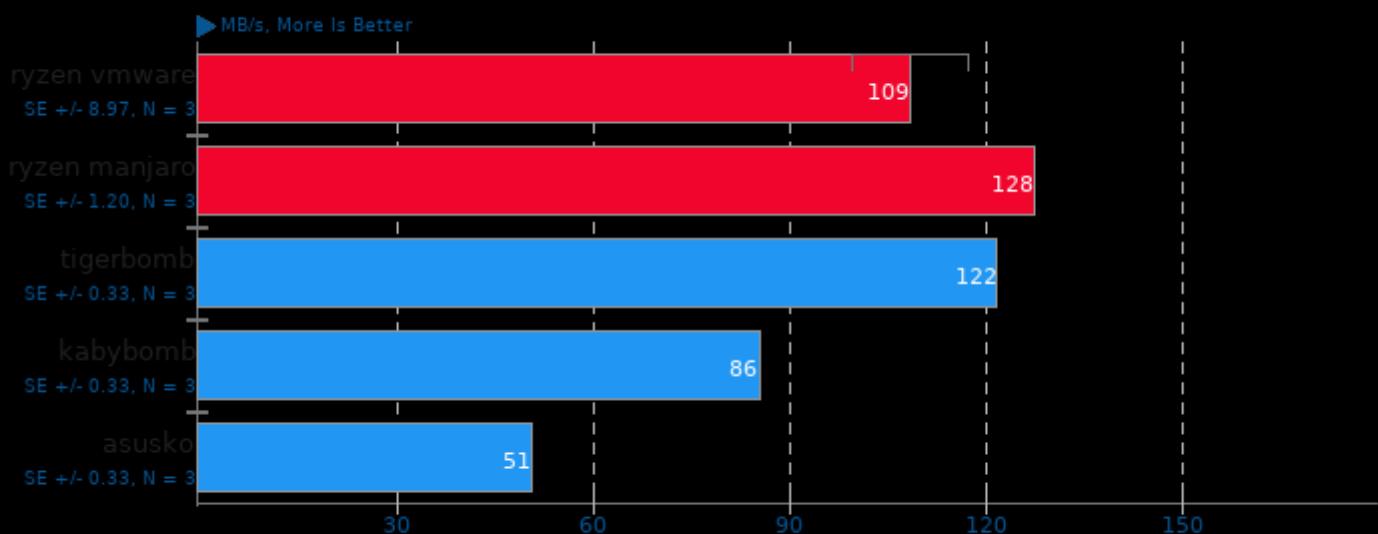
Test: Zstd 1 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

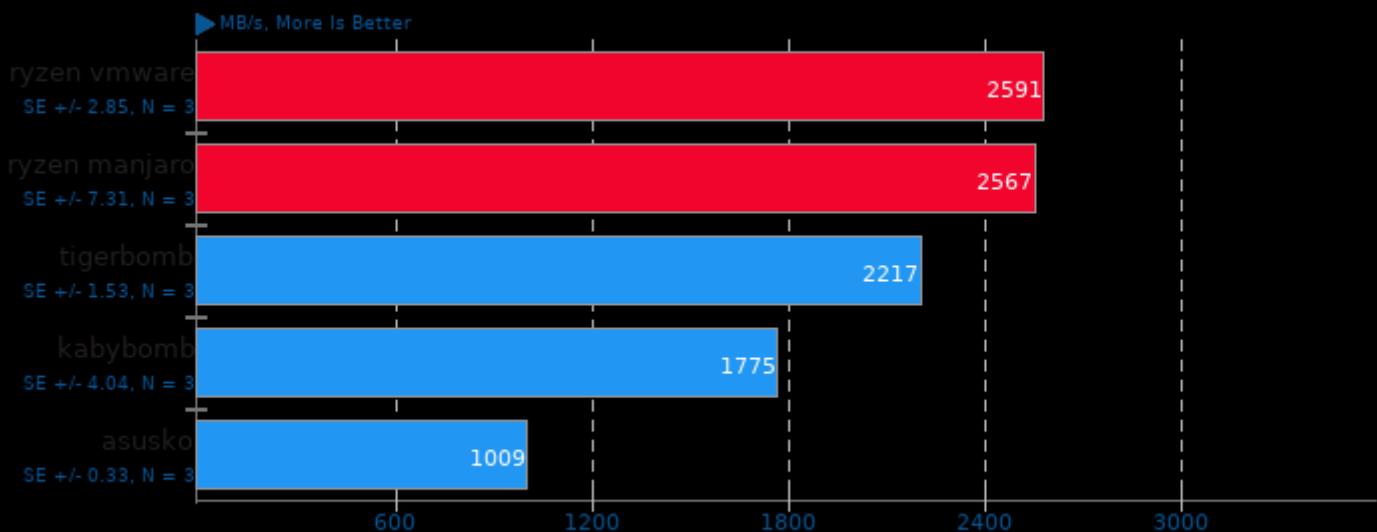
Test: Zstd 8 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

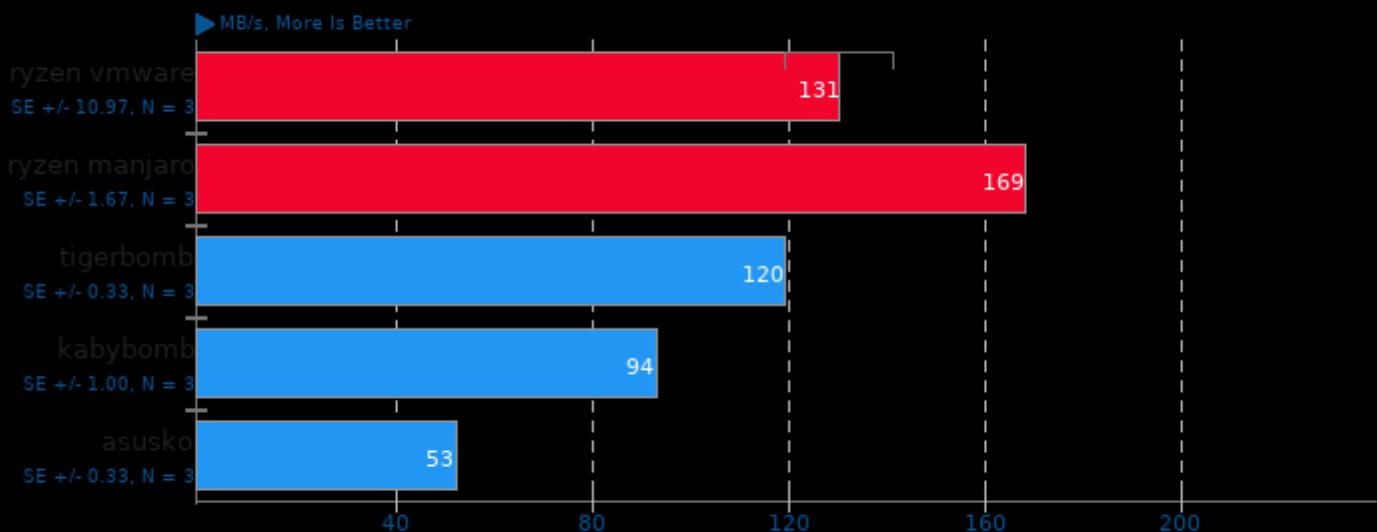
Test: Zstd 8 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

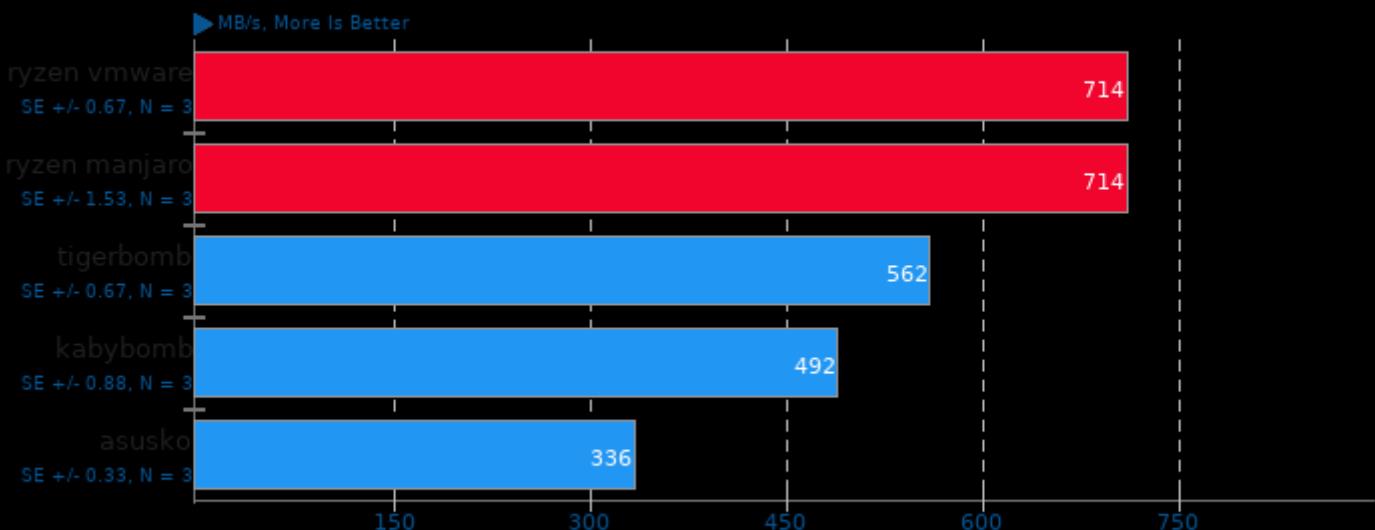
Test: Crush 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

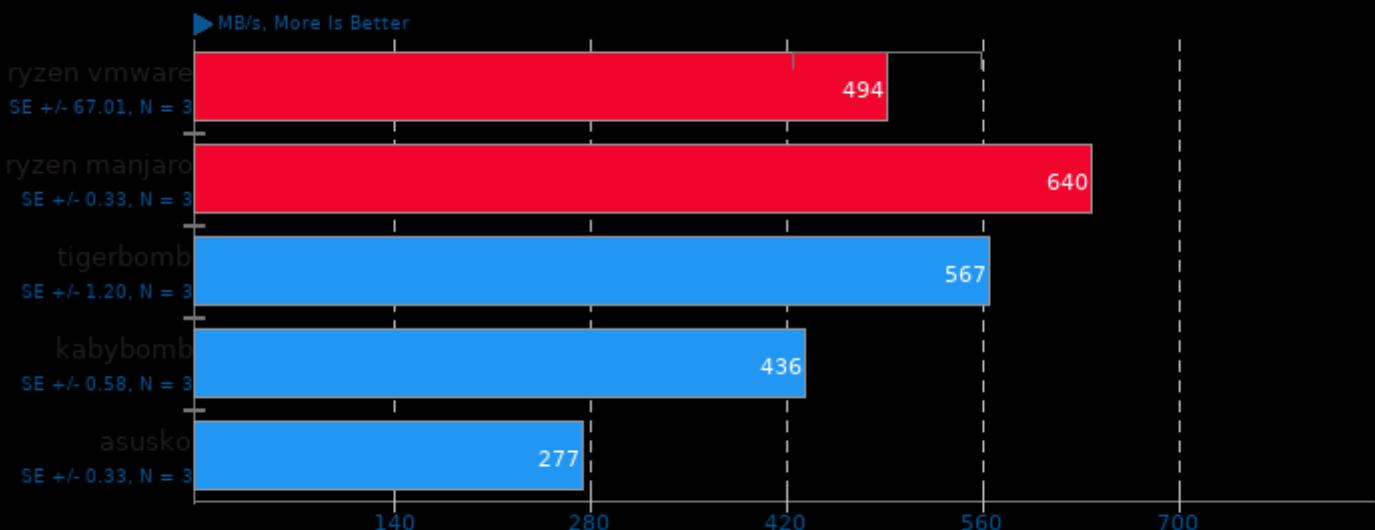
Test: Crush 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

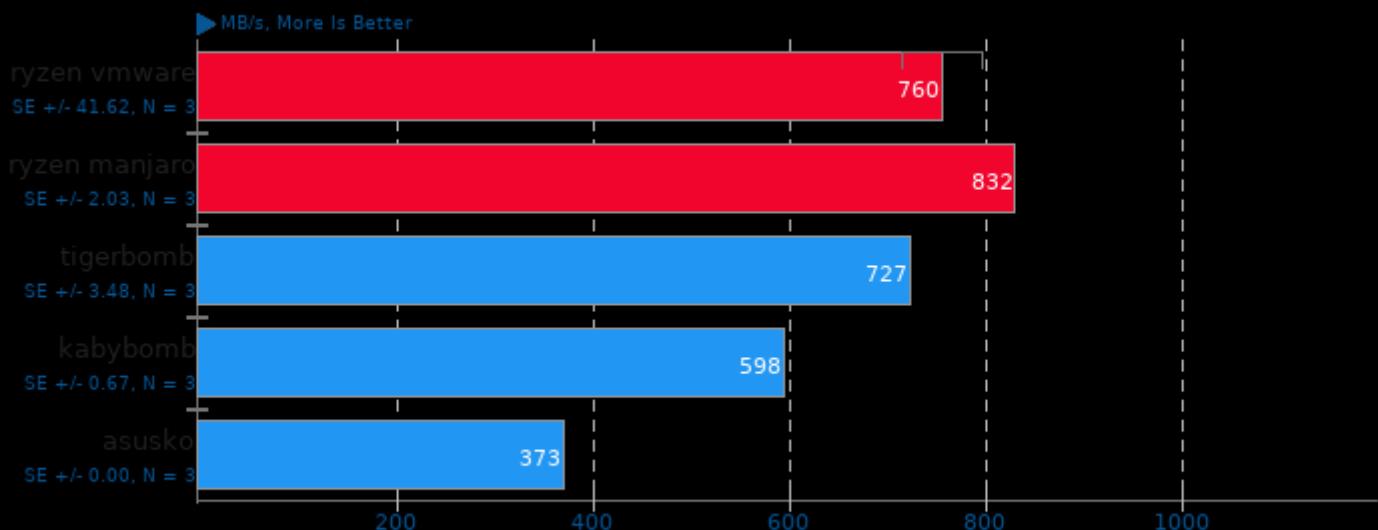
Test: Brotli 0 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

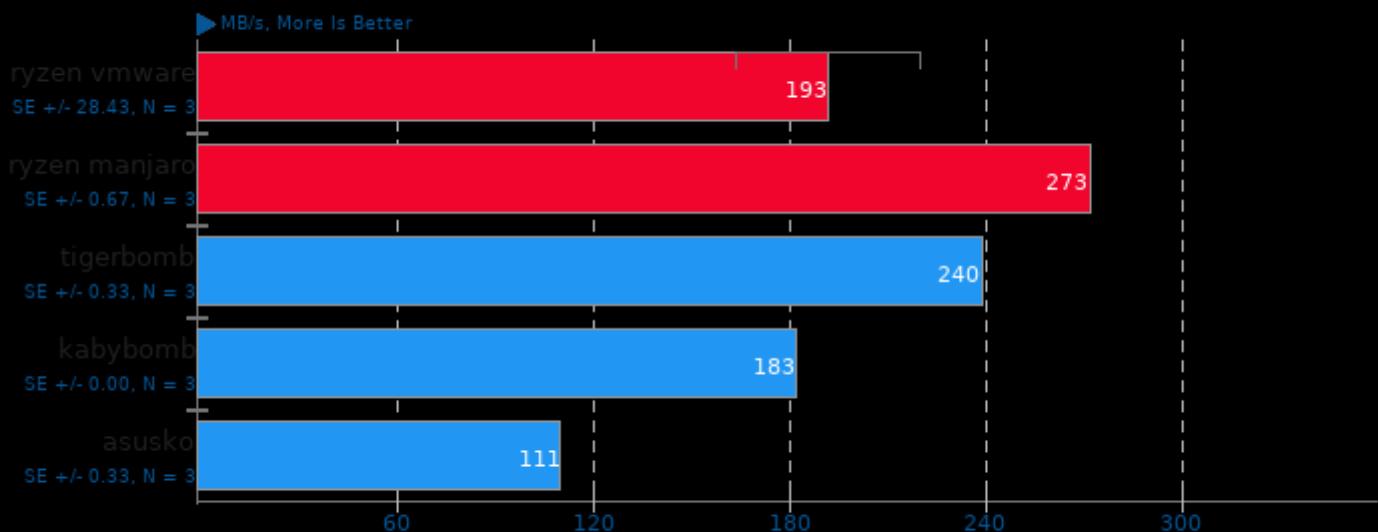
Test: Brotli 0 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

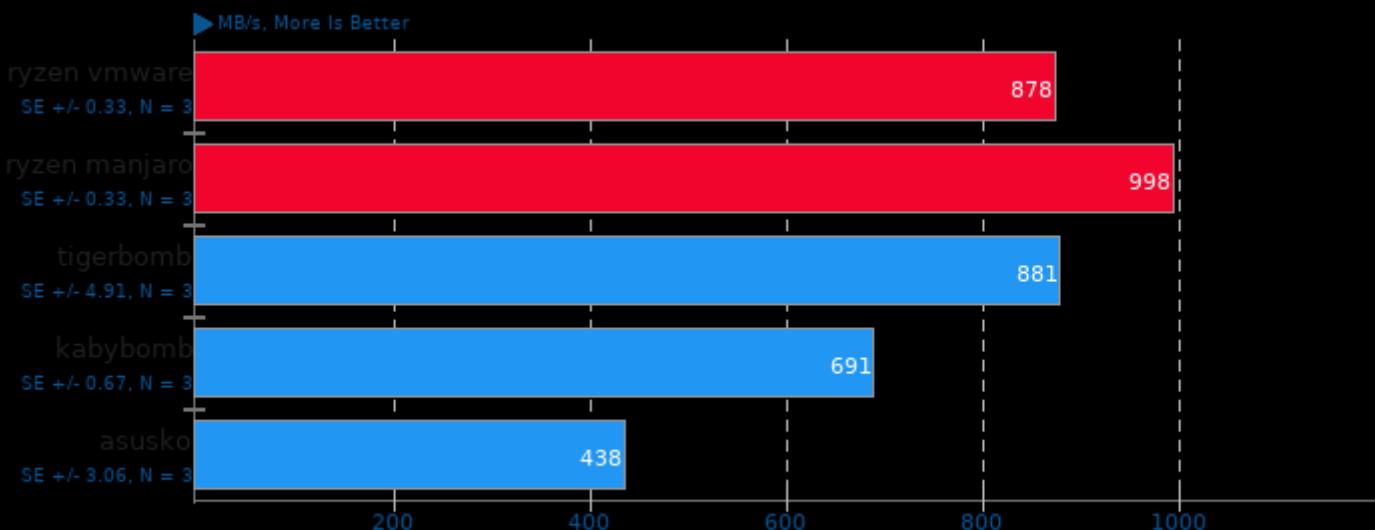
Test: Brotli 2 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

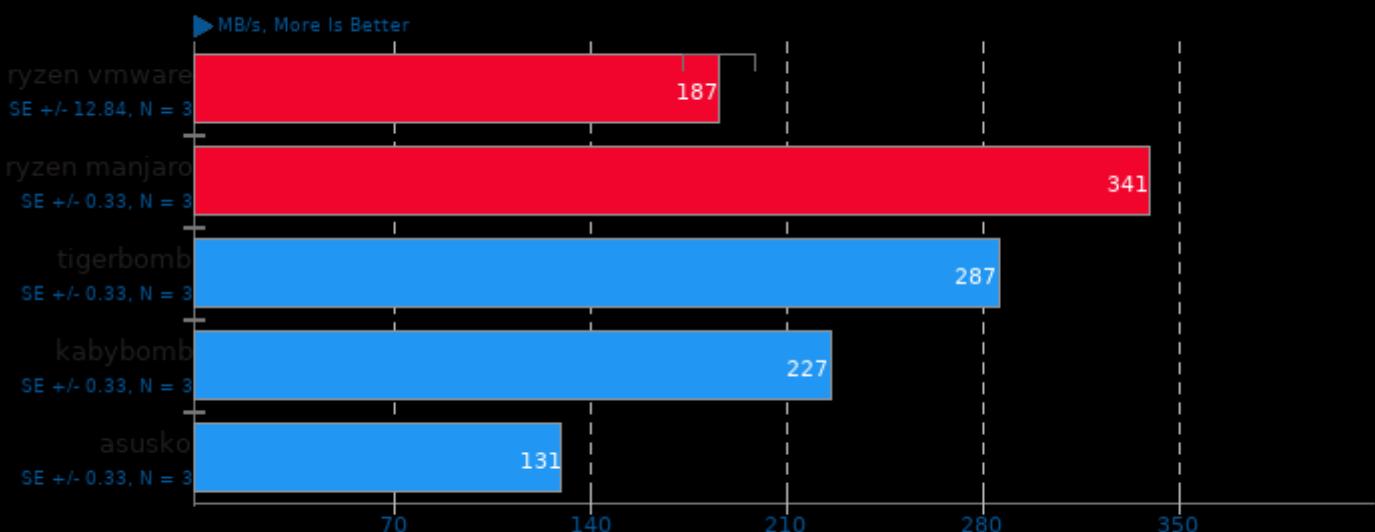
Test: Brotli 2 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

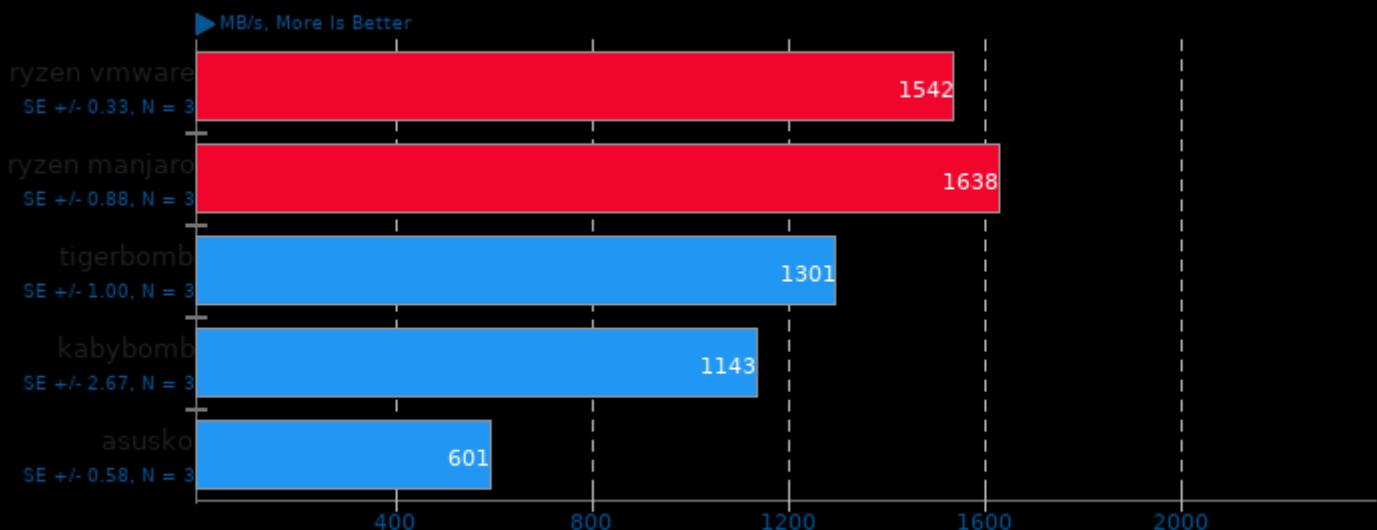
Test: Libdeflate 1 - Process: Compression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

Izbench 1.8

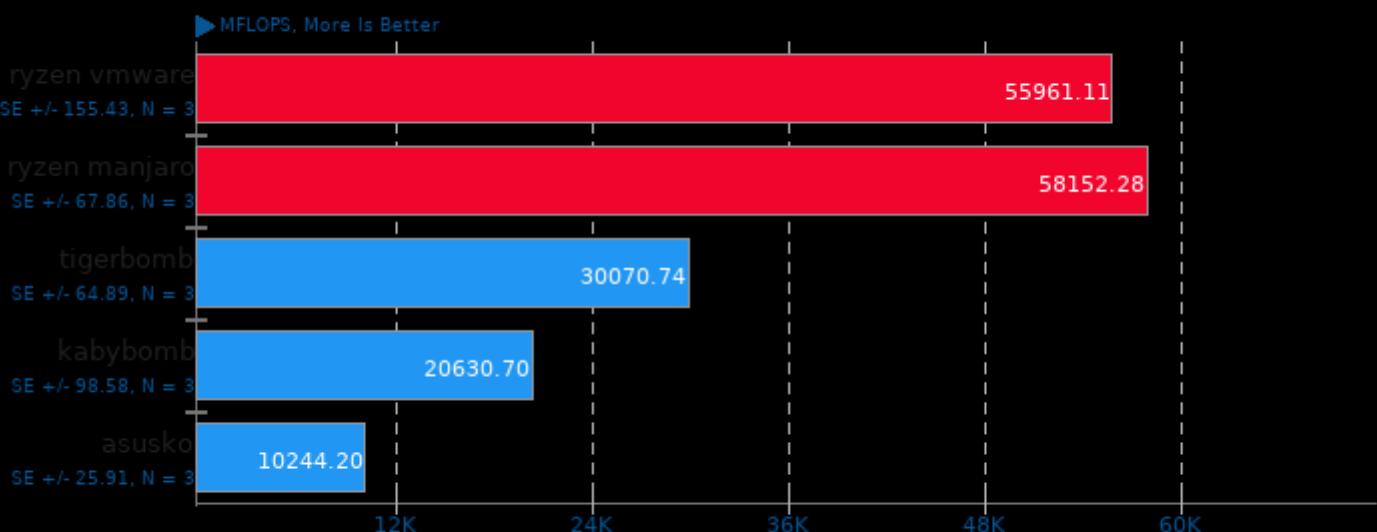
Test: Libdeflate 1 - Process: Decompression



1. (CXX) g++ options: -pthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

FFTE 7.0

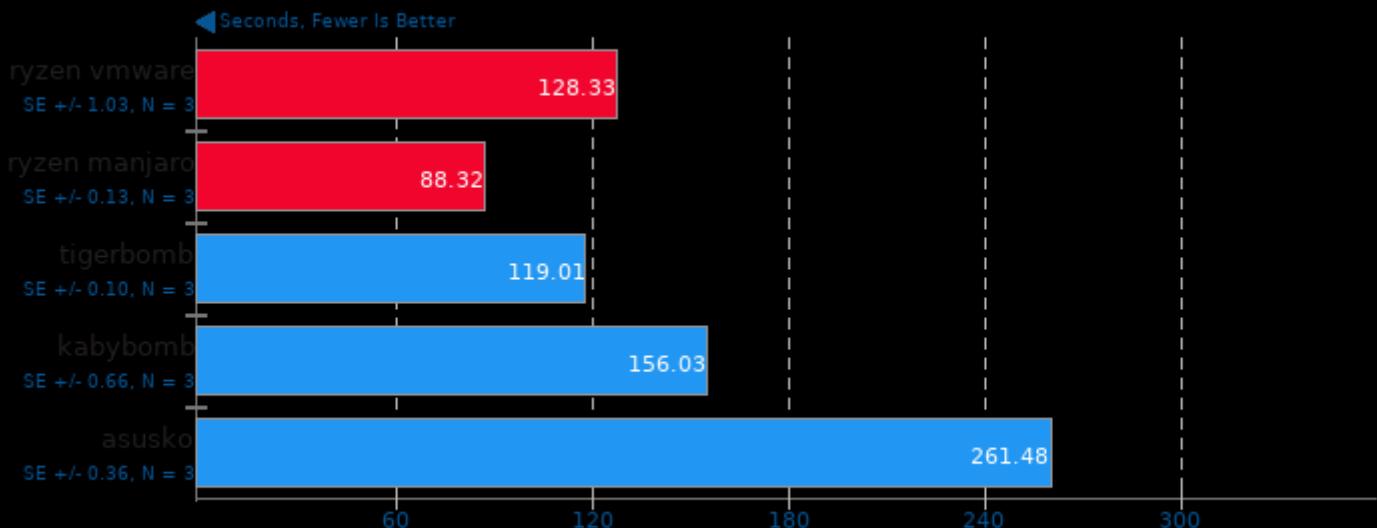
N=256, 3D Complex FFT Routine



1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp

Timed HMMer Search 3.3.2

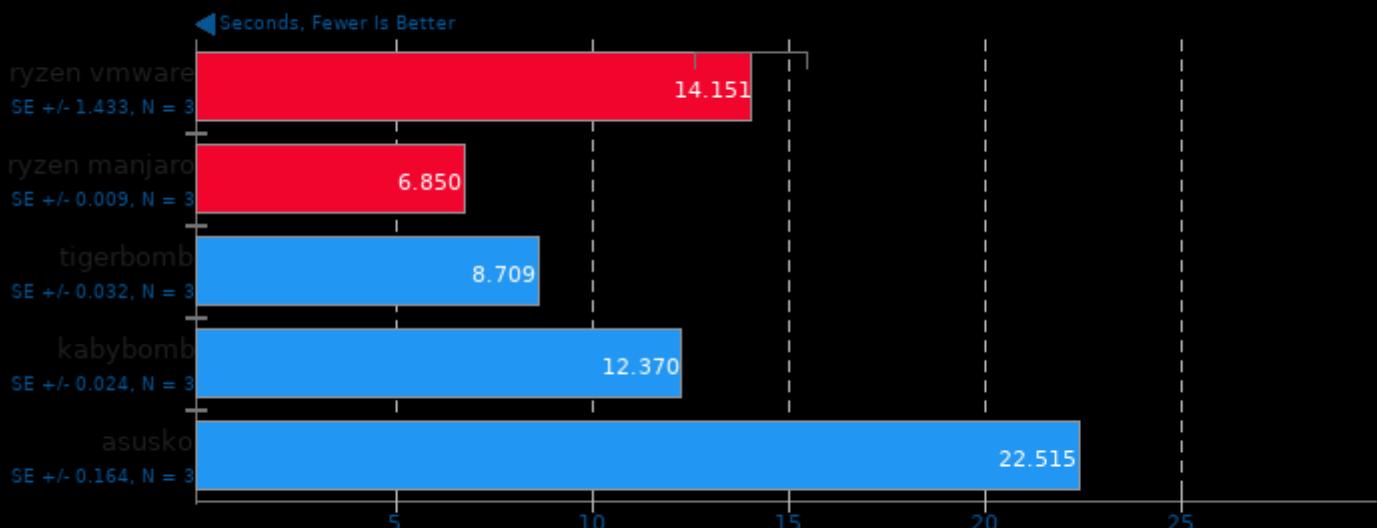
Pfam Database Search



1. (CC) gcc options: -O3 -pthread -lhmmer -leasel -lm -lmpi

Timed MAFFT Alignment 7.471

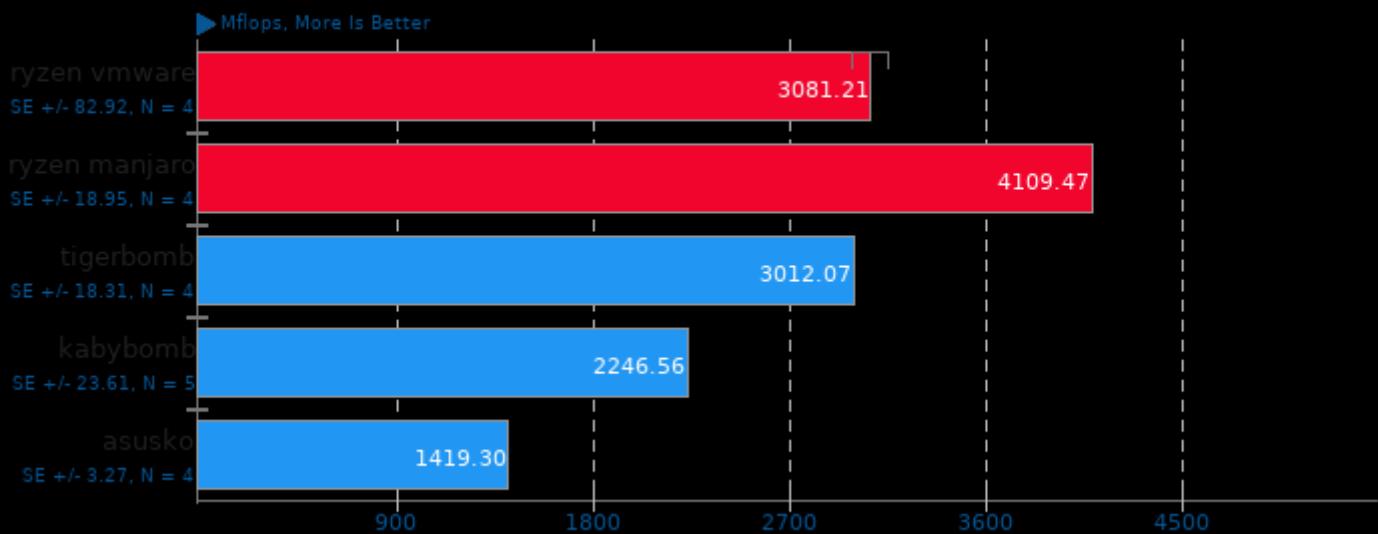
Multiple Sequence Alignment - LSU RNA



1. (CC) gcc options: -std=c99 -O3 -lm -pthread

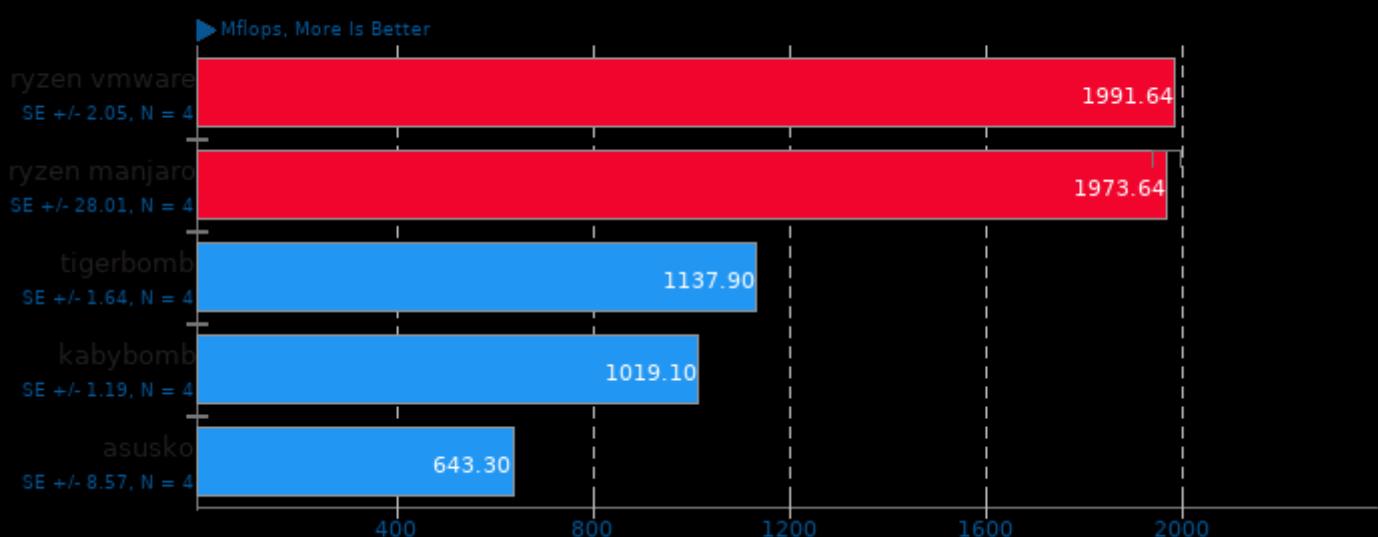
Java SciMark 2.0

Computational Test: Composite



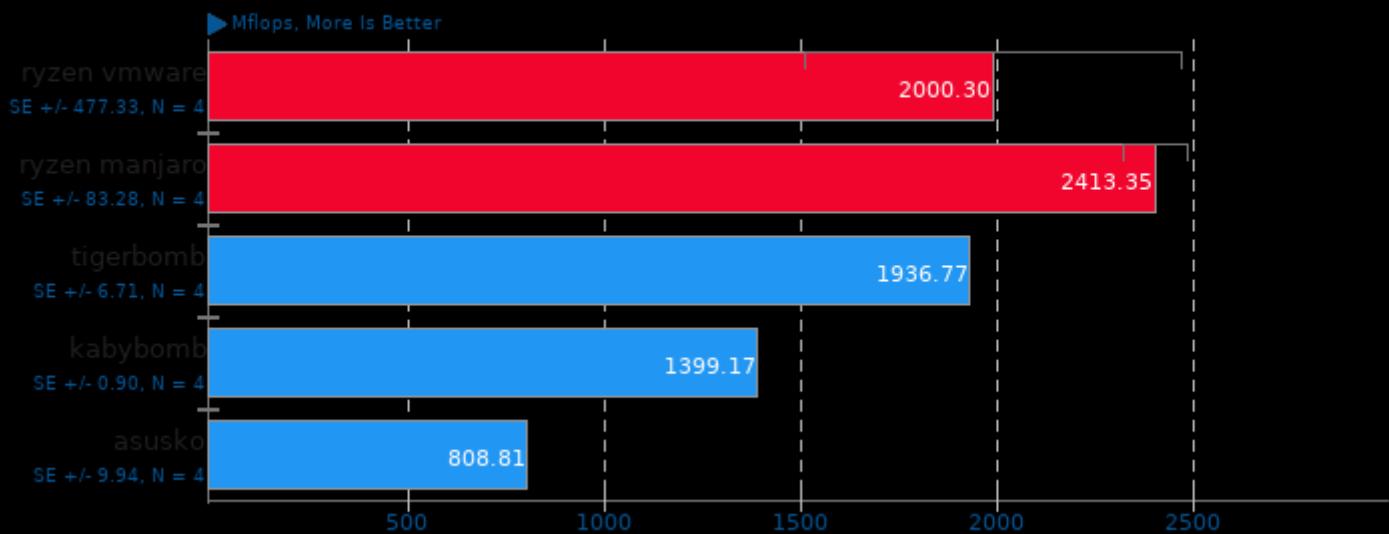
Java SciMark 2.0

Computational Test: Monte Carlo



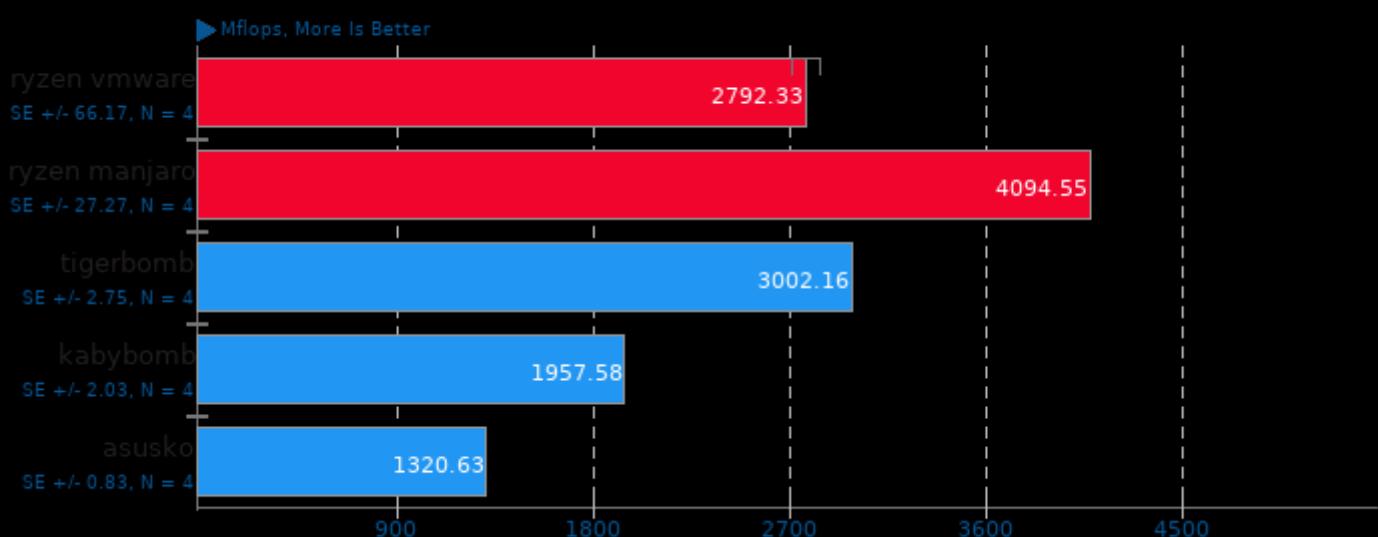
Java SciMark 2.0

Computational Test: Fast Fourier Transform



Java SciMark 2.0

Computational Test: Sparse Matrix Multiply



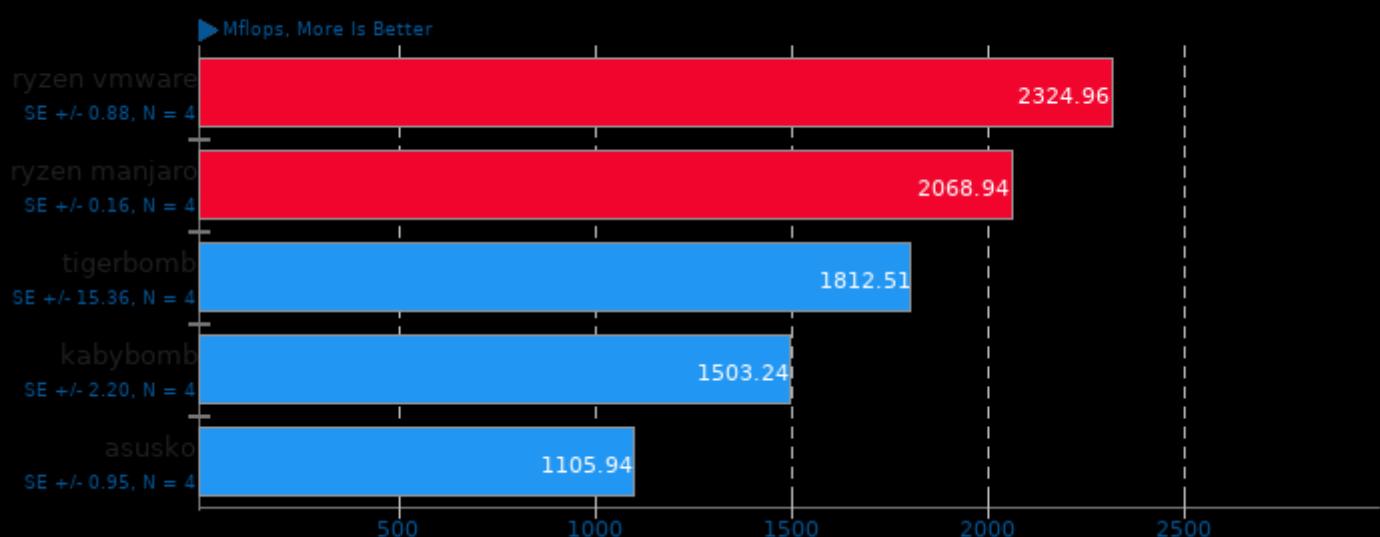
Java SciMark 2.0

Computational Test: Dense LU Matrix Factorization



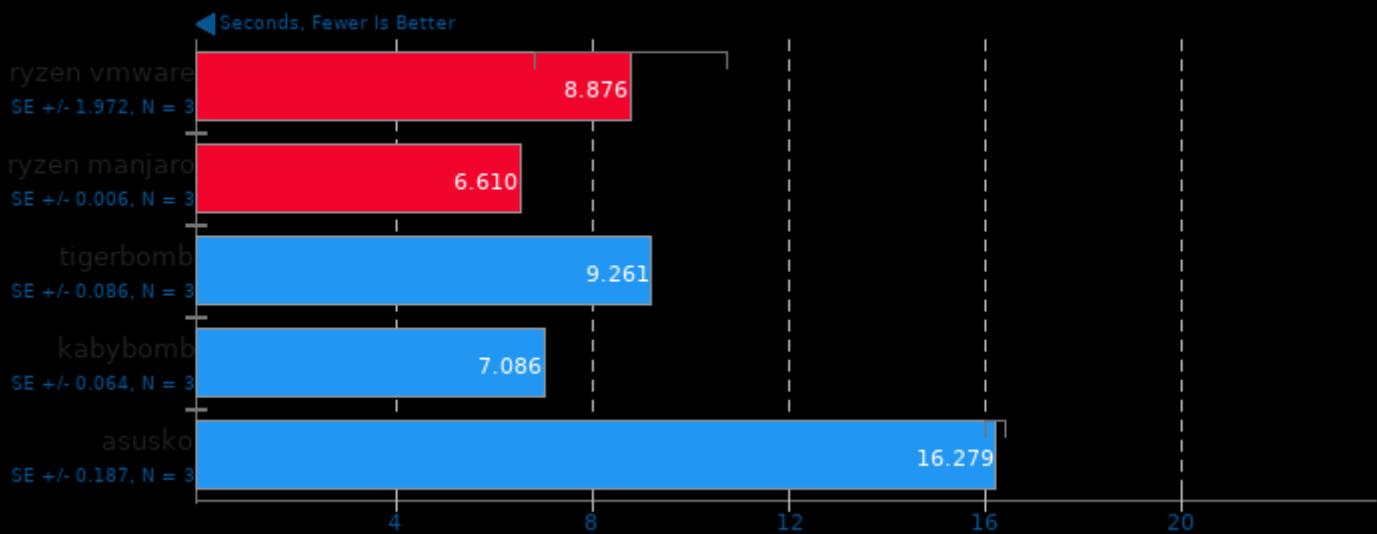
Java SciMark 2.0

Computational Test: Jacobi Successive Over-Relaxation



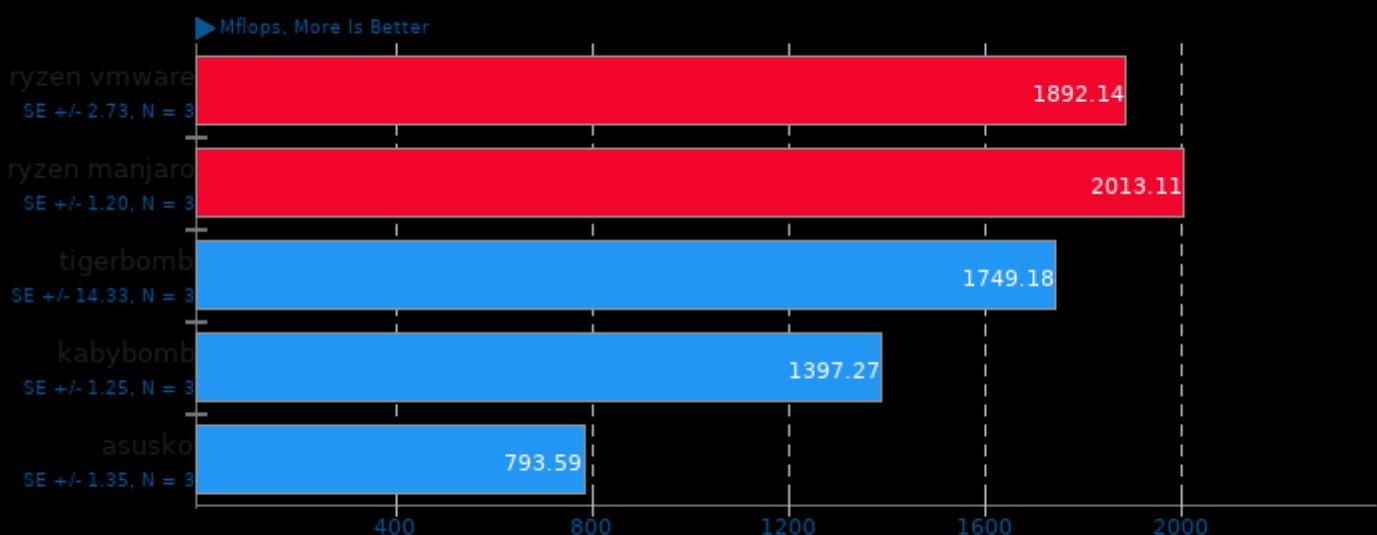
Bork File Encrypter 1.4

File Encryption Time



LuajIT 2.1-git

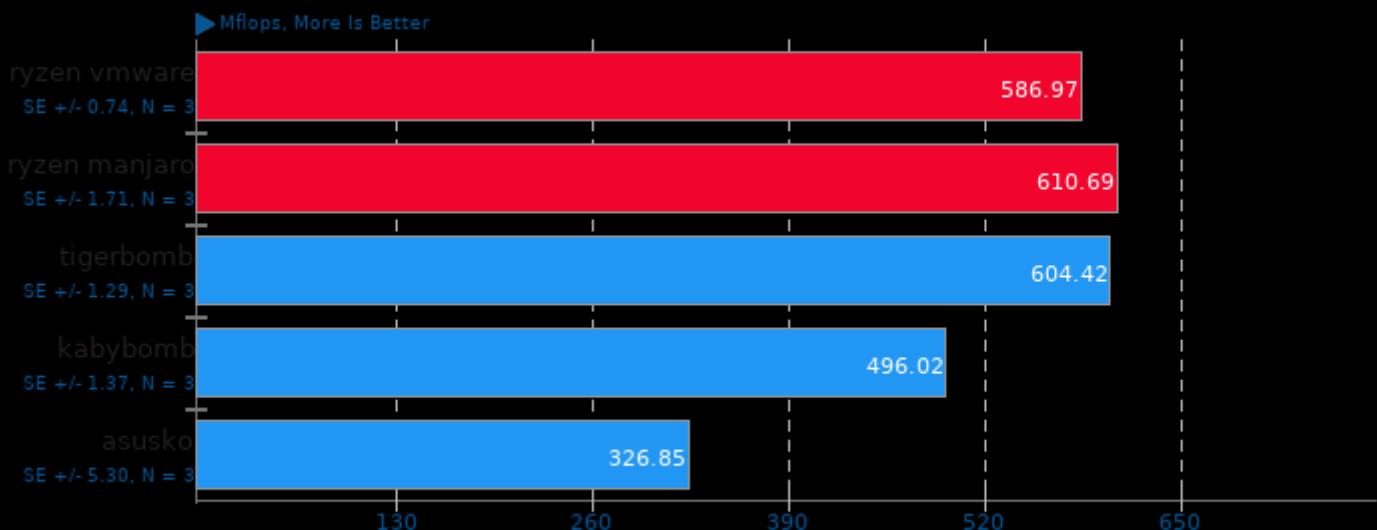
Test: Composite



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuajIT 2.1-git

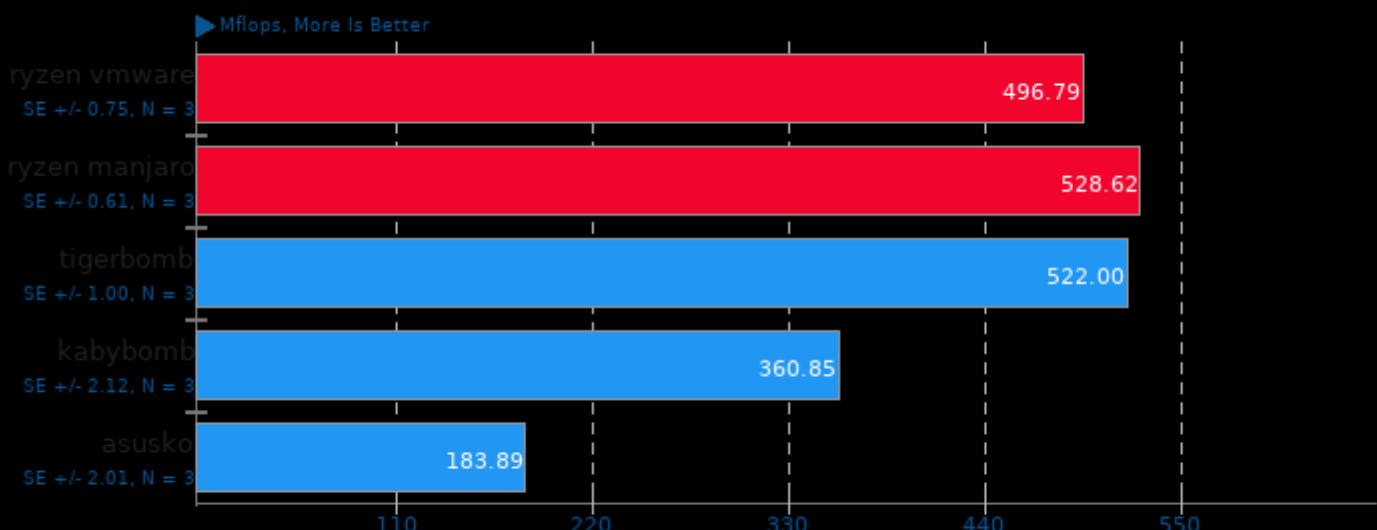
Test: Monte Carlo



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuajIT 2.1-git

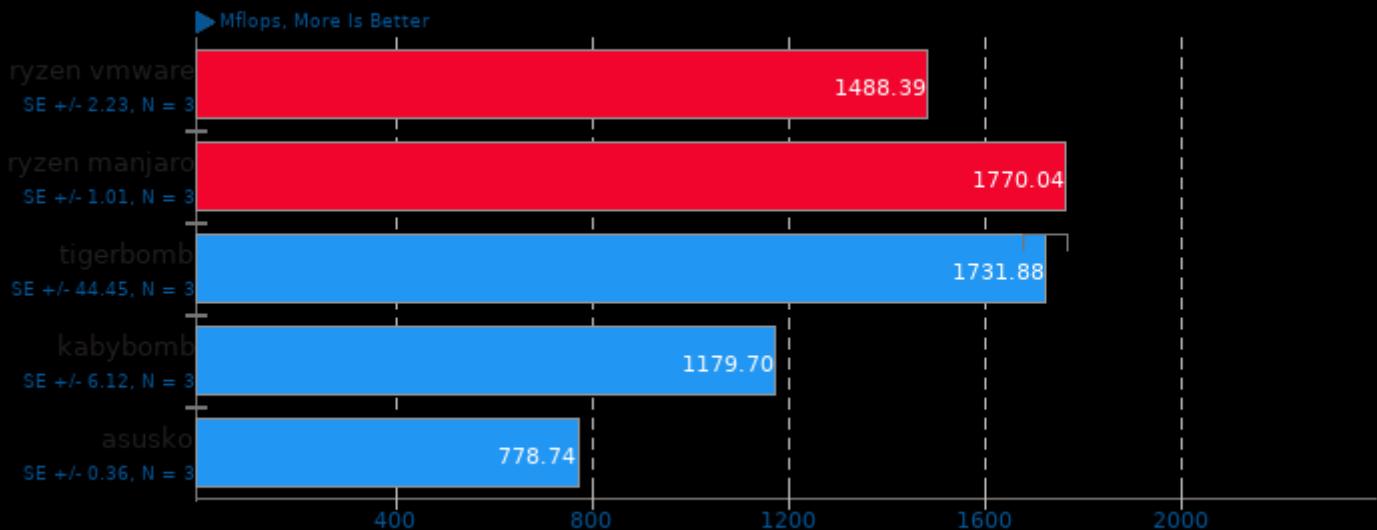
Test: Fast Fourier Transform



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

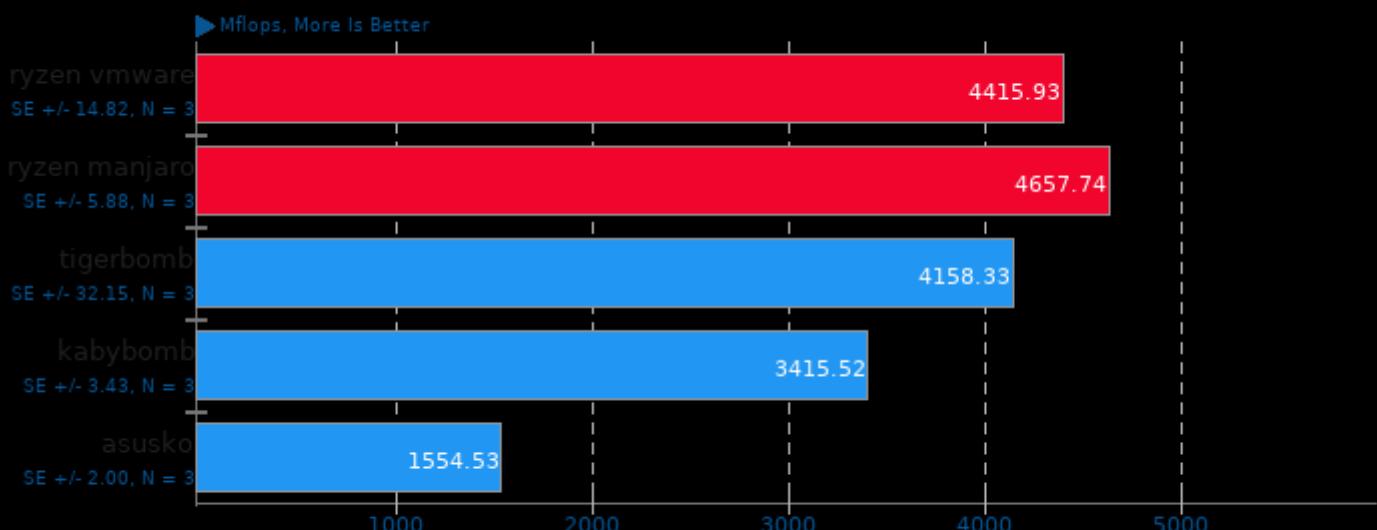
Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuaJIT 2.1-git

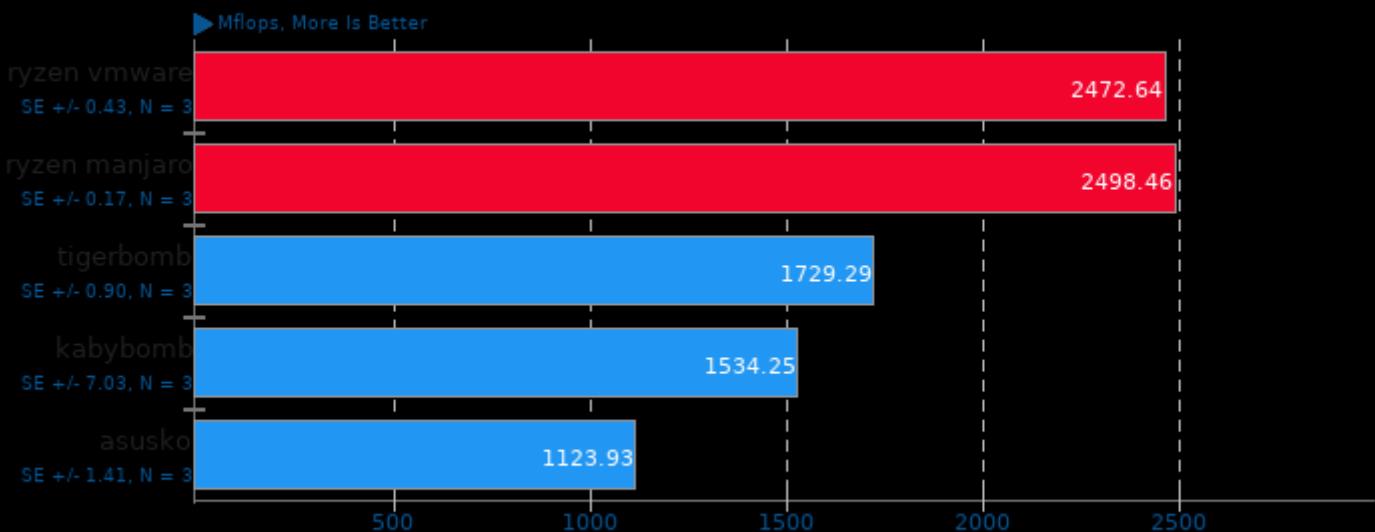
Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

LuajIT 2.1-git

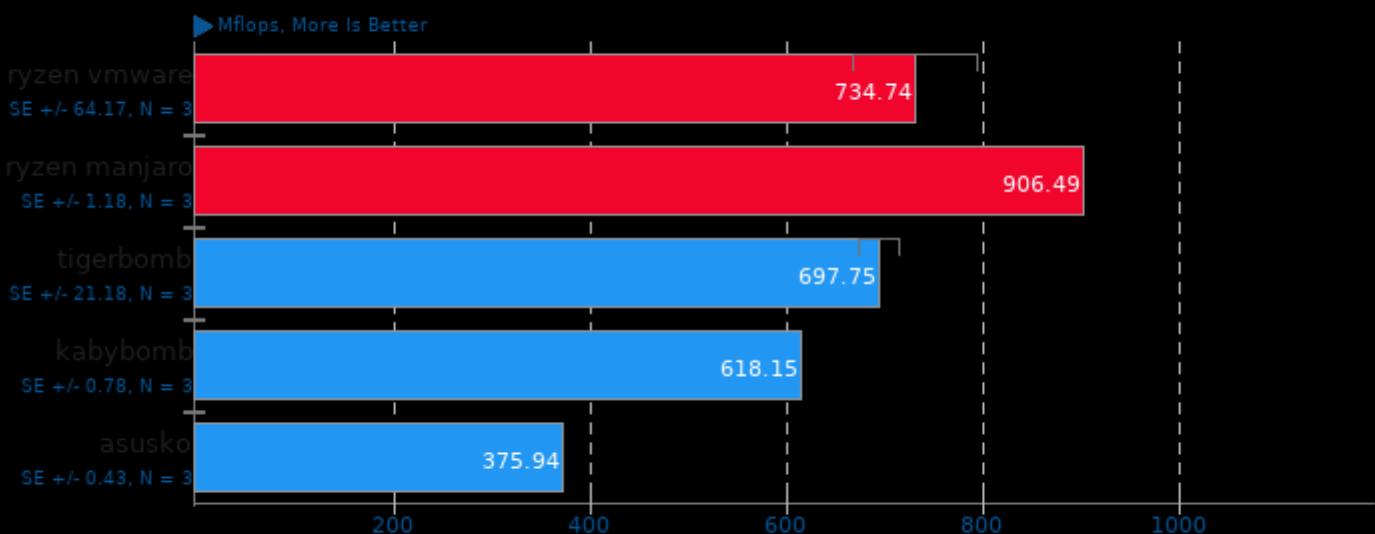
Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm -ldl -O2 -fomit-frame-pointer -U_FORTIFY_SOURCE -fno-stack-protector

SciMark 2.0

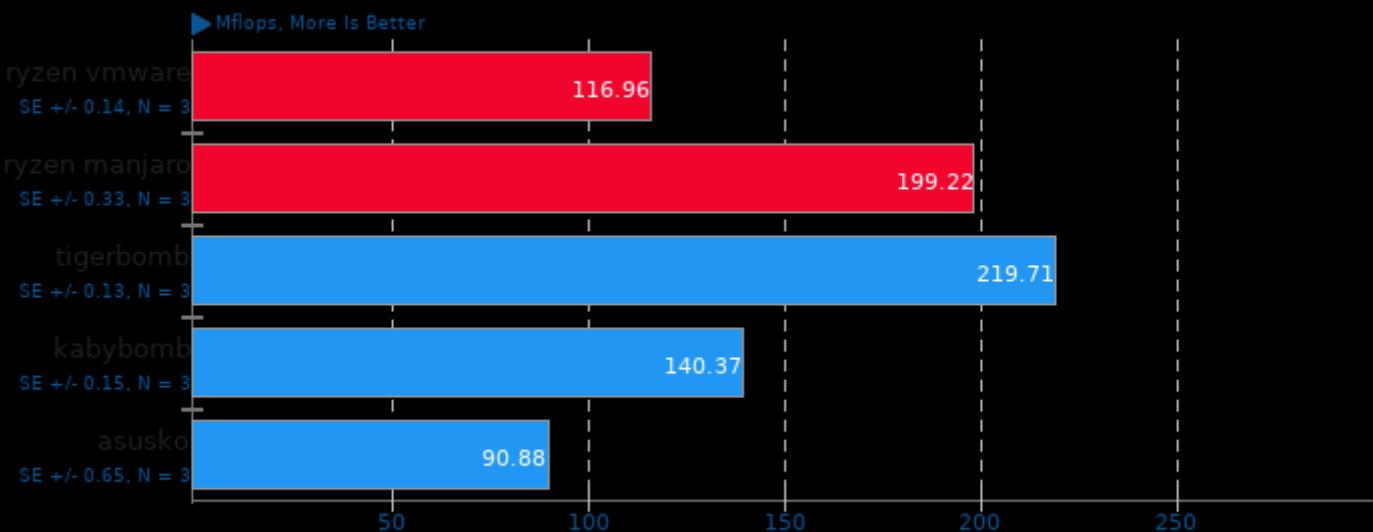
Computational Test: Composite



1. (CC) gcc options: -lm

SciMark 2.0

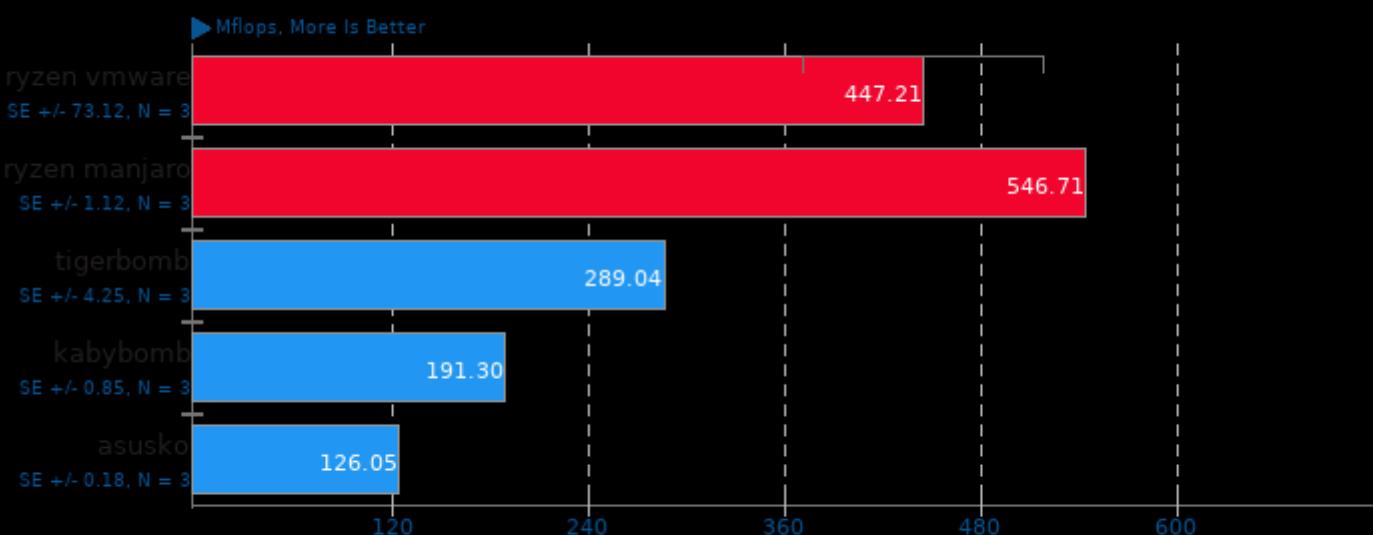
Computational Test: Monte Carlo



1. (CC) gcc options: -lm

SciMark 2.0

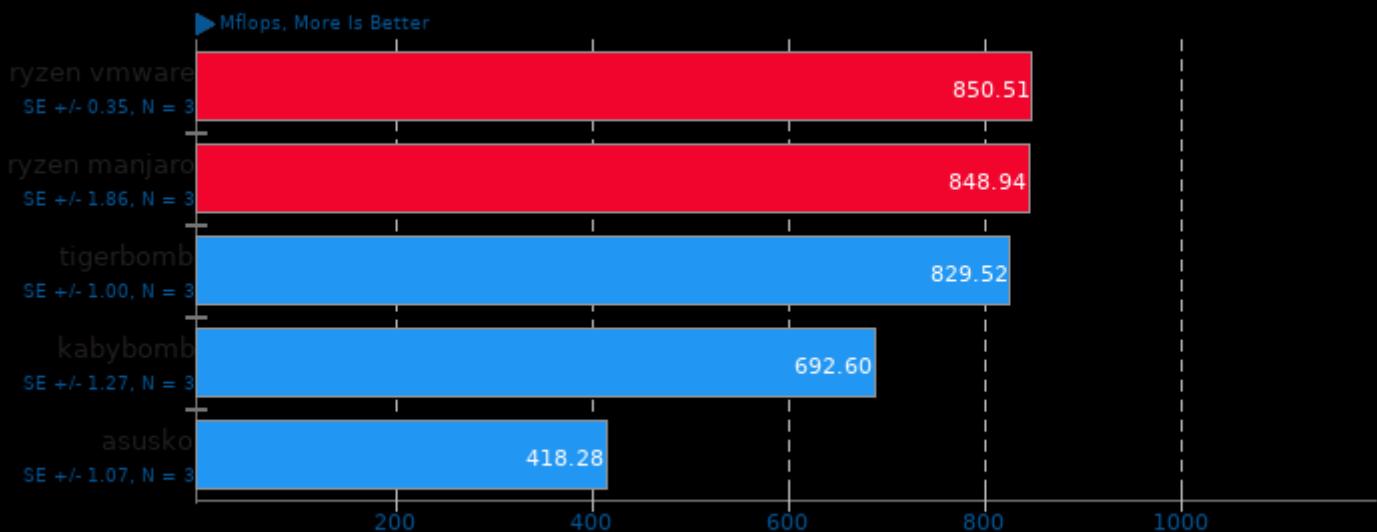
Computational Test: Fast Fourier Transform



1. (CC) gcc options: -lm

SciMark 2.0

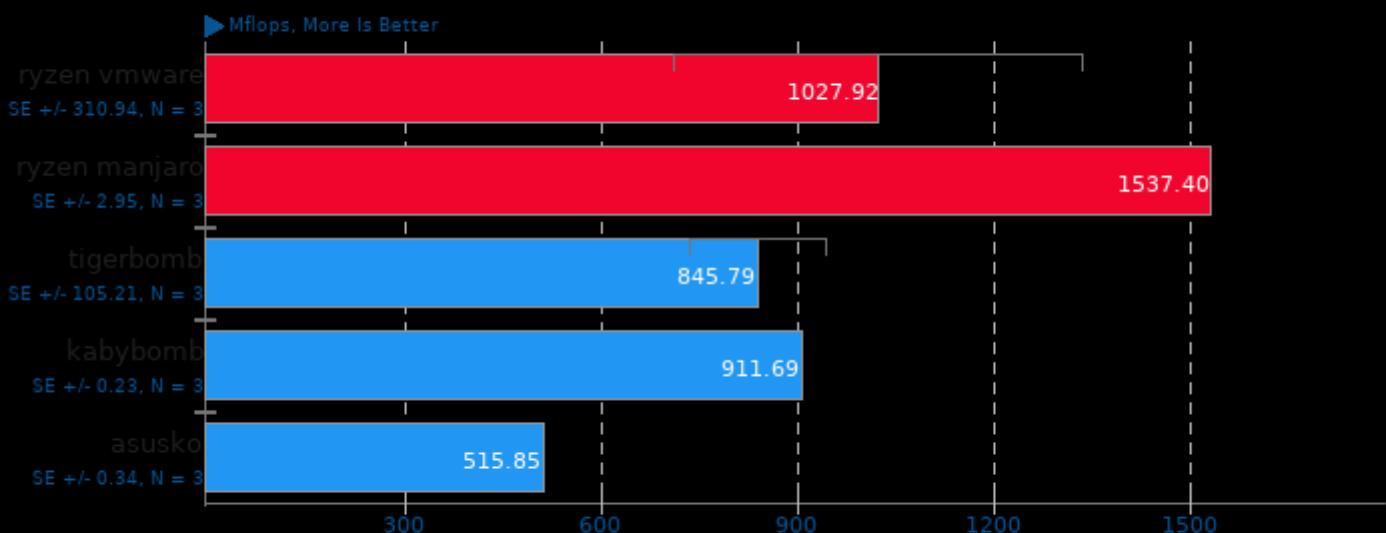
Computational Test: Sparse Matrix Multiply



1. (CC) gcc options: -lm

SciMark 2.0

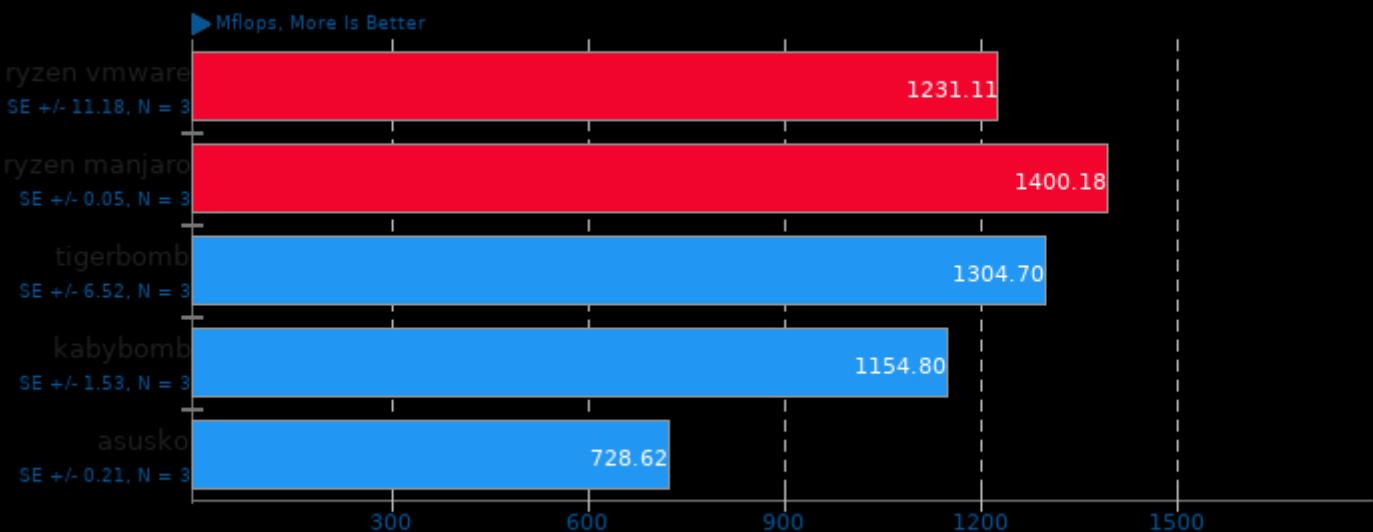
Computational Test: Dense LU Matrix Factorization



1. (CC) gcc options: -lm

SciMark 2.0

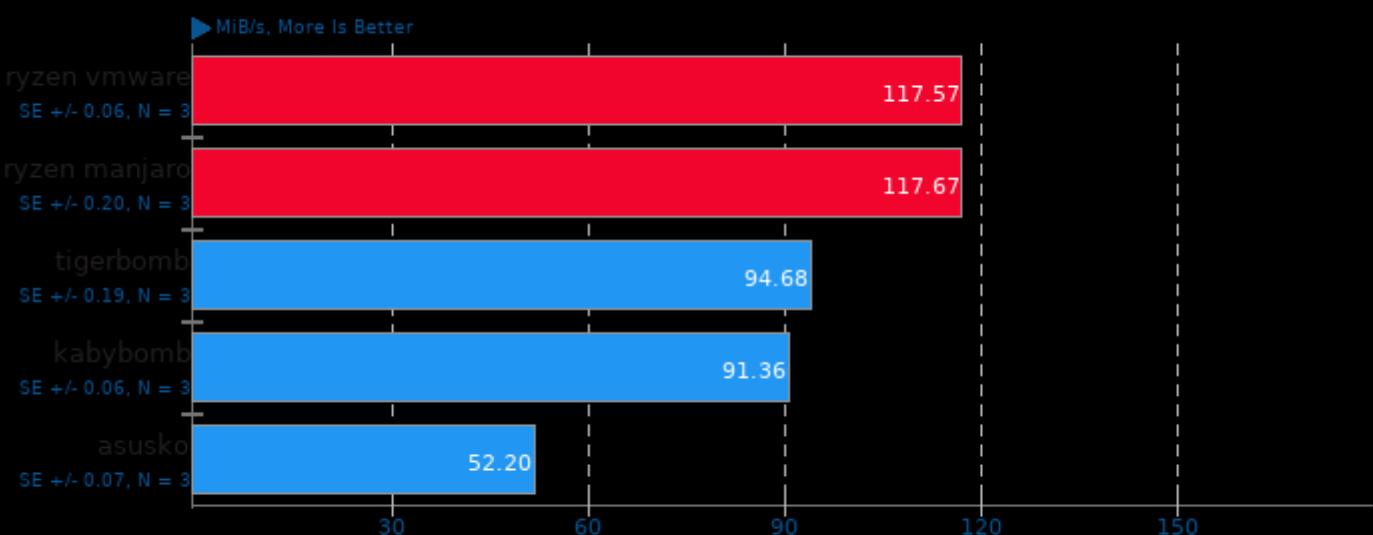
Computational Test: Jacobi Successive Over-Relaxation



1. (CC) gcc options: -lm

Botan 2.17.3

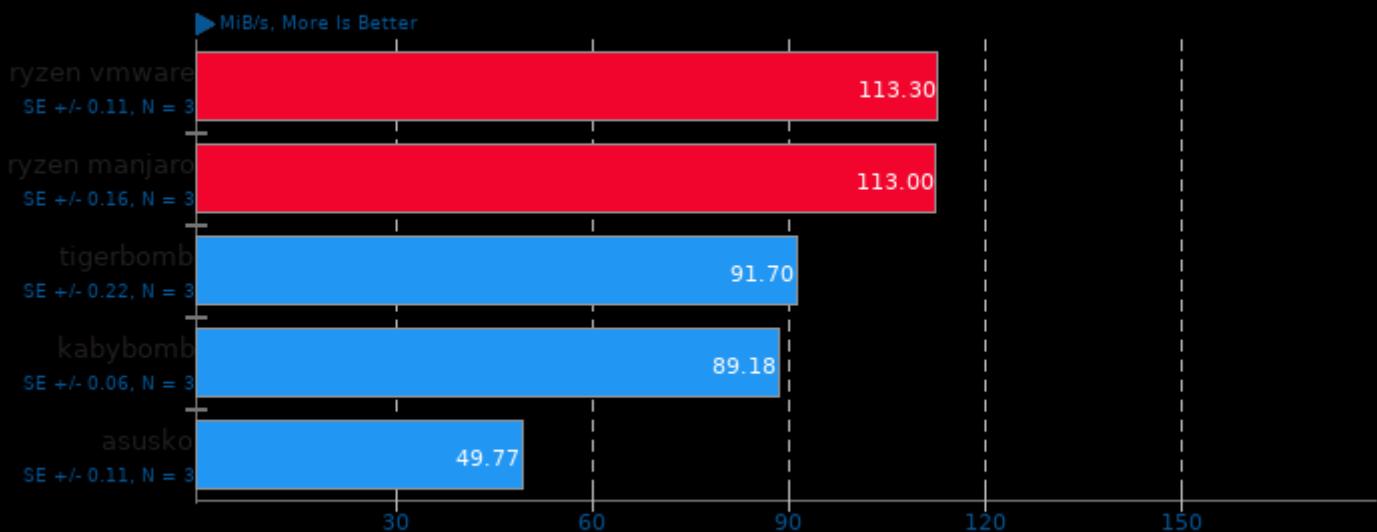
Test: KASUMI



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

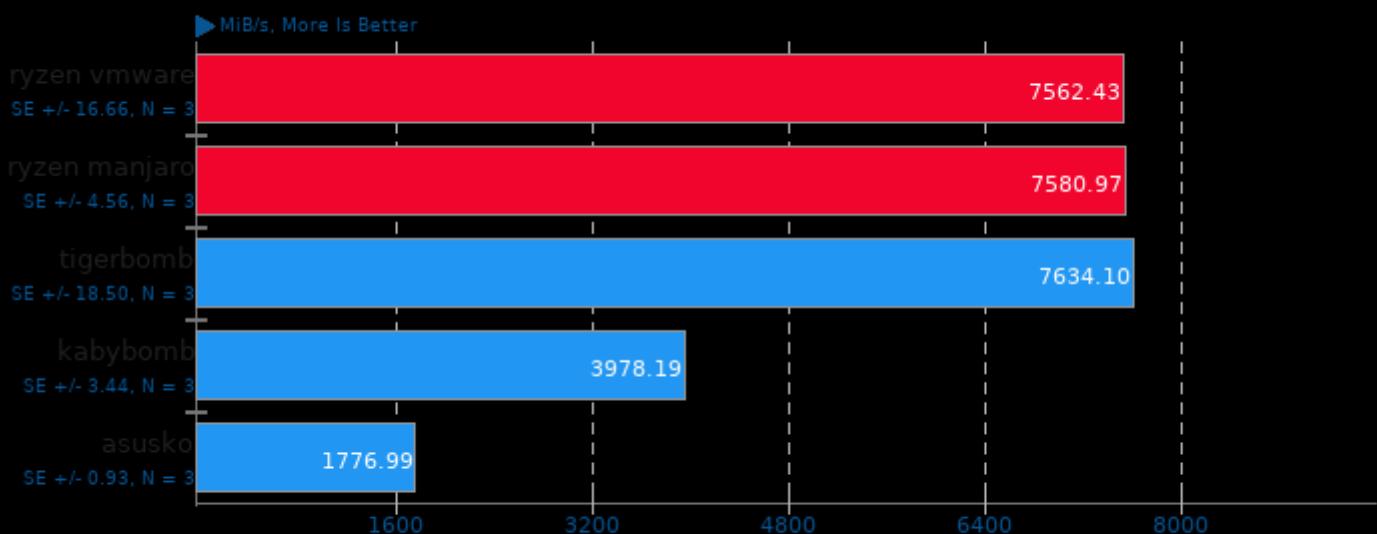
Test: KASUMI - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

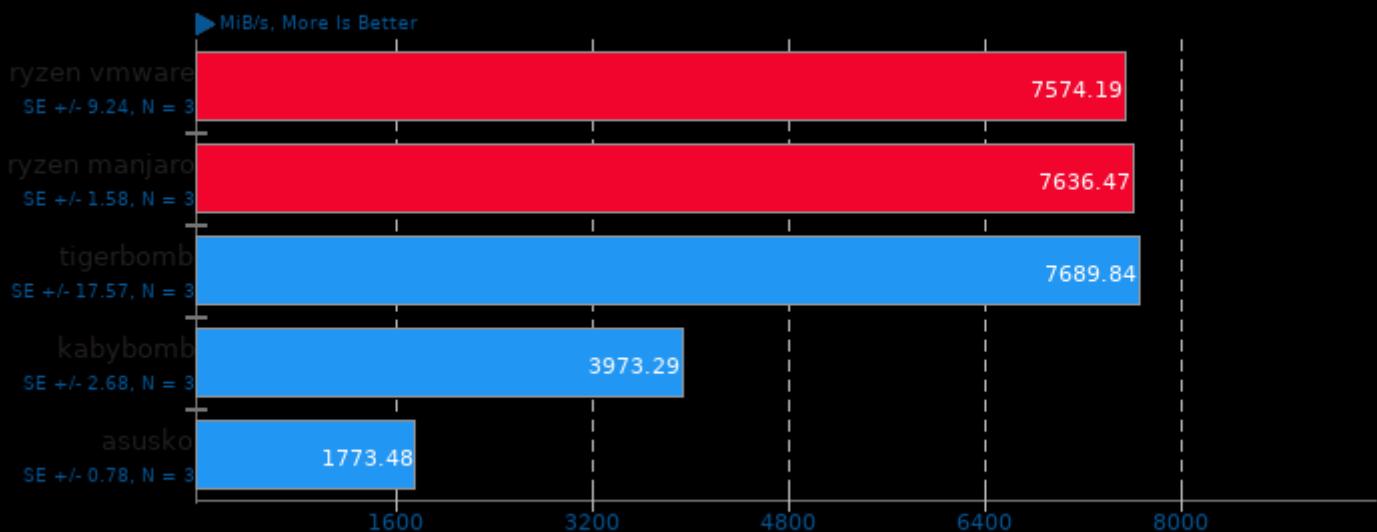
Test: AES-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

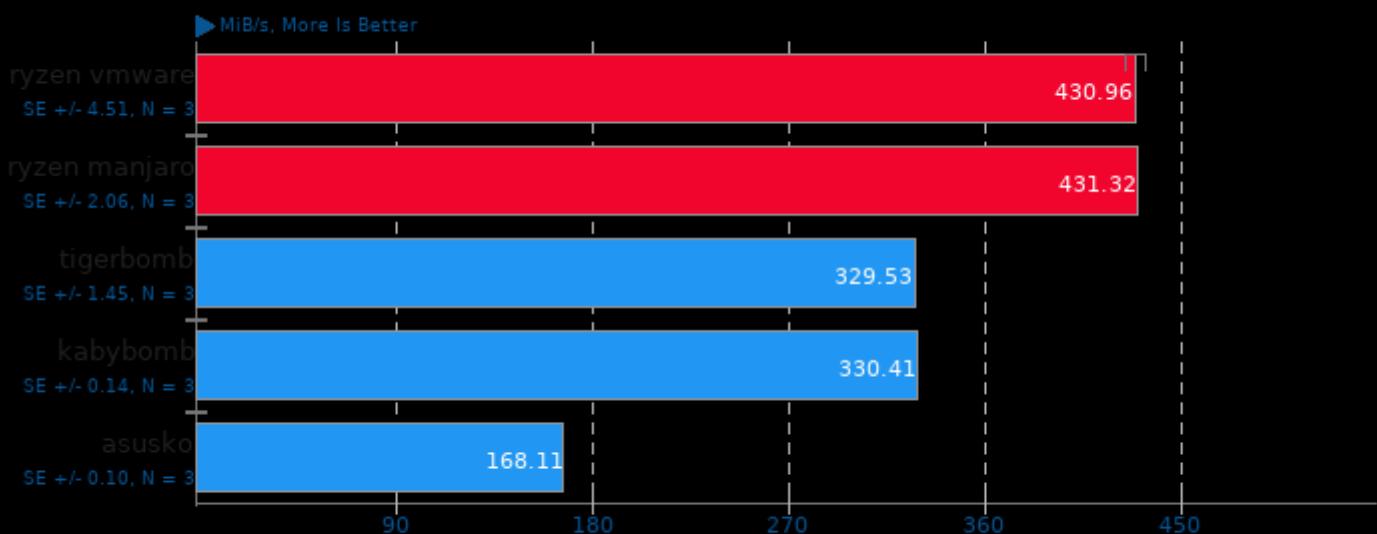
Test: AES-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

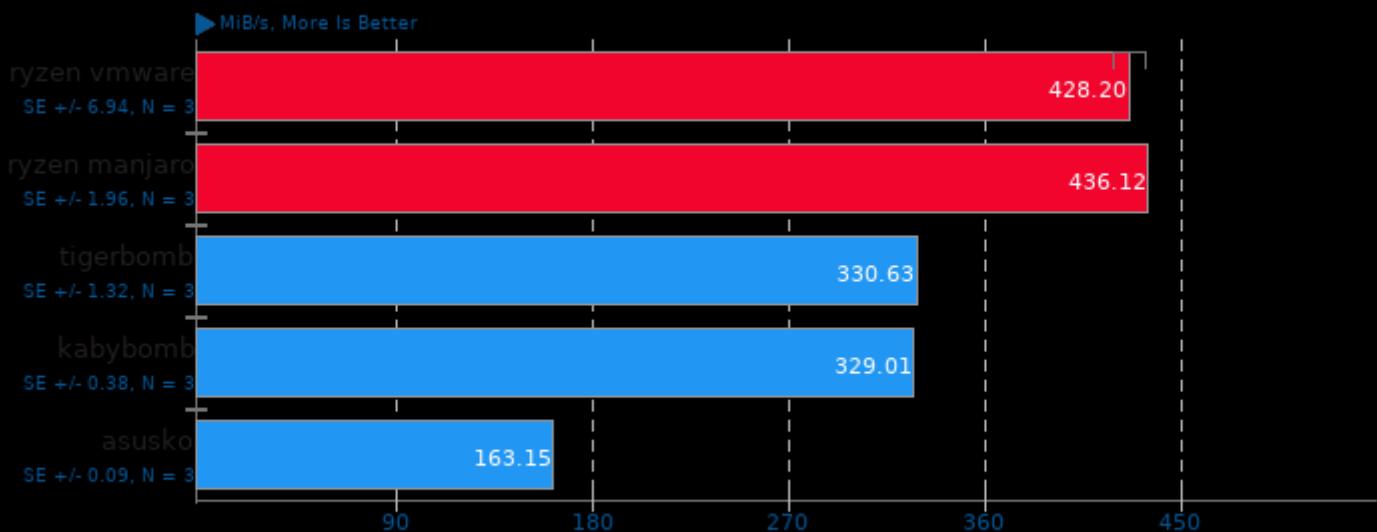
Test: Twofish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

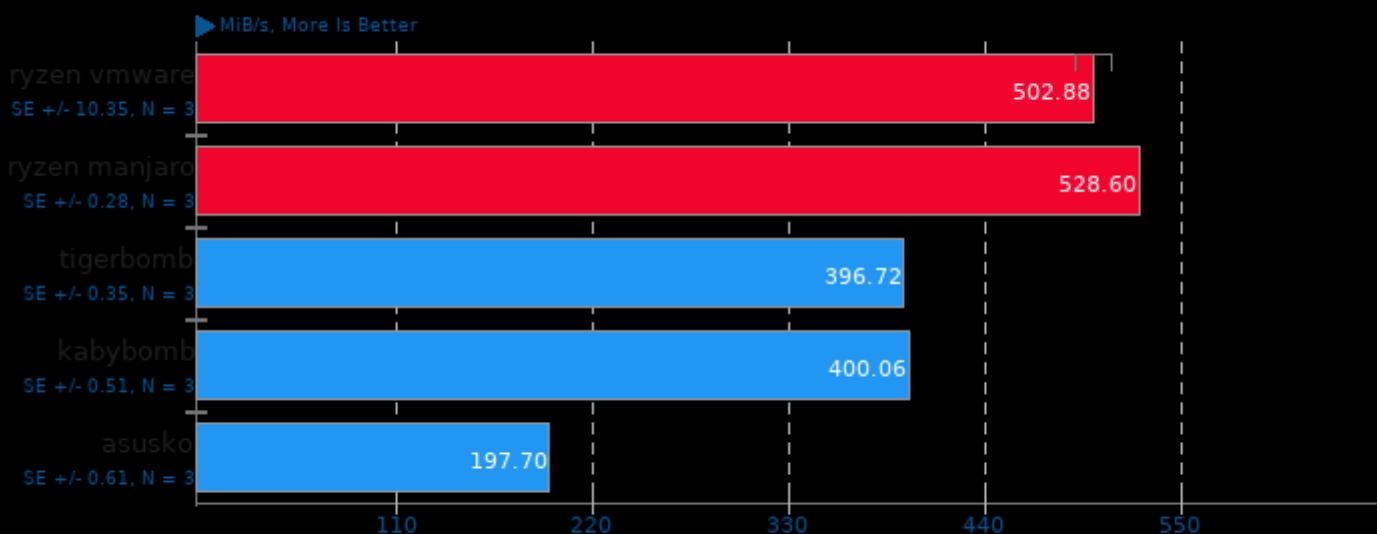
Test: Twofish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

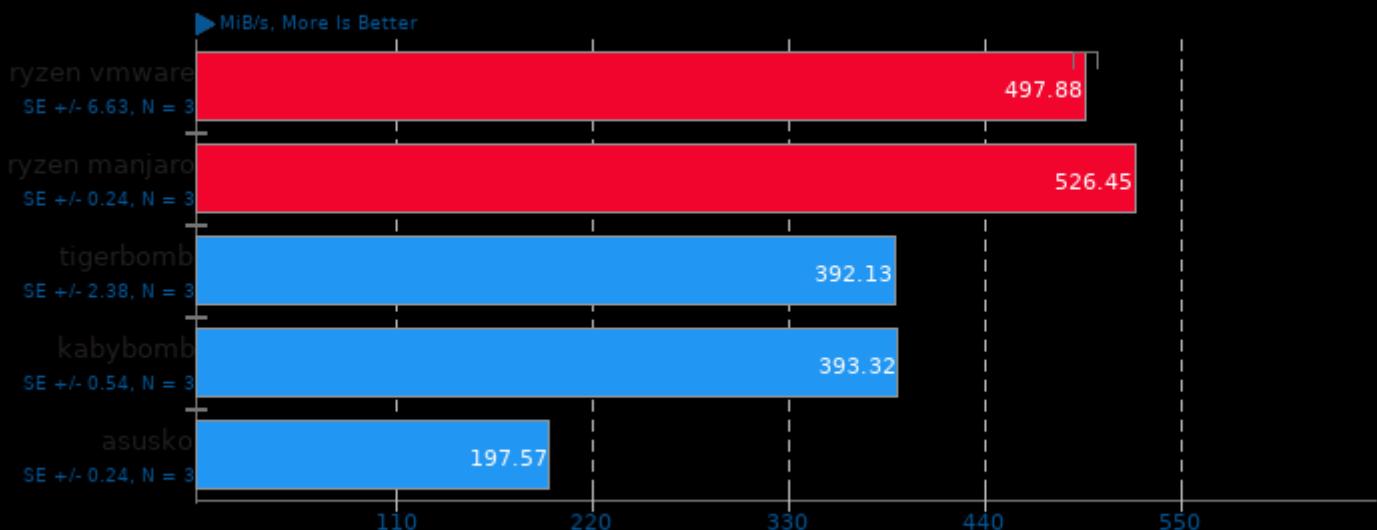
Test: Blowfish



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

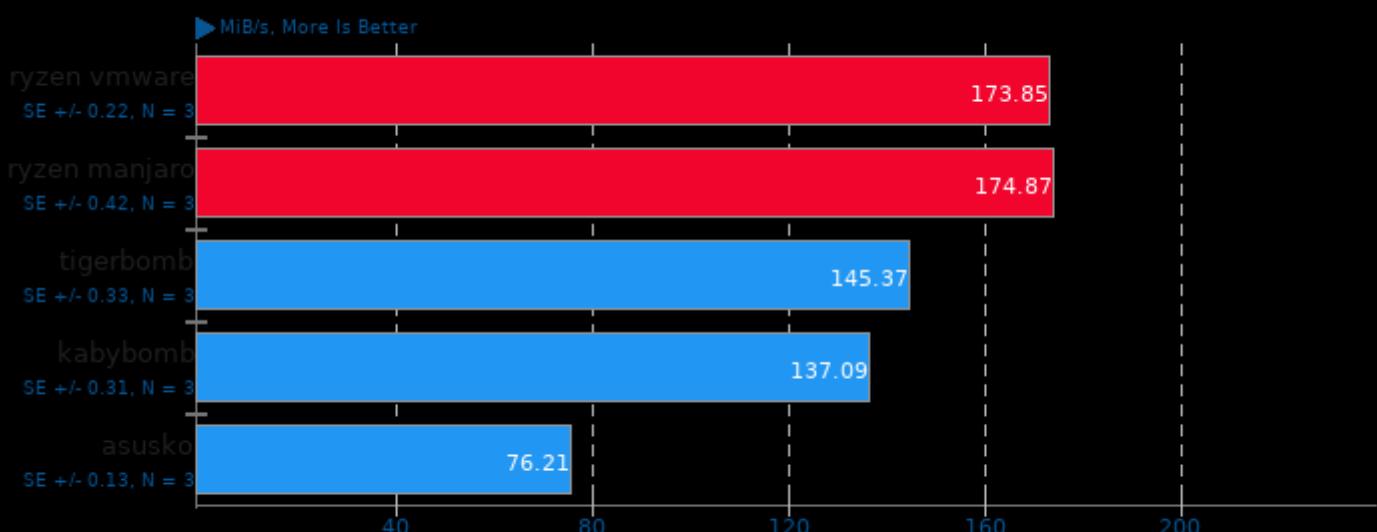
Test: Blowfish - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

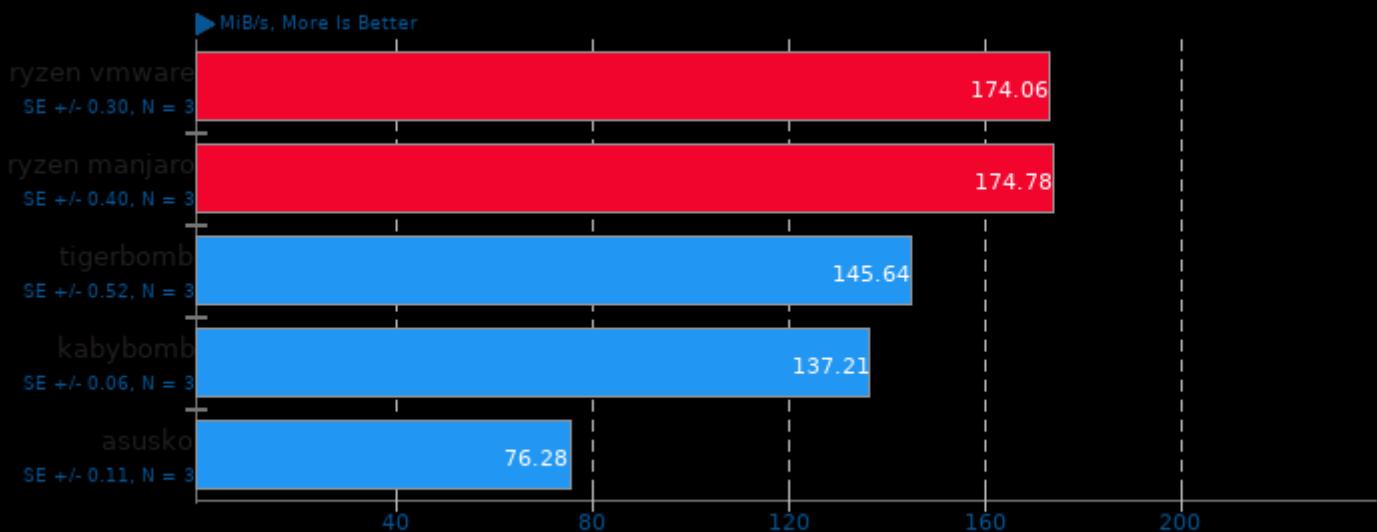
Test: CAST-256



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

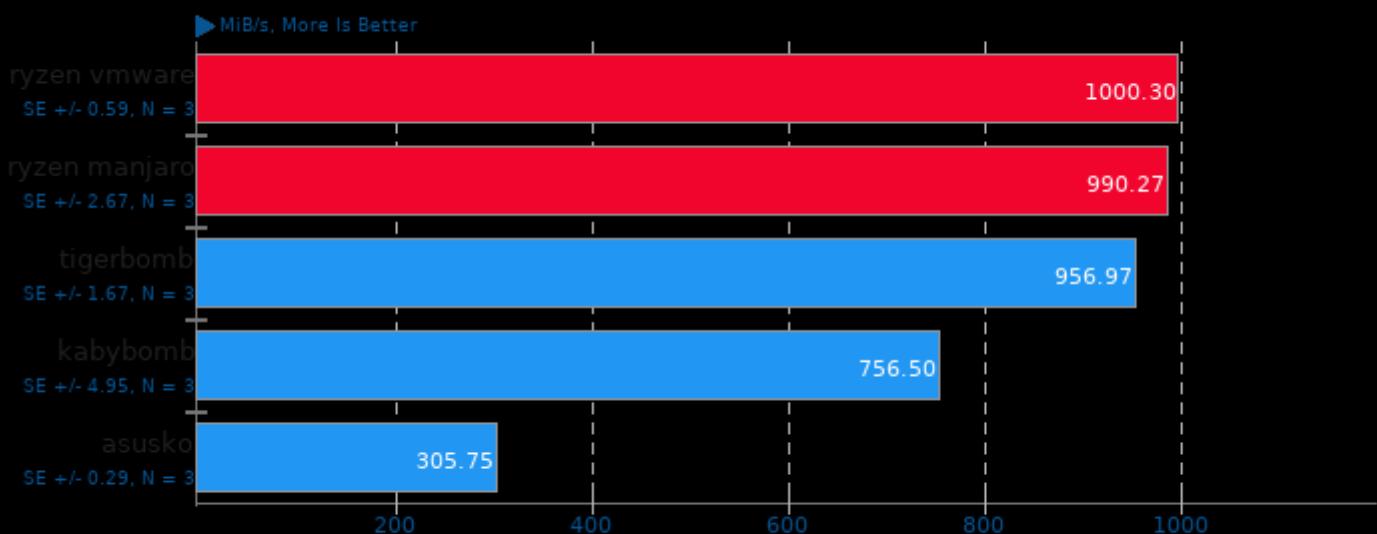
Test: CAST-256 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

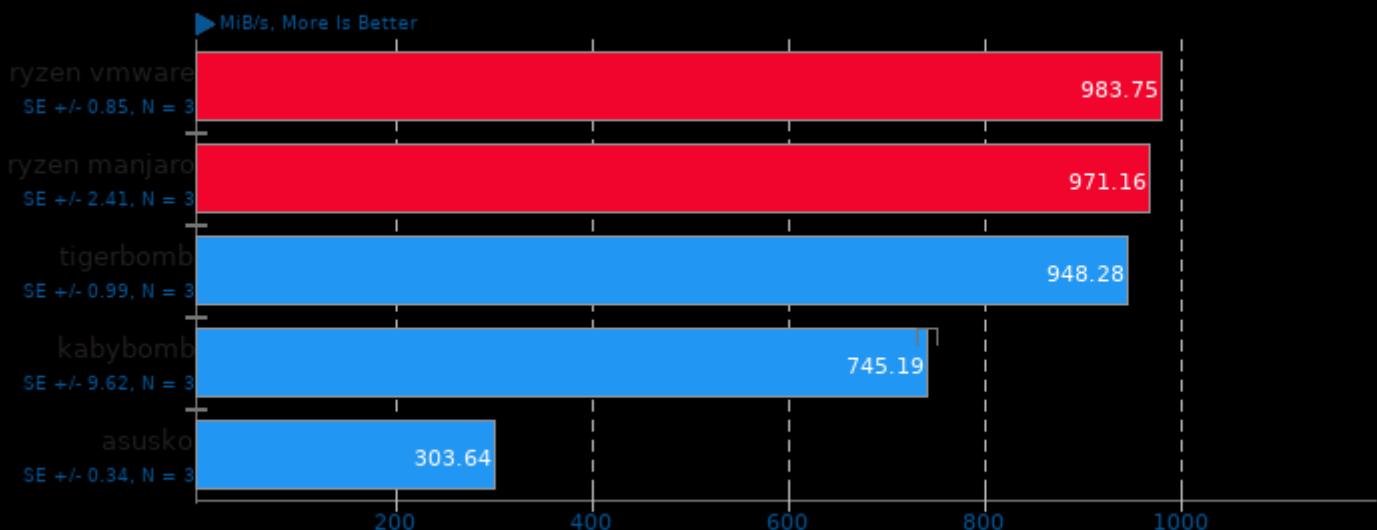
Test: ChaCha20Poly1305



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

Botan 2.17.3

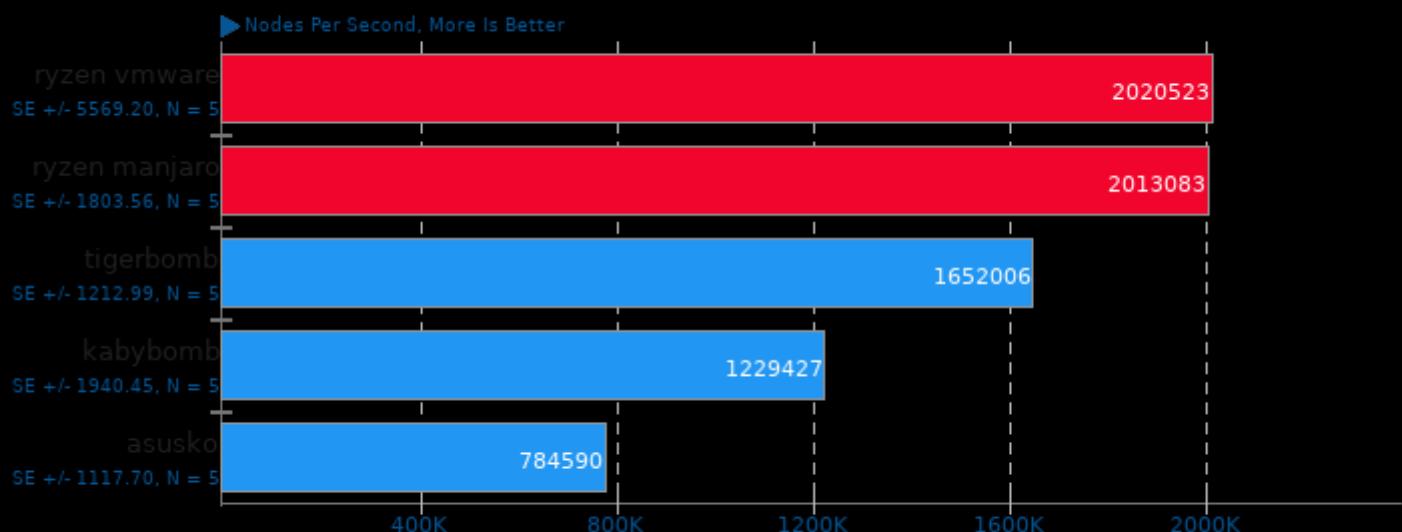
Test: ChaCha20Poly1305 - Decrypt



1. (CXX) g++ options: -fstack-protector -m64 -pthread -lbotan-2 -ldl -lrt

TSCP 1.81

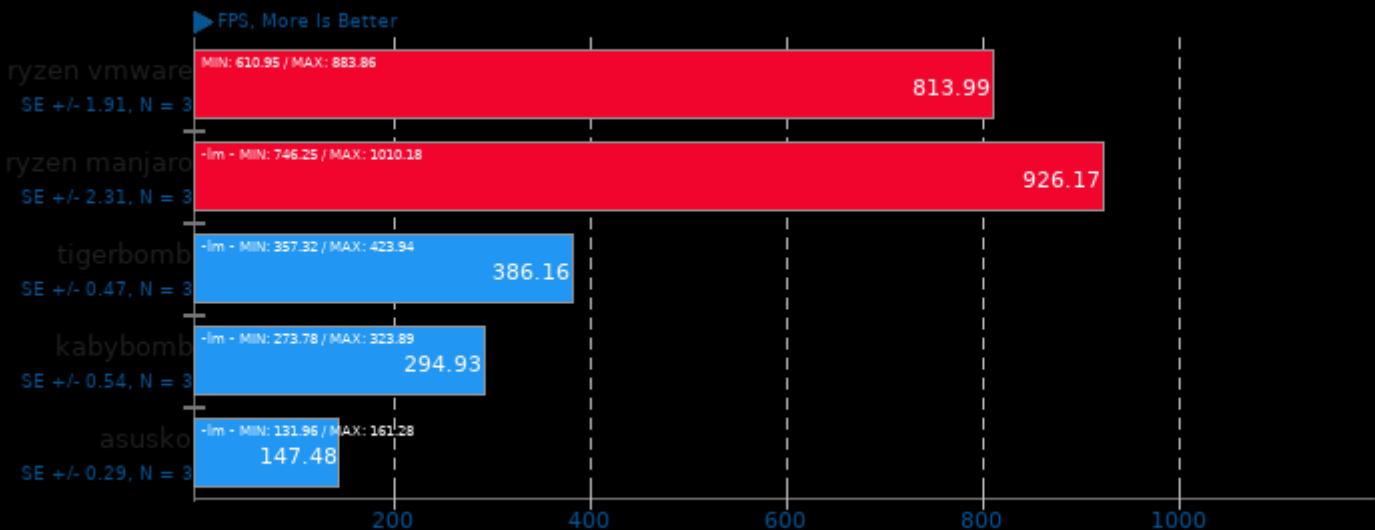
AI Chess Performance



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

dav1d 0.9.0

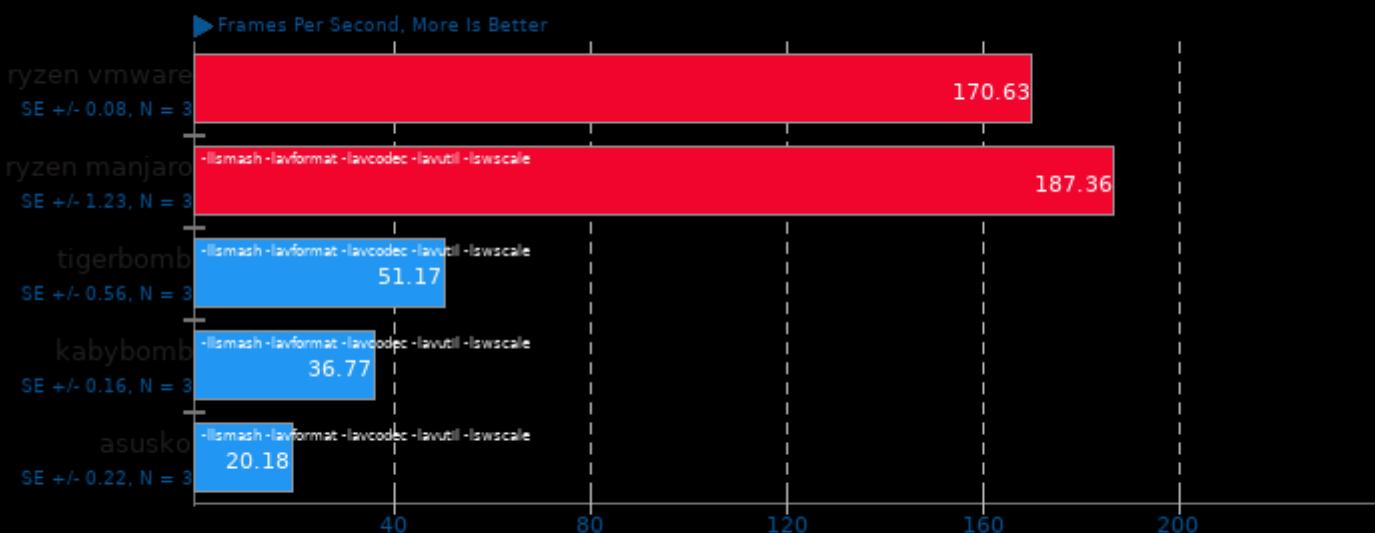
Video Input: Summer Nature 1080p



1. (CC) gcc options: -pthread

x264 2019-12-17

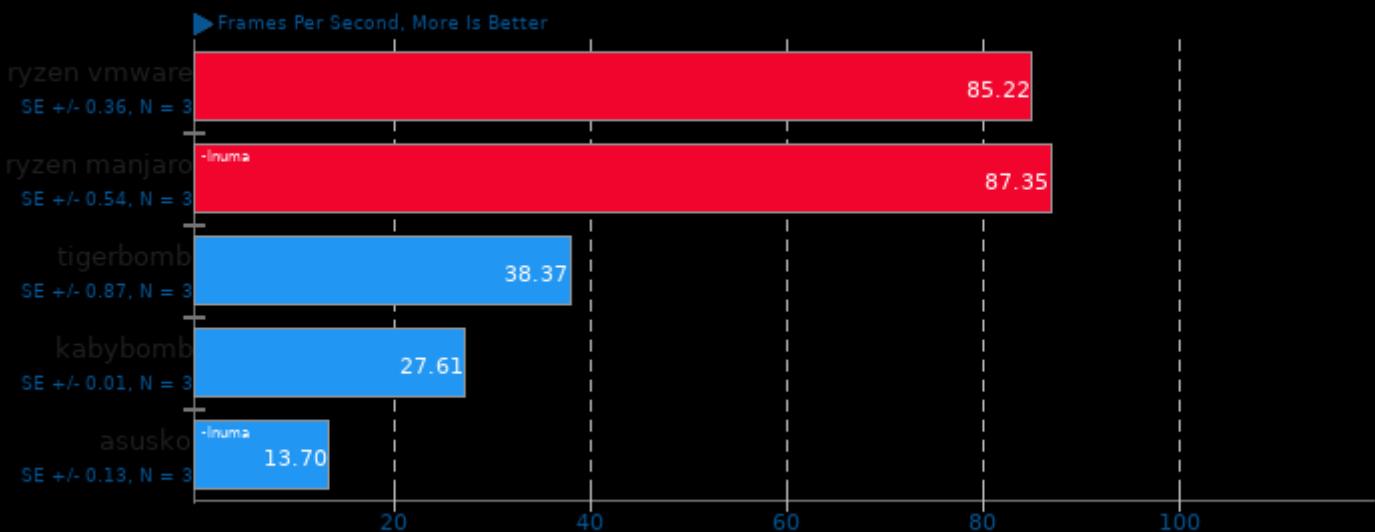
H.264 Video Encoding



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

x265 3.4

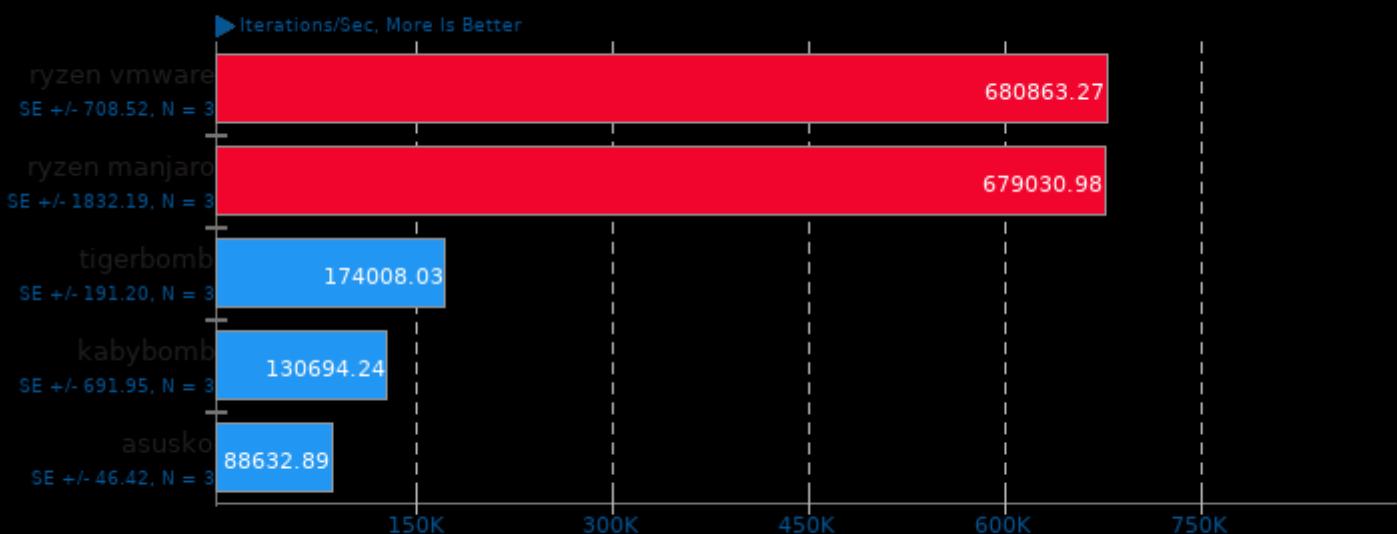
Video Input: Bosphorus 1080p



1. (CXX) g++ options: -O3 -rdynamic -lpthread -lrt -ldl

Coremark 1.0

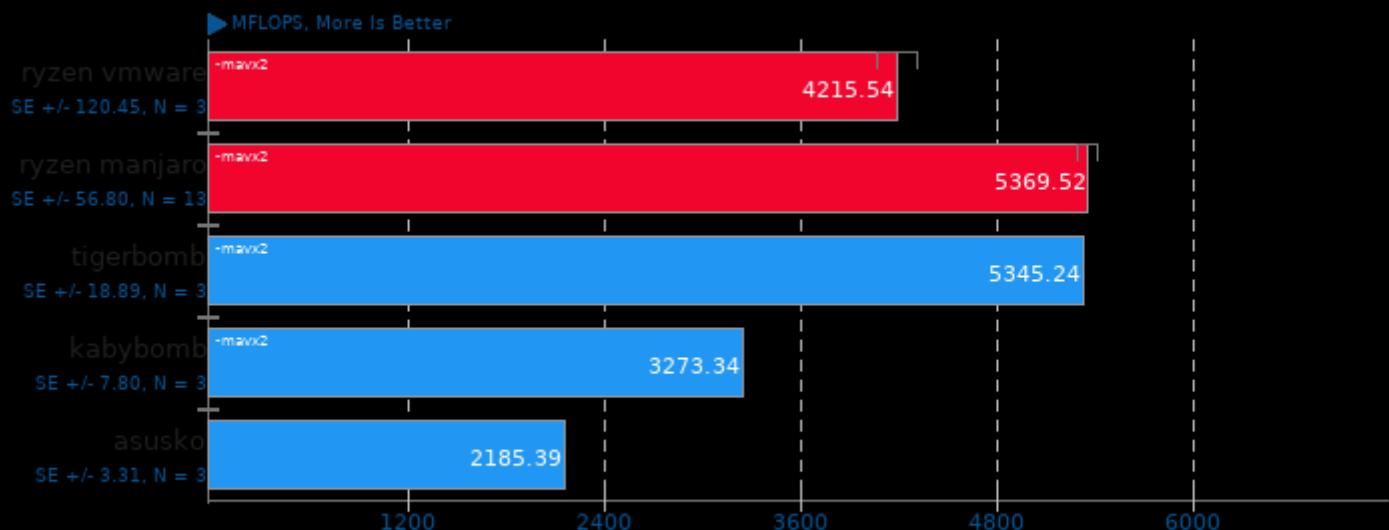
CoreMark Size 666 - Iterations Per Second



1. (CC) gcc options: -O2 -lrt* -lrt

Himeno Benchmark 3.0

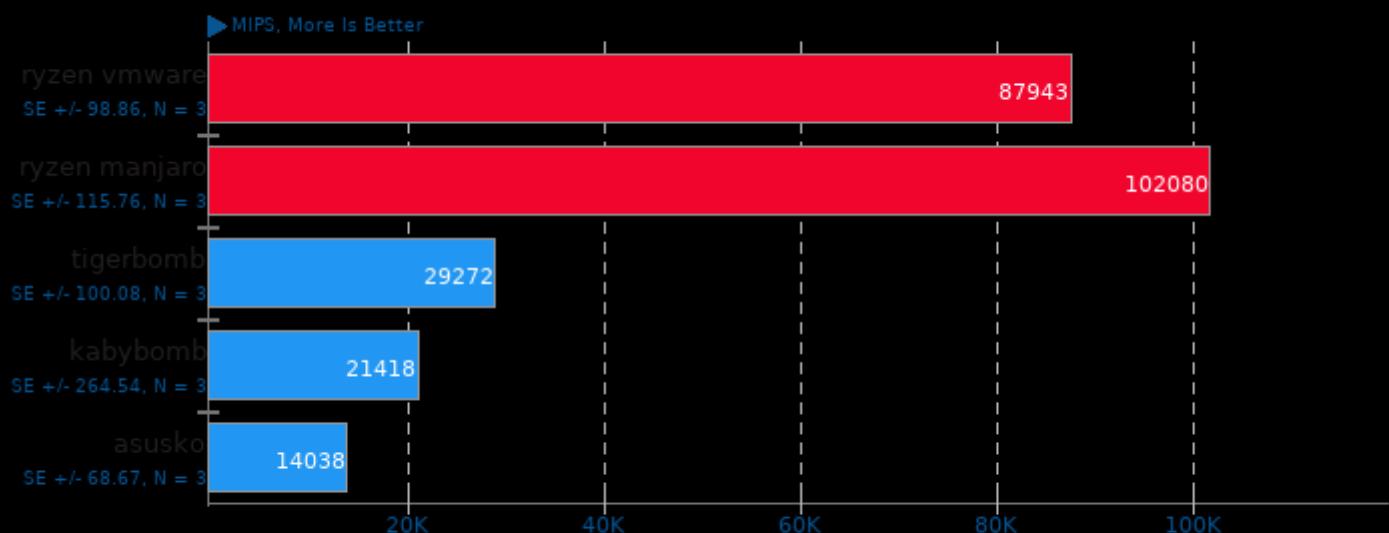
Poisson Pressure Solver



1. (CC) gcc options: -O3

7-Zip Compression 16.02

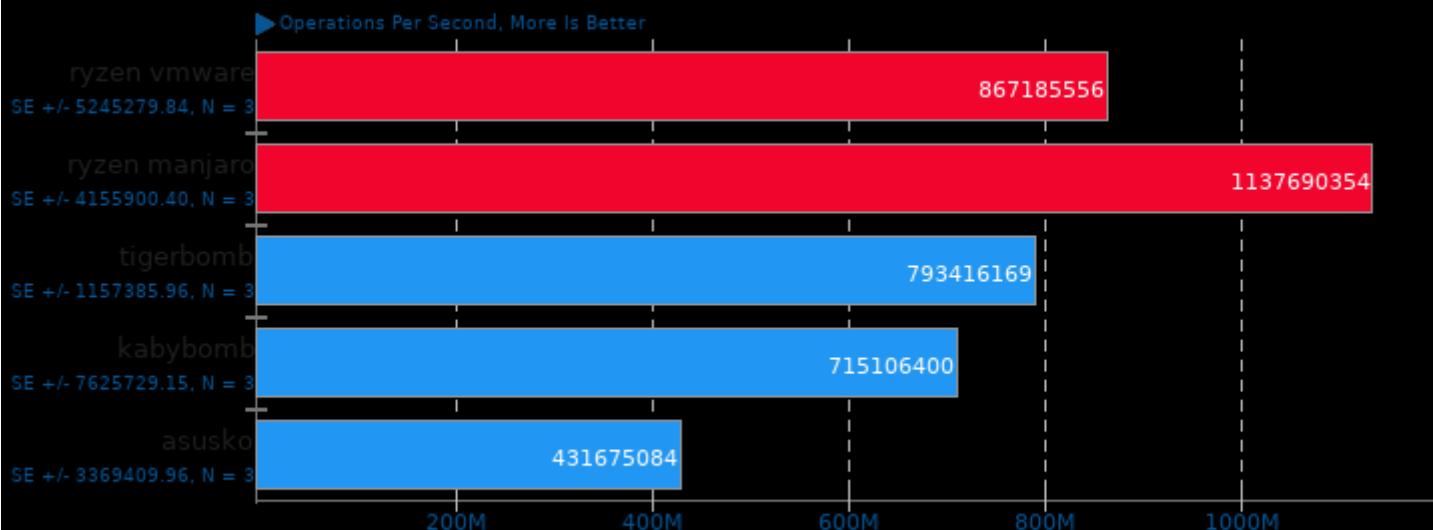
Compress Speed Test



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

Swet 1.5.16

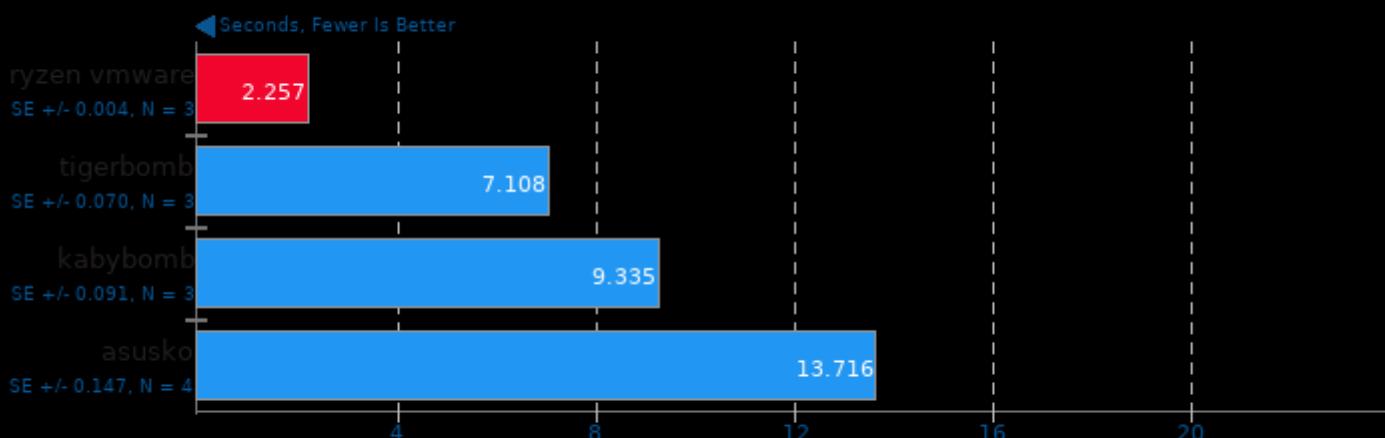
Average



1. (CC) gcc options: -lm -pthread -lcurses -lrt

Parallel BZIP2 Compression 1.1.12

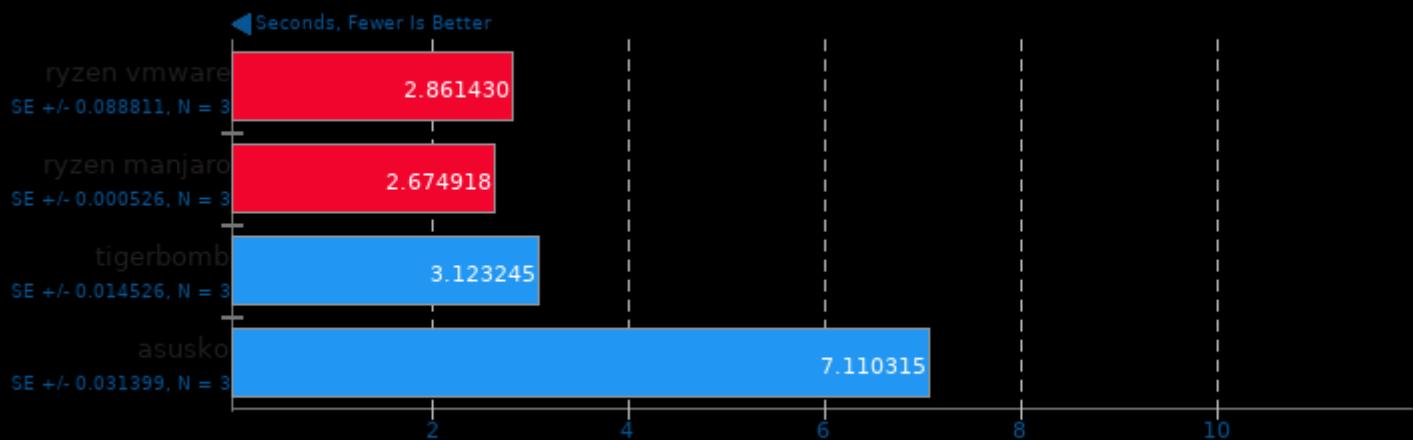
256MB File Compression



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

Bullet Physics Engine 2.81

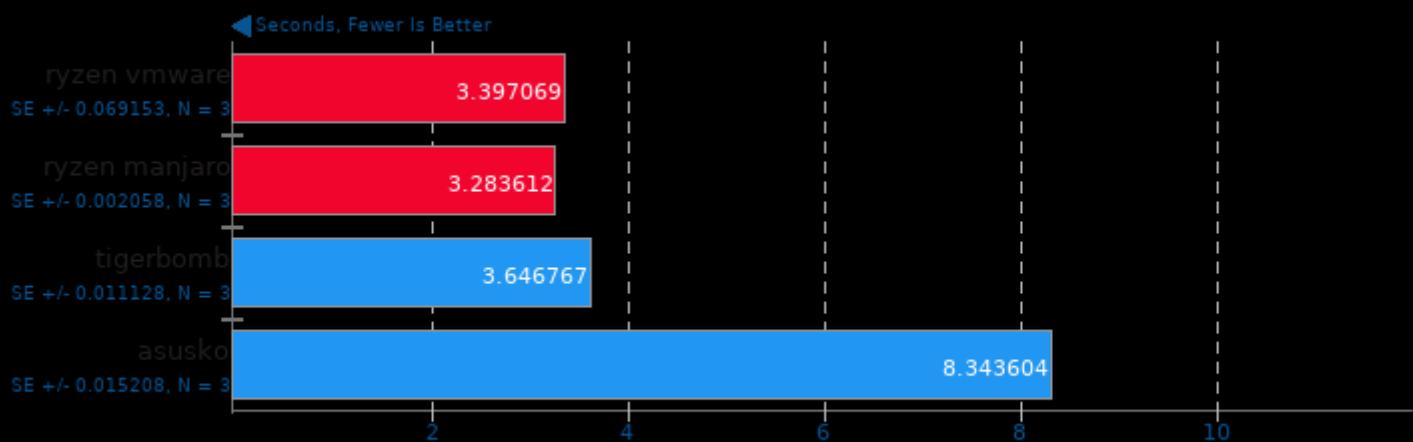
Test: 3000 Fall



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

Bullet Physics Engine 2.81

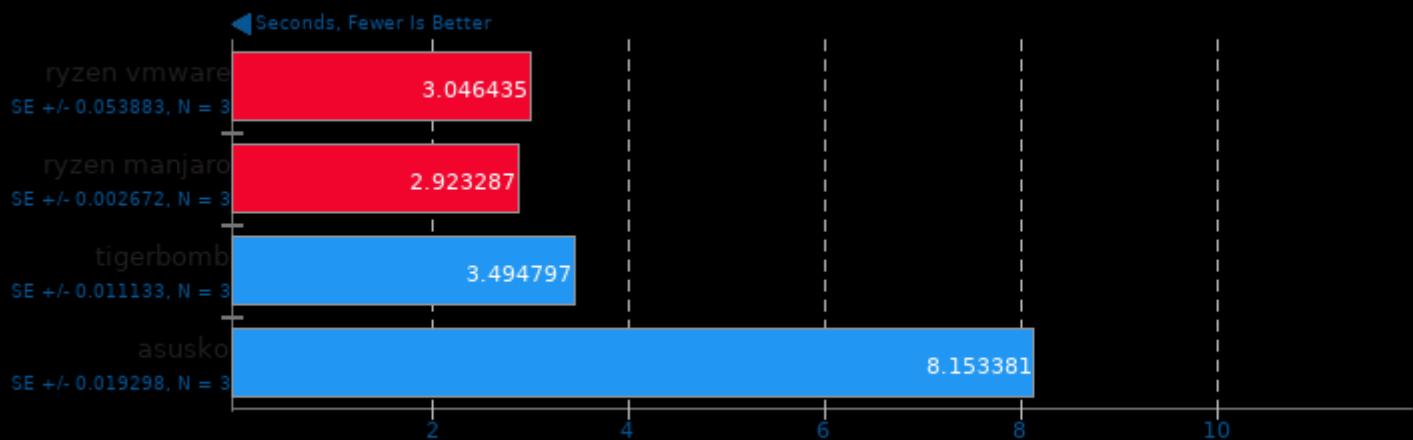
Test: 1000 Stack



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

Bullet Physics Engine 2.81

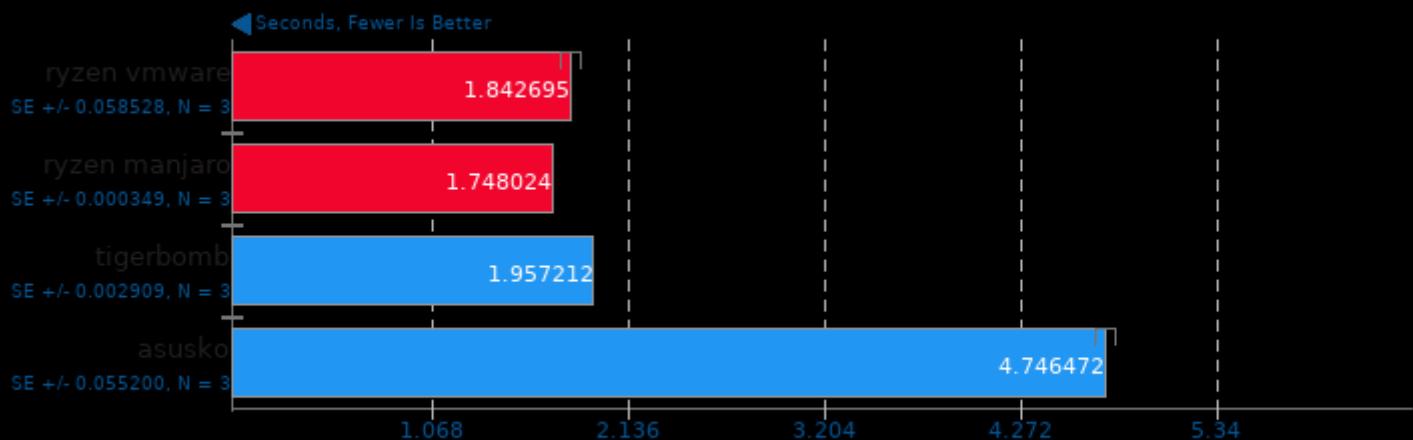
Test: 1000 Convex



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

Bullet Physics Engine 2.81

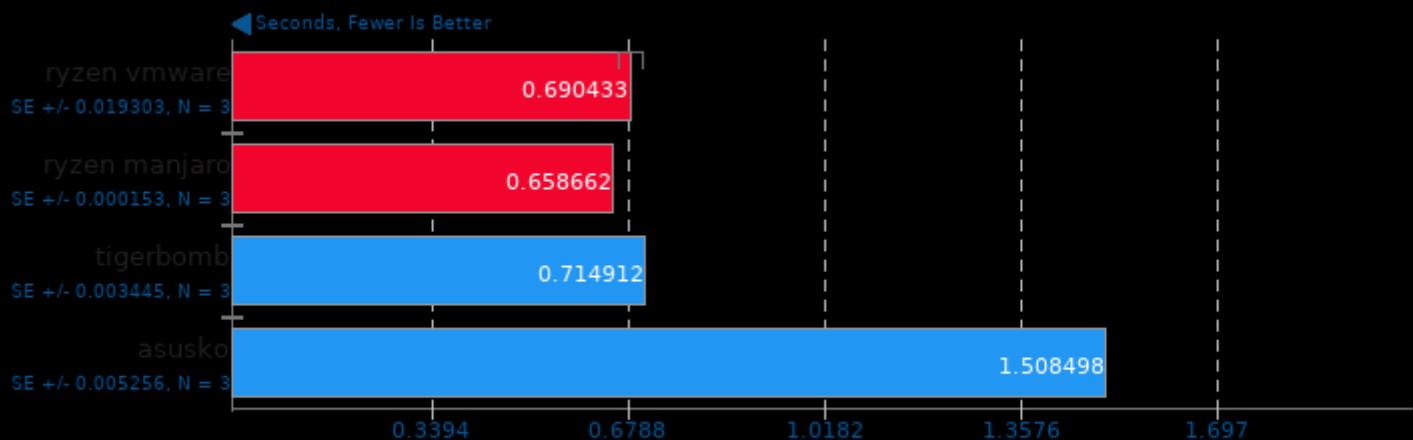
Test: 136 Ragdolls



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

Bullet Physics Engine 2.81

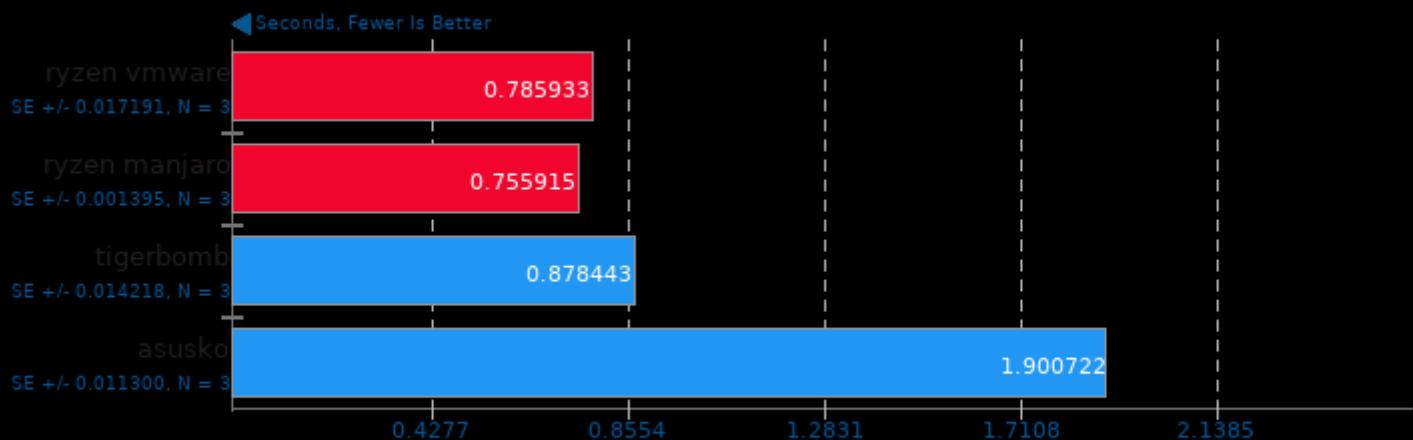
Test: Prim Trimesh



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

Bullet Physics Engine 2.81

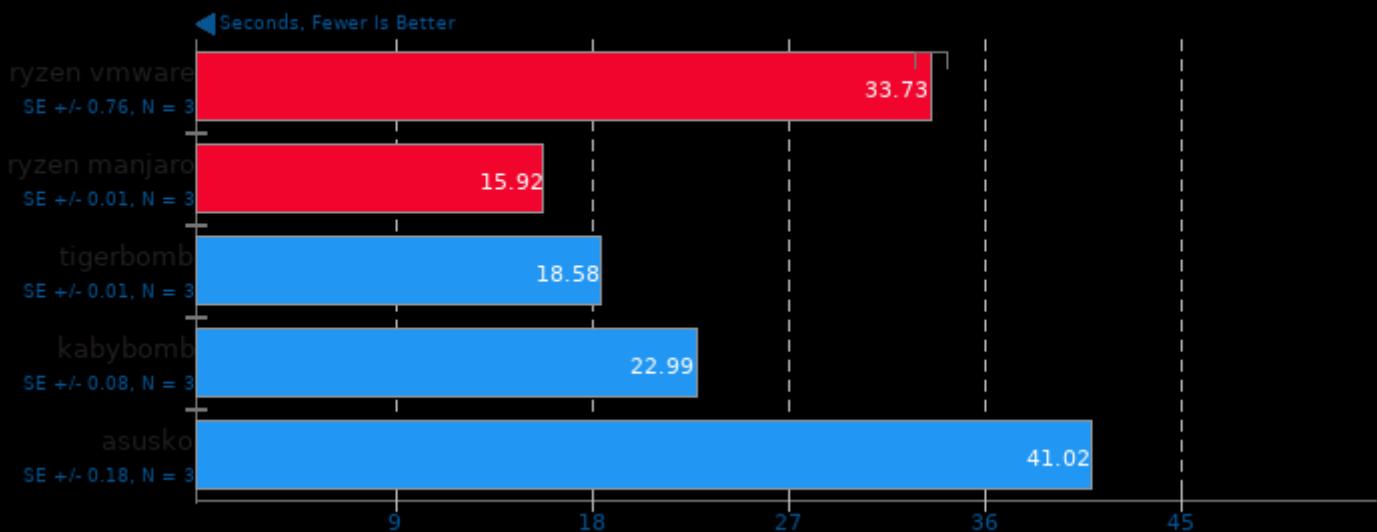
Test: Convex Trimesh



1. (CXX) g++ options: -O3 -rdynamic -lglut -IGL -IGLU

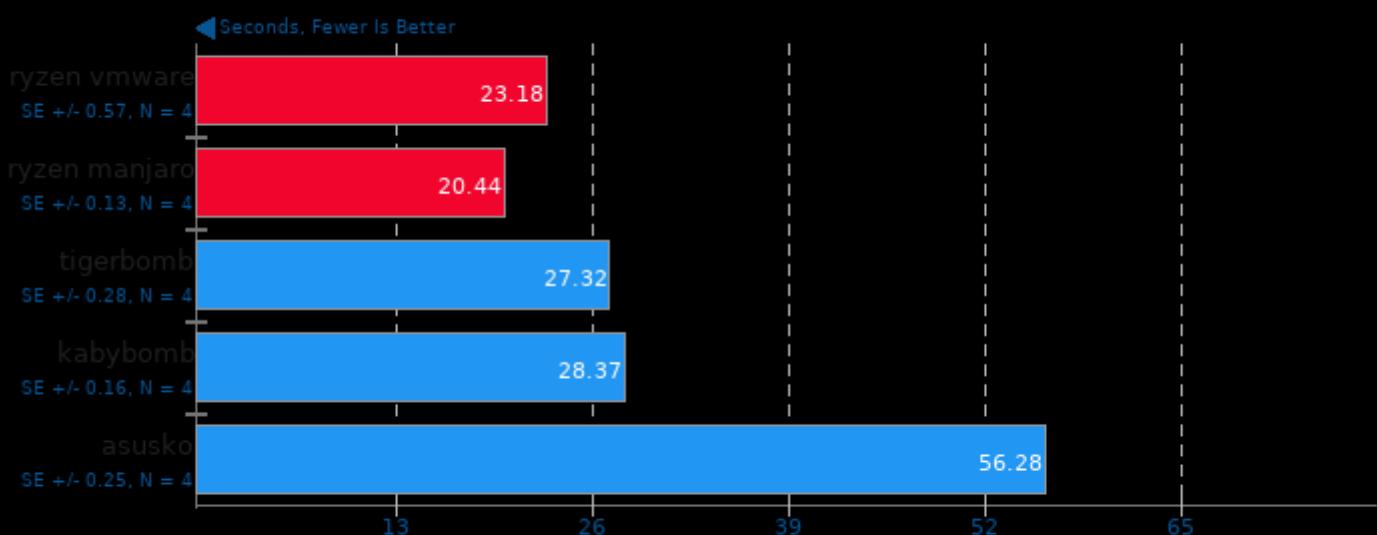
Cython Benchmark 0.29.21

Test: N-Queens



eSpeak-NG Speech Engine 20200907

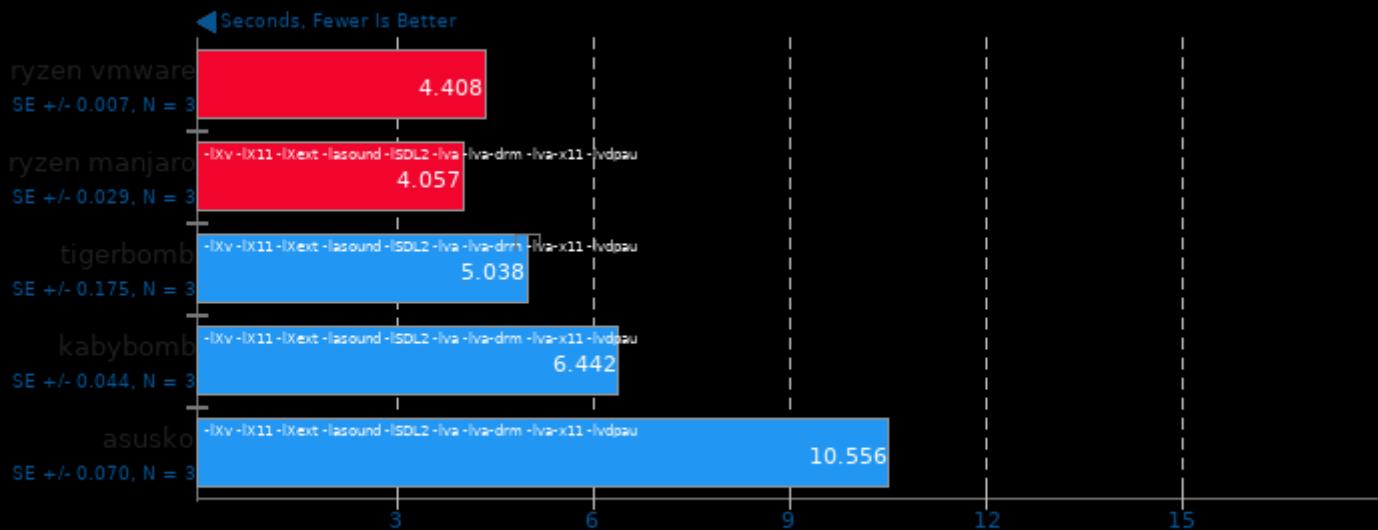
Text-To-Speech Synthesis



1. (CC) gcc options: -O2 -std=c99 -lpthread -lm

FFmpeg 4.0.2

H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -lm -lxcb -xcb-shm -xcb-shape -xcb-xfixes -pthread -lbz2 -lz

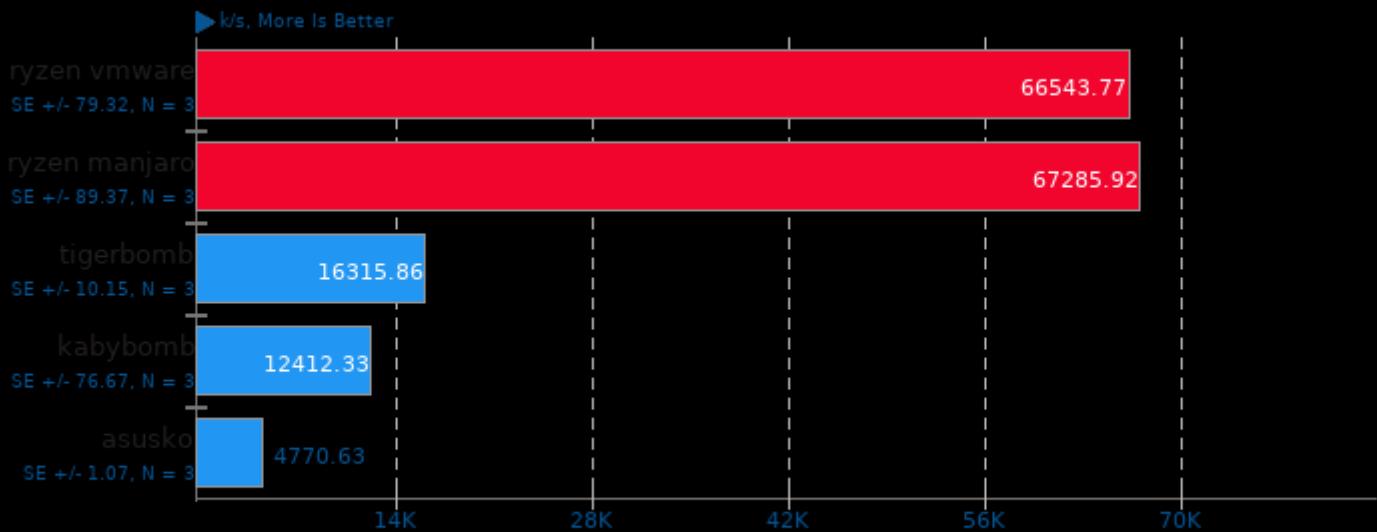
Mencoder 1.3.0

AVI To LAVC



1. (CC) gcc options: -ffast-math -fpie -pie -lncurse -lrt -lgnutls -lpng -lz -jpeg -lbz2 -lzo2 -pthread -ldl -rdynamic -lm

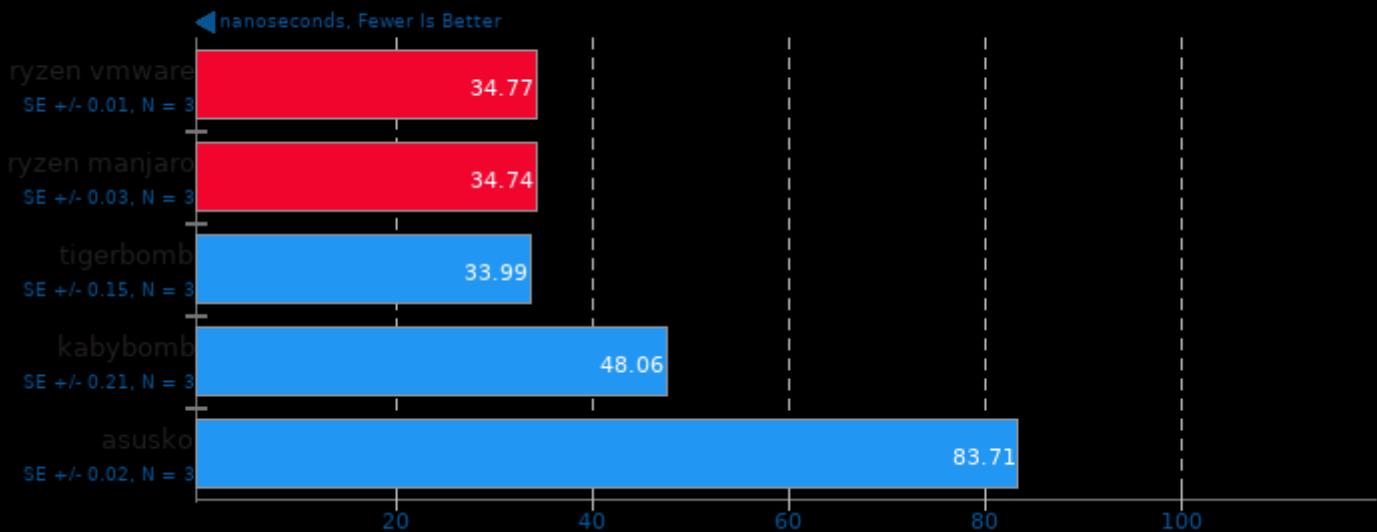
Aircrack-ng 1.5.2



1. (CXX) g++ options: -O3 -fvisibility=hidden -fasm=intel -fcommon -rdynamic -lsqLite3 -lpthread -lz -lcrypto -lhwloc -ldl -lm -pthread

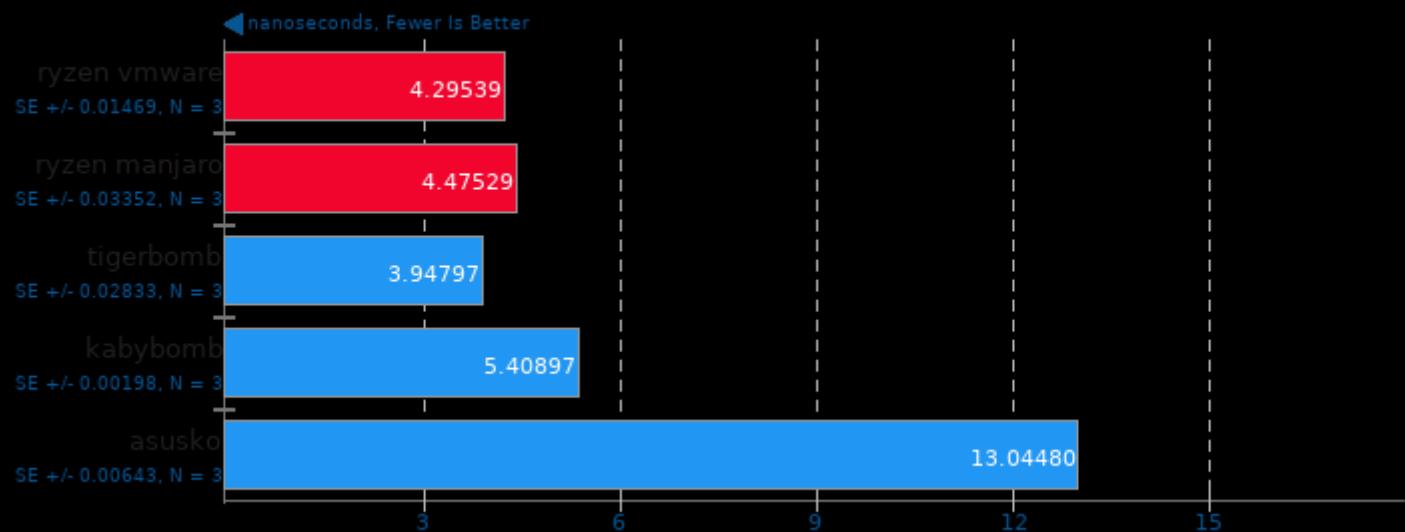
glibc bench 1.0

Benchmark: cos

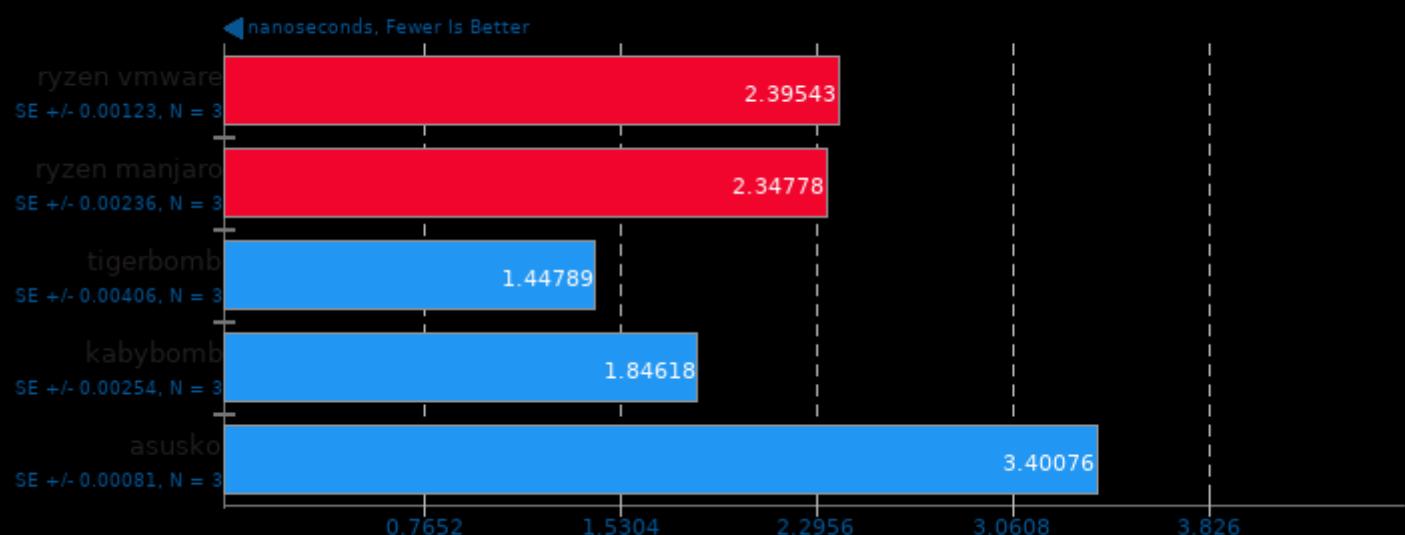


glibc bench 1.0

Benchmark: exp

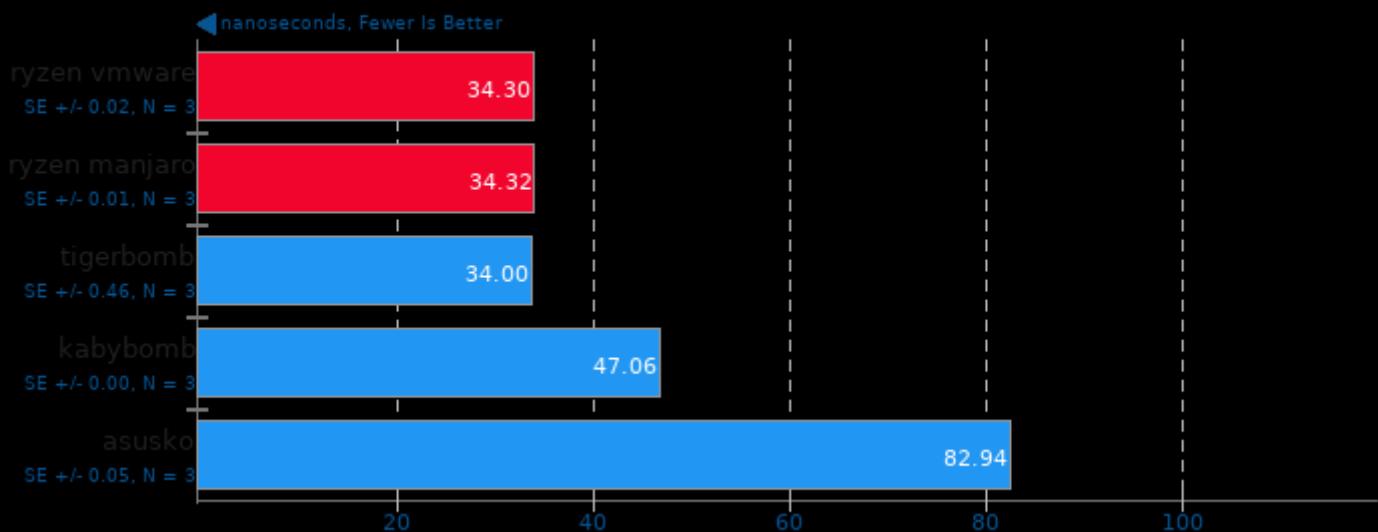
**glibc bench 1.0**

Benchmark: ffs

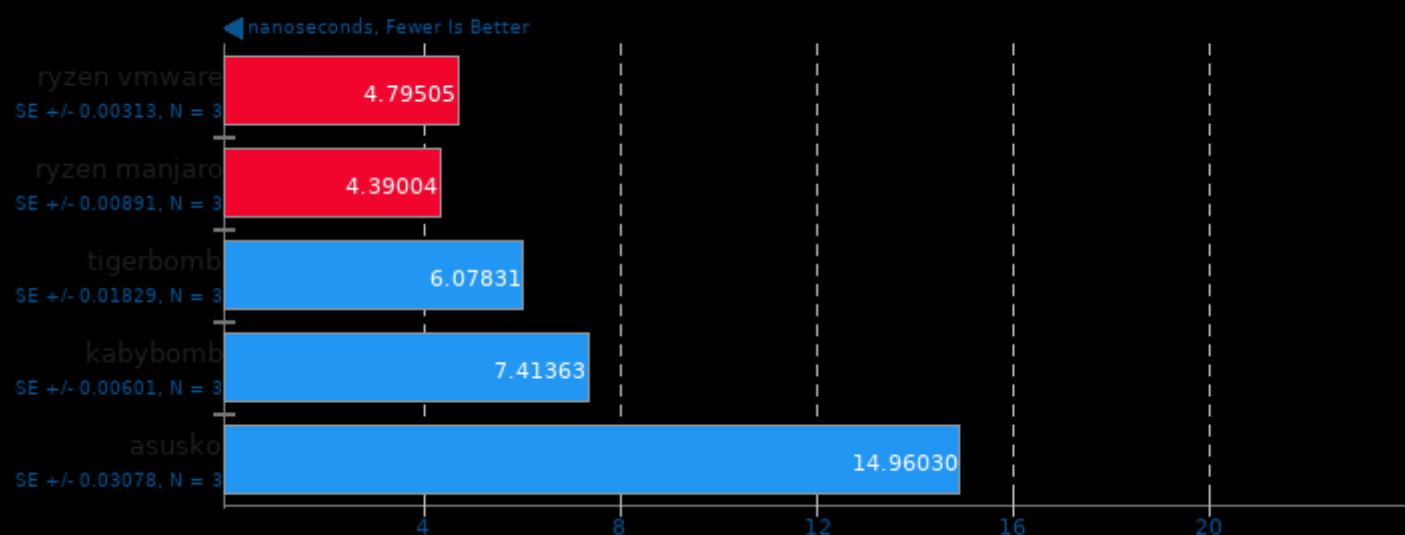


glibc bench 1.0

Benchmark: sin

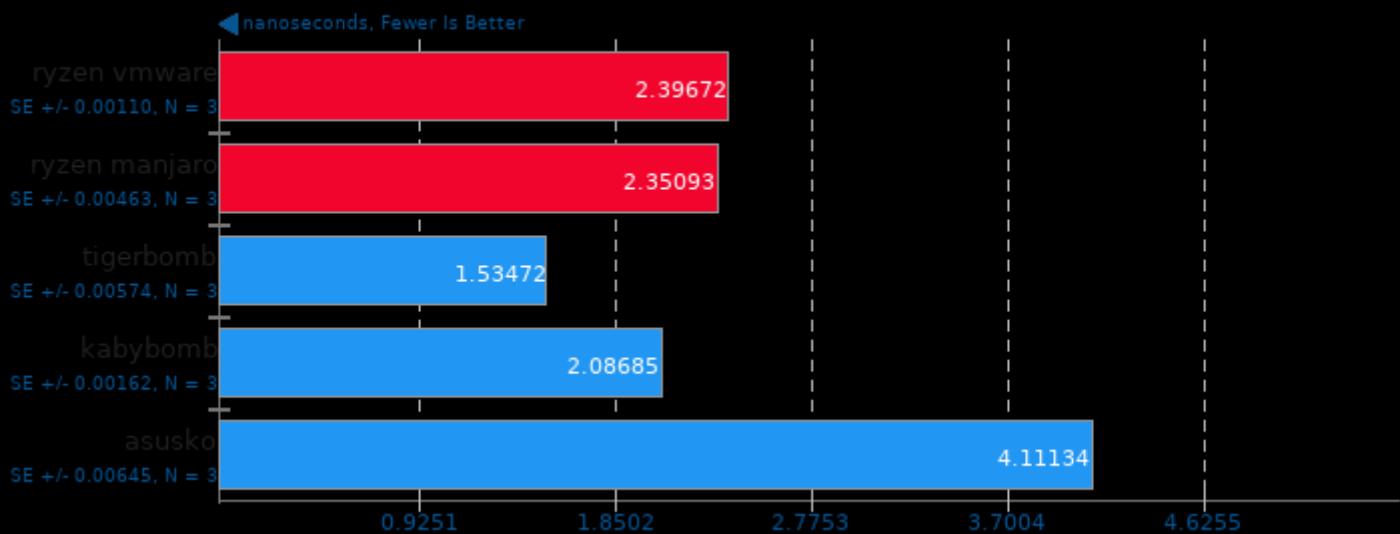
**glibc bench 1.0**

Benchmark: log2

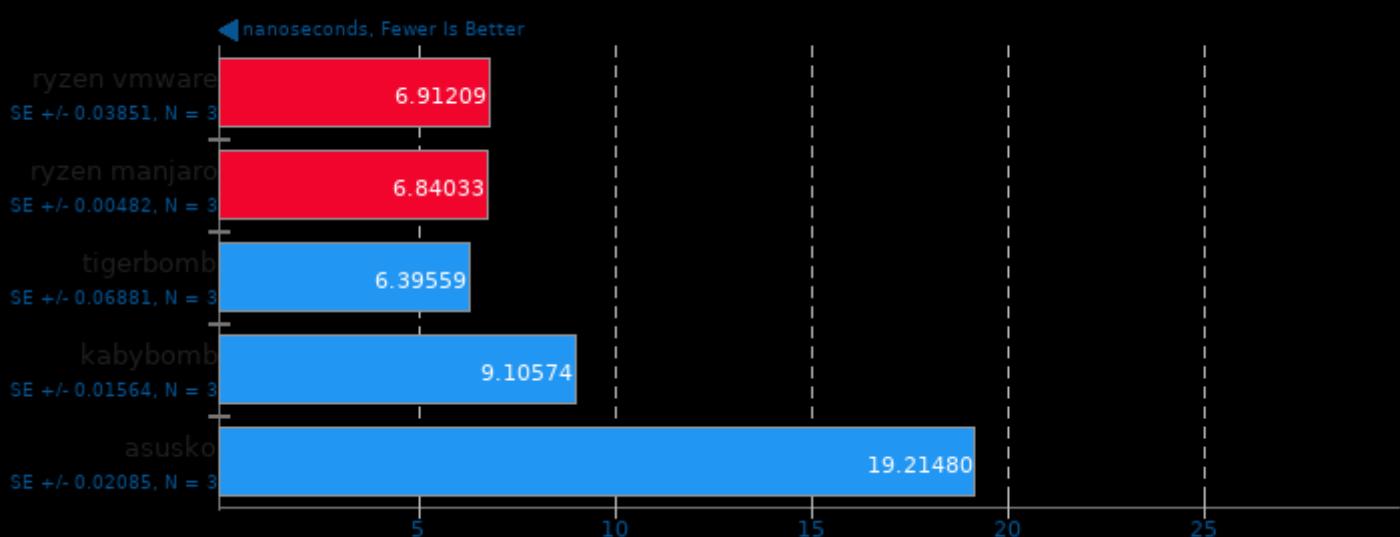


glibc bench 1.0

Benchmark: modf

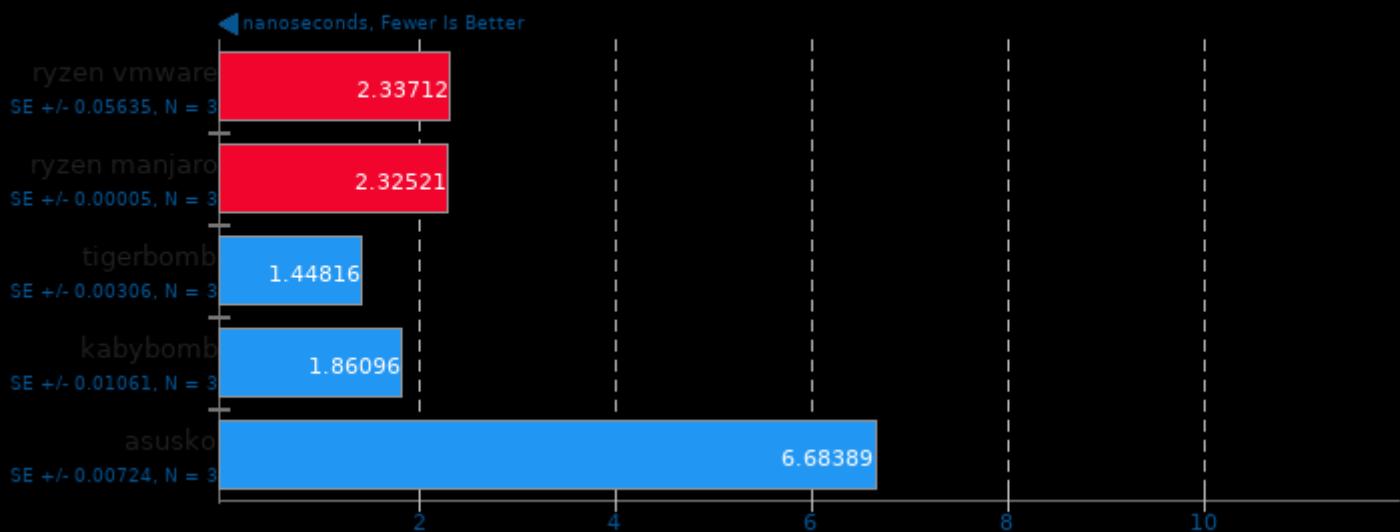
**glibc bench 1.0**

Benchmark: sinh

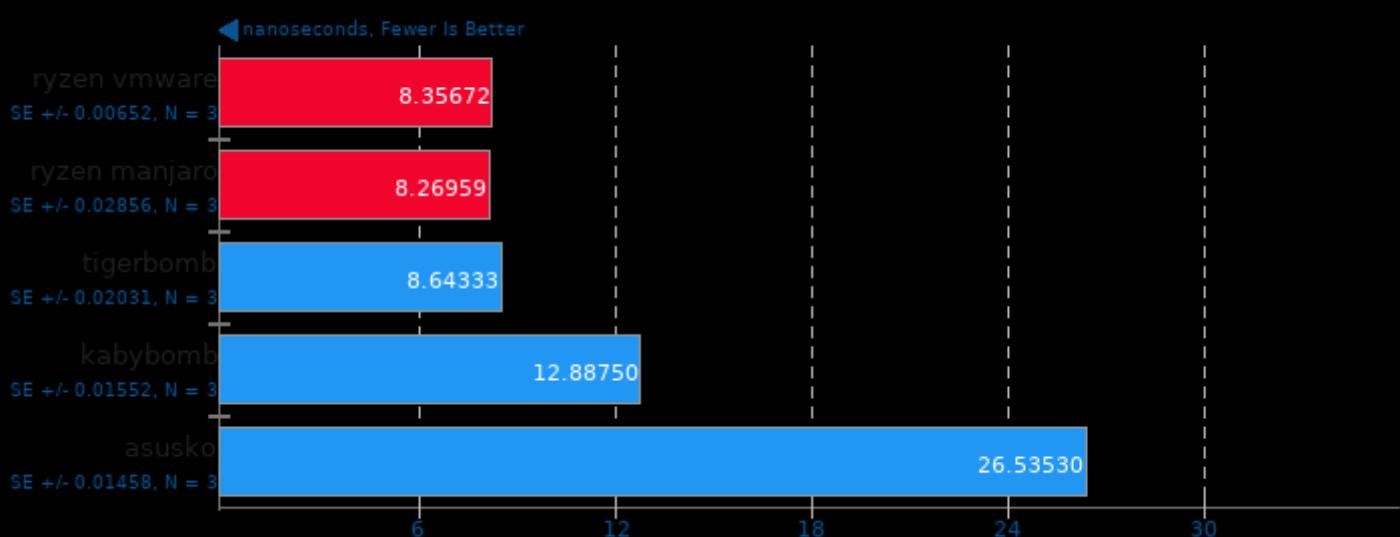


glibc bench 1.0

Benchmark: sqrt

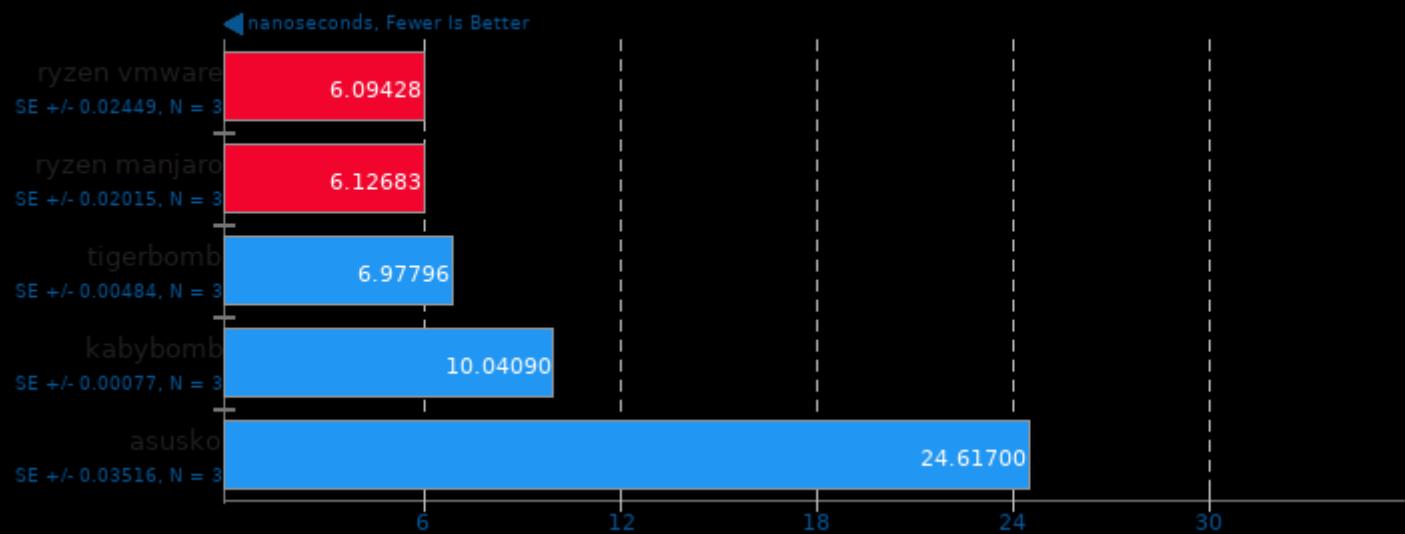
**glibc bench 1.0**

Benchmark: tanh

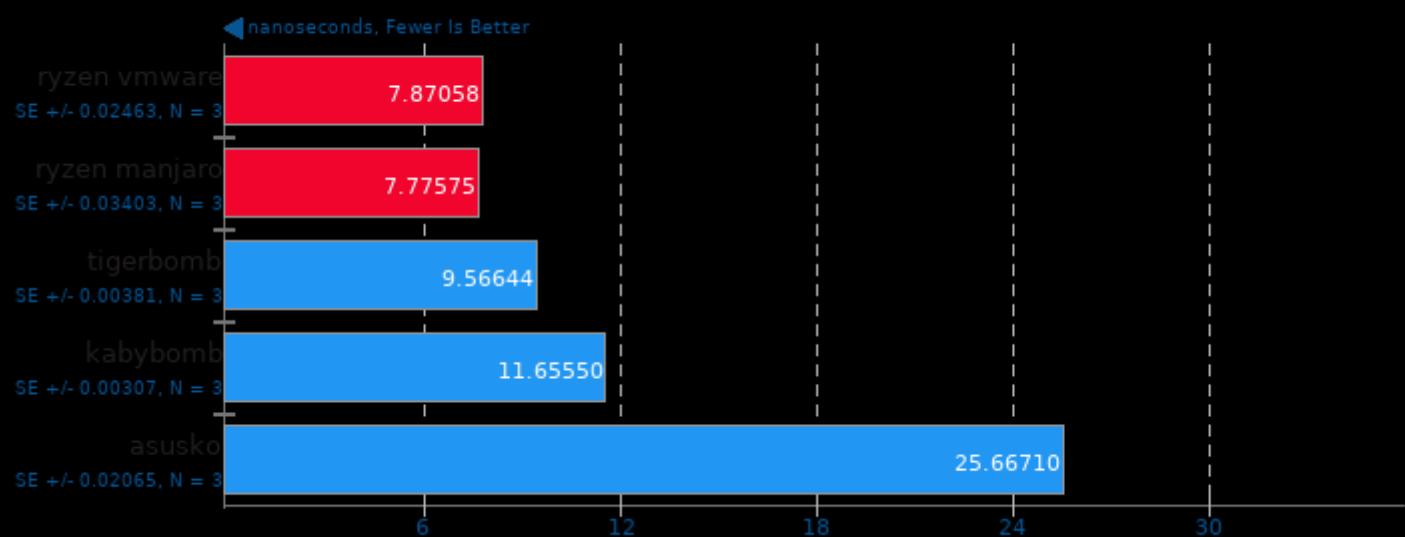


glibc bench 1.0

Benchmark: asinh

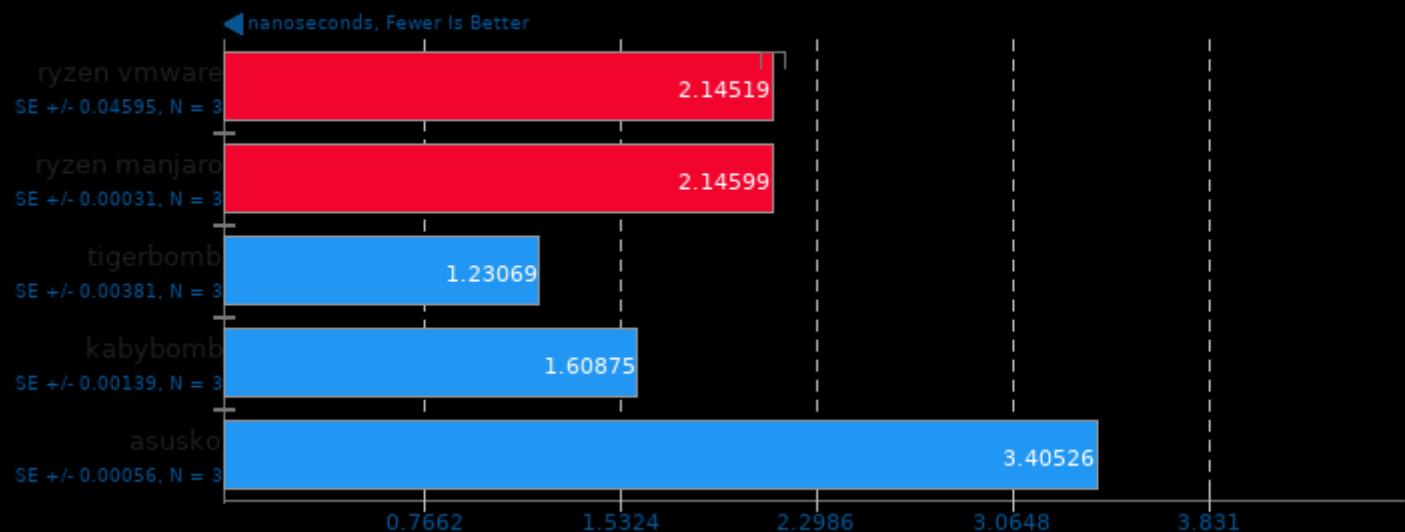
**glibc bench 1.0**

Benchmark: atanh

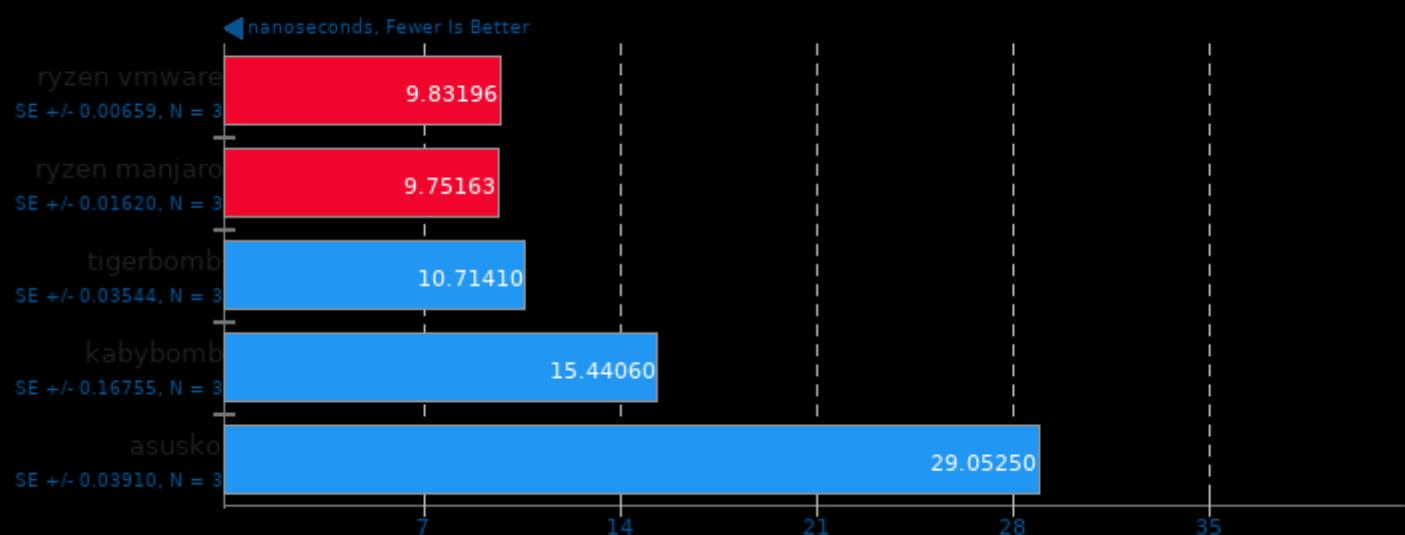


glibc bench 1.0

Benchmark: ffsll

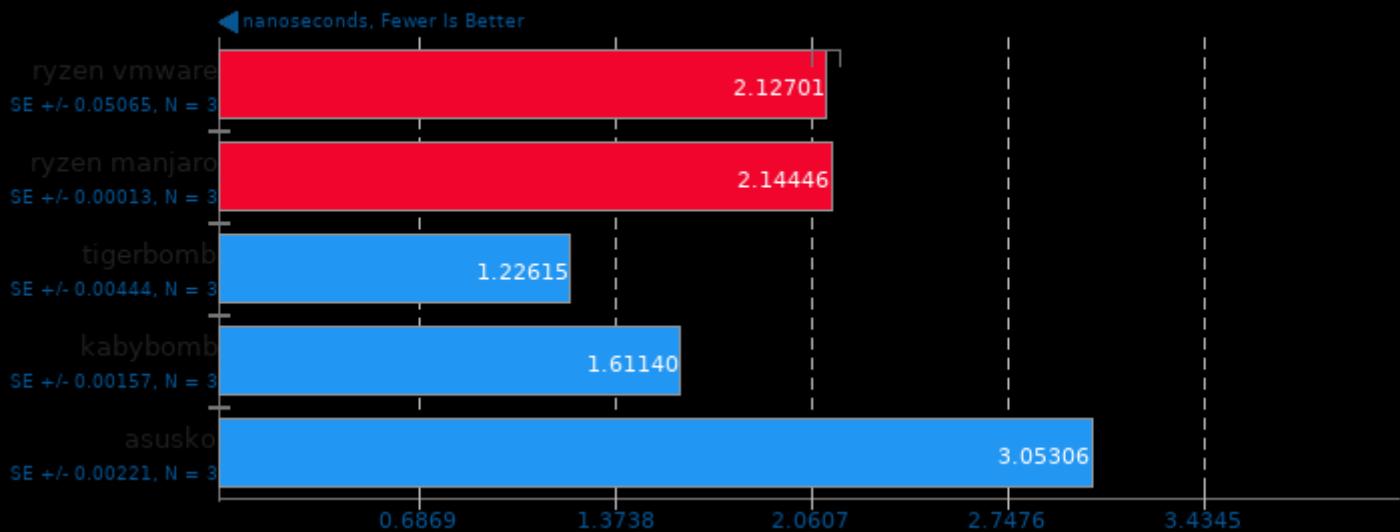
**glibc bench 1.0**

Benchmark: sincos

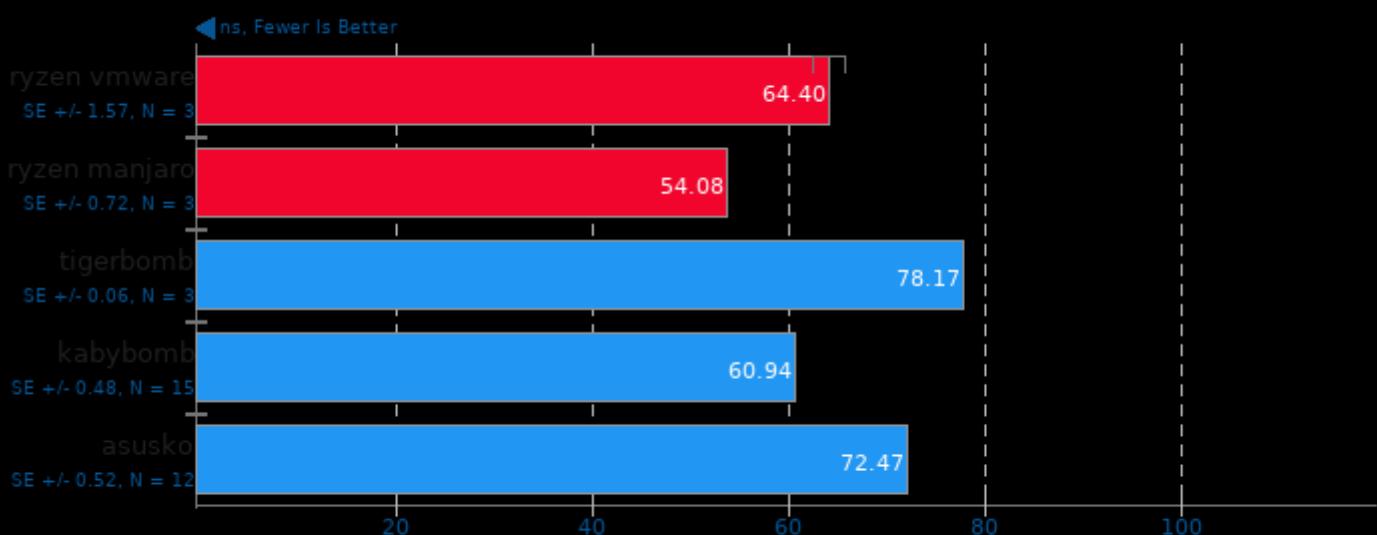


glibc bench 1.0

Benchmark: pthread_once

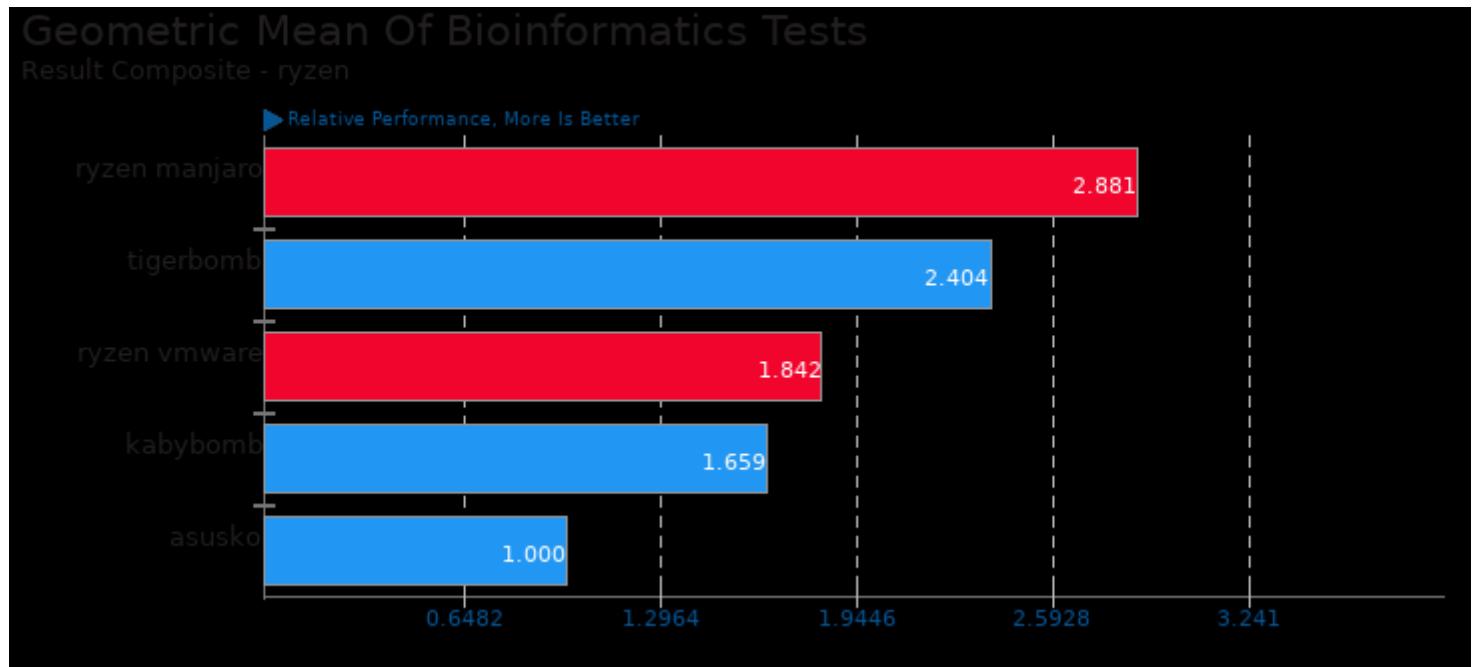
**Multichase Pointer Chaser**

Test: 256MB Array, 256 Byte Stride

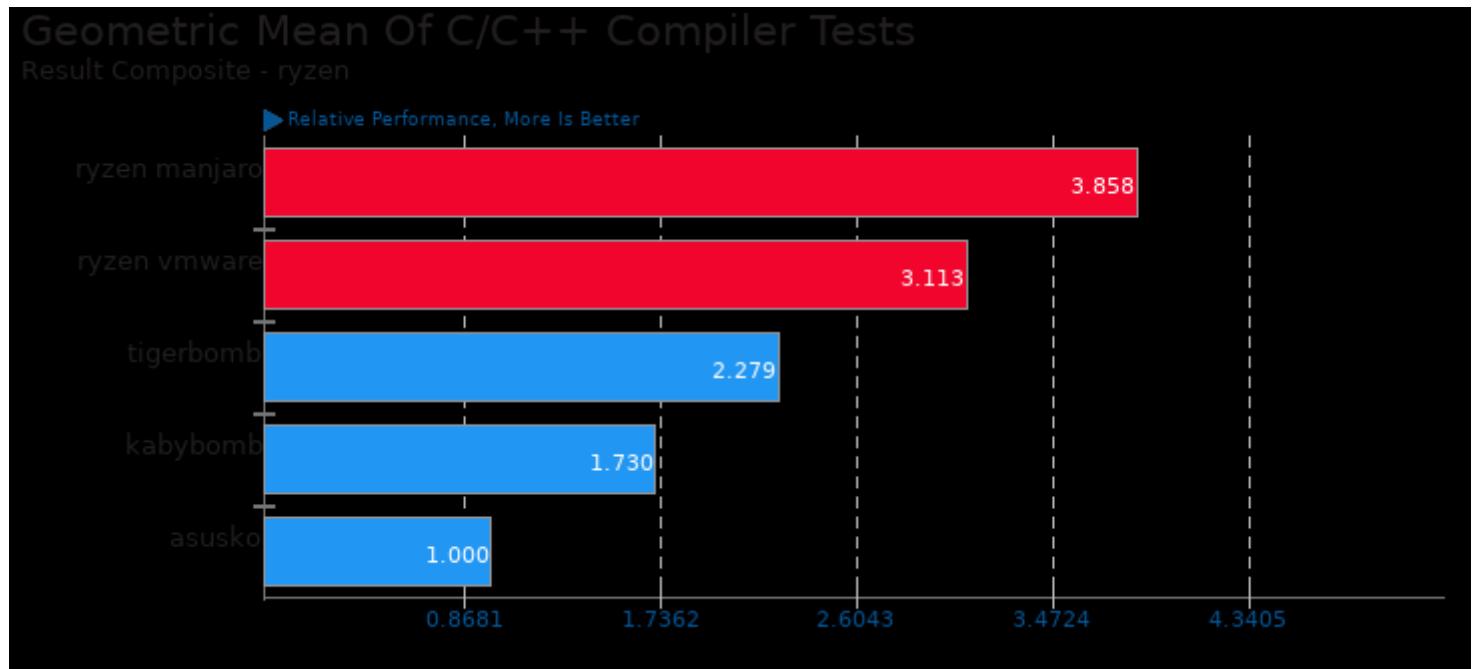


1. (CC) gcc options: -O2 -static -pthread -fomit-frame-pointer

These geometric means are based upon test groupings / test suites for this result file.



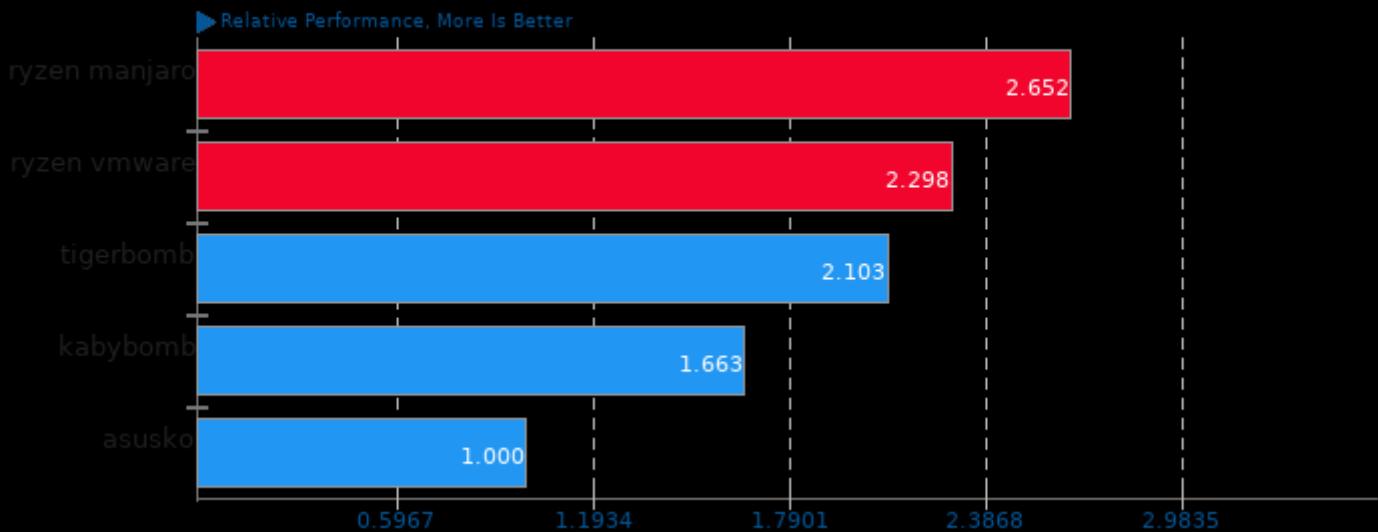
Geometric mean based upon tests: pts/himeno, pts/hmmer and pts/mafft



Geometric mean based upon tests: pts/mafft, pts/scimark2, pts/tscp, pts/himeno, pts/hmmer, pts/bullet, pts/compress-7zip, pts/dav1d, pts/x264, pts/x265 and pts/aircrack-ng

Geometric Mean Of Compression Tests

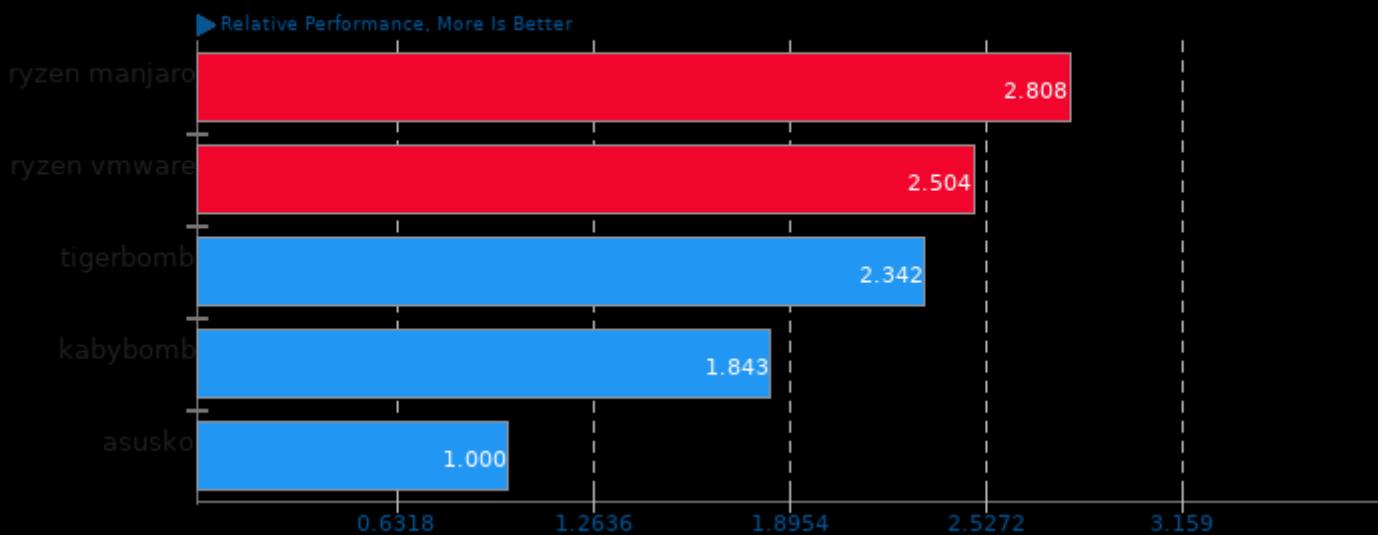
Result Composite - ryzen



Geometric mean based upon tests: pts/compress-7zip, pts/compress-pbzip2 and pts/lzbench

Geometric Mean Of CPU Massive Tests

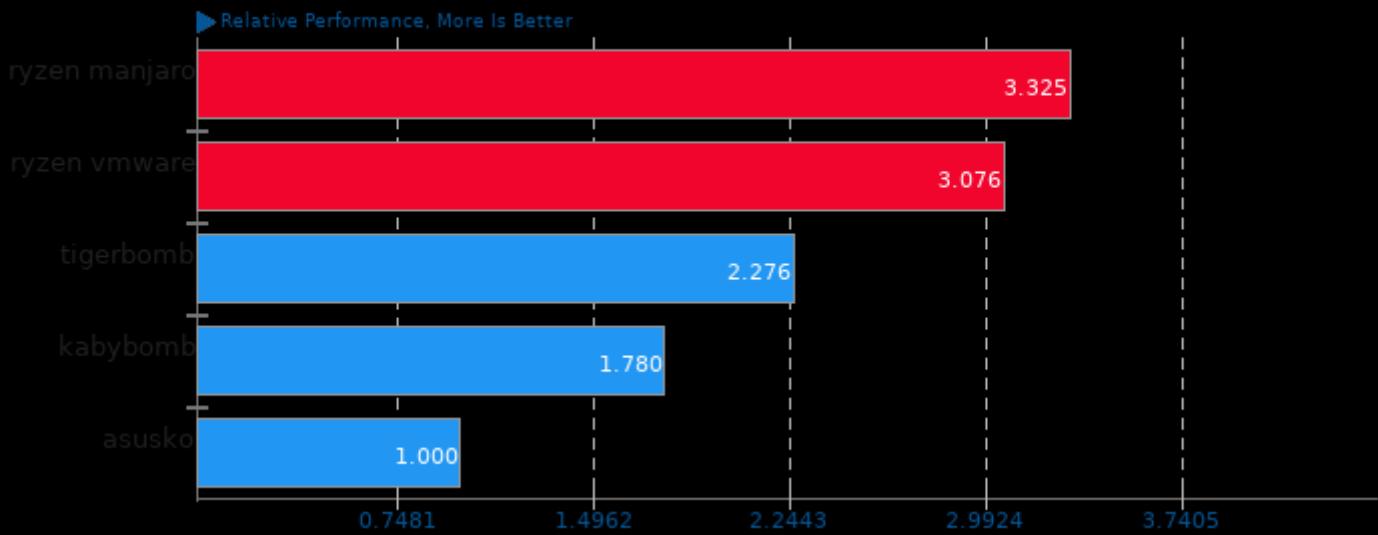
Result Composite - ryzen



Geometric mean based upon tests: pts/cloverleaf, pts/compress-7zip, pts/compress-pbzip2, pts/cython-bench, pts/dav1d, pts/x264, pts/x265, pts/glibc-bench, pts/himeno, pts/hmmer, pts/java-scimark2, pts/lzbench, pts/mafft, pts/multichase, pts/swet and pts/botan

Geometric Mean Of Creator Workloads Tests

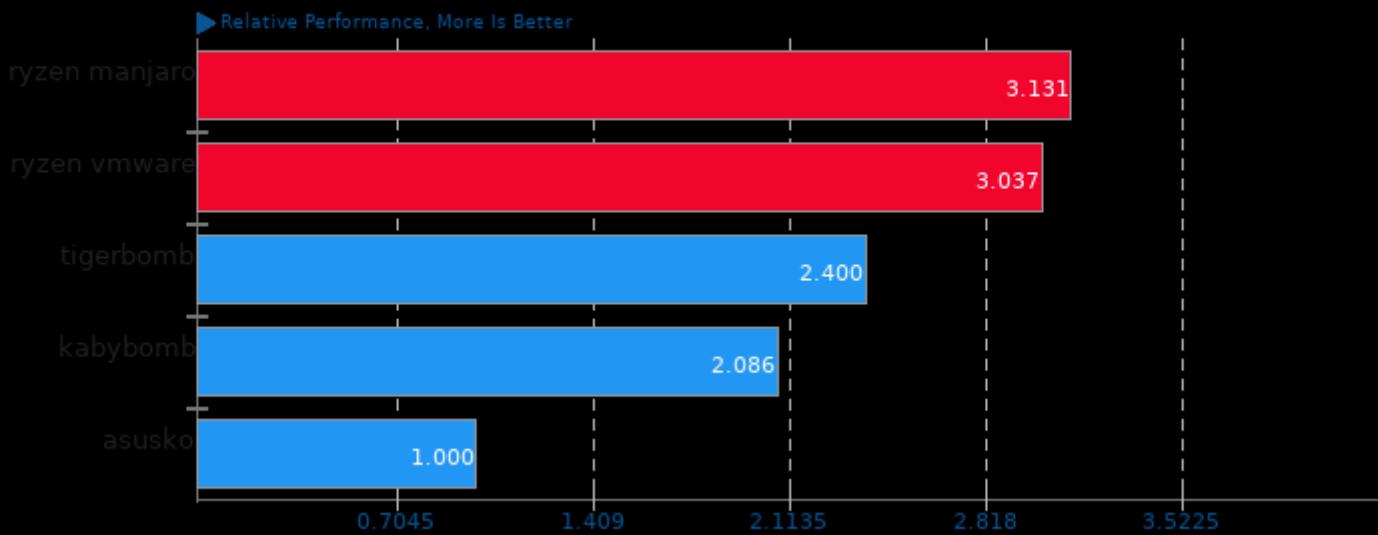
Result Composite - ryzen



Geometric mean based upon tests: pts/x264, pts/x265, pts/ffmpeg, pts/dav1d, pts/luajit and pts/espeak

Geometric Mean Of Cryptography Tests

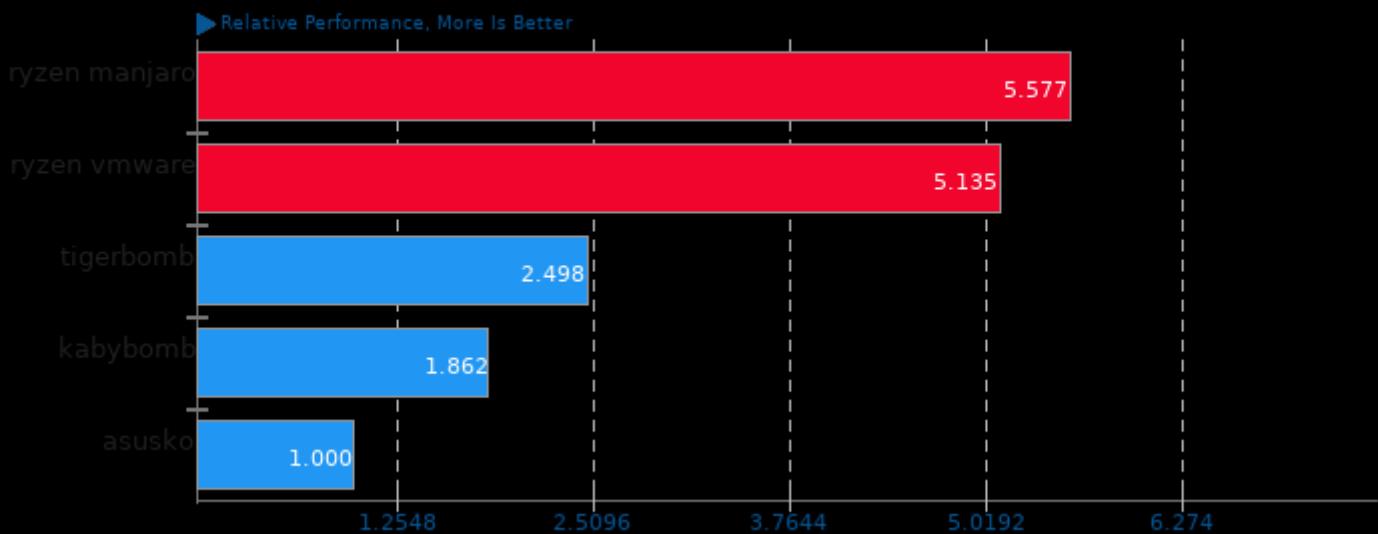
Result Composite - ryzen



Geometric mean based upon tests: pts/botan, pts/bork and pts/aircrack-ng

Geometric Mean Of Encoding Tests

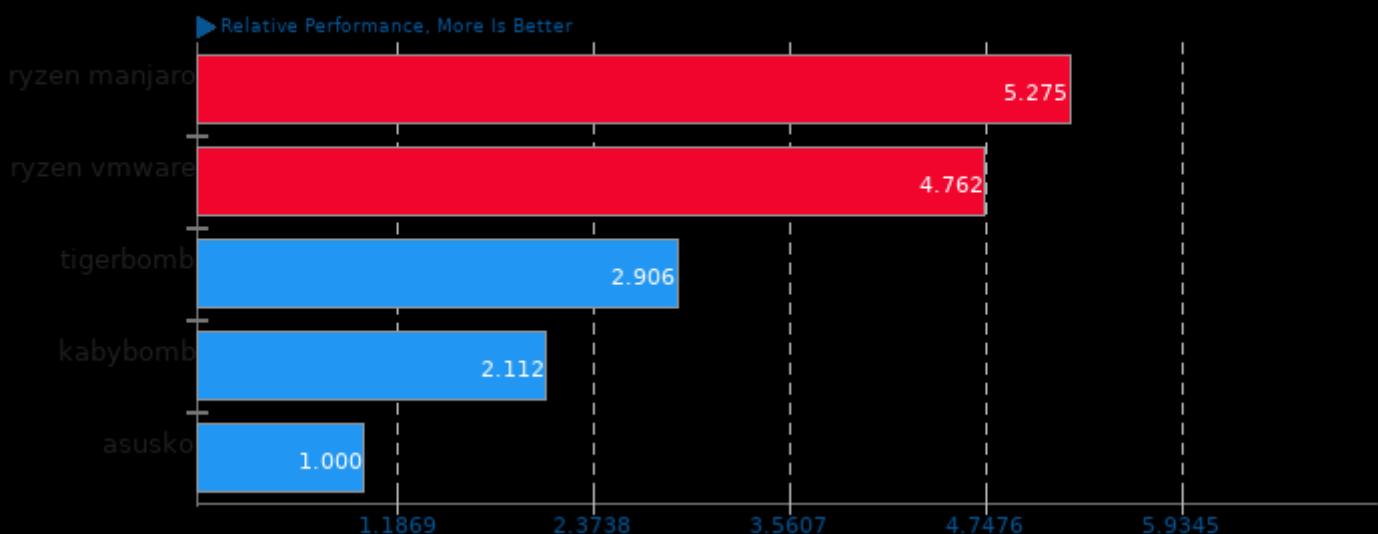
Result Composite - ryzen



Geometric mean based upon tests: pts/x264, pts/x265, pts/ffmpeg and pts/dav1d

Geometric Mean Of Fortran Tests

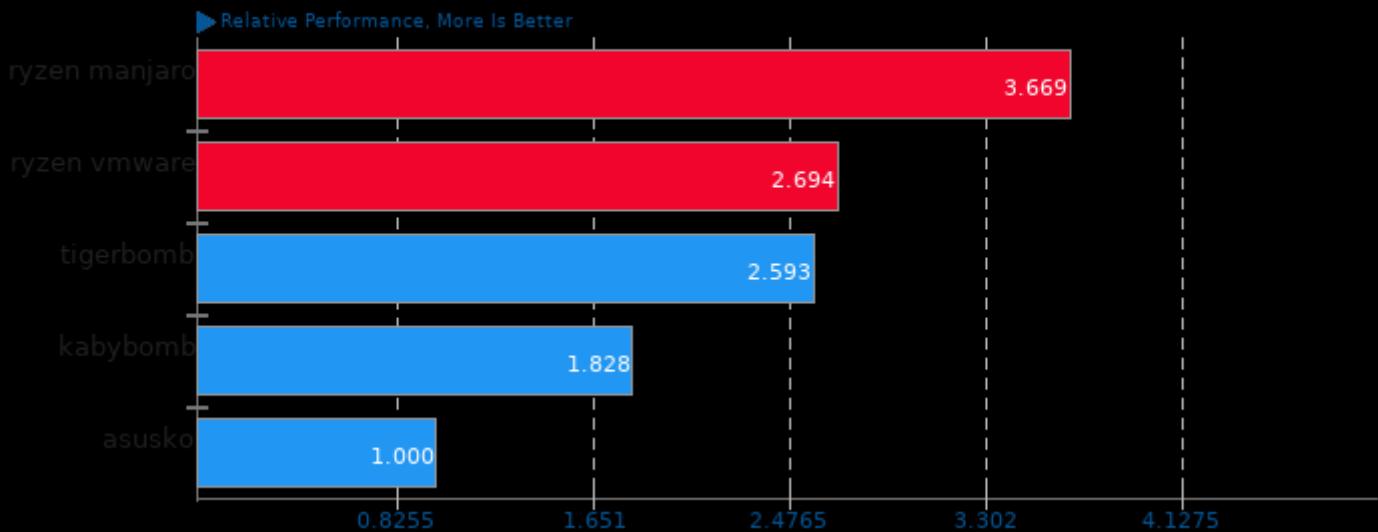
Result Composite - ryzen



Geometric mean based upon tests: pts/cloverleaf and pts/ffte

Geometric Mean Of HPC - High Performance Computing Tests

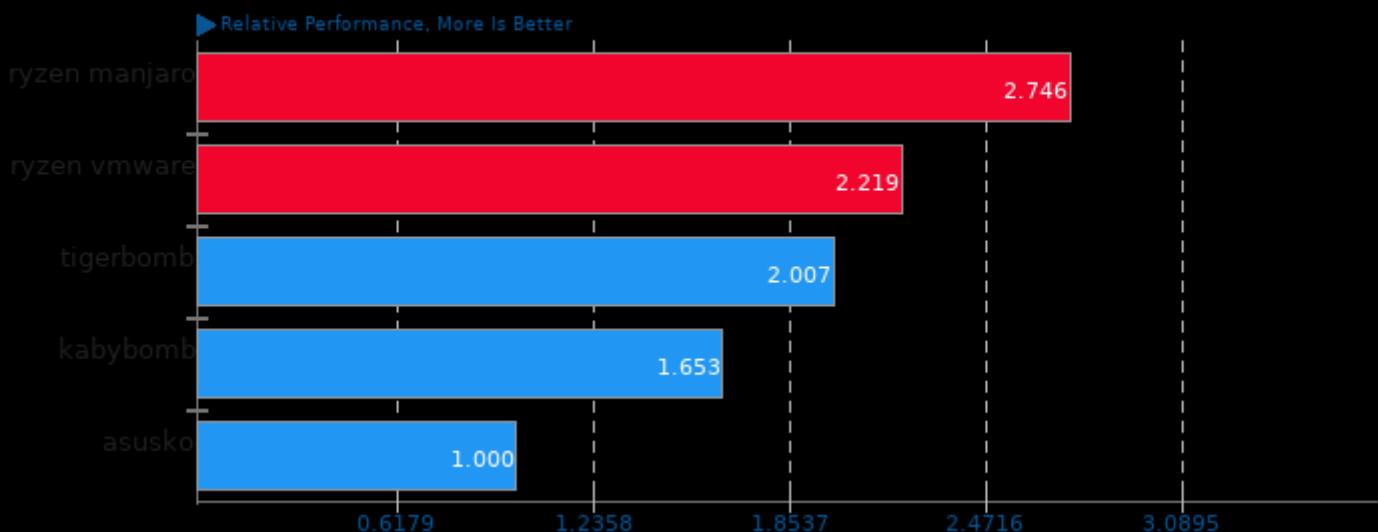
Result Composite - ryzen



Geometric mean based upon tests: pts/ffte, pts/cloverleaf, pts/himeno, pts/hmmer and pts/mafft

Geometric Mean Of Java Tests

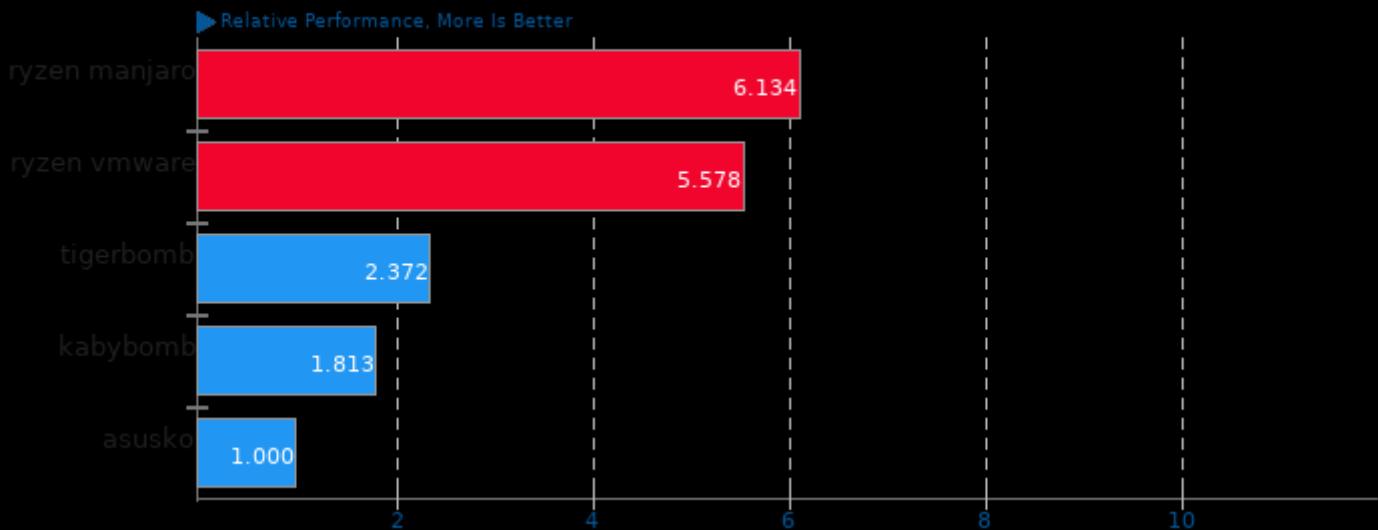
Result Composite - ryzen



Geometric mean based upon tests: pts/bork and pts/java-scimark2

Geometric Mean Of Multi-Core Tests

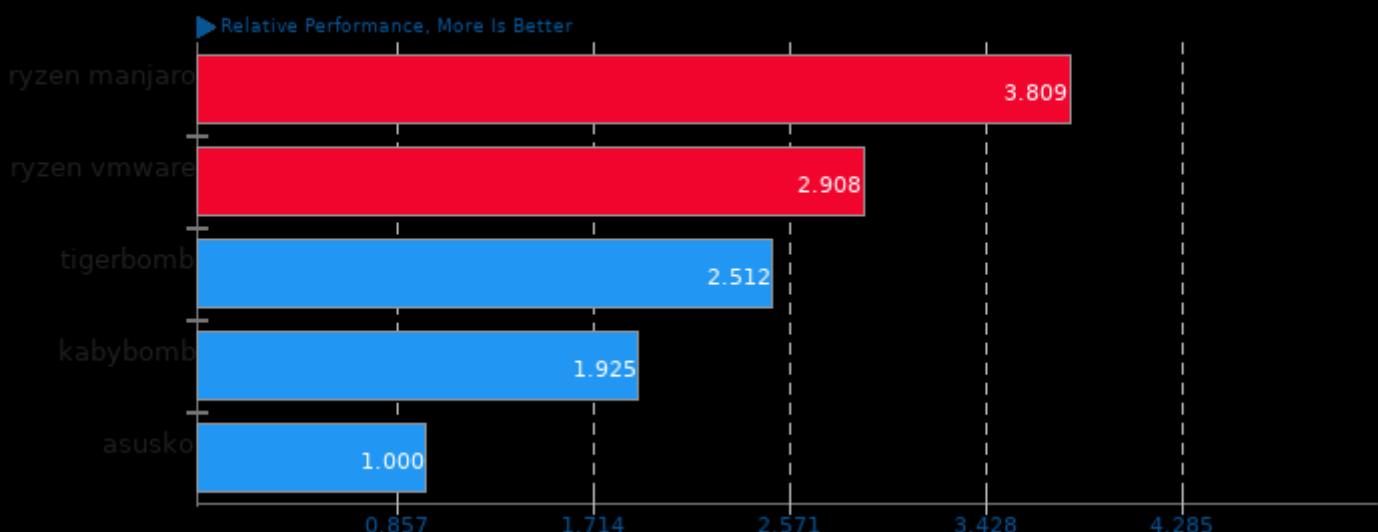
Result Composite - ryzen



Geometric mean based upon tests: pts/coremark, pts/aircrack-ng, pts/x264, pts/x265, pts/ffmpeg, pts/dav1d, pts/swet, pts/compress-7zip and pts/compress-pbzip2

Geometric Mean Of OpenMPI Tests

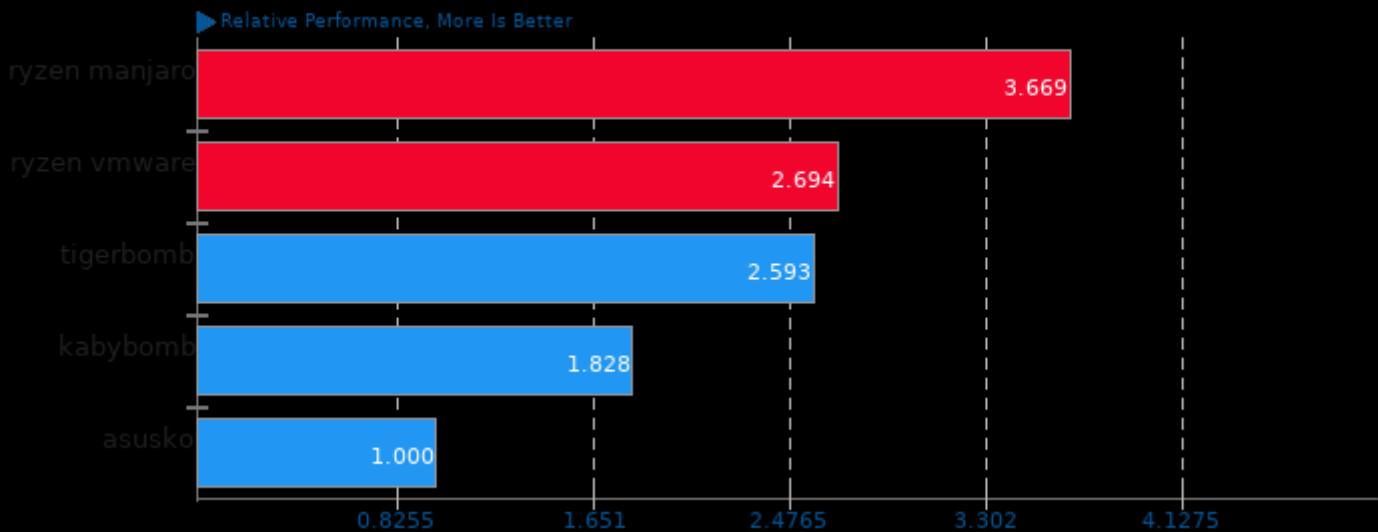
Result Composite - ryzen



Geometric mean based upon tests: pts/cloverleaf and pts/hmmer

Geometric Mean Of Scientific Computing Tests

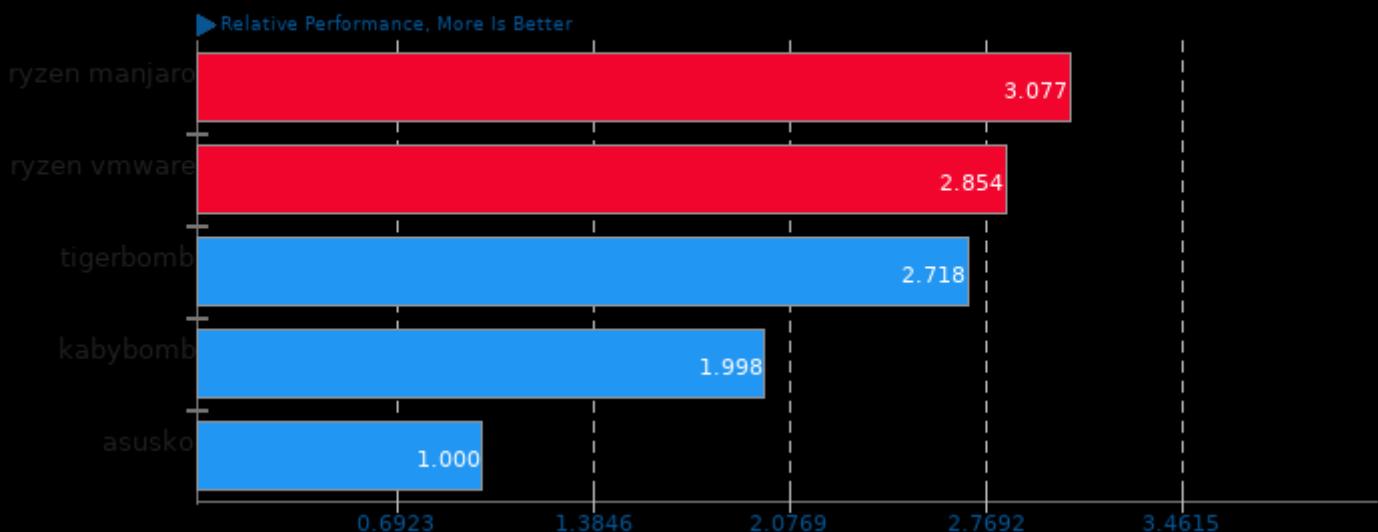
Result Composite - ryzen



Geometric mean based upon tests: pts/ffte, pts/cloverleaf, pts/himeno, pts/hmmer and pts/mafft

Geometric Mean Of Server CPU Tests

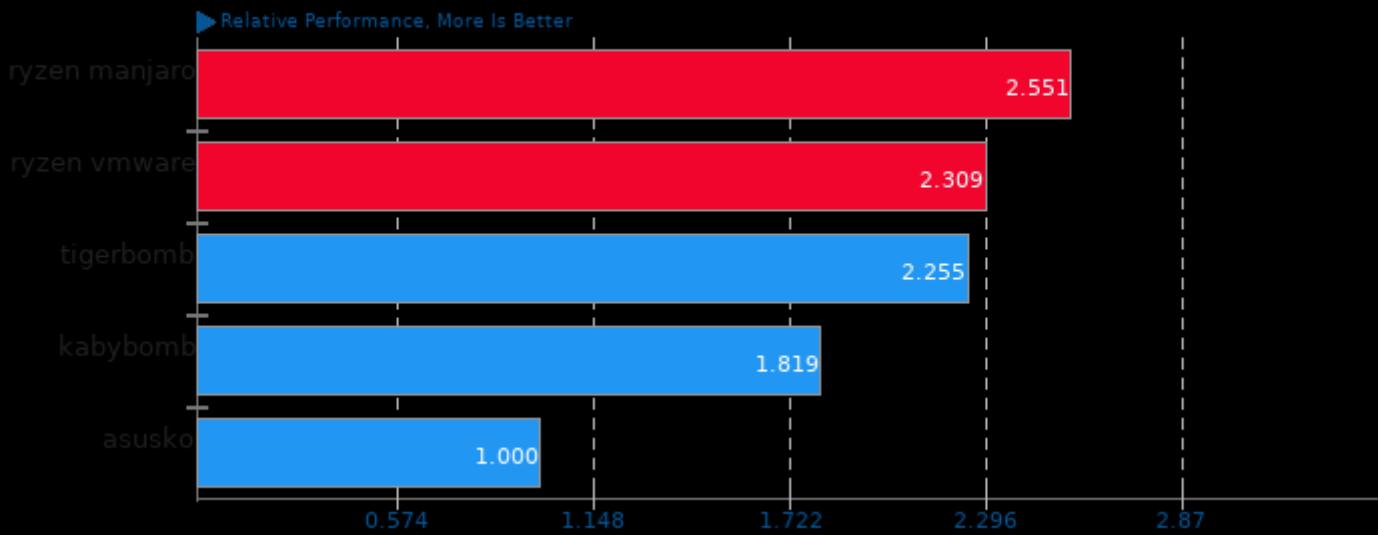
Result Composite - ryzen



Geometric mean based upon tests: pts/x264, pts/x265, pts/dav1d, pts/himeno, pts/compress-7zip, pts/glibc-bench and pts/cython-bench

Geometric Mean Of Single-Threaded Tests

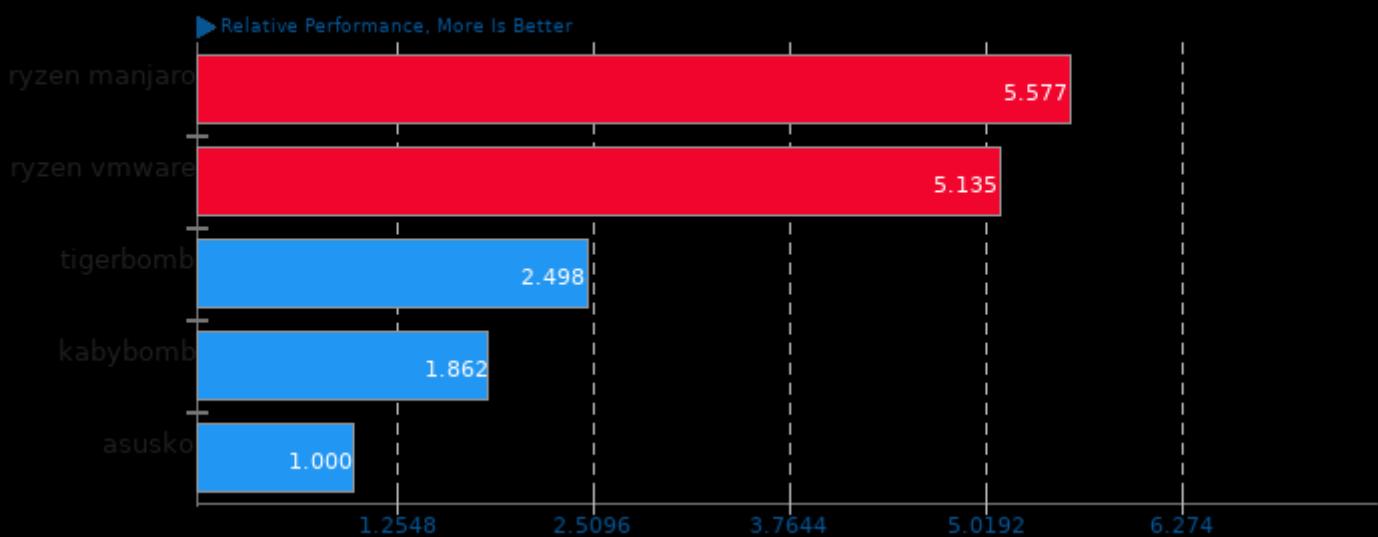
Result Composite - ryzen



Geometric mean based upon tests: pts/polybench-c, pts/lzbench, pts/java-scimark2, pts/bork, pts/luajit, pts/scimark2, pts/botan, pts/swet, pts/espeak, pts/glibc-bench and pts/multichase

Geometric Mean Of Video Encoding Tests

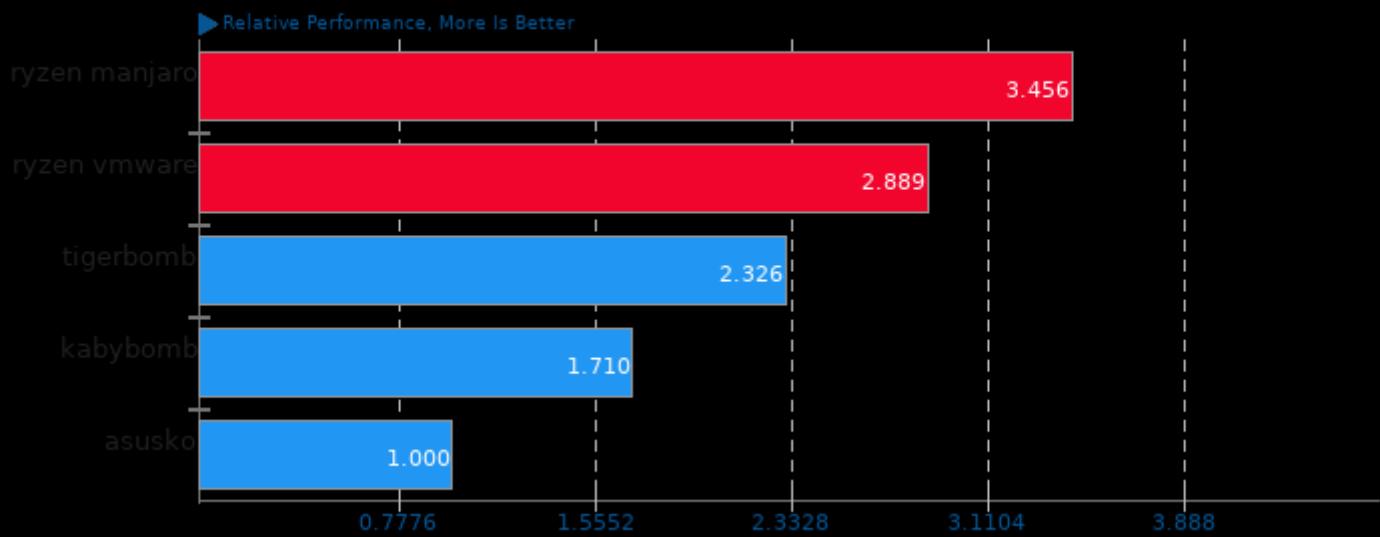
Result Composite - ryzen



Geometric mean based upon tests: pts/x264, pts/x265, pts/ffmpeg and pts/dav1d

Geometric Mean Of Common Workstation Benchmarks Tests

Result Composite - ryzen



Geometric mean based upon tests: pts/himeno, pts/x265 and pts/swet

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 21:01.