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1800x7700kreview

7700k @ 5 GHz, 1080FE, 17.10

Automated Executive Summary

7700k_5GHz_082420171415 had the most wins, coming in first place for 51% of the tests.

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

Himeno Benchmark (Poisson Pressure Solver) at 5.725x
SciMark (Computational Test: Dense LU Matrix Factorization) at 2.685x
glibc bench (Benchmark: sqrt) at 2.639x
N-Queens (Elapsed Time) at 2.235x
C-Ray (Total Time) at 2.214x
Multichase Pointer Chaser (Test: 1GB Array, 256 Byte Stride, 4 Threads) at 2.183x
High Performance Conjugate Gradient (Phoronix Test Suite v5.2.1) at 2.13x
BLAKE2 (Phoronix Test Suite v5.2.1) at 2.06x
CacheBench (Test: Read / Modify / Write) at 2.026x
CLOMP (Static OMP Speedup) at 1.962x.

Test Systems:

1800x-082120172000

1800x-082120172300

Processor: AMD Ryzen 7 1800X Eight-Core @ 3.90GHz (16 Cores), Motherboard: Gigabyte AX370-Gaming 5, Chipset: AMD Device 1450, Memory: 16384MB, Disk: 2000GB Western Digital WD20PURX-64P + 2 x VisionTek 120GB, Graphics: NVIDIA GeForce GTX 1080, Audio: NVIDIA GP104 HD Audio, Network: Intel I211 Gigabit Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 1920x1080

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

1600x-082220170630

Processor: AMD Ryzen 5 1600X Six-Core @ 3.60GHz (12 Cores), Motherboard: Gigabyte AX370-Gaming 5, Chipset: AMD Device 1450, Memory: 16384MB, Disk: 2000GB Western Digital WD20PURX-64P + 2 x VisionTek 120GB, Graphics: NVIDIA GeForce GTX 1080, Audio: NVIDIA GP104 HD Audio, Network: Intel I211 Gigabit Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

1800x-082220171900

Processor: AMD Ryzen 7 1800X Eight-Core @ 3.60GHz (16 Cores), Motherboard: Gigabyte AX370-Gaming 5, Chipset: AMD Device 1450, Memory: 16384MB, Disk: 2000GB Western Digital WD20PURX-64P + 2 x VisionTek 120GB, Graphics: NVIDIA GeForce GTX 1080, Audio: NVIDIA GP104 HD Audio, Network: Intel I211 Gigabit Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

1600x-082320170630

Processor: AMD Ryzen 5 1600X Six-Core @ 3.90GHz (12 Cores), Motherboard: Gigabyte AX370-Gaming 5, Chipset: AMD Device 1450, Memory: 16384MB, Disk: 2000GB Western Digital WD20PURX-64P + 2 x VisionTek 120GB, Graphics: NVIDIA GeForce GTX 1080, Audio: NVIDIA GP104 HD Audio, Network: Intel I211 Gigabit Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

6700k_stock_082320171800

Processor: Intel Core i7-6700K @ 4.20GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Skylake /DRAM, Memory: 16384MB, Disk: VisionTek 120GB + 2000GB Western Digital WD20PURX-64P, Graphics: NVIDIA GeForce GTX 1080, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

6700k_4.6_082420170145

Processor: Intel Core i7-6700K @ 4.60GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Skylake /DRAM, Memory: 16384MB, Disk: VisionTek 120GB + 2000GB Western Digital WD20PURX-64P, Graphics: NVIDIA GeForce GTX 1080, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

7700k_stock_082420171000

Processor: Intel Core i7-7700K @ 4.50GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Device 591f, Memory: 16384MB, Disk: VisionTek 120GB + 2000GB Western Digital WD20PURX-64P, Graphics: Intel HD 630, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

7700k_5GHz_082420171415

1800x7700kreview

Processor: Intel Core i7-7700K @ 5.00GHz (8 Cores), Motherboard: Gigabyte Z170X-Gaming 7, Chipset: Intel Device 591f, Memory: 16384MB, Disk: VisionTek 120GB + 2000GB Western Digital WD20PURX-64P, Graphics: NVIDIA GeForce GTX 1080, Audio: Creative CA0132, Network: Intel Connection

OS: Ubuntu 17.10, Kernel: 4.12.0-11-generic (x86_64), Desktop: GNOME Shell 3.24.3, Display Driver: modesetting 1.19.3, File-System: ext4, Screen Resolution: 640x480

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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave

	1800x-0821201720 00	1800x-0821201723 00	1600x-0822201706 30	1800x-0822201719 00	1600x-0823201706 30	6700k_stock_0823 20171800	6700k_4.6_082420 170145	7700k_stock_0824 20171000	7700k_5GHz_08242 0171415
SQLite - T.S.I (sec)	75.25								
Standard Deviation	1.3%								
FS-Mark - 1.F.1.S (Files/s)	111.68								
Standard Deviation	9.3%								
Threaded I/O Tester - 64MB Rand Read - 32 Threads (MB/s)	132699								
Standard Deviation	13.8%								
Threaded I/O Tester - 64MB Rand Write - 32 Threads (MB/s)	161.71								
Standard Deviation	0.8%								
Compile Bench - Compile (MB/s)	1773								
Standard Deviation	2.2%								
Compile Bench - Initial Create (MB/s)	477.91								
Standard Deviation	1.5%								
Compile Bench - Read Compiled Tree	2886								
Standard Deviation	0%								
Unpacking The Linux Kernel - linux-2.6.32.tar.bz2 (sec)	8.84								
Standard Deviation	0.2%								
PostMark - D.T.P (TPS)	6819								
Standard Deviation	1.6%								

1800x7700kreview

Gzip Compression - 2.F.C (sec)	11.11	10.52	10.12	**11.54**	10.57	10.22	8.27	8.37	**7.56**
Normalized	68.05%	71.86%	74.7%	65.51%	71.52%	73.97%	91.41%	90.32%	100%
Standard Deviation	13.2%	0.3%	0.7%	15.5%	1.1%	3.9%	0.2%	0.3%	0.4%
CLOMP - Static OMP Speedup (Speedup)		**6.24**	**3.18**	4.94	3.82	4.88	5.00	5.11	5.02
Normalized		100%	50.96%	79.17%	61.22%	78.21%	80.13%	81.89%	80.45%
Standard Deviation		2.5%	7.7%	5%	8.9%	0.6%	0.9%	0.8%	0.4%
High Performance Conjugate Gradient - P.T.S.v.2.1 ()		0.93	0.78	**0.77**	0.93	1.38	1.60	1.42	**1.64**
Normalized		56.71%	47.56%	46.95%	56.71%	84.15%	97.56%	86.59%	100%
Standard Deviation		1%	0%	0.5%	1.3%	1.2%	1.1%	1.5%	9.8%
lzbench - XZ 0 (MB/s)		**29**	31	31	**29**	37	41	40	**44**
Normalized		65.91%	70.45%	70.45%	65.91%	84.09%	93.18%	90.91%	100%
Standard Deviation		3.4%	0%	1.9%	2%	0%	0%	0%	0%
FFTW - Stock - 2D FFT Size 4096 (Mflops)		5546	**5479**	5539	5480	5989	6586	6361	**6798**
Normalized		81.58%	80.6%	81.47%	80.61%	88.1%	96.88%	93.57%	100%
Standard Deviation		0.6%	1%	1%	1.5%	0.9%	1.4%	0.4%	1%
FFTW - Float + SSE - 2D FFT Size 4096 (Mflops)		14600	13789	**13603**	14775	23038	25441	23349	**25841**
Normalized		56.5%	53.36%	52.64%	57.18%	89.15%	98.45%	90.36%	100%
Standard Deviation		1.5%	1.4%	0.9%	1.3%	1.8%	1.3%	0.2%	1.8%
BLAKE2 - P.T.S.v.2.1 (Cycles/Byte)		**10.26**	9	9.12	**10.26**	5.67	5.18	5.53	**4.98**
Normalized		48.54%	55.33%	54.61%	48.54%	87.83%	96.14%	90.05%	100%
Standard Deviation		0%	0%	1.2%	0%	0.1%	0.1%	0.1%	0.1%
Fhourstones - C.C.4.S (Kpos / sec)		11926	**11303**	11365	11932	13440	15139	14127	**16304**
Normalized		73.14%	69.32%	69.71%	73.19%	82.43%	92.85%	86.64%	100%
Standard Deviation		0.3%	0.5%	0.2%	0.3%	0.1%	0.1%	0.1%	0.1%
BYTE Unix Benchmark - F.P.A (LPS)		1	1	1	1	1	1	1	1
Standard Deviation		0%	0%	0%	0%	0%	0%	0%	0%
CacheBench - R.M.W (MB/s)		**18274**	19154	18913	18420	26788	29515	33317	**37017**
Normalized		49.37%	51.74%	51.09%	49.76%	72.37%	79.73%	90%	100%
Standard Deviation		0.7%	0.6%	1.3%	0.9%	0.9%	0.4%	0%	0%
SciMark - D.L.M.F (Mflops)		**416.70**	449.23	441.10	422.75	939.06	1030	1007	**1119**
Normalized		37.25%	40.16%	39.43%	37.79%	83.94%	92.06%	90.03%	100%
Standard Deviation		1.5%	8.5%	3.4%	1.9%	0.1%	0.1%	0.1%	0.1%
John The Ripper - Blowfish (Real C/S)		**13113**	9314	12393	9828	**7910**	9091	8899	9721
Normalized		100%	71.03%	94.51%	74.95%	60.32%	69.33%	67.86%	74.13%
Standard Deviation		0%	0.2%	0.3%	0.1%	0%	0.1%	0%	2.6%

1800x7700kreview

VP8 libvpx Encoding - vpxenc (FPS)	1.10	**1.14**	**1.14**	1.10	1.03	1.12	1.10	**1.02**
Normalized	96.49%	100%	100%	96.49%	90.35%	98.25%	96.49%	89.47%
Standard Deviation	0.5%	0%	0.5%	0.5%	1%	1%	1%	0%
Himeno Benchmark - P.P.S (MFLOPS)	1139	1060	**539.94**	1140	2805	**3091**	2990	2734
Normalized	36.85%	34.29%	17.47%	36.87%	90.75%	100%	96.73%	88.45%
Standard Deviation	0.1%	6.1%	2.1%	0.2%	0.1%	0.2%	0.3%	2.3%
7-Zip Compression - C.S.T (MIPS)	**34661**	28140	33217	30434	**24854**	28183	27157	30354
Normalized	100%	81.19%	95.83%	87.8%	71.71%	81.31%	78.35%	87.57%
Standard Deviation	0.3%	1.1%	0.7%	0.6%	0.3%	1.3%	0.8%	1.6%
ebizzy - P.T.S.v.2.1 (Records/s)	**594454**	408040	458864	482189	**284153**	297098	322330	310925
Normalized	100%	68.64%	77.19%	81.11%	47.8%	49.98%	54.22%	52.3%
Standard Deviation	3.1%	6.8%	4%	6.3%	3.4%	7.1%	0.1%	8.6%
Timed GCC Compilation - Time To Compile (sec)	**845.12**	**992.58**	889.53	948.65		875.82	891.98	878.32
Normalized	100%	85.14%	95.01%	89.09%		96.49%	94.75%	96.22%
Standard Deviation	0.5%	0.3%	0.1%	0.5%		0.4%	0.2%	0.5%
Timed ImageMagick Compilation - Time To Compile (sec)	**39.88**	47.32	48.01	48.70	**51.97**	45.29	48.54	44.09
Normalized	100%	84.28%	83.07%	81.89%	76.74%	88.05%	82.16%	90.45%
Standard Deviation	0.2%	0.1%	0%	0.5%	0.3%	0.1%	0.1%	2.3%
Timed MPlayer Compilation - Time To Compile (sec)	**25.92**	32.43	28.08	30.42	**37.60**	32.68	34.02	33.52
Normalized	100%	79.93%	92.31%	85.21%	68.94%	79.31%	76.19%	77.33%
Standard Deviation	1.1%	1.7%	1.2%	1.3%	2.1%	1.3%	2.3%	2.5%
Timed PHP Compilation - Time To Compile (sec)	**18.37**	21.24	19.84	20.30	**22.74**	20.03	20.82	19.20
Normalized	100%	86.49%	92.59%	90.49%	80.78%	91.71%	88.23%	95.68%
Standard Deviation	1%	0.1%	0.5%	0.3%	0.2%	0.2%	0.1%	0.2%
C-Ray - Total Time (sec)	**9.25**	13.00	9.74	12.53	**20.48**	17.81	18.28	17.26
Normalized	100%	71.15%	94.97%	73.82%	45.17%	51.94%	50.6%	53.59%
Standard Deviation	0.2%	0.1%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	**4.67**	5.98	4.96	5.58	**8.14**	7.20	7.34	6.67
Normalized	100%	78.09%	94.15%	83.69%	57.37%	64.86%	63.62%	70.01%
Standard Deviation	1%	0.7%	0.4%	1.2%	0.4%	0.7%	0.7%	0.8%
Primesieve - 1.P.N.G (sec)	**36.50**	51.19	39.27	48.69	**66.22**	57.73	59.14	63.19
Normalized	100%	71.3%	92.95%	74.96%	55.12%	63.23%	61.72%	57.76%
Standard Deviation	0.1%	0%	0.1%	0%	0.1%	0.2%	0.3%	1.2%
Smallpt - G.I.R.1.S (sec)	**35**	50	37	47	**67**	59	59	57
Normalized	100%	70%	94.59%	74.47%	52.24%	59.32%	59.32%	61.4%
Standard Deviation	0%	1.2%	0%	1.2%	0.9%	1%	0%	2.7%

1800x7700kreview

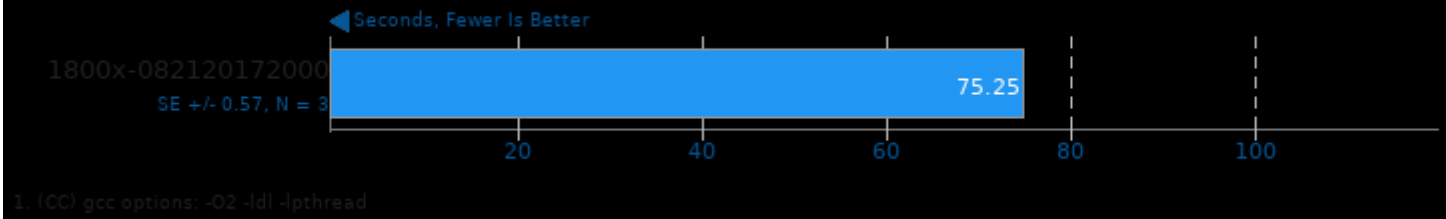
Stockfish - Total Time (ms)	3715	3647	3693	**3751**	3136	2823	2922	**2612**
Normalized	70.31%	71.62%	70.73%	69.63%	83.29%	92.53%	89.39%	100%
Standard Deviation	0.3%	0.5%	0.4%	0.3%	0%	0.1%	0.1%	0.1%
LZMA Compression - 2.F.C (sec)	274.91	276.27	**277.09**	275.08	245.12	220.22	229.00	**202.27**
Normalized	73.58%	73.21%	73%	73.53%	82.52%	91.85%	88.33%	100%
Standard Deviation	0.1%	0.1%	0.6%	0.1%	0.2%	0.1%	0.4%	0.1%
Crafty - Elapsed Time (sec)	**74.51**	71.50	72.01	74.45	60.52	55.11	56.58	**50.71**
Normalized	68.06%	70.92%	70.42%	68.11%	83.79%	92.02%	89.63%	100%
Standard Deviation	0.3%	0%	1%	0.2%	0%	0.1%	0.1%	0.1%
dcraw - R.T.P.I.C (sec)	47.60	45.46	45.50	**48.95**	39.06	35.63	36.43	**32.77**
Normalized	68.84%	72.09%	72.02%	66.95%	83.9%	91.97%	89.95%	100%
Standard Deviation	0.1%	0.3%	0.3%	2.7%	0.1%	0%	0.1%	0%
FFmpeg - H.2.H.T.N.D (sec)	**8.15**	5.63	7.91	5.33	5.53	4.78	4.90	**4.57**
Normalized	56.07%	81.17%	57.77%	85.74%	82.64%	95.61%	93.27%	100%
Standard Deviation	2.8%	1.4%	1.1%	1.3%	1.3%	0.9%	0.4%	3.3%
Mencoder - AVI To LAVC (sec)	18.39	17.58	17.81	**18.41**	16.70	15.17	15.47	**13.92**
Normalized	75.69%	79.18%	78.16%	75.61%	83.35%	91.76%	89.98%	100%
Standard Deviation	0.2%	0.3%	1.1%	0.1%	0.2%	0.1%	0.2%	0.1%
N-Queens - Elapsed Time (sec)	**14.55**	20.44	15.34	19.82	**32.52**	28.28	28.91	26.05
Normalized	100%	71.18%	94.85%	73.41%	44.74%	51.45%	50.33%	55.85%
Standard Deviation	0%	0%	0%	0.1%	0%	0%	0%	0.2%
Sudokut - Total Time (sec)	15.50	14.98	15.15	**15.55**	9.94	9.11	9.26	**8.38**
Normalized	54.06%	55.94%	55.31%	53.89%	84.31%	91.99%	90.5%	100%
Standard Deviation	0.3%	0.1%	0.2%	0.3%	0.2%	0.1%	0.1%	0.1%
OpenSSL - R.4.b.P (Signs/sec)	**1205**	857.57	1143	903.57	**753.37**	866.30	845.73	887.23
Normalized	100%	71.18%	94.87%	75%	62.53%	71.91%	70.2%	73.65%
Standard Deviation	0.1%	0%	0.1%	0.1%	0%	0%	0%	1.7%
glibc bench - sqrt (nanoseconds)	6.83	**6.01**	6.03	6.84	**15.86**	14.47	15.50	13.95
Normalized	87.99%	100%	99.67%	87.87%	37.89%	41.53%	38.77%	43.08%
Standard Deviation	0%	0.1%	0.9%	0.2%	0%	0%	0%	0%
Multichase Pointer Chaser - 1.A.2.B.S.4.T (ns)	79.75	**106.17**	104.20	79.18	63.93	51.89	63.09	**48.64**
Normalized	60.99%	45.81%	46.68%	61.43%	76.08%	93.74%	77.1%	100%
Standard Deviation	1.3%	1.4%	1.2%	0.9%	0%	0%	0%	0.1%
Perl Benchmarks - Pod2html (seconds)	**0.16517459**	0.15826286	0.16089376	0.16443879	0.11659994	0.10700242	0.10862852	**0.09873251**
Normalized	59.77%	62.39%	61.37%	60.04%	84.68%	92.27%	90.89%	100%
Standard Deviation	0.4%	1%	0.9%	2.7%	0.5%	0.1%	0.3%	0.7%
Perl Benchmarks - Interpreter (seconds)	**0.00126179**	0.00127782	0.00133378	0.00134048	0.00185738	0.00154749	**0.00188348**	0.00156894
Normalized	100%	98.75%	94.6%	94.13%	67.93%	81.54%	66.99%	80.42%
Standard Deviation	0.5%	0.2%	0.3%	0.3%	2.4%	9.9%	5.9%	9.1%

1800x7700kreview

Java SciMark - D.L.M.F (Mflops)	6562	6391	**6215**	6752	7045	**7839**
Normalized	83.71%	81.53%	79.29%	86.14%	89.87%	100%
Standard Deviation	1.4%	1.3%	0.7%	1%	0.9%	1%
Bork File Encrypter - F.E.T (sec)	9.35	**9.83**	6.70	6.71	6.47	**5.63**
Normalized	60.21%	57.27%	84.03%	83.9%	87.02%	100%
Standard Deviation	1.4%	1.7%	1.1%	7%	5.3%	4.8%
Timed MrBayes Analysis - P.P.A			**10.15**	8.83	9.16	**7.88**
Normalized			77.64%	89.24%	86.03%	100%
Standard Deviation			7.5%	9.6%	8.8%	2.6%
eSpeak Speech Engine - T.T.S.S			4.87	**4.84**	**5.31**	5.20
Normalized			99.38%	100%	91.15%	93.08%
Standard Deviation			1.3%	3.2%	2.5%	3.1%

SQLite 3.8.10.2

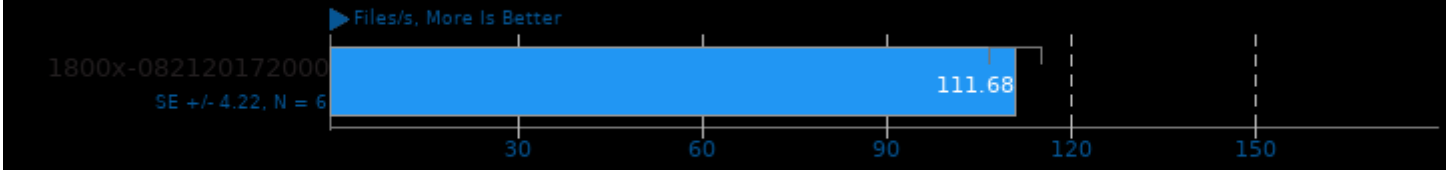
Timed SQLite Insertions



1. (CC) gcc options: -O2 -ldl -lpthread

FS-Mark 3.3

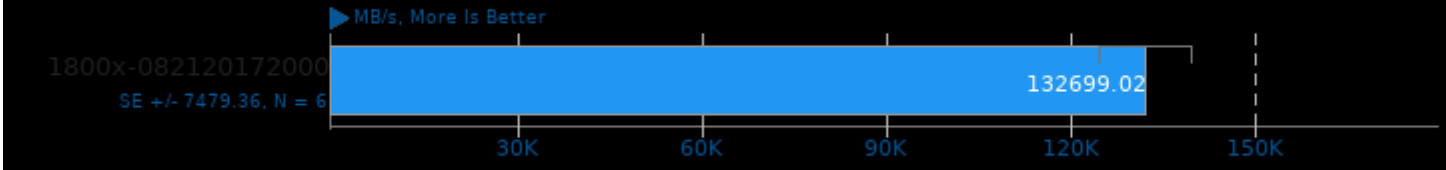
1000 Files, 1MB Size



1. (CC) gcc options: -static

Threaded I/O Tester 20170503

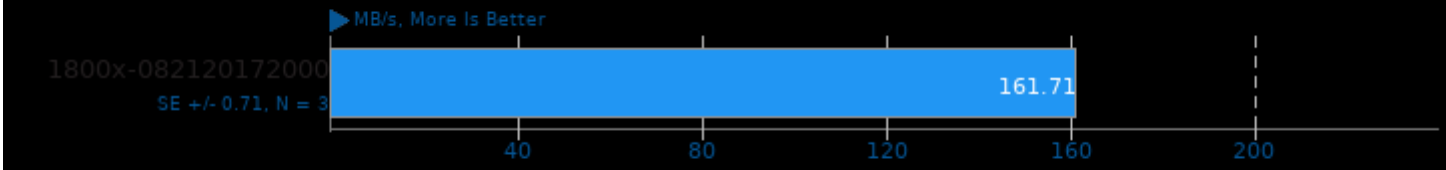
64MB Random Read - 32 Threads



1. (CC) gcc options: -O2

Threaded I/O Tester 20170503

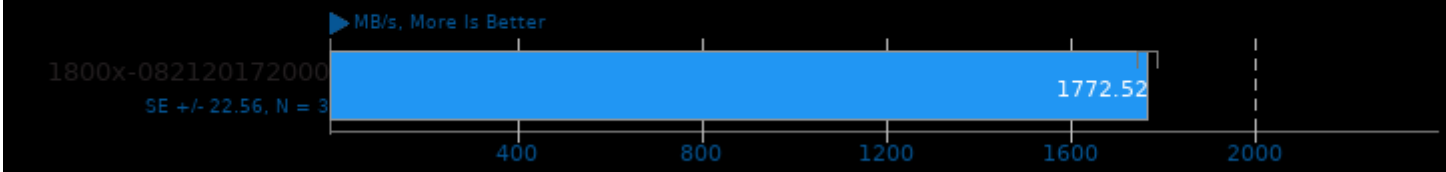
64MB Random Write - 32 Threads

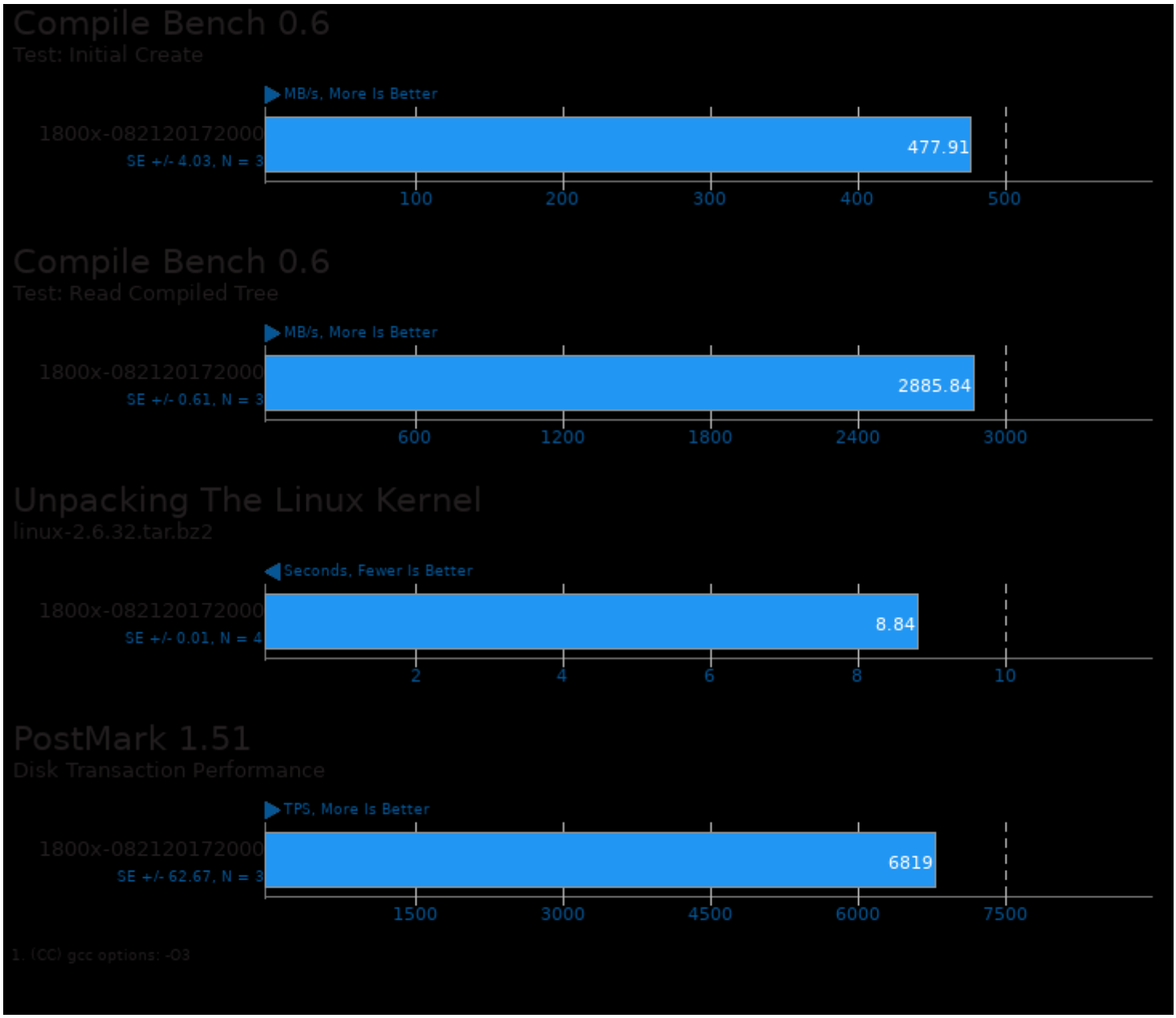


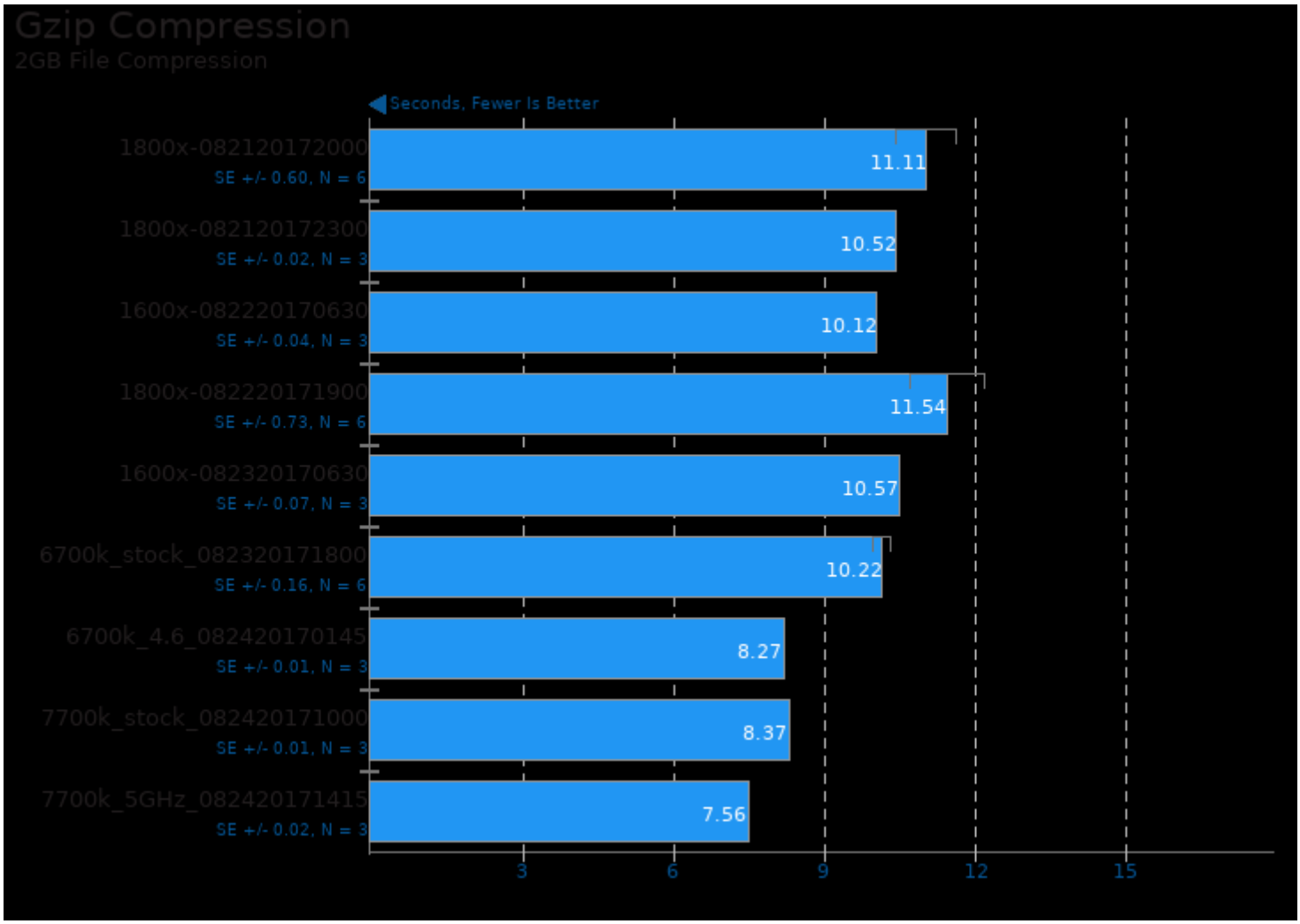
1. (CC) gcc options: -O2

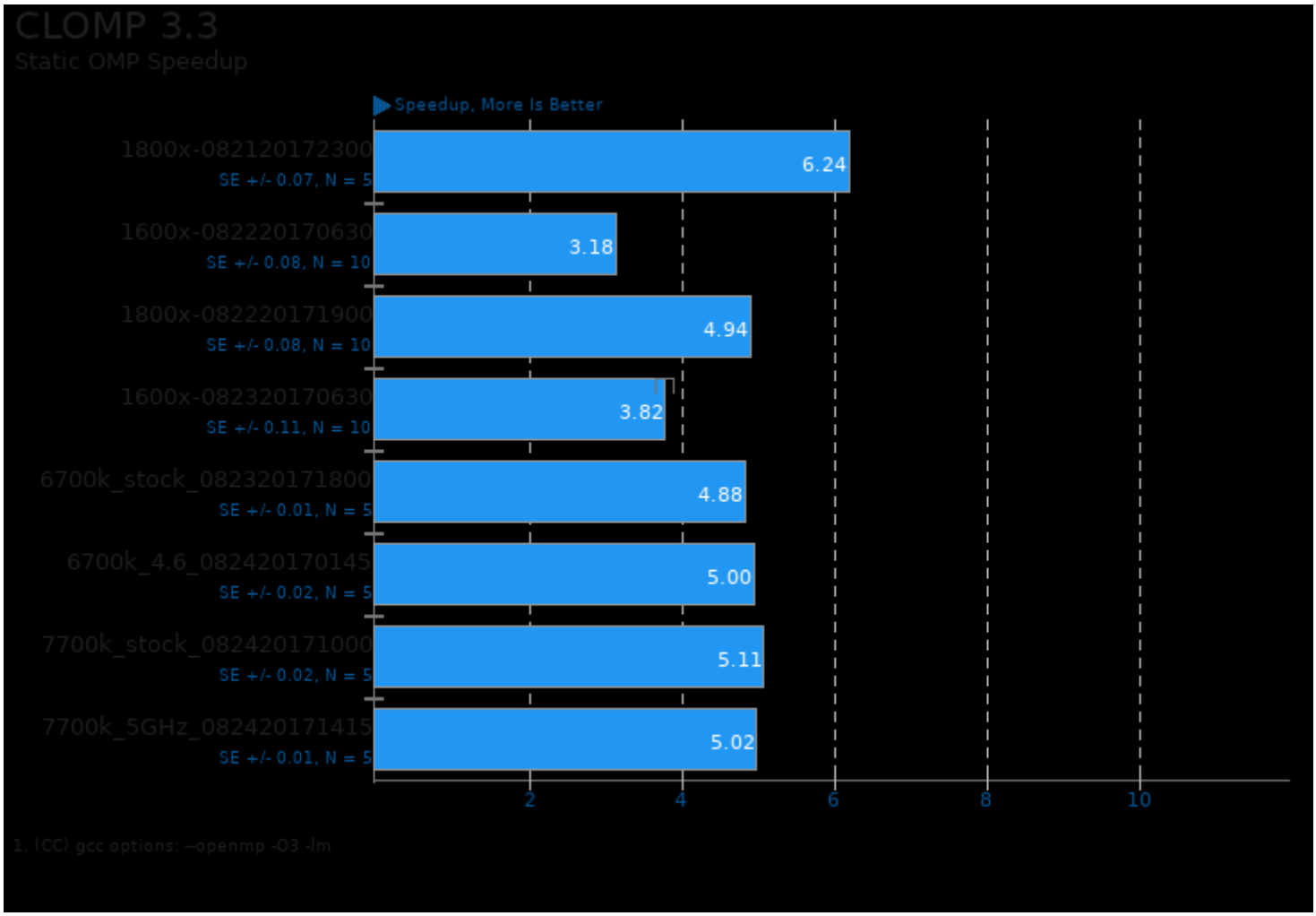
Compile Bench 0.6

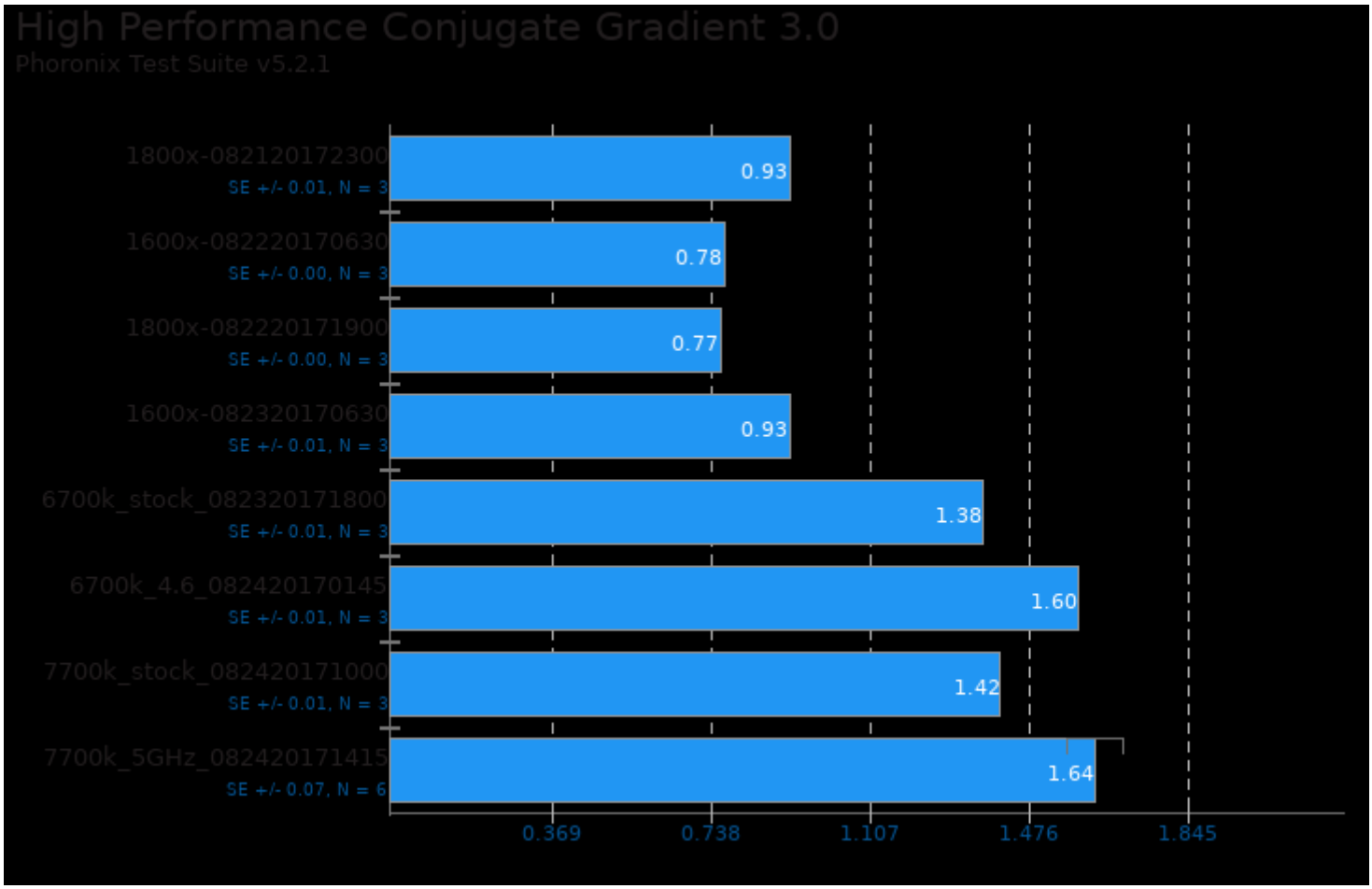
Test: Compile

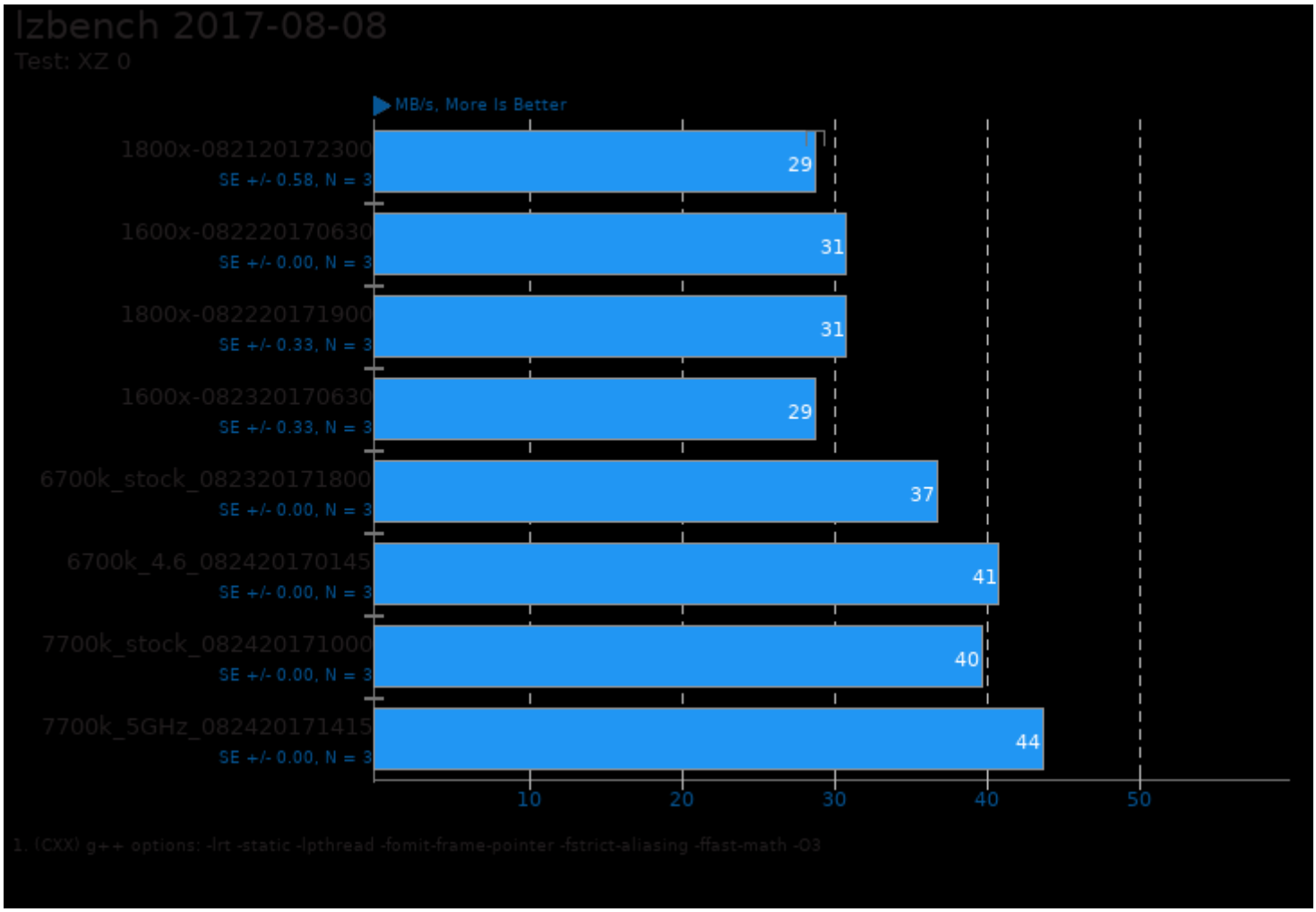


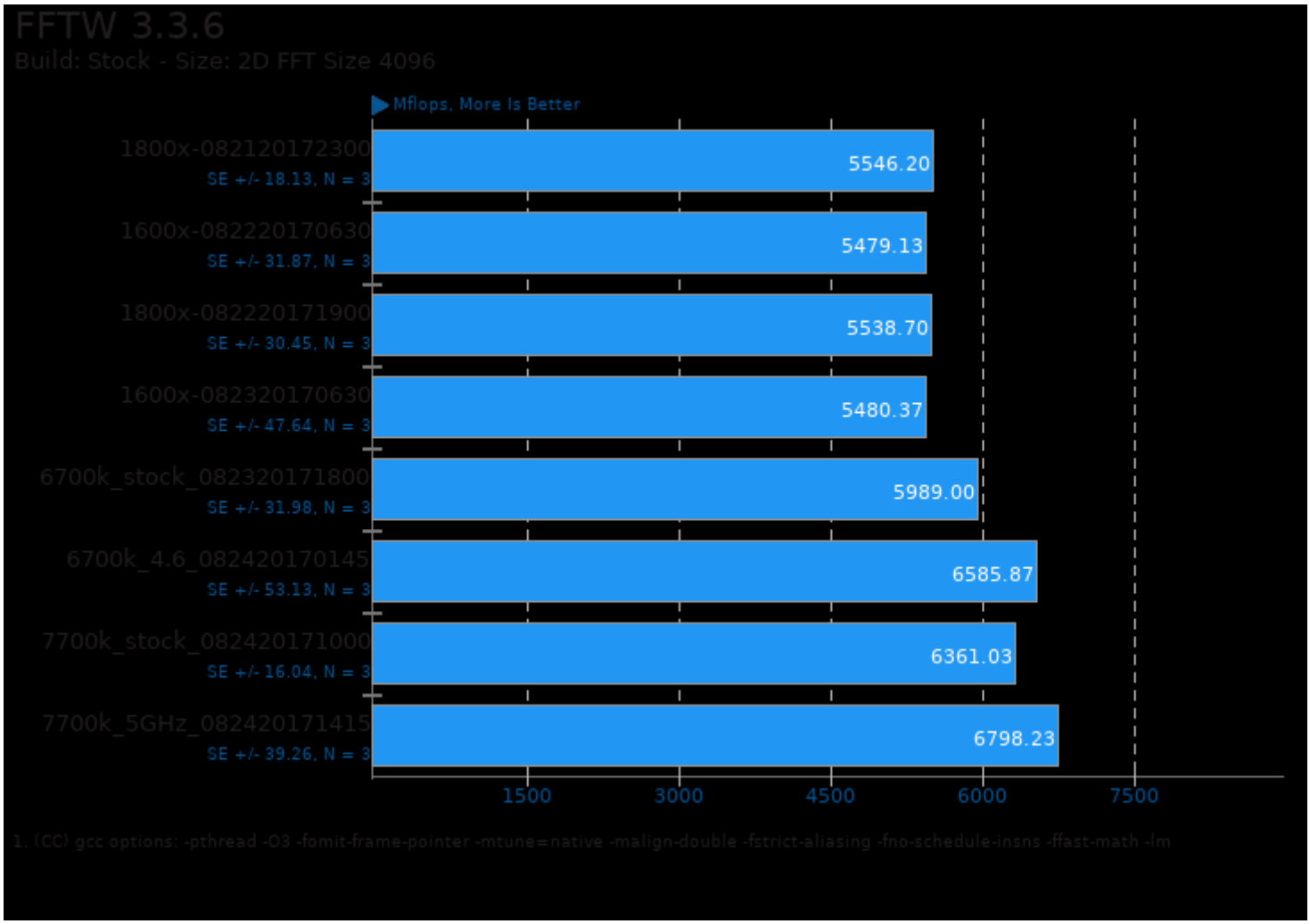

Compile Bench 0.6
Test: Initial Create
MB/s, More Is Better
1800x-082120172000
SE +/- 4.03, N = 3
477.91
100
200
300
400
500
Compile Bench 0.6
Test: Read Compiled Tree
MB/s, More Is Better
1800x-082120172000
SE +/- 0.61, N = 3
2885.84
600
1200
1800
2400
3000
Unpacking The Linux Kernel
linux-2.6.32.tar.bz2
Seconds, Fewer Is Better
1800x-082120172000
SE +/- 0.01, N = 4
8.84
2
4
6
8
10
PostMark 1.51
Disk Transaction Performance
TPS, More Is Better
1800x-082120172000
SE +/- 62.67, N = 3
6819
1500
3000
4500
6000
7500
1. (CC) gcc options: -O3

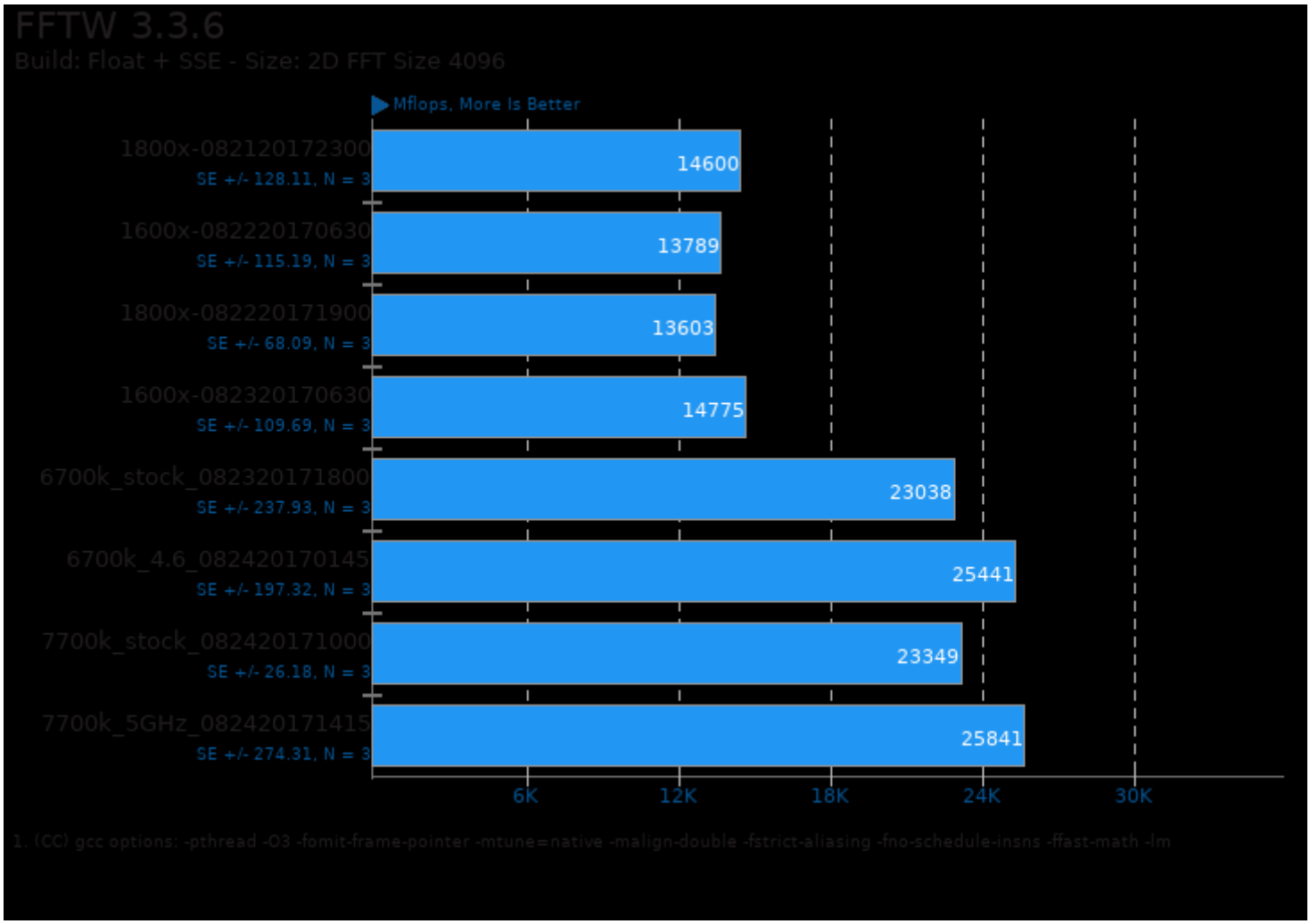

Gzip Compression
2GB File Compression
Seconds, Fewer Is Better
1800x-082120172000
SE +/- 0.60, N = 6
11.11
1800x-082120172300
SE +/- 0.02, N = 3
10.52
1600x-082220170630
SE +/- 0.04, N = 3
10.12
1800x-082220171900
SE +/- 0.73, N = 6
11.54
1600x-082320170630
SE +/- 0.07, N = 3
10.57
6700k_stock_082320171800
SE +/- 0.16, N = 6
10.22
6700k_4.6_082420170145
SE +/- 0.01, N = 3
8.27
7700k_stock_082420171000
SE +/- 0.01, N = 3
8.37
7700k_5GHz_082420171415
SE +/- 0.02, N = 3
7.56
3
6
9
12
15

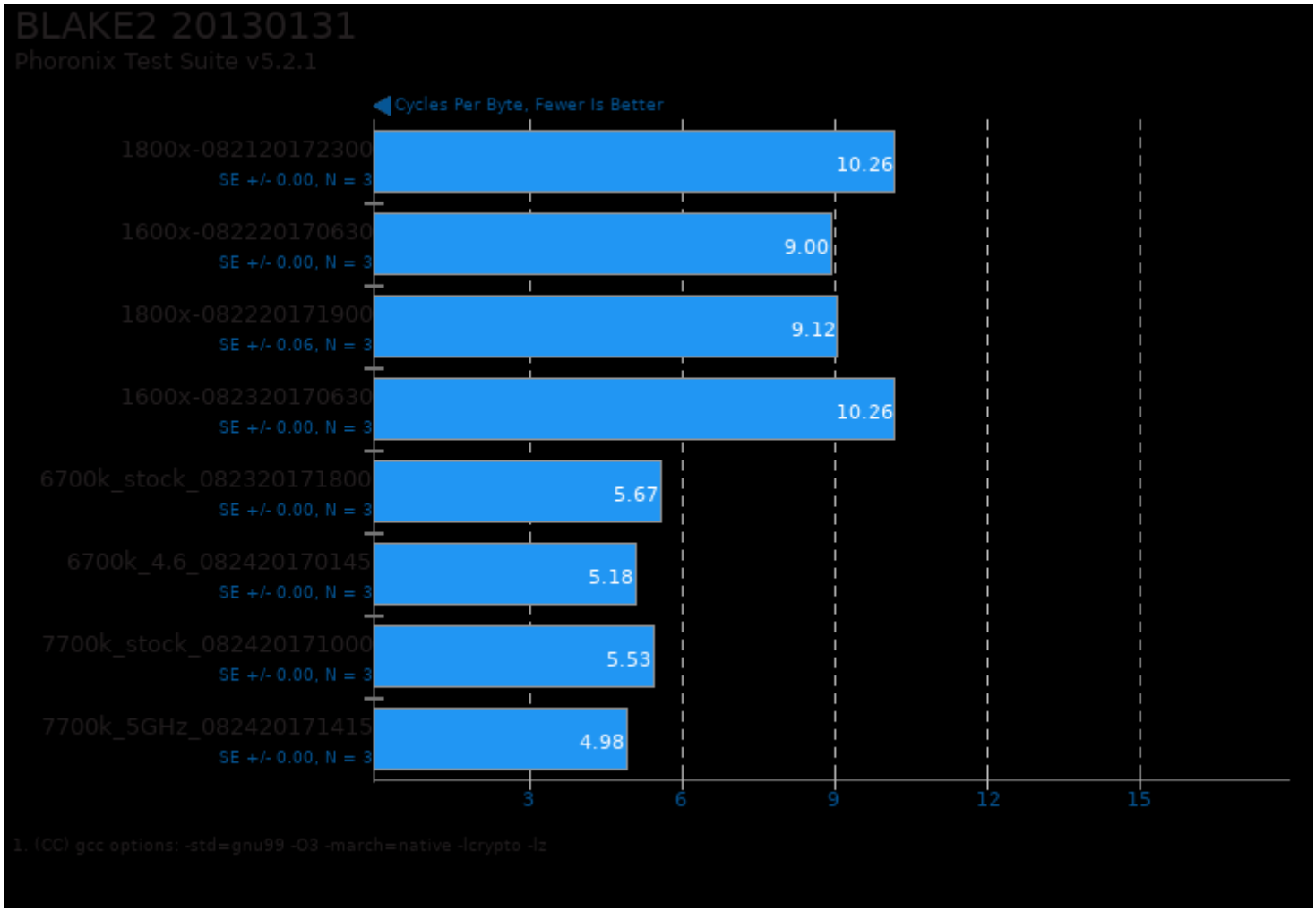

CLOMP 3.3
Static OMP Speedup
Speedup, More Is Better
1800x-082120172300
SE +/- 0.07, N = 5
6.24
1600x-082220170630
SE +/- 0.08, N = 10
3.18
1800x-082220171900
SE +/- 0.08, N = 10
4.94
1600x-082320170630
SE +/- 0.11, N = 10
3.82
6700k_stock_082320171800
SE +/- 0.01, N = 5
4.88
6700k_4.6_082420170145
SE +/- 0.02, N = 5
5.00
7700k_stock_082420171000
SE +/- 0.02, N = 5
5.11
7700k_5GHz_082420171415
SE +/- 0.01, N = 5
5.02
2
4
6
8
10
1. (CC) gcc options: -openmp -O3 -lm

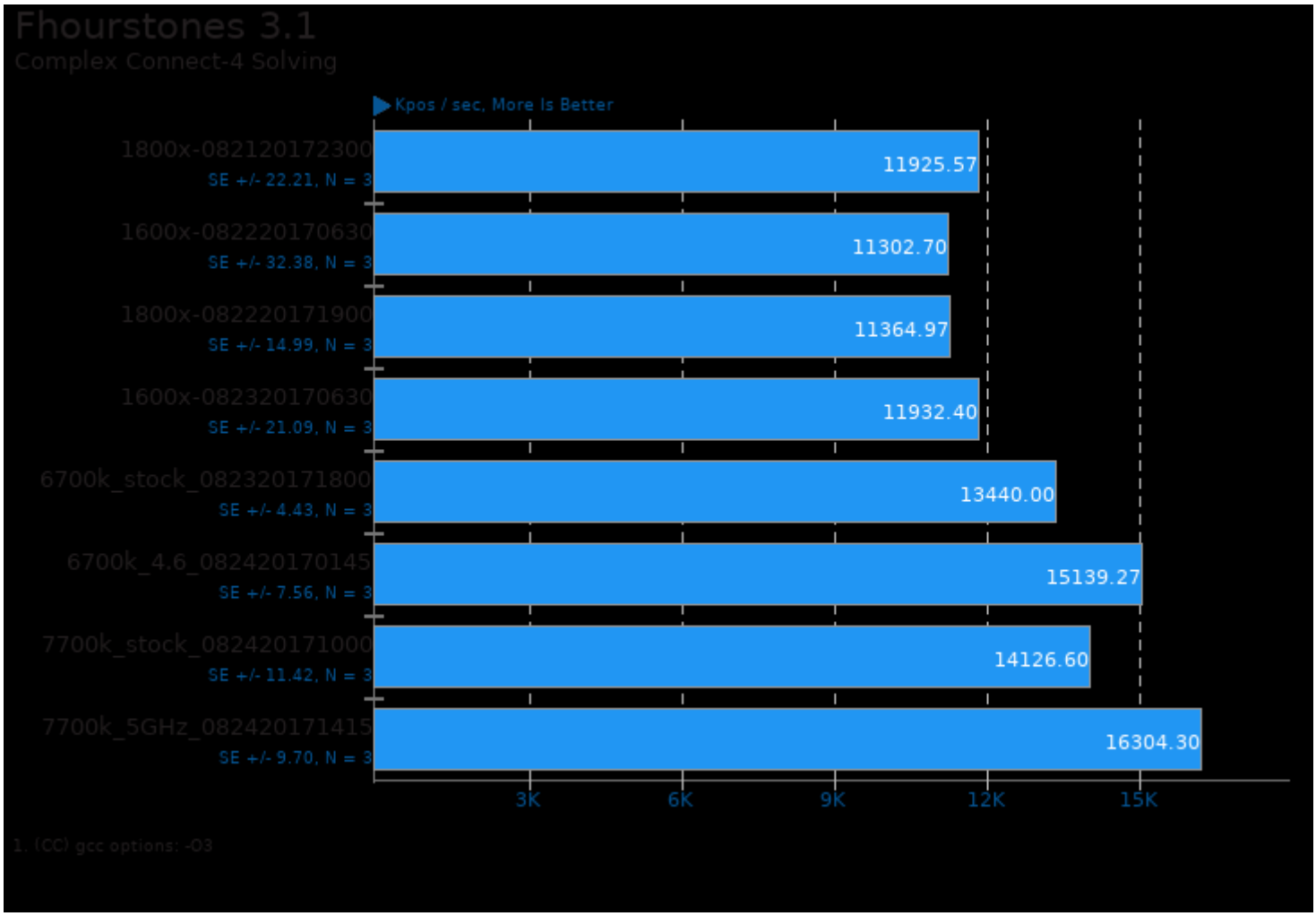

High Performance Conjugate Gradient 3.0
Phoronix Test Suite v5.2.1
1800x-082120172300
SE +/- 0.01, N = 3
0.93
1600x-082220170630
SE +/- 0.00, N = 3
0.78
1800x-082220171900
SE +/- 0.00, N = 3
0.77
1600x-082320170630
SE +/- 0.01, N = 3
0.93
6700k_stock_082320171800
SE +/- 0.01, N = 3
1.38
6700k_4.6_082420170145
SE +/- 0.01, N = 3
1.60
7700k_stock_082420171000
SE +/- 0.01, N = 3
1.42
7700k_5GHz_082420171415
SE +/- 0.07, N = 6
1.64
0.369
0.738
1.107
1.476
1.845

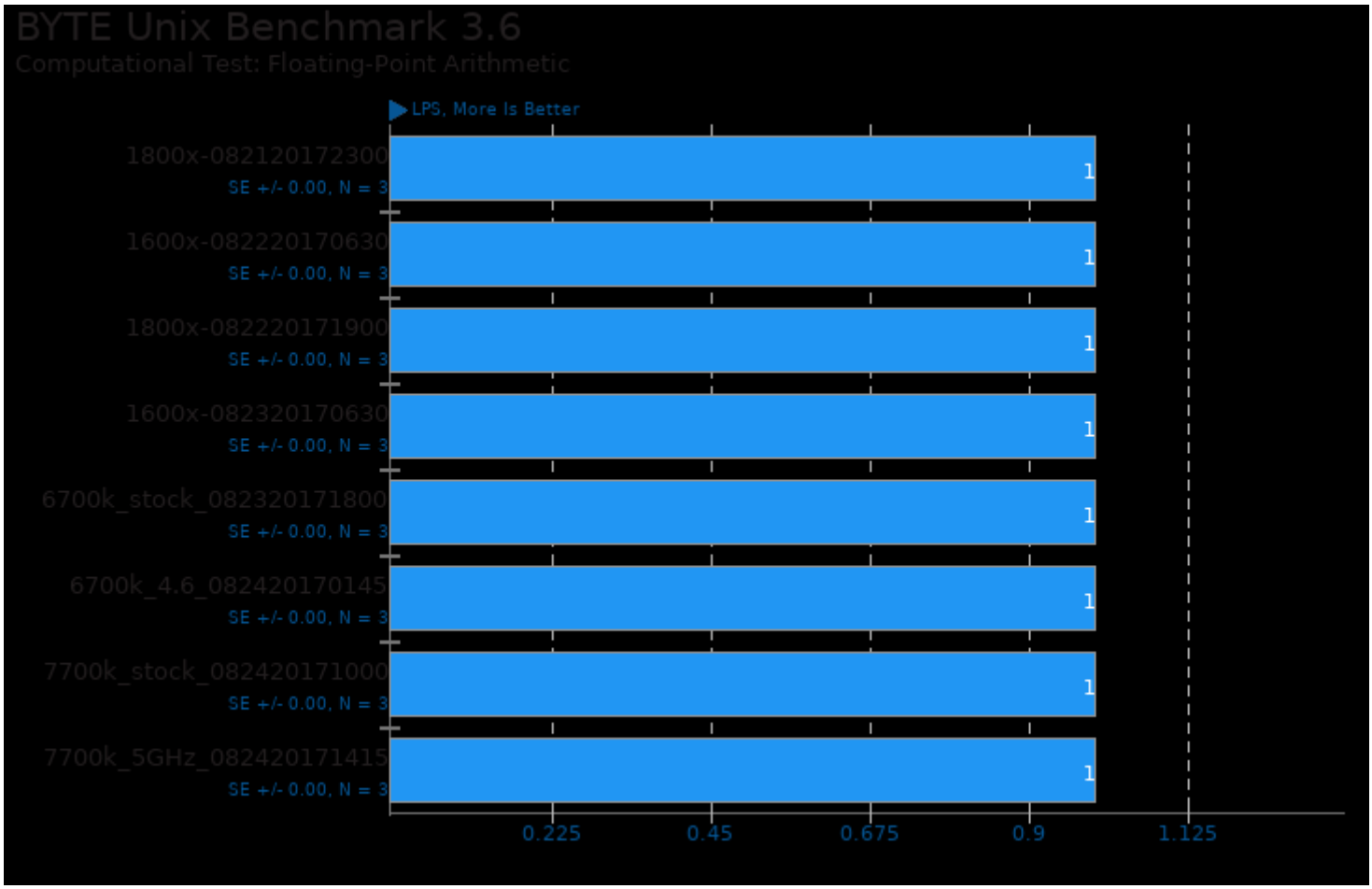

lzbench 2017-08-08
Test: XZ 0
MB/s, More Is Better
1800x-082120172300
SE +/- 0.58, N = 3
29
1600x-082220170630
SE +/- 0.00, N = 3
31
1800x-082220171900
SE +/- 0.33, N = 3
31
1600x-082320170630
SE +/- 0.33, N = 3
29
6700k_stock_082320171800
SE +/- 0.00, N = 3
37
6700k_4.6_082420170145
SE +/- 0.00, N = 3
41
7700k_stock_082420171000
SE +/- 0.00, N = 3
40
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
44
10
20
30
40
50
1. (CXX) g++ options: -lrt -static -lpthread -fomit-frame-pointer -fstrict-aliasing -ffast-math -O3

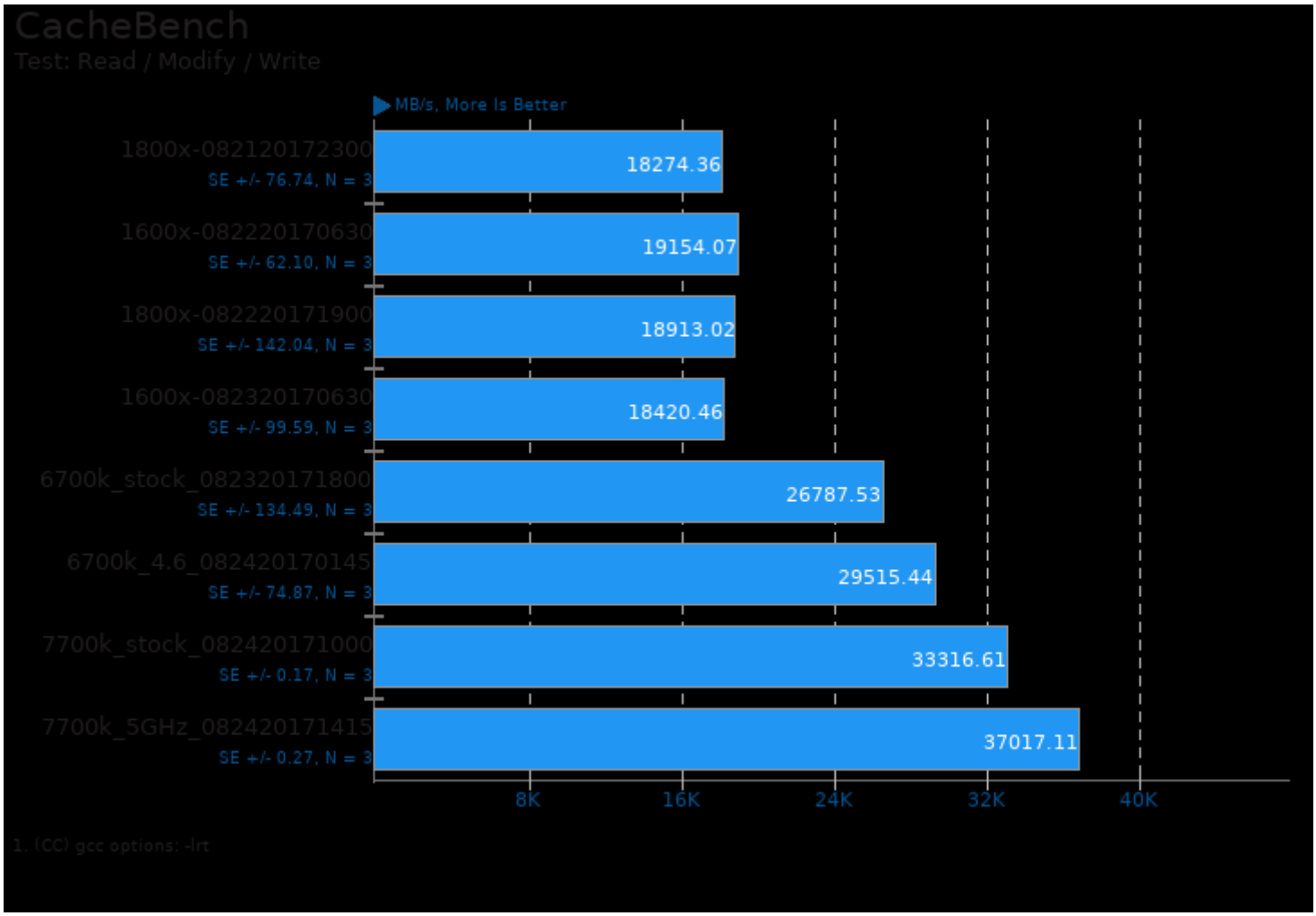

FFTW 3.3.6
Build: Stock - Size: 2D FFT Size 4096
Mflops, More Is Better
1800x-082120172300
SE +/- 18.13, N = 3
5546.20
1600x-082220170630
SE +/- 31.87, N = 3
5479.13
1800x-082220171900
SE +/- 30.45, N = 3
5538.70
1600x-082320170630
SE +/- 47.64, N = 3
5480.37
6700k_stock_082320171800
SE +/- 31.98, N = 3
5989.00
6700k_4.6_082420170145
SE +/- 53.13, N = 3
6585.87
7700k_stock_082420171000
SE +/- 16.04, N = 3
6361.03
7700k_5GHz_082420171415
SE +/- 39.26, N = 3
6798.23
1500
3000
4500
6000
7500
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

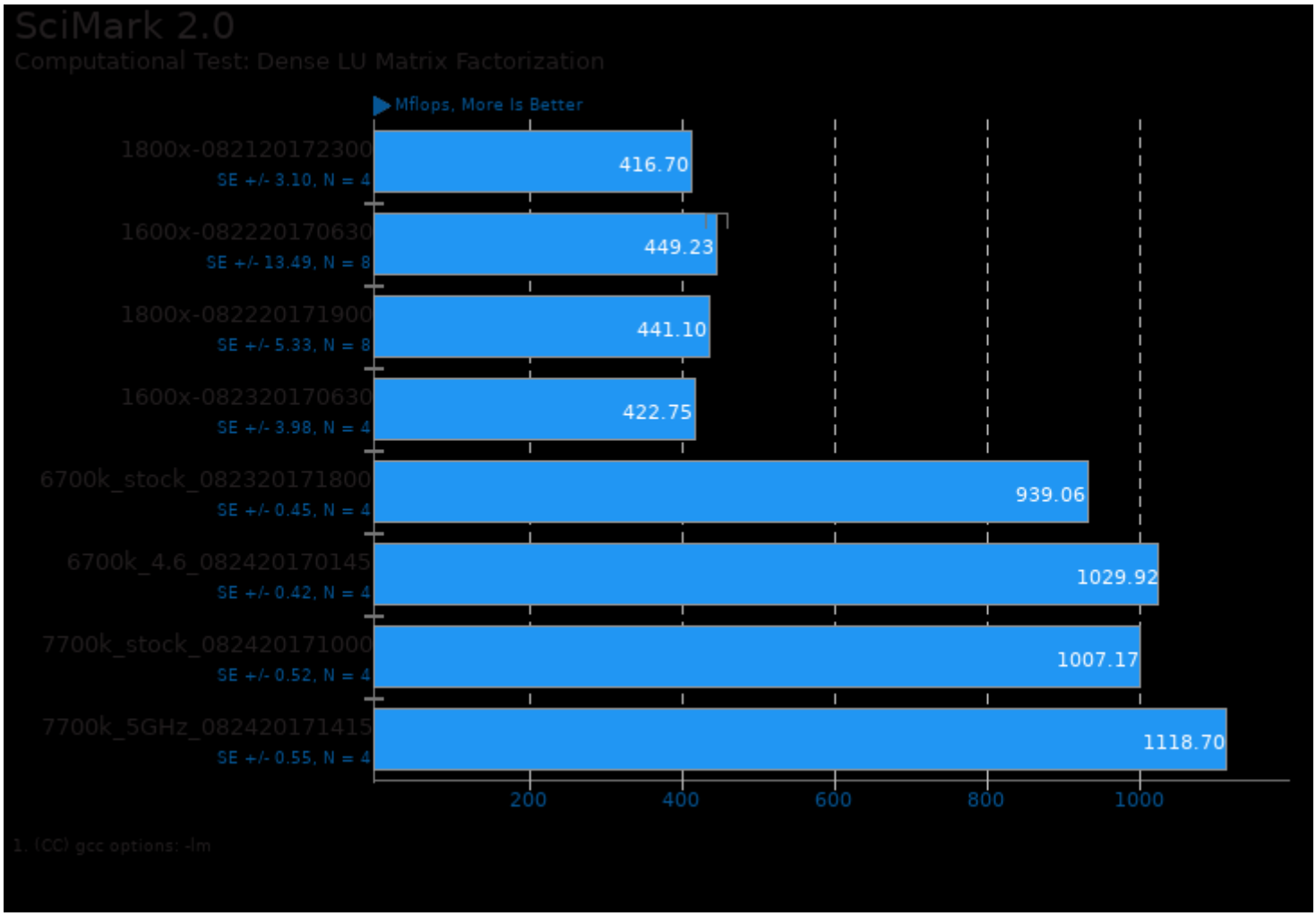

FFTW 3.3.6
Build: Float + SSE - Size: 2D FFT Size 4096
Mflops, More Is Better
1800x-082120172300
SE +/- 128.11, N = 3
14600
1600x-082220170630
SE +/- 115.19, N = 3
13789
1800x-082220171900
SE +/- 68.09, N = 3
13603
1600x-082320170630
SE +/- 109.69, N = 3
14775
6700k_stock_082320171800
SE +/- 237.93, N = 3
23038
6700k_4.6_082420170145
SE +/- 197.32, N = 3
25441
7700k_stock_082420171000
SE +/- 26.18, N = 3
23349
7700k_5GHz_082420171415
SE +/- 274.31, N = 3
25841
6K
12K
18K
24K
30K
1. (CC) gcc options: -pthread -O3 -fomit-frame-pointer -mtune=native -malign-double -fstrict-aliasing -fno-schedule-insns -ffast-math -lm

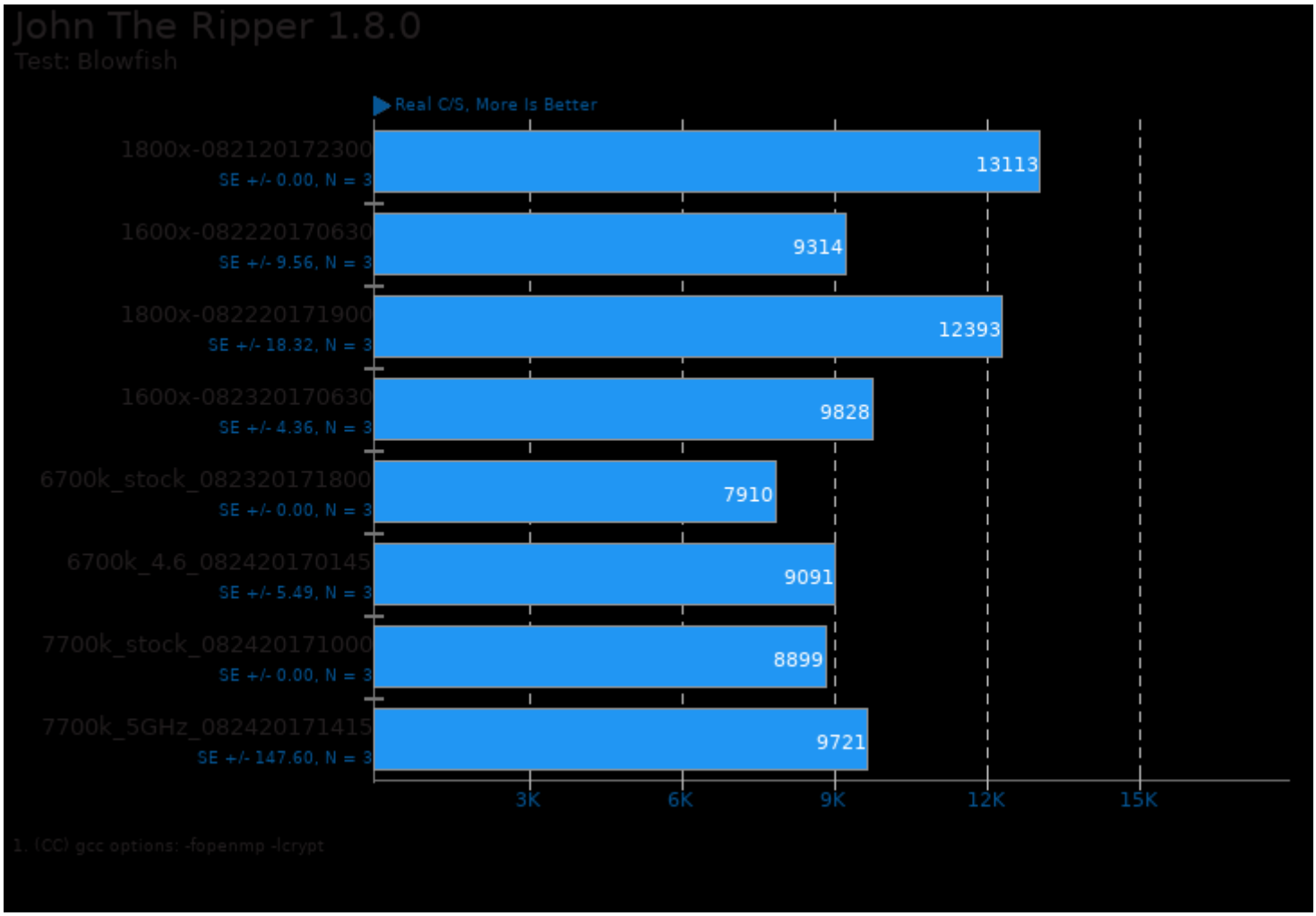

BLAKE2 20130131
Phoronix Test Suite v5.2.1
Cycles Per Byte, Fewer Is Better
1800x-082120172300
SE +/- 0.00, N = 3
10.26
1600x-082220170630
SE +/- 0.00, N = 3
9.00
1800x-082220171900
SE +/- 0.06, N = 3
9.12
1600x-082320170630
SE +/- 0.00, N = 3
10.26
6700k_stock_082320171800
SE +/- 0.00, N = 3
5.67
6700k_4.6_082420170145
SE +/- 0.00, N = 3
5.18
7700k_stock_082420171000
SE +/- 0.00, N = 3
5.53
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
4.98
3
6
9
12
15
1. (CC) gcc options: -std=gnu99 -O3 -march=native -lcrypto -lz

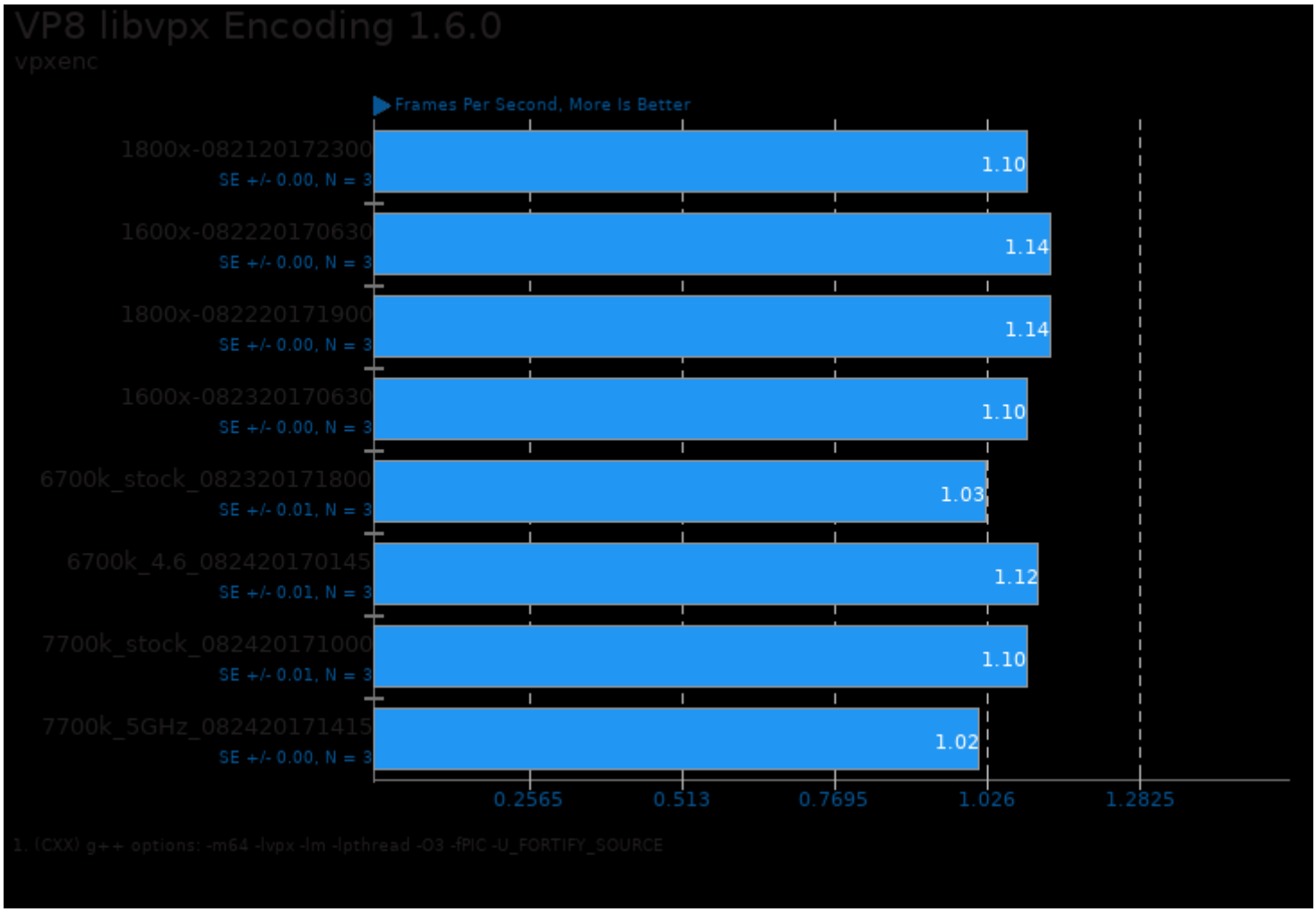

Fhourstones 3.1
Complex Connect-4 Solving
Kpos / sec, More Is Better
1800x-082120172300
SE +/- 22.21, N = 3
11925.57
1600x-082220170630
SE +/- 32.38, N = 3
11302.70
1800x-082220171900
SE +/- 14.99, N = 3
11364.97
1600x-082320170630
SE +/- 21.09, N = 3
11932.40
6700k_stock_082320171800
SE +/- 4.43, N = 3
13440.00
6700k_4.6_082420170145
SE +/- 7.56, N = 3
15139.27
7700k_stock_082420171000
SE +/- 11.42, N = 3
14126.60
7700k_5GHz_082420171415
SE +/- 9.70, N = 3
16304.30
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3

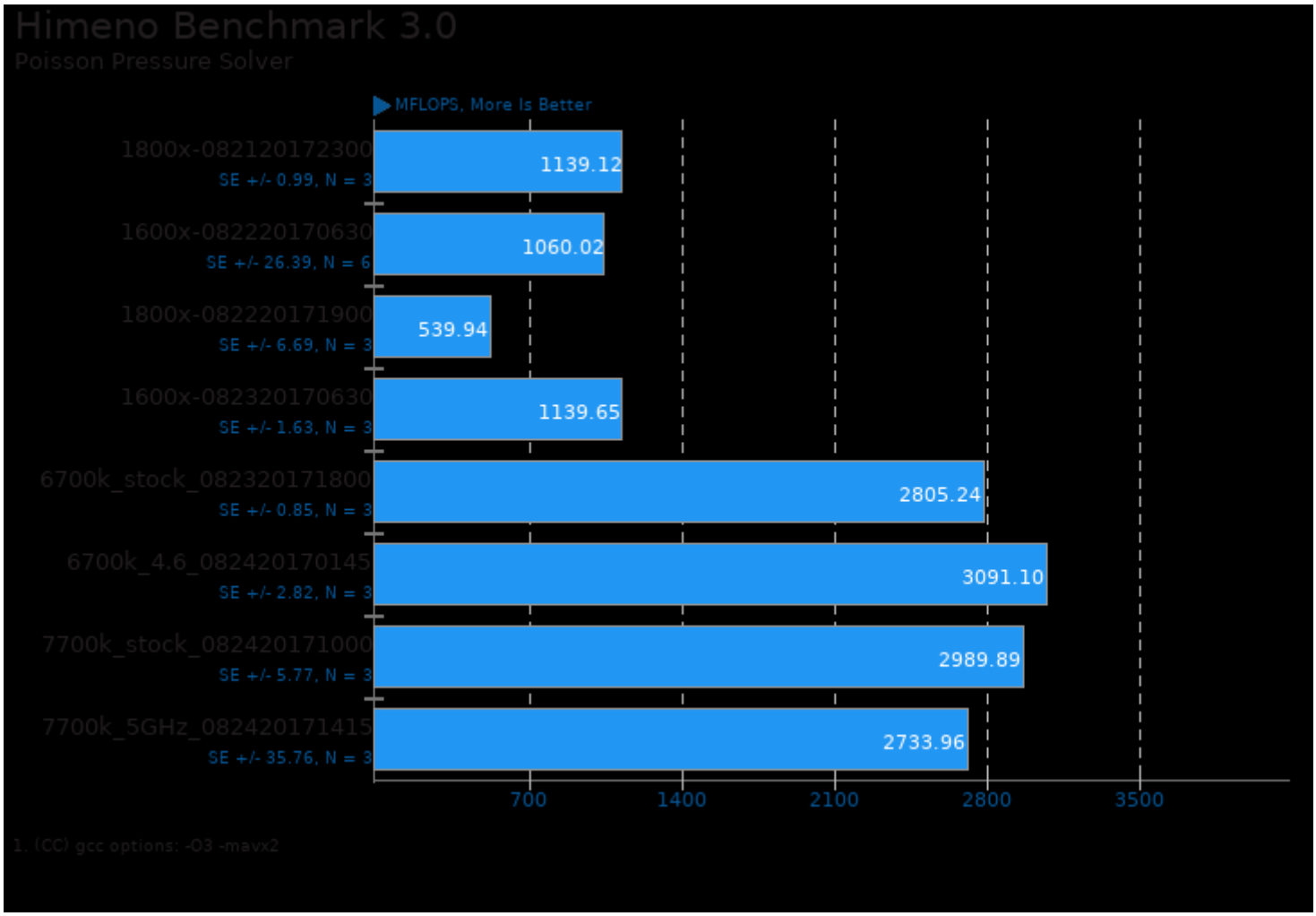

BYTE Unix Benchmark 3.6
Computational Test: Floating-Point Arithmetic
LPS, More Is Better
1800x-082120172300
SE +/- 0.00, N = 3
1600x-082220170630
SE +/- 0.00, N = 3
1800x-082220171900
SE +/- 0.00, N = 3
1600x-082320170630
SE +/- 0.00, N = 3
6700k_stock_082320171800
SE +/- 0.00, N = 3
6700k_4.6_082420170145
SE +/- 0.00, N = 3
7700k_stock_082420171000
SE +/- 0.00, N = 3
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
1
0.225
0.45
0.675
0.9
1.125

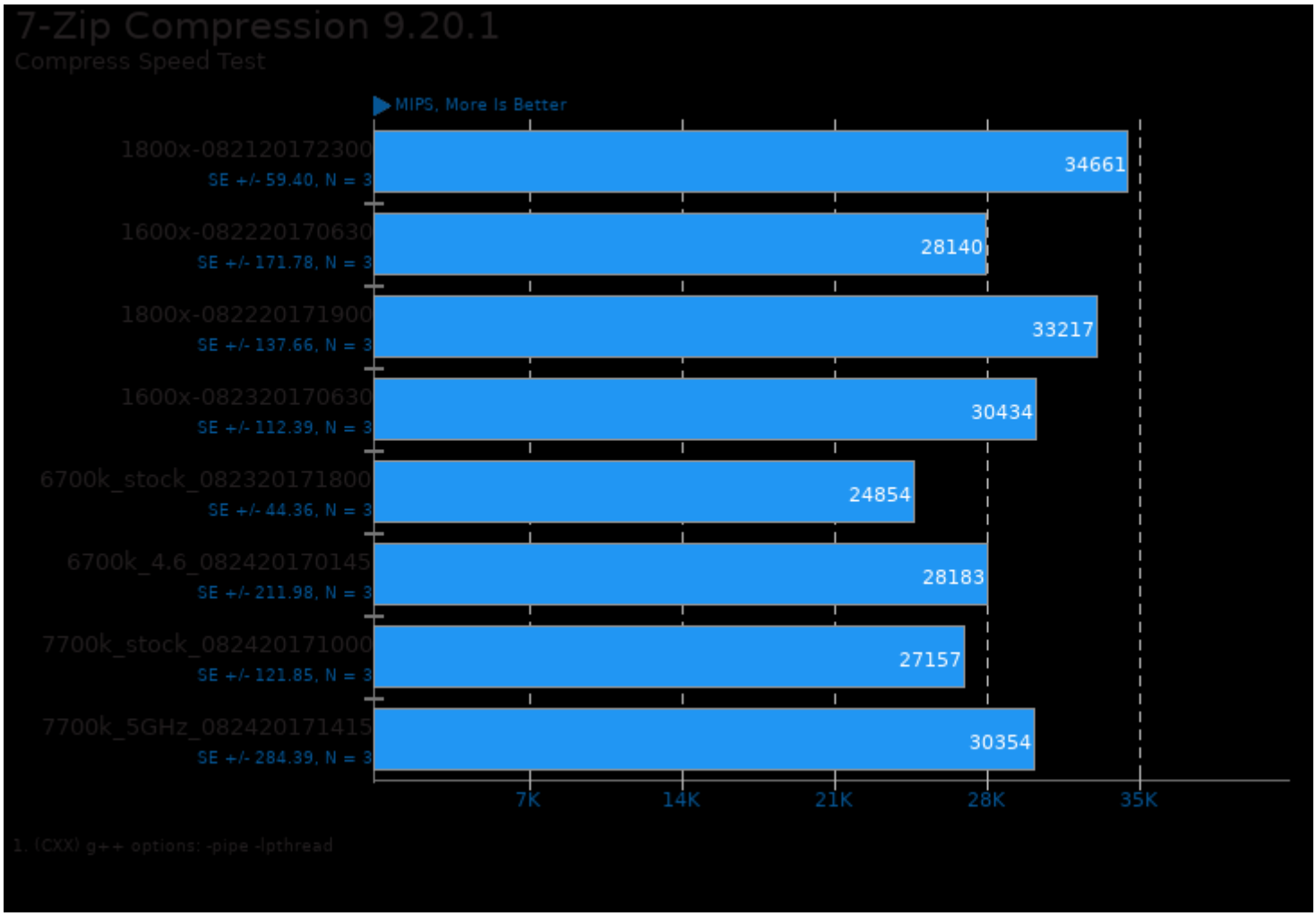

CacheBench
Test: Read / Modify / Write
MB/s, More Is Better
1800x-082120172300
SE +/- 76.74, N = 3
18274.36
1600x-082220170630
SE +/- 62.10, N = 3
19154.07
1800x-082220171900
SE +/- 142.04, N = 3
18913.02
1600x-082320170630
SE +/- 99.59, N = 3
18420.46
6700k_stock_082320171800
SE +/- 134.49, N = 3
26787.53
6700k_4.6_082420170145
SE +/- 74.87, N = 3
29515.44
7700k_stock_082420171000
SE +/- 0.17, N = 3
33316.61
7700k_5GHz_082420171415
SE +/- 0.27, N = 3
37017.11
8K
16K
24K
32K
40K
1. (CC) gcc options: -lrt

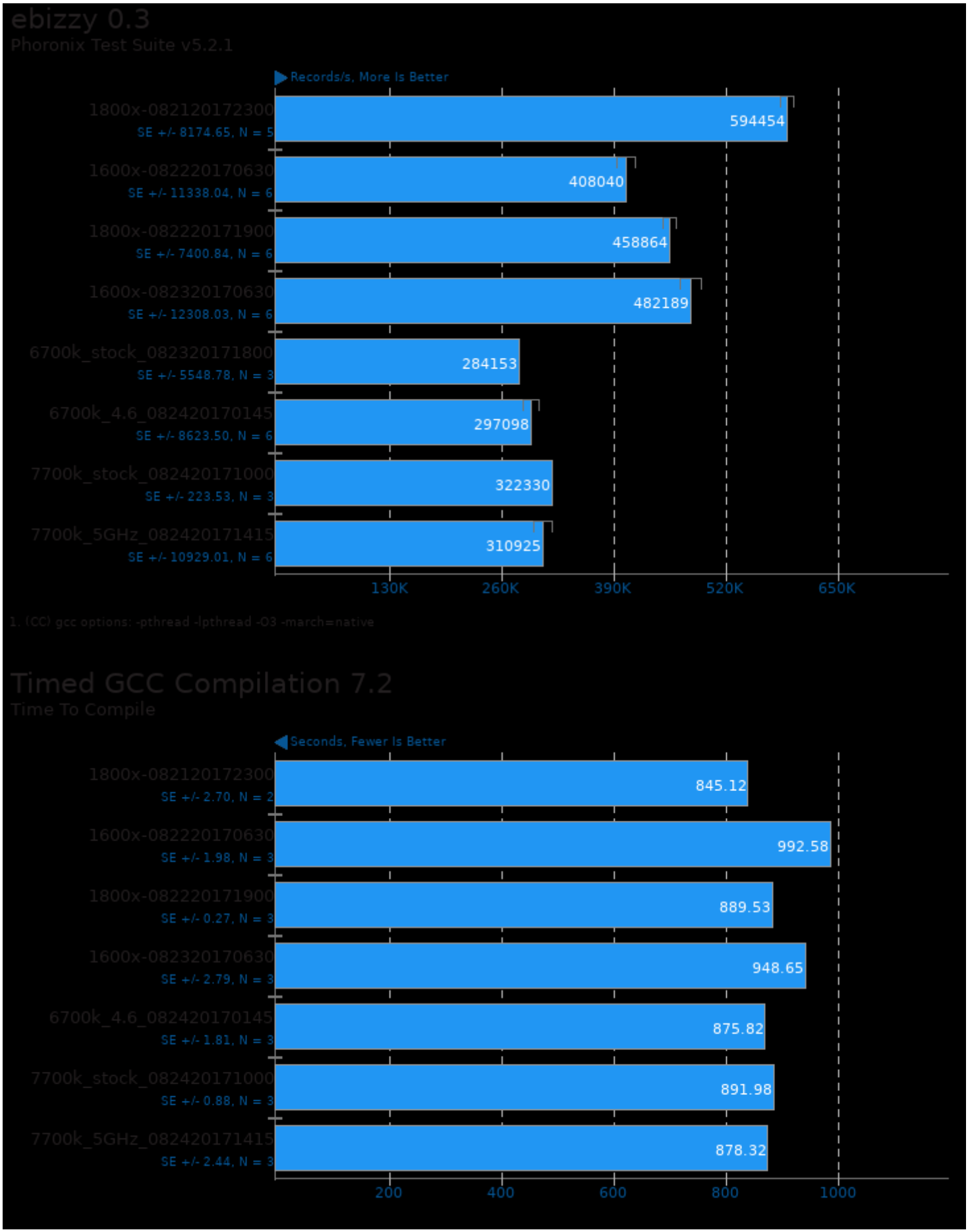

SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
1800x-082120172300
SE +/- 3.10, N = 4
416.70
1600x-082220170630
SE +/- 13.49, N = 8
449.23
1800x-082220171900
SE +/- 5.33, N = 8
441.10
1600x-082320170630
SE +/- 3.98, N = 4
422.75
6700k_stock_082320171800
SE +/- 0.45, N = 4
939.06
6700k_4.6_082420170145
SE +/- 0.42, N = 4
1029.92
7700k_stock_082420171000
SE +/- 0.52, N = 4
1007.17
7700k_5GHz_082420171415
SE +/- 0.55, N = 4
1118.70
200
400
600
800
1000
1. (CC) gcc options: -lm

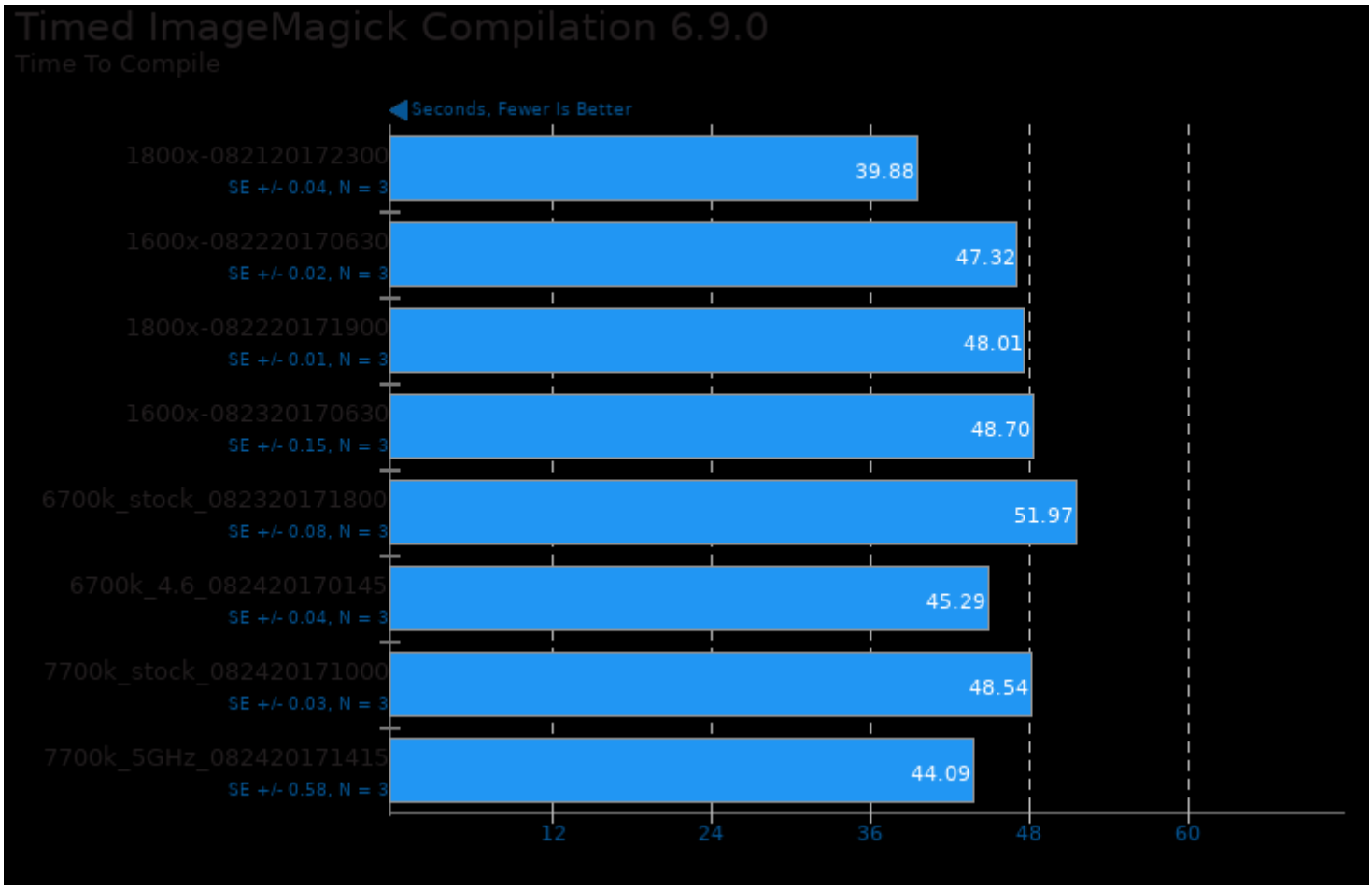

John The Ripper 1.8.0
Test: Blowfish
Real C/S, More Is Better
1800x-082120172300
SE +/- 0.00, N = 3
13113
1600x-082220170630
SE +/- 9.56, N = 3
9314
1800x-082220171900
SE +/- 18.32, N = 3
12393
1600x-082320170630
SE +/- 4.36, N = 3
9828
6700k_stock_082320171800
SE +/- 0.00, N = 3
7910
6700k_4.6_082420170145
SE +/- 5.49, N = 3
9091
7700k_stock_082420171000
SE +/- 0.00, N = 3
8899
7700k_5GHz_082420171415
SE +/- 147.60, N = 3
9721
3K
6K
9K
12K
15K
1. (CC) gcc options: -fopenmp -lcrypt

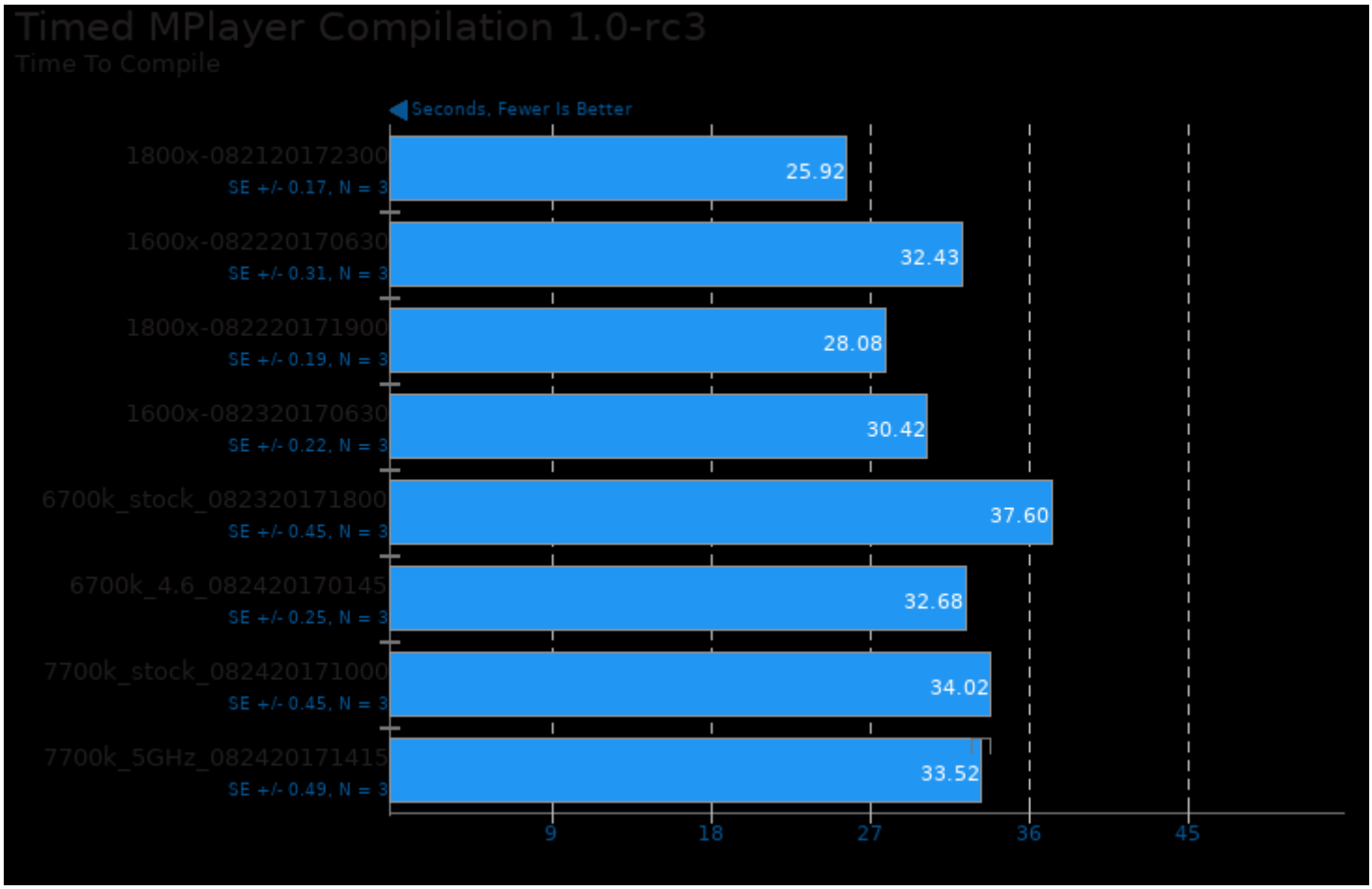

VP8 libvpx Encoding 1.6.0
vpxenc
Frames Per Second, More Is Better
1800x-082120172300
SE +/- 0.00, N = 3
1.10
1600x-082220170630
SE +/- 0.00, N = 3
1.14
1800x-082220171900
SE +/- 0.00, N = 3
1.14
1600x-082320170630
SE +/- 0.00, N = 3
1.10
6700k_stock_082320171800
SE +/- 0.01, N = 3
1.03
6700k_4.6_082420170145
SE +/- 0.01, N = 3
1.12
7700k_stock_082420171000
SE +/- 0.01, N = 3
1.10
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
1.02
0.2565
0.513
0.7695
1.026
1.2825
1. (CXX) g++ options: -m64 -lvpx -lm -lpthread -O3 -fPIC -U_FORTIFY_SOURCE

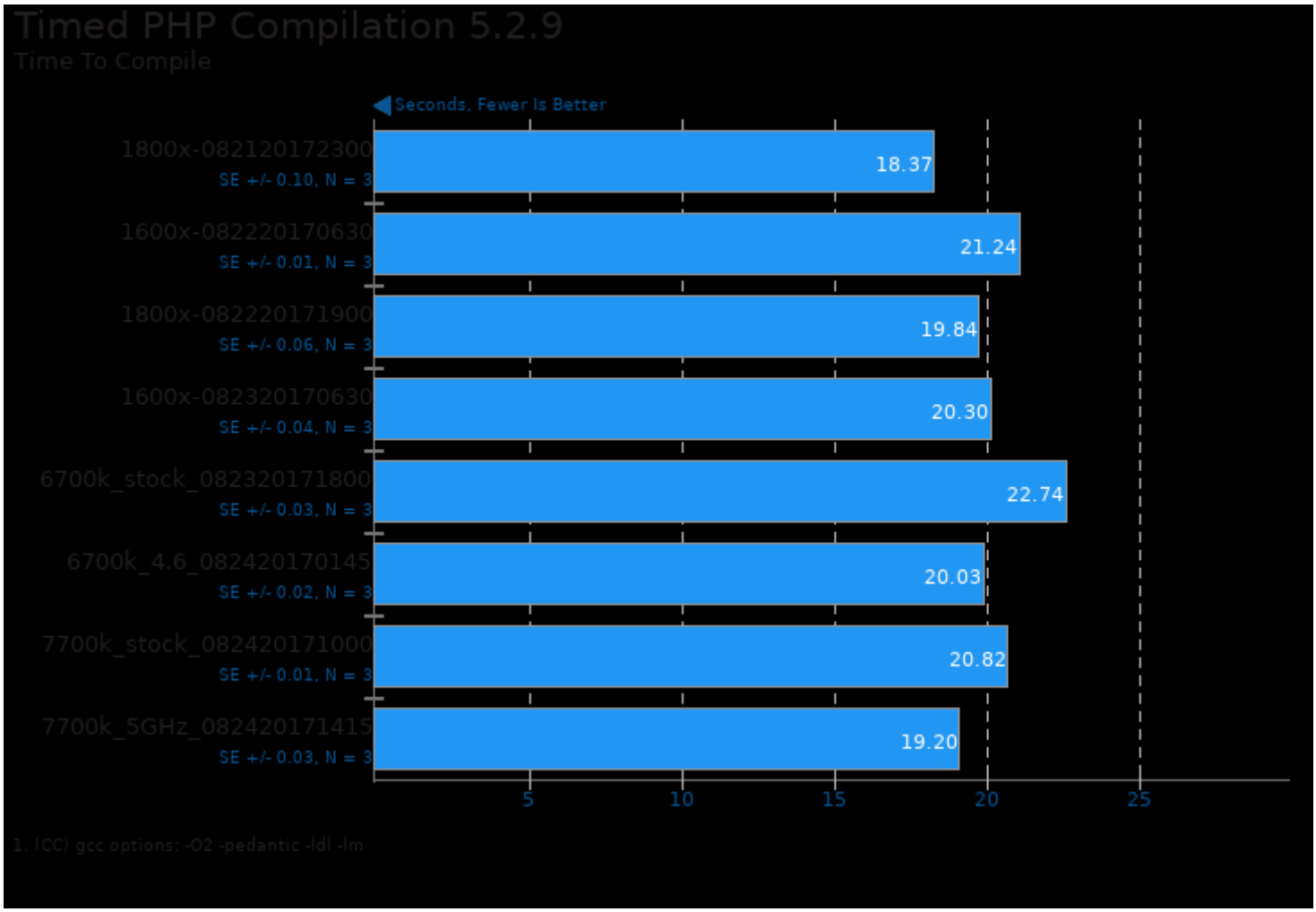

Himeno Benchmark 3.0
Poisson Pressure Solver
MFLOPS, More Is Better
1800x-082120172300
SE +/- 0.99, N = 3
1139.12
1600x-082220170630
SE +/- 26.39, N = 6
1060.02
1800x-082220171900
SE +/- 6.69, N = 3
539.94
1600x-082320170630
SE +/- 1.63, N = 3
1139.65
6700k_stock_082320171800
SE +/- 0.85, N = 3
2805.24
6700k_4.6_082420170145
SE +/- 2.82, N = 3
3091.10
7700k_stock_082420171000
SE +/- 5.77, N = 3
2989.89
7700k_5GHz_082420171415
SE +/- 35.76, N = 3
2733.96
700
1400
2100
2800
3500
1. (CC) gcc options: -O3 -mavx2

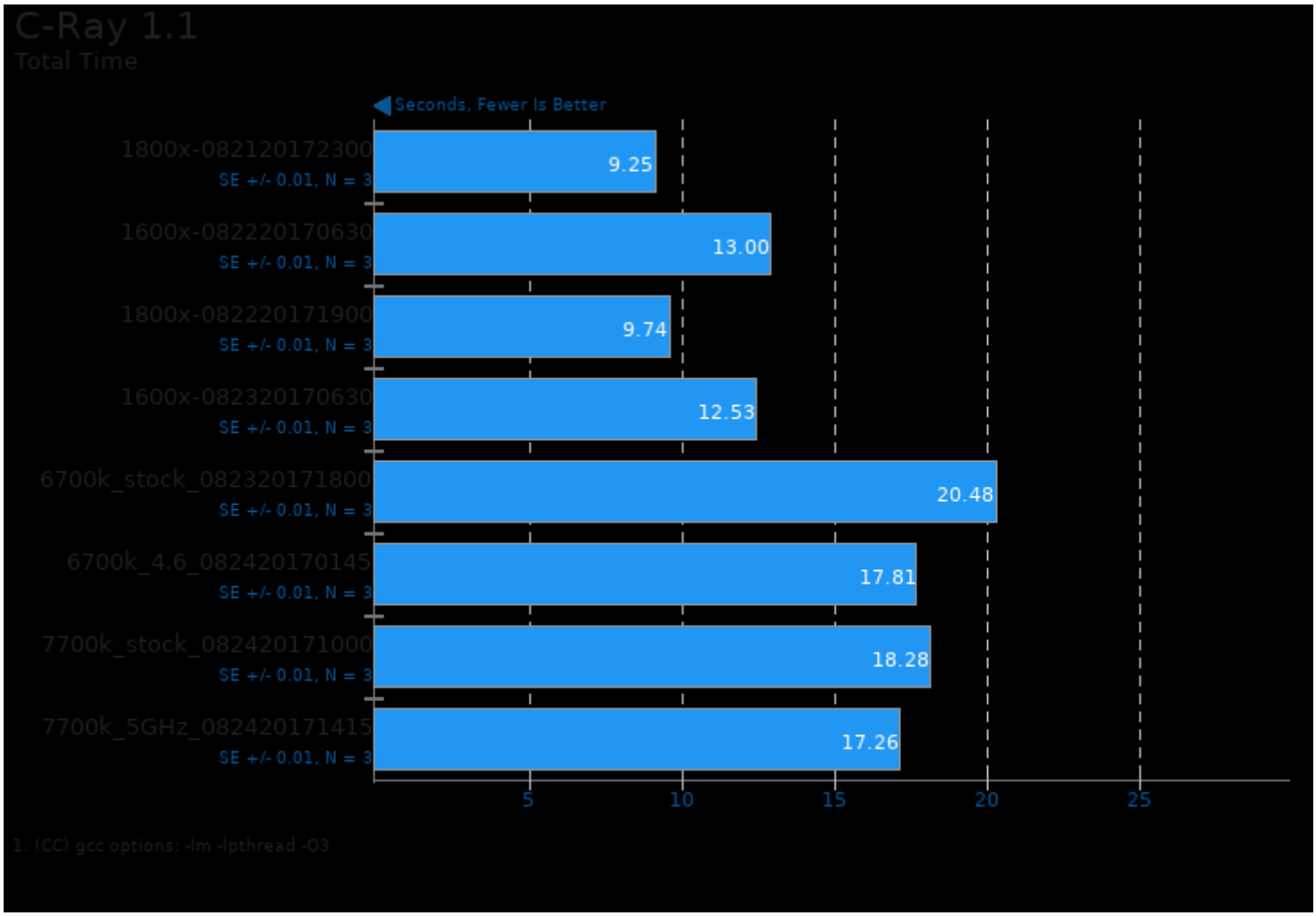

7-Zip Compression 9.20.1
Compress Speed Test
MIPS, More Is Better
1800x-082120172300
SE +/- 59.40, N = 3
34661
1600x-082220170630
SE +/- 171.78, N = 3
28140
1800x-082220171900
SE +/- 137.66, N = 3
33217
1600x-082320170630
SE +/- 112.39, N = 3
30434
6700k_stock_082320171800
SE +/- 44.36, N = 3
24854
6700k_4.6_082420170145
SE +/- 211.98, N = 3
28183
7700k_stock_082420171000
SE +/- 121.85, N = 3
27157
7700k_5GHz_082420171415
SE +/- 284.39, N = 3
30354
7K
14K
21K
28K
35K
1. (CXX) g++ options: -pipe -lpthread

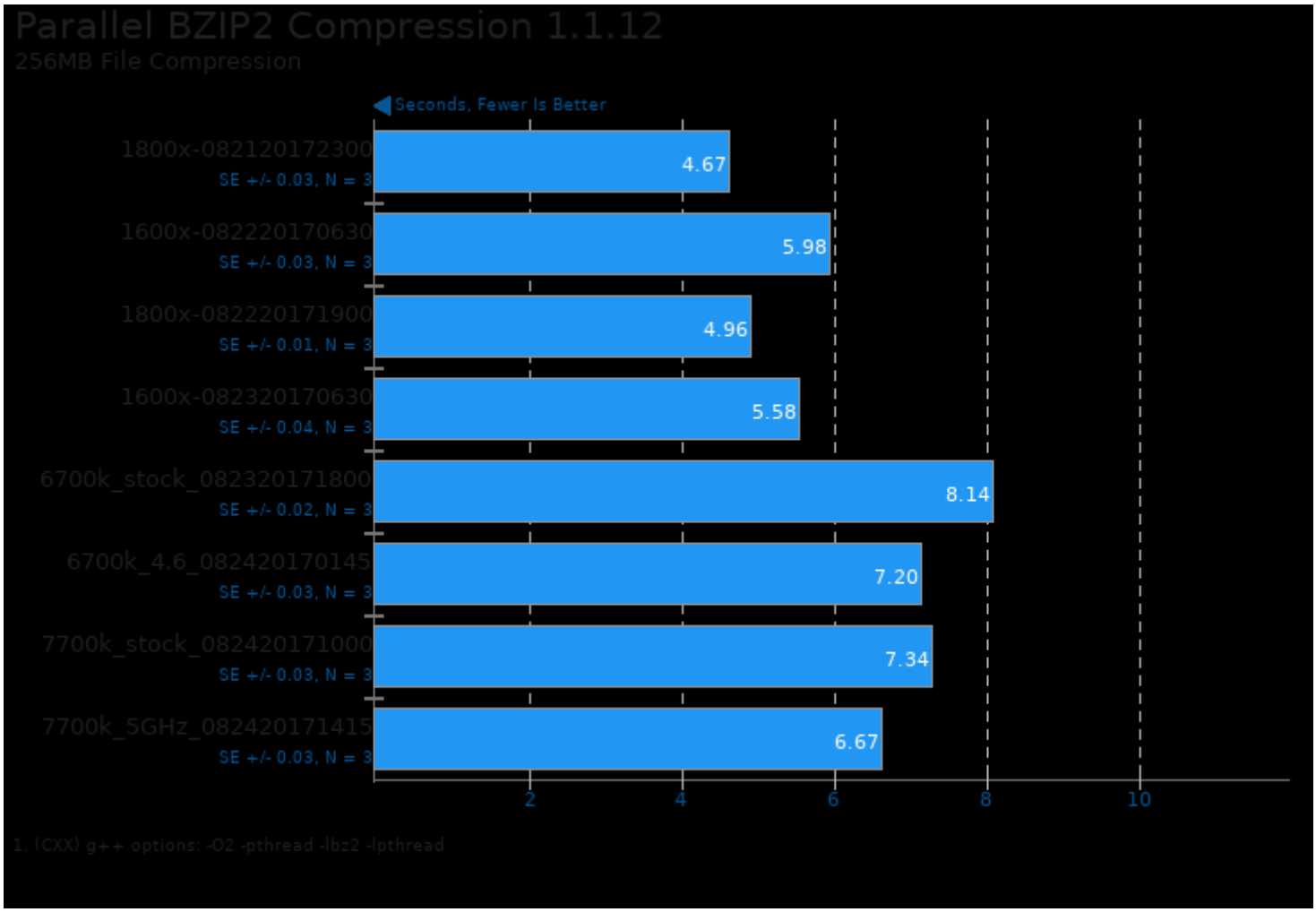

ebizzy 0.3
Phoronix Test Suite v5.2.1
Records/s, More Is Better
1800x-082120172300
SE +/- 8174.65, N = 5
594454
1600x-082220170630
SE +/- 11338.04, N = 6
408040
1800x-082220171900
SE +/- 7400.84, N = 6
458864
1600x-082320170630
SE +/- 12308.03, N = 6
482189
6700k_stock_082320171800
SE +/- 5548.78, N = 3
284153
6700k_4.6_082420170145
SE +/- 8623.50, N = 6
297098
7700k_stock_082420171000
SE +/- 223.53, N = 3
322330
7700k_5GHz_082420171415
SE +/- 10929.01, N = 6
310925
130K
260K
390K
520K
650K
1. (CC) gcc options: -pthread -lpthread -O3 -march=native
Timed GCC Compilation 7.2
Time To Compile
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 2.70, N = 2
845.12
1600x-082220170630
SE +/- 1.98, N = 3
992.58
1800x-082220171900
SE +/- 0.27, N = 3
889.53
1600x-082320170630
SE +/- 2.79, N = 3
948.65
6700k_4.6_082420170145
SE +/- 1.81, N = 3
875.82
7700k_stock_082420171000
SE +/- 0.88, N = 3
891.98
7700k_5GHz_082420171415
SE +/- 2.44, N = 3
878.32
200
400
600
800
1000

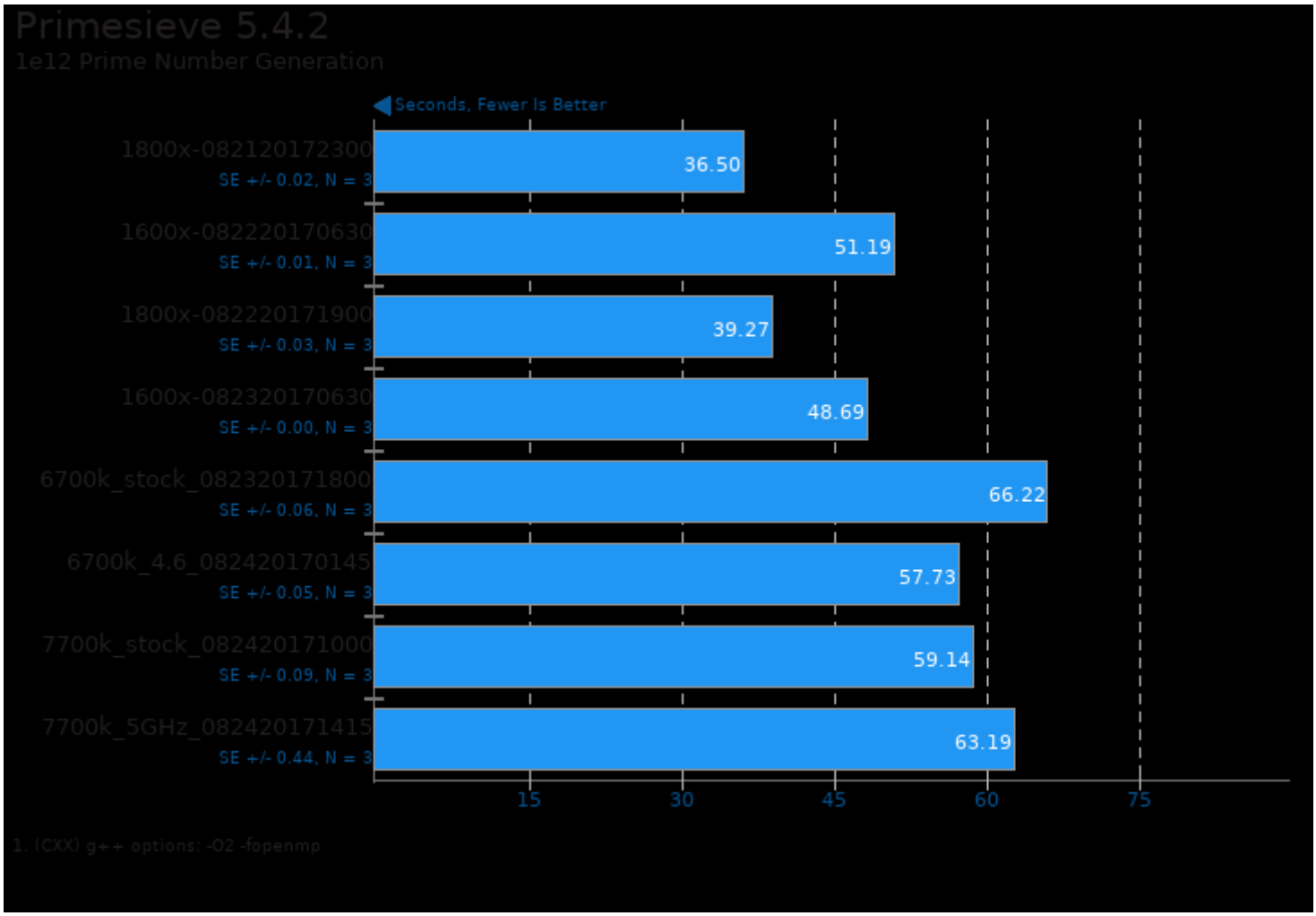

Timed ImageMagick Compilation 6.9.0
Time To Compile
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.04, N = 3
39.88
1600x-082220170630
SE +/- 0.02, N = 3
47.32
1800x-082220171900
SE +/- 0.01, N = 3
48.01
1600x-082320170630
SE +/- 0.15, N = 3
48.70
6700k_stock_082320171800
SE +/- 0.08, N = 3
51.97
6700k_4.6_082420170145
SE +/- 0.04, N = 3
45.29
7700k_stock_082420171000
SE +/- 0.03, N = 3
48.54
7700k_5GHz_082420171415
SE +/- 0.58, N = 3
44.09
12
24
36
48
60

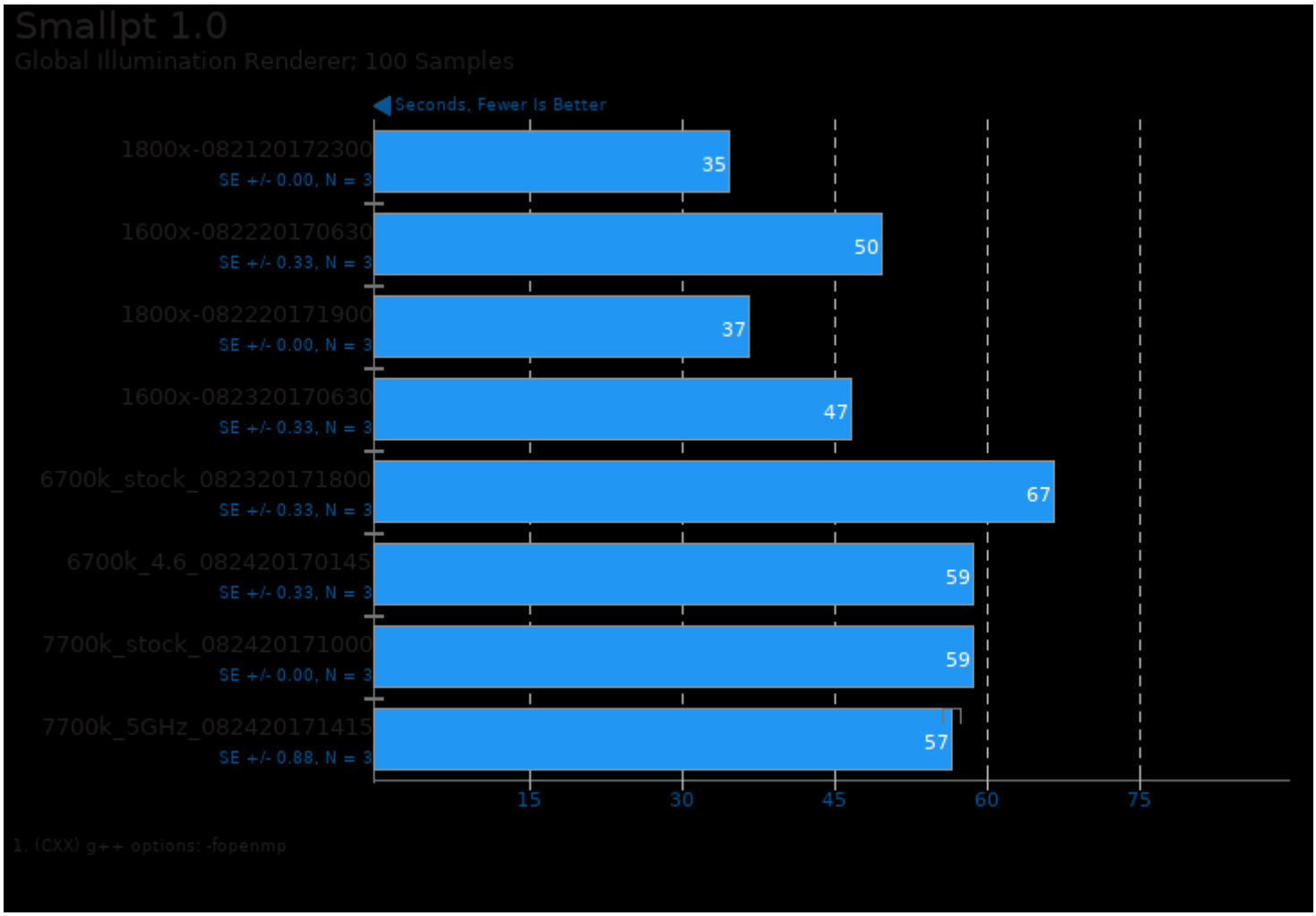

Timed MPlayer Compilation 1.0-rc3
Time To Compile
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.17, N = 3
25.92
1600x-082220170630
SE +/- 0.31, N = 3
32.43
1800x-082220171900
SE +/- 0.19, N = 3
28.08
1600x-082320170630
SE +/- 0.22, N = 3
30.42
6700k_stock_082320171800
SE +/- 0.45, N = 3
37.60
6700k_4.6_082420170145
SE +/- 0.25, N = 3
32.68
7700k_stock_082420171000
SE +/- 0.45, N = 3
34.02
7700k_5GHz_082420171415
SE +/- 0.49, N = 3
33.52
9
18
27
36
45

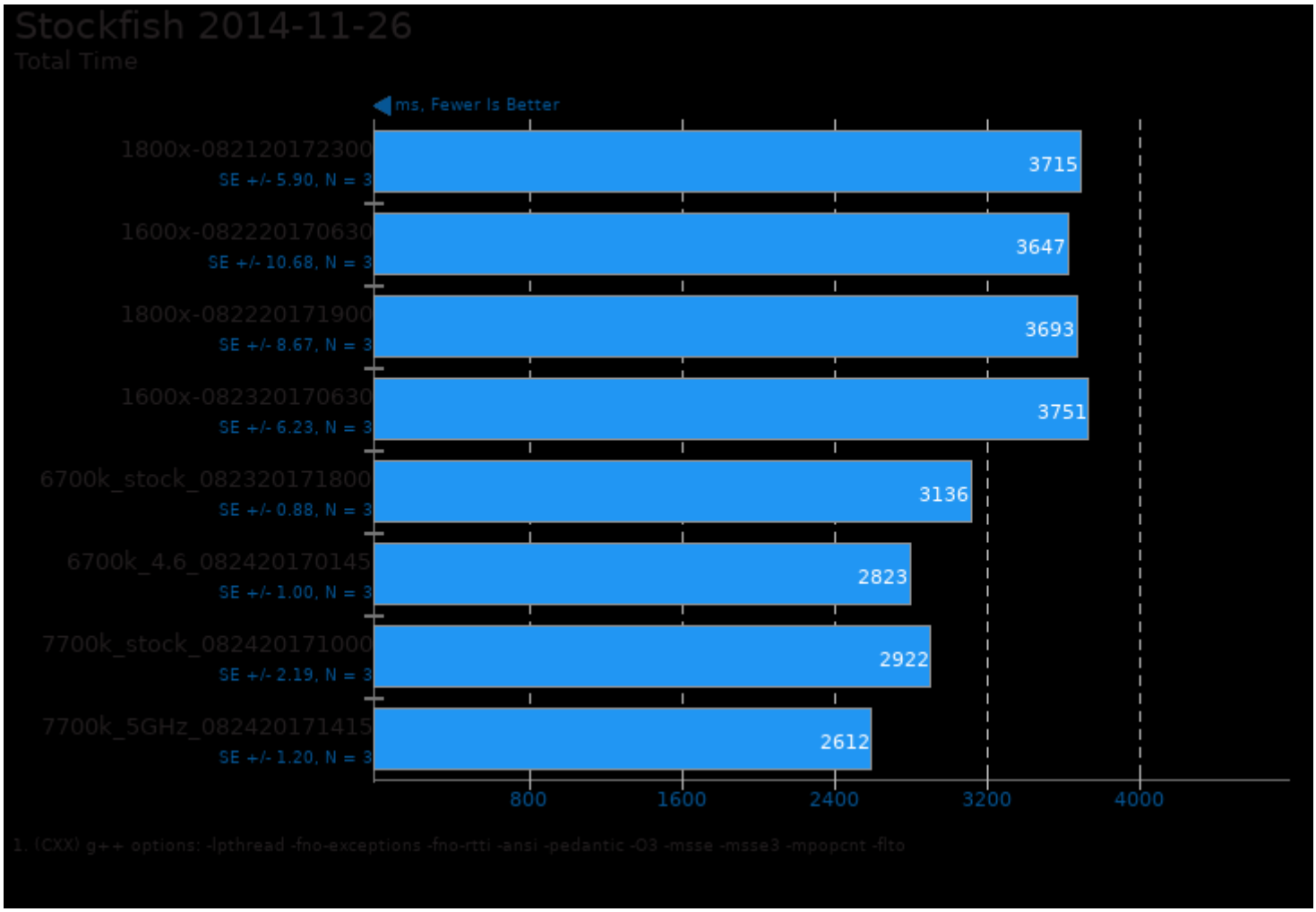

Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.10, N = 3
18.37
1600x-082220170630
SE +/- 0.01, N = 3
21.24
1800x-082220171900
SE +/- 0.06, N = 3
19.84
1600x-082320170630
SE +/- 0.04, N = 3
20.30
6700k_stock_082320171800
SE +/- 0.03, N = 3
22.74
6700k_4.6_082420170145
SE +/- 0.02, N = 3
20.03
7700k_stock_082420171000
SE +/- 0.01, N = 3
20.82
7700k_5GHz_082420171415
SE +/- 0.03, N = 3
19.20
5
10
15
20
25
1. (CC) gcc options: -O2 -pedantic -ldl -lm

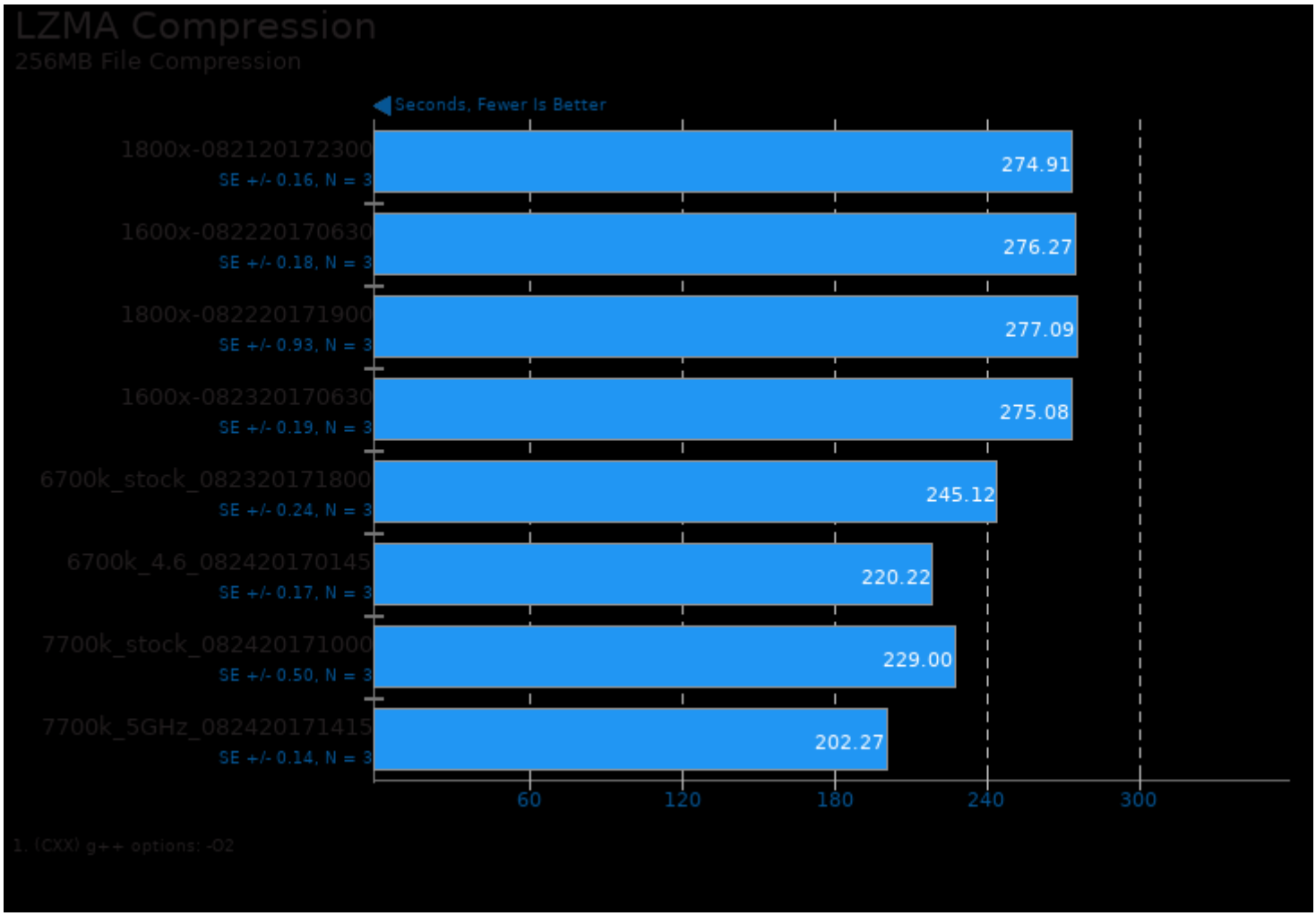

C-Ray 1.1
Total Time
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.01, N = 3
9.25
1600x-082220170630
SE +/- 0.01, N = 3
13.00
1800x-082220171900
SE +/- 0.01, N = 3
9.74
1600x-082320170630
SE +/- 0.01, N = 3
12.53
6700k_stock_082320171800
SE +/- 0.01, N = 3
20.48
6700k_4.6_082420170145
SE +/- 0.01, N = 3
17.81
7700k_stock_082420171000
SE +/- 0.01, N = 3
18.28
7700k_5GHz_082420171415
SE +/- 0.01, N = 3
17.26
5
10
15
20
25
1. (CC) gcc options: -lm -lpthread -O3

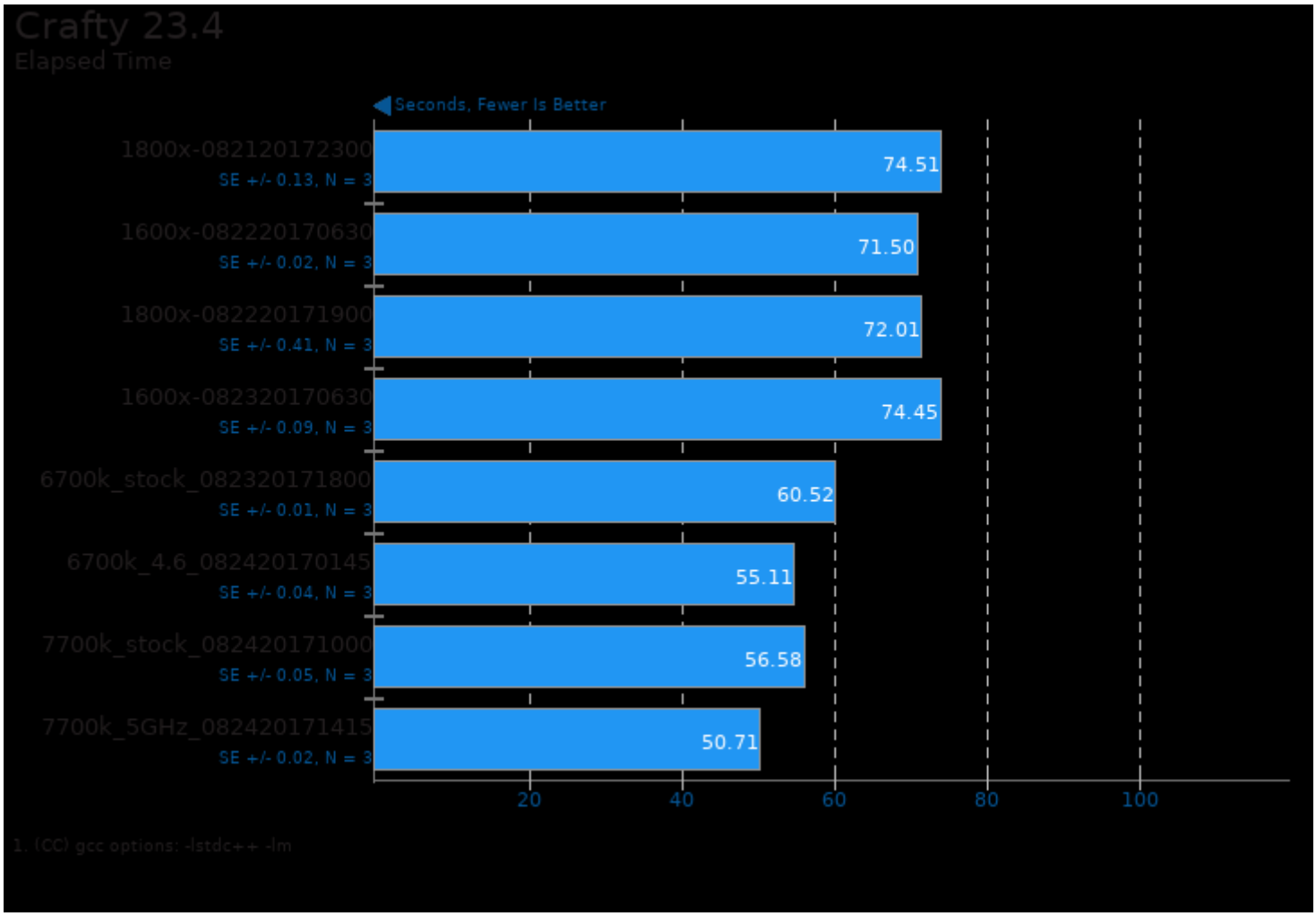

Parallel BZIP2 Compression 1.1.12
256MB File Compression
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.03, N = 3
4.67
1600x-082220170630
SE +/- 0.03, N = 3
5.98
1800x-082220171900
SE +/- 0.01, N = 3
4.96
1600x-082320170630
SE +/- 0.04, N = 3
5.58
6700k_stock_082320171800
SE +/- 0.02, N = 3
8.14
6700k_4.6_082420170145
SE +/- 0.03, N = 3
7.20
7700k_stock_082420171000
SE +/- 0.03, N = 3
7.34
7700k_5GHz_082420171415
SE +/- 0.03, N = 3
6.67
2
4
6
8
10
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

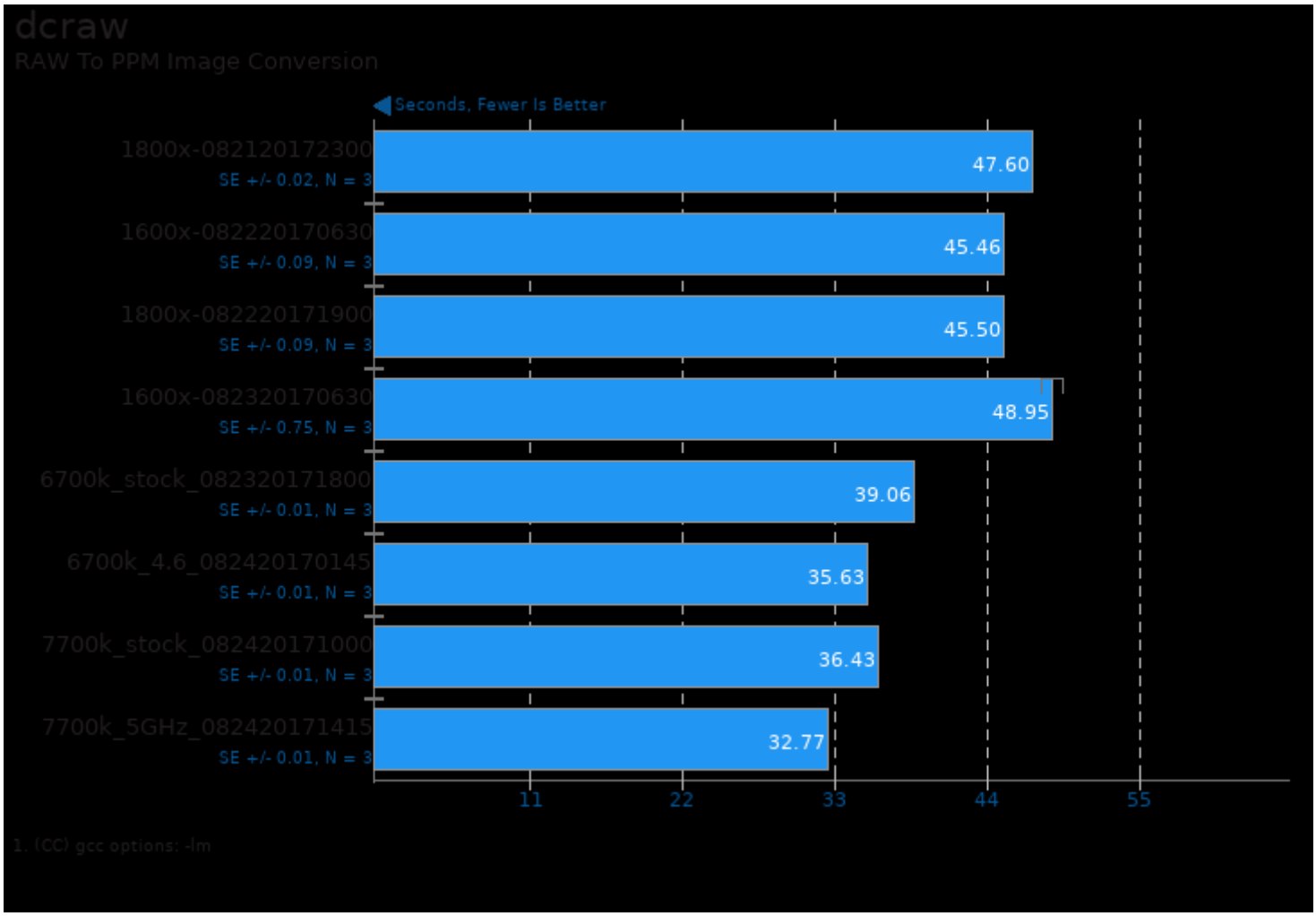

Primesieve 5.4.2
1e12 Prime Number Generation
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.02, N = 3
36.50
1600x-082220170630
SE +/- 0.01, N = 3
51.19
1800x-082220171900
SE +/- 0.03, N = 3
39.27
1600x-082320170630
SE +/- 0.00, N = 3
48.69
6700k_stock_082320171800
SE +/- 0.06, N = 3
66.22
6700k_4.6_082420170145
SE +/- 0.05, N = 3
57.73
7700k_stock_082420171000
SE +/- 0.09, N = 3
59.14
7700k_5GHz_082420171415
SE +/- 0.44, N = 3
63.19
15
30
45
60
75
1. (CXX) g++ options: -O2 -fopenmp

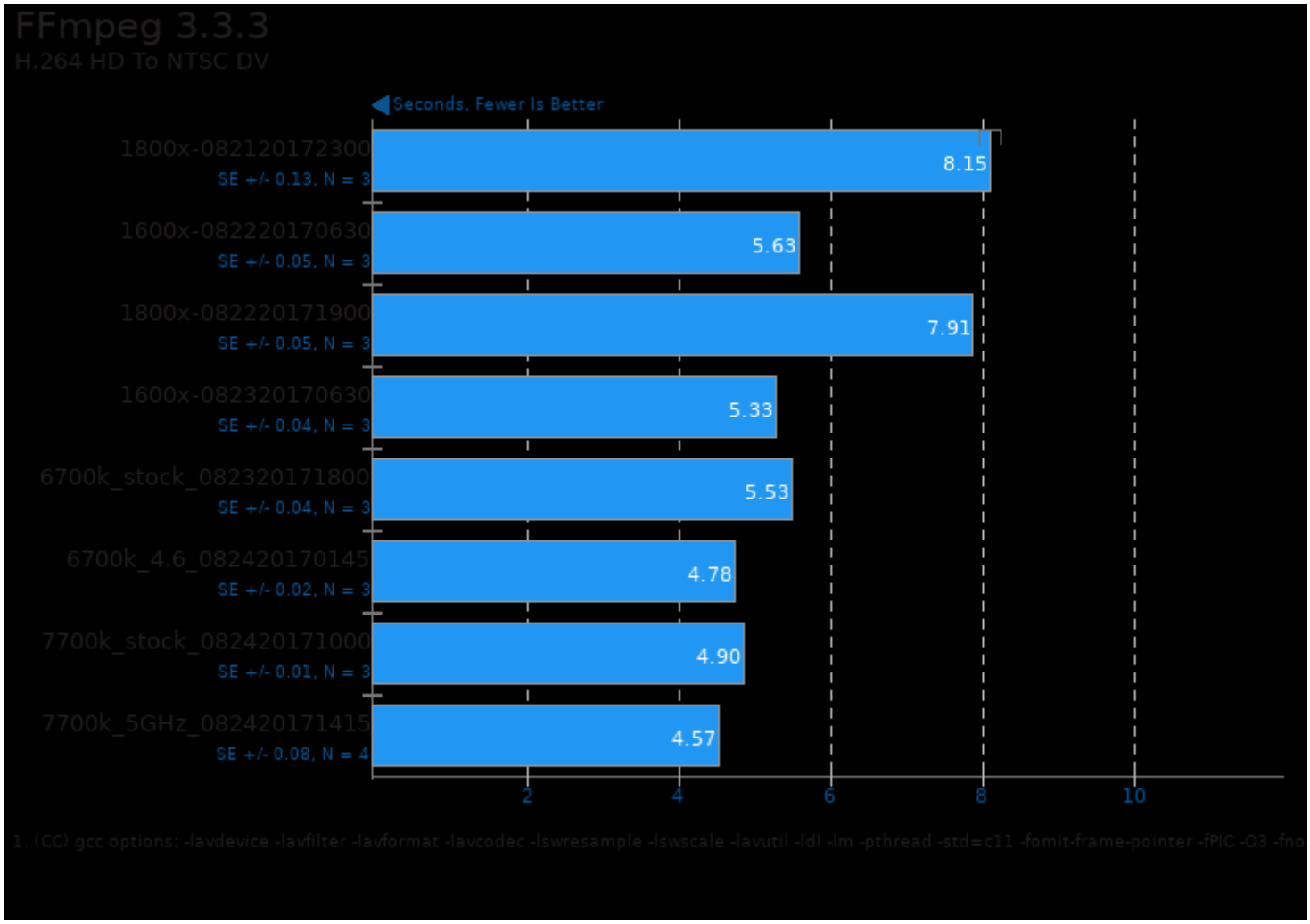

Smallpt 1.0
Global Illumination Renderer; 100 Samples
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.00, N = 3
35
1600x-082220170630
SE +/- 0.33, N = 3
50
1800x-082220171900
SE +/- 0.00, N = 3
37
1600x-082320170630
SE +/- 0.33, N = 3
47
6700k_stock_082320171800
SE +/- 0.33, N = 3
67
6700k_4.6_082420170145
SE +/- 0.33, N = 3
59
7700k_stock_082420171000
SE +/- 0.00, N = 3
59
7700k_5GHz_082420171415
SE +/- 0.88, N = 3
57
15
30
45
60
75
1. (CXX) g++ options: -fopenmp

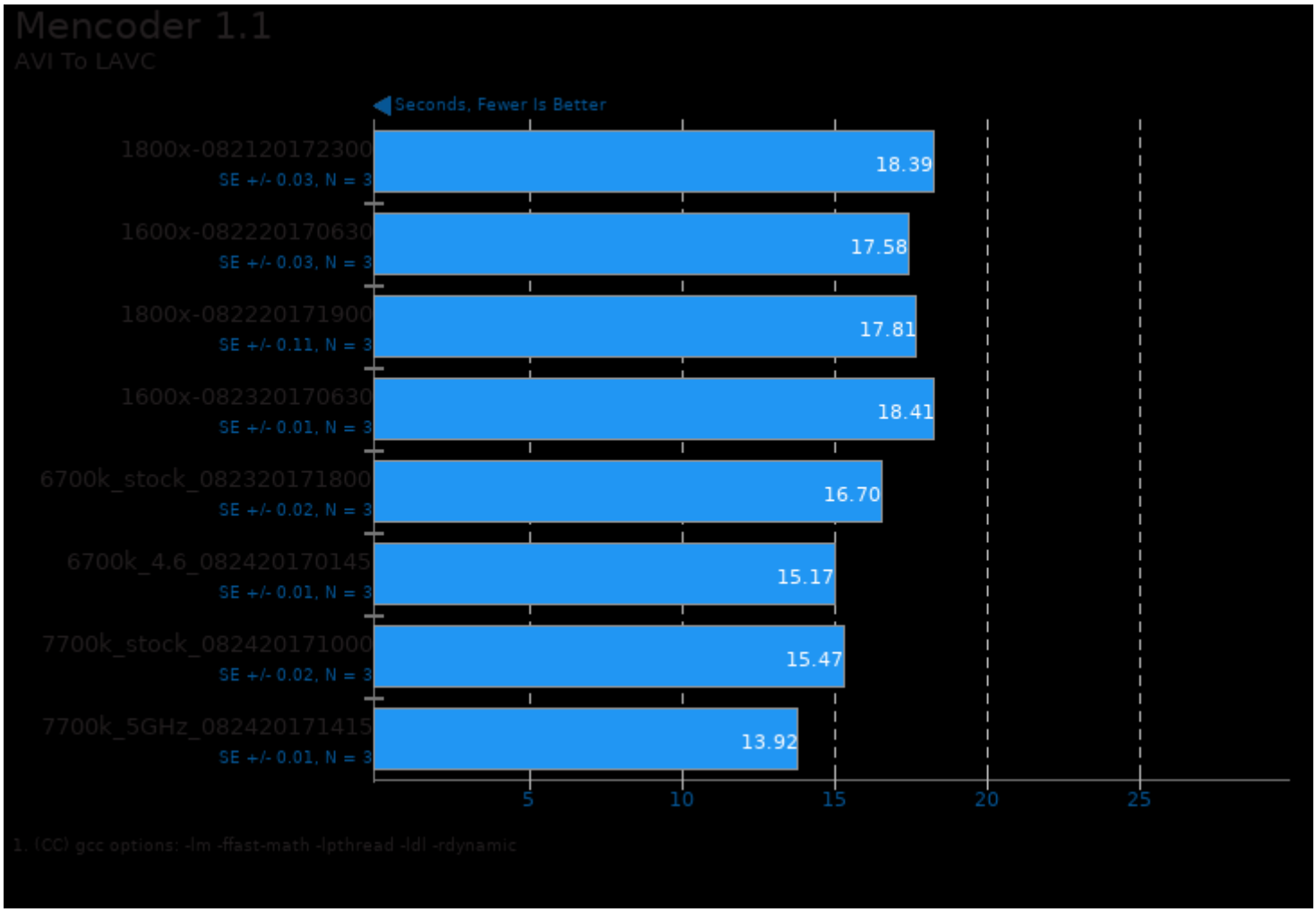

Stockfish 2014-11-26
Total Time
ms, Fewer Is Better
1800x-082120172300
SE +/- 5.90, N = 3
3715
1600x-082220170630
SE +/- 10.68, N = 3
3647
1800x-082220171900
SE +/- 8.67, N = 3
3693
1600x-082320170630
SE +/- 6.23, N = 3
3751
6700k_stock_082320171800
SE +/- 0.88, N = 3
3136
6700k_4.6_082420170145
SE +/- 1.00, N = 3
2823
7700k_stock_082420171000
SE +/- 2.19, N = 3
2922
7700k_5GHz_082420171415
SE +/- 1.20, N = 3
2612
800
1600
2400
3200
4000
1. (CXX) g++ options: -lpthread -fno-exceptions -fno-rtti -ansi -pedantic -O3 -msse -msse3 -mpopcnt -flto

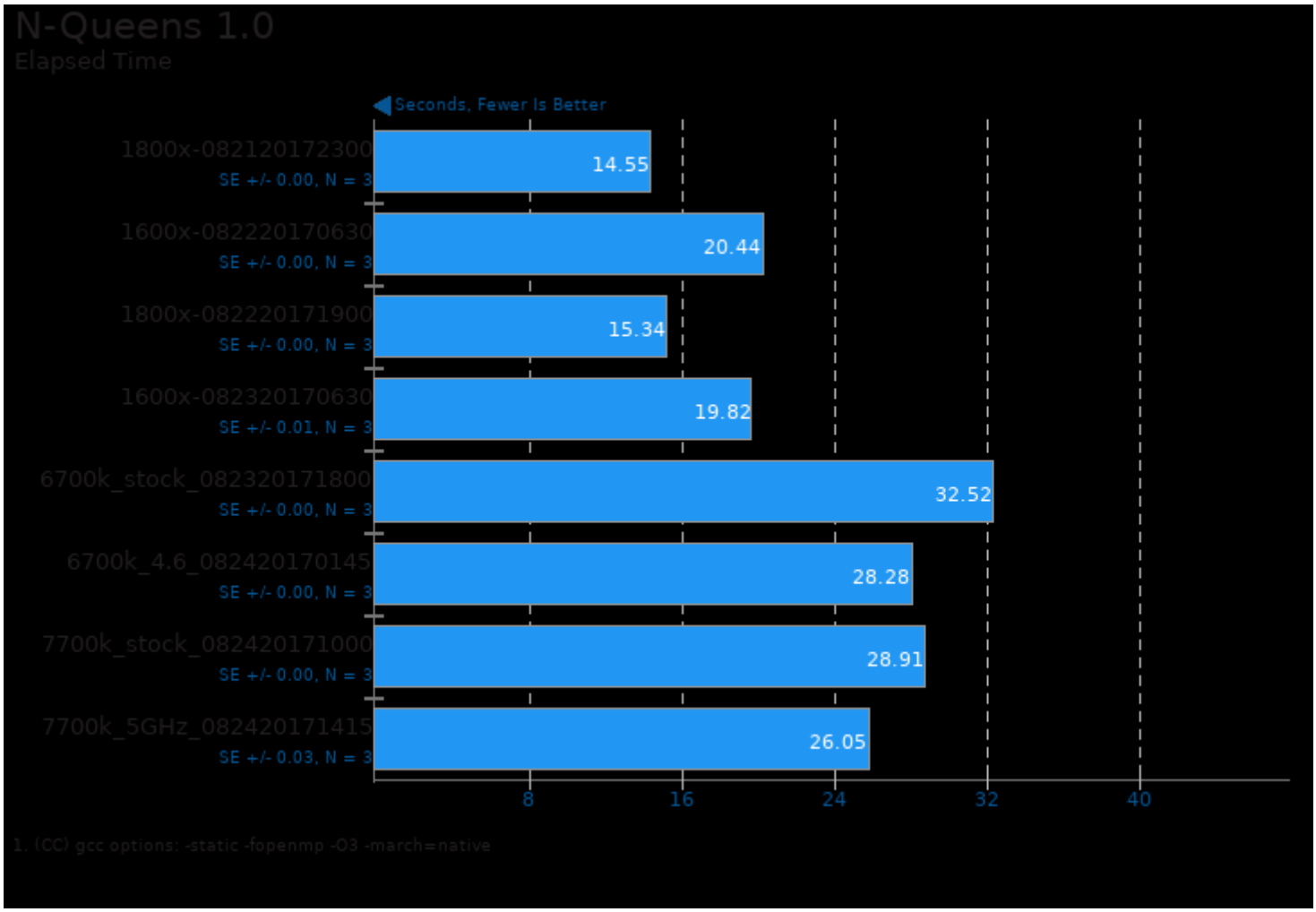

LZMA Compression
256MB File Compression
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.16, N = 3
274.91
1600x-082220170630
SE +/- 0.18, N = 3
276.27
1800x-082220171900
SE +/- 0.93, N = 3
277.09
1600x-082320170630
SE +/- 0.19, N = 3
275.08
6700k_stock_082320171800
SE +/- 0.24, N = 3
245.12
6700k_4.6_082420170145
SE +/- 0.17, N = 3
220.22
7700k_stock_082420171000
SE +/- 0.50, N = 3
229.00
7700k_5GHz_082420171415
SE +/- 0.14, N = 3
202.27
60
120
180
240
300
1. (CXX) g++ options: -O2

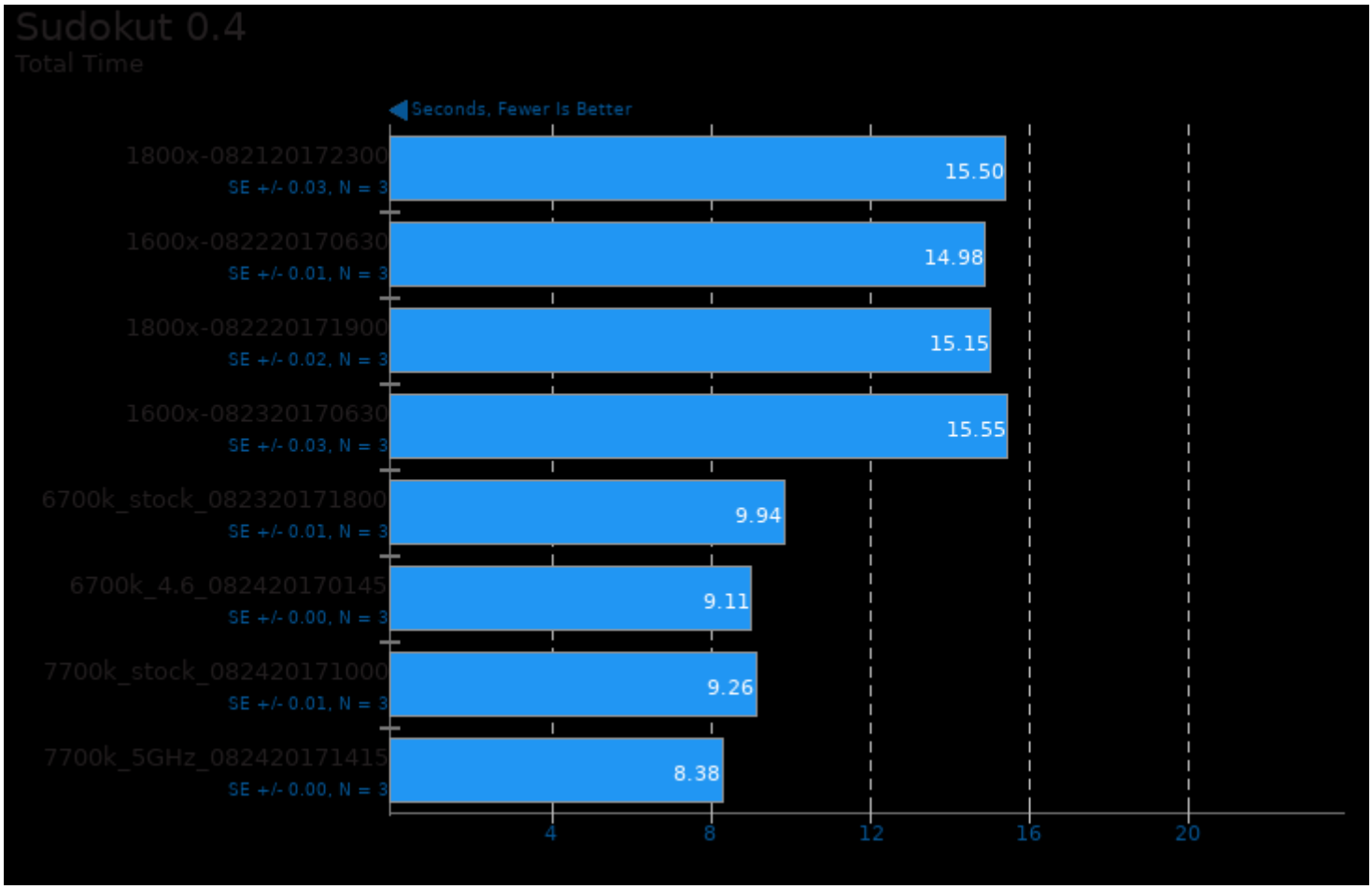

Crafty 23.4
Elapsed Time
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.13, N = 3
74.51
1600x-082220170630
SE +/- 0.02, N = 3
71.50
1800x-082220171900
SE +/- 0.41, N = 3
72.01
1600x-082320170630
SE +/- 0.09, N = 3
74.45
6700k_stock_082320171800
SE +/- 0.01, N = 3
60.52
6700k_4.6_082420170145
SE +/- 0.04, N = 3
55.11
7700k_stock_082420171000
SE +/- 0.05, N = 3
56.58
7700k_5GHz_082420171415
SE +/- 0.02, N = 3
50.71
20
40
60
80
100
1. (CC) gcc options: -lstdc++ -lm

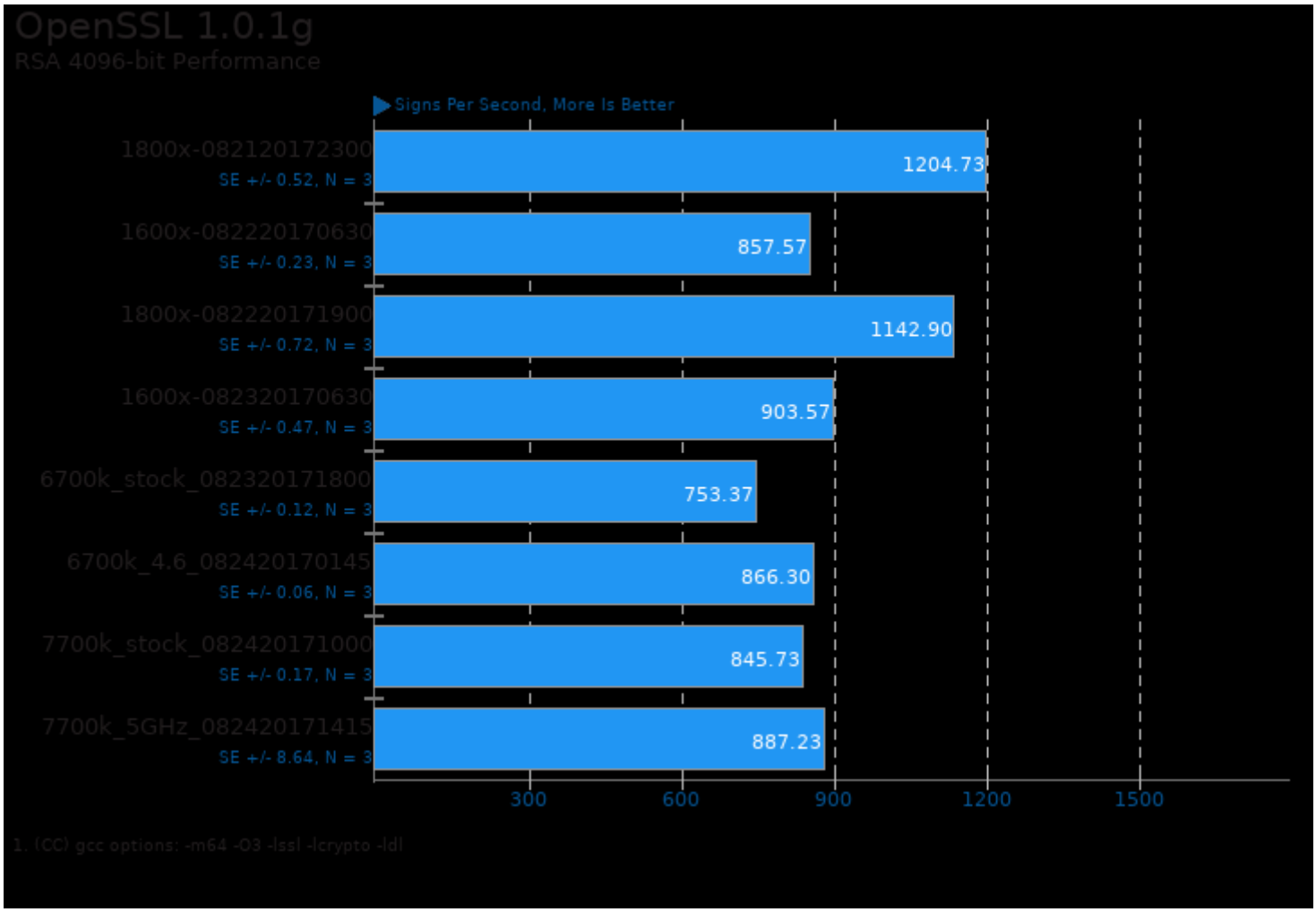

dcraw
RAW To PPM Image Conversion
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.02, N = 3
47.60
1600x-082220170630
SE +/- 0.09, N = 3
45.46
1800x-082220171900
SE +/- 0.09, N = 3
45.50
1600x-082320170630
SE +/- 0.75, N = 3
48.95
6700k_stock_082320171800
SE +/- 0.01, N = 3
39.06
6700k_4.6_082420170145
SE +/- 0.01, N = 3
35.63
7700k_stock_082420171000
SE +/- 0.01, N = 3
36.43
7700k_5GHz_082420171415
SE +/- 0.01, N = 3
32.77
11
22
33
44
55
1. (CC) gcc options: -lm

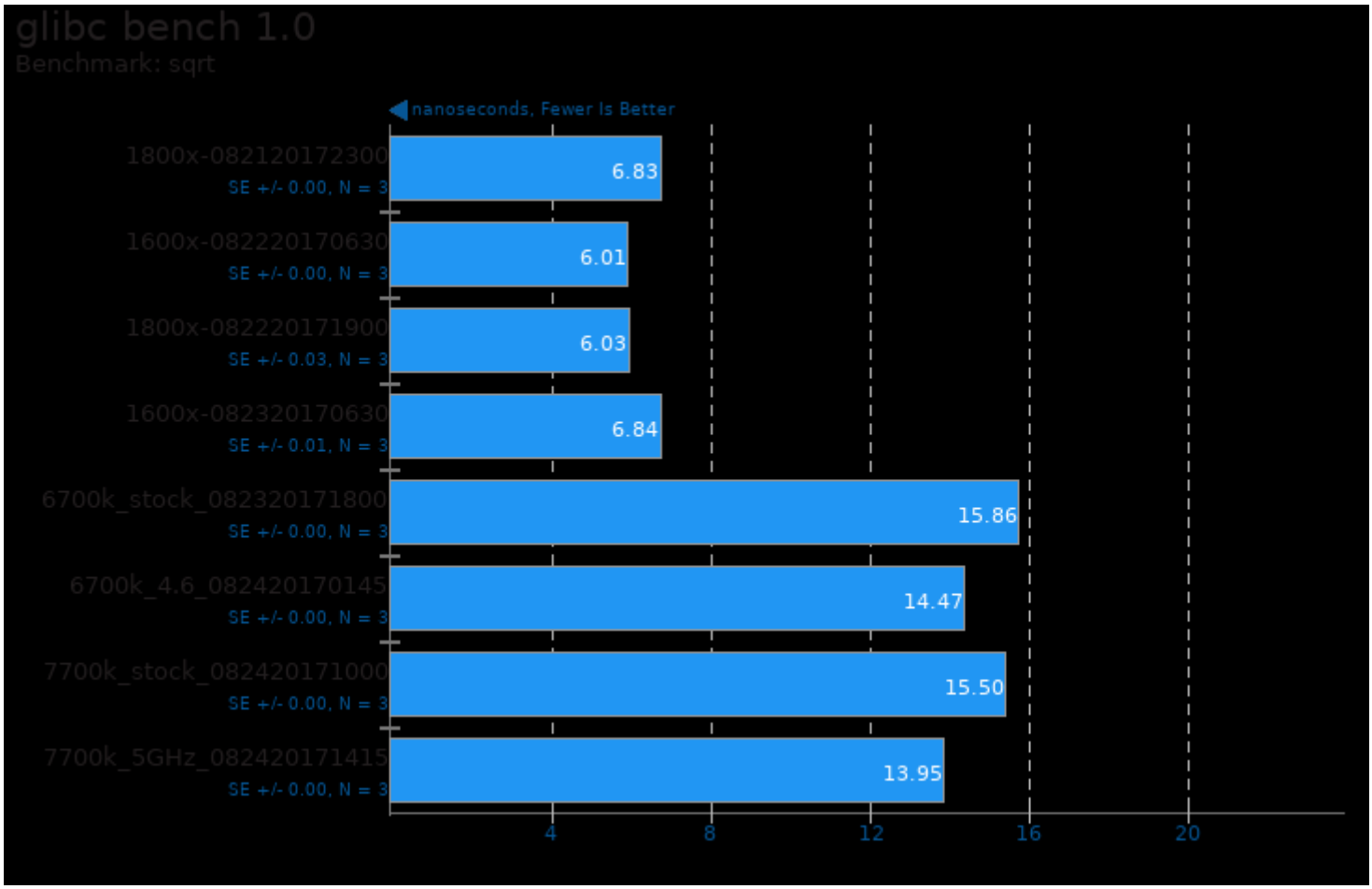

FFmpeg 3.3.3
H.264 HD To NTSC DV
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.13, N = 3
8.15
1600x-082220170630
SE +/- 0.05, N = 3
5.63
1800x-082220171900
SE +/- 0.05, N = 3
7.91
1600x-082320170630
SE +/- 0.04, N = 3
5.33
6700k_stock_082320171800
SE +/- 0.04, N = 3
5.53
6700k_4.6_082420170145
SE +/- 0.02, N = 3
4.78
7700k_stock_082420171000
SE +/- 0.01, N = 3
4.90
7700k_5GHz_082420171415
SE +/- 0.08, N = 4
4.57
2
4
6
8
10
1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lm -pthread -std=c11 -fomit-frame-pointer -fPIC -O3 -fno

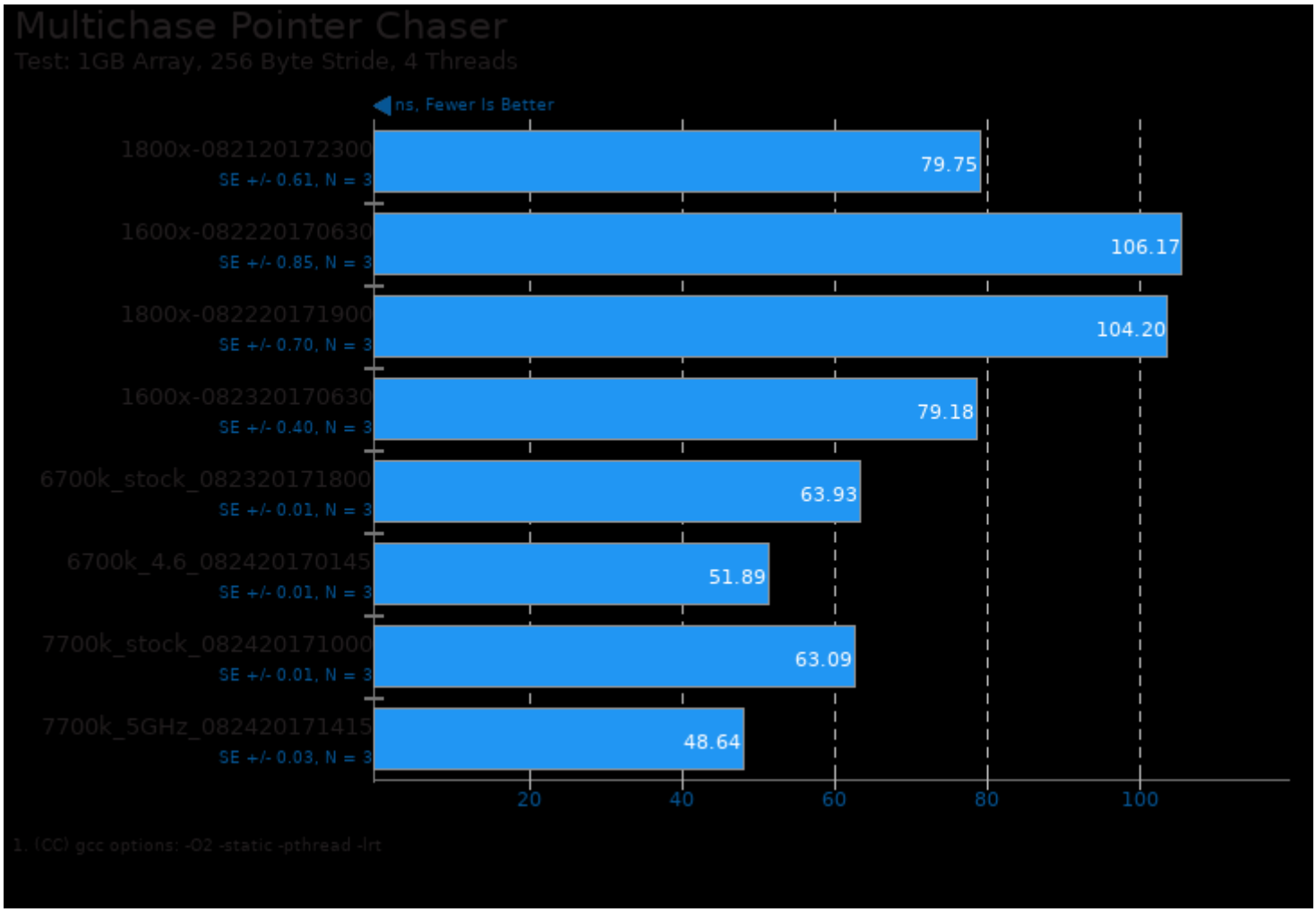

Mencoder 1.1
AVI To LAVC
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.03, N = 3
18.39
1600x-082220170630
SE +/- 0.03, N = 3
17.58
1800x-082220171900
SE +/- 0.11, N = 3
17.81
1600x-082320170630
SE +/- 0.01, N = 3
18.41
6700k_stock_082320171800
SE +/- 0.02, N = 3
16.70
6700k_4.6_082420170145
SE +/- 0.01, N = 3
15.17
7700k_stock_082420171000
SE +/- 0.02, N = 3
15.47
7700k_5GHz_082420171415
SE +/- 0.01, N = 3
13.92
5
10
15
20
25
1. (CC) gcc options: -lm -ffast-math -lpthread -ldl -rdynamic

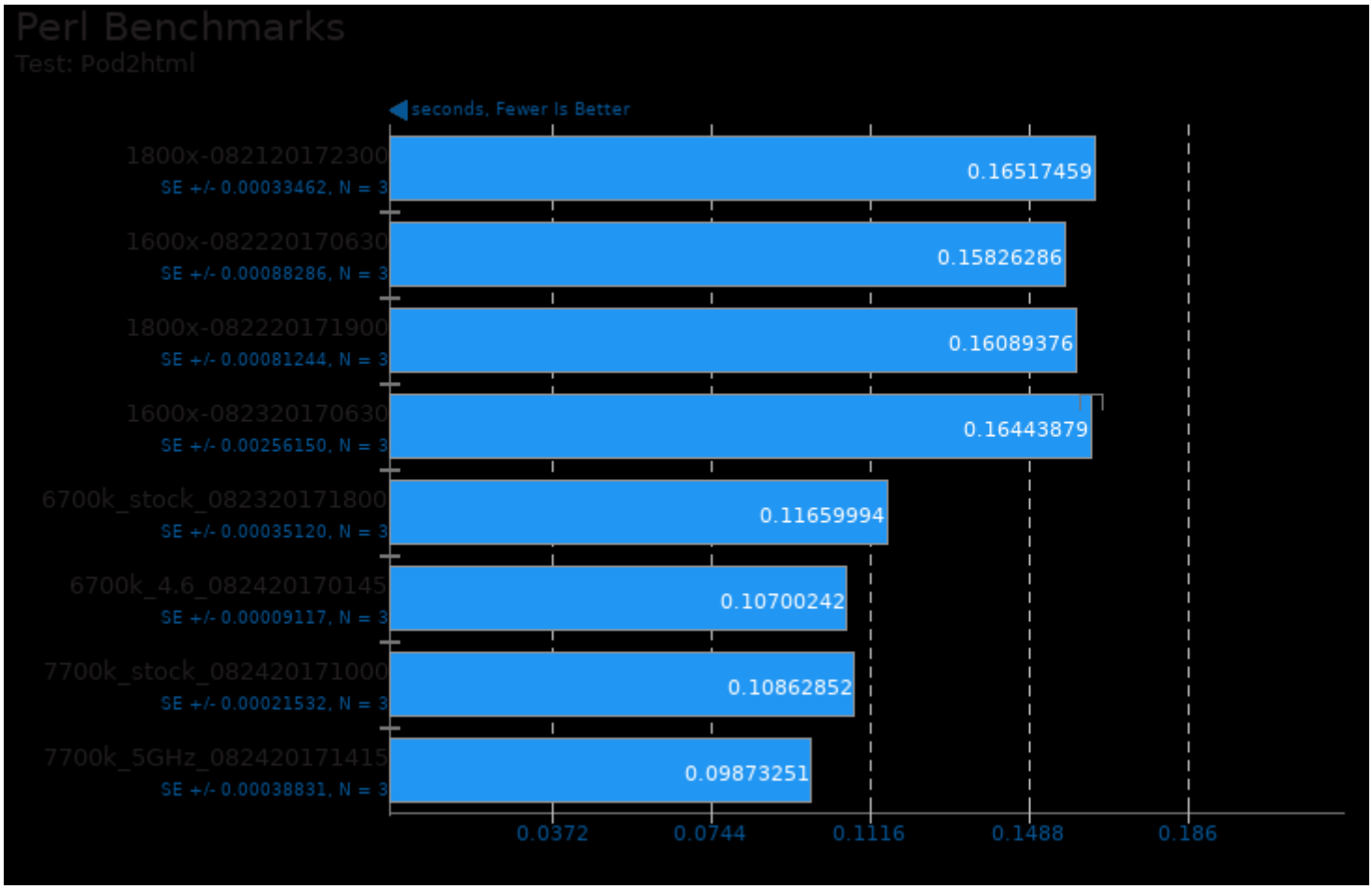

N-Queens 1.0
Elapsed Time
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.00, N = 3
14.55
1600x-082220170630
SE +/- 0.00, N = 3
20.44
1800x-082220171900
SE +/- 0.00, N = 3
15.34
1600x-082320170630
SE +/- 0.01, N = 3
19.82
6700k_stock_082320171800
SE +/- 0.00, N = 3
32.52
6700k_4.6_082420170145
SE +/- 0.00, N = 3
28.28
7700k_stock_082420171000
SE +/- 0.00, N = 3
28.91
7700k_5GHz_082420171415
SE +/- 0.03, N = 3
26.05
8
16
24
32
40
1. (CC) gcc options: -static -fopenmp -O3 -march=native

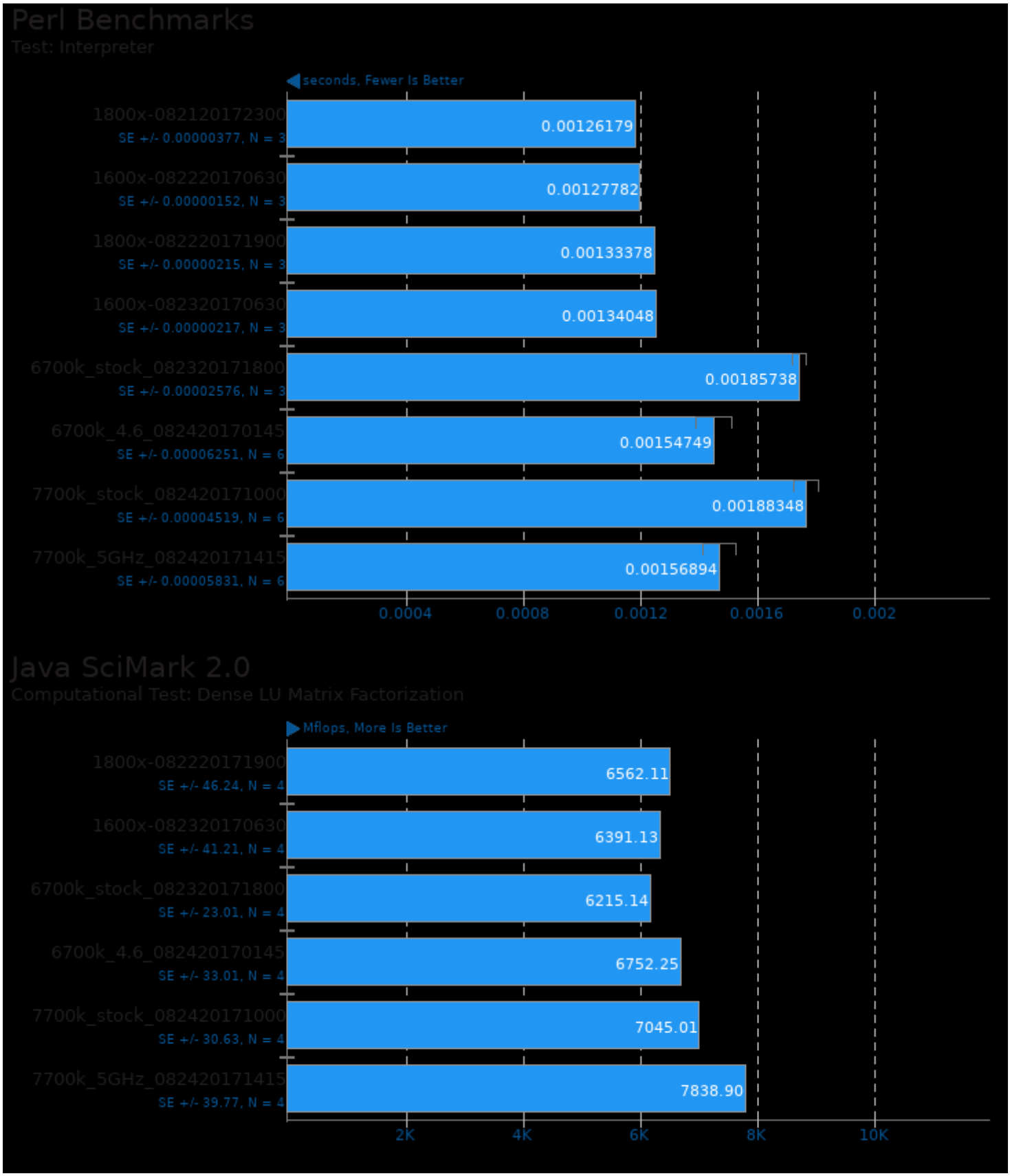

Sudokut 0.4
Total Time
Seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.03, N = 3
15.50
1600x-082220170630
SE +/- 0.01, N = 3
14.98
1800x-082220171900
SE +/- 0.02, N = 3
15.15
1600x-082320170630
SE +/- 0.03, N = 3
15.55
6700k_stock_082320171800
SE +/- 0.01, N = 3
9.94
6700k_4.6_082420170145
SE +/- 0.00, N = 3
9.11
7700k_stock_082420171000
SE +/- 0.01, N = 3
9.26
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
8.38
4
8
12
16
20

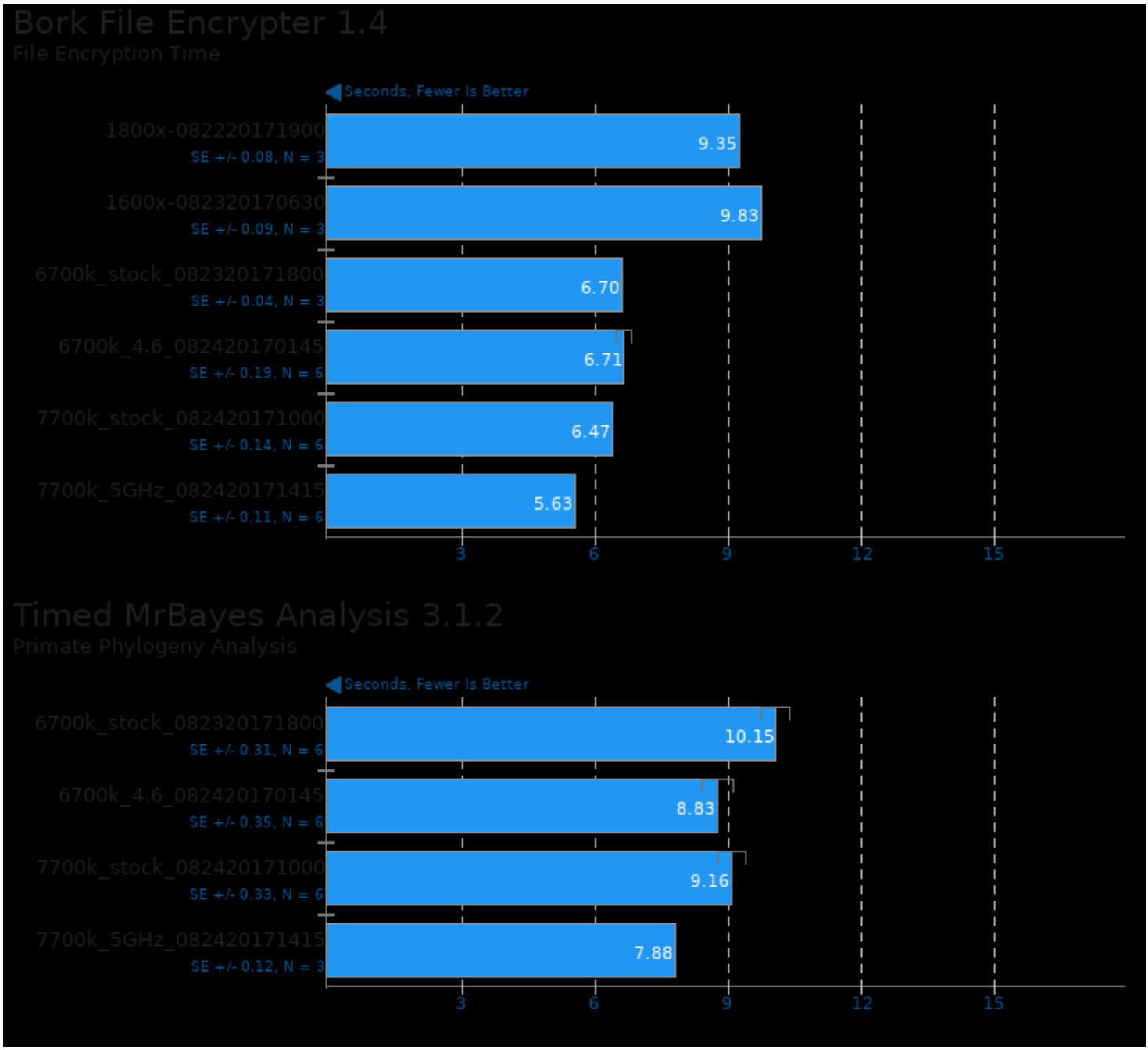

OpenSSL 1.0.1g
RSA 4096-bit Performance
Signs Per Second, More Is Better
1800x-082120172300
SE +/- 0.52, N = 3
1204.73
1600x-082220170630
SE +/- 0.23, N = 3
857.57
1800x-082220171900
SE +/- 0.72, N = 3
1142.90
1600x-082320170630
SE +/- 0.47, N = 3
903.57
6700k_stock_082320171800
SE +/- 0.12, N = 3
753.37
6700k_4.6_082420170145
SE +/- 0.06, N = 3
866.30
7700k_stock_082420171000
SE +/- 0.17, N = 3
845.73
7700k_5GHz_082420171415
SE +/- 8.64, N = 3
887.23
300
600
900
1200
1500
1. (CC) gcc options: -m64 -O3 -lssl -lcrypto -ldl

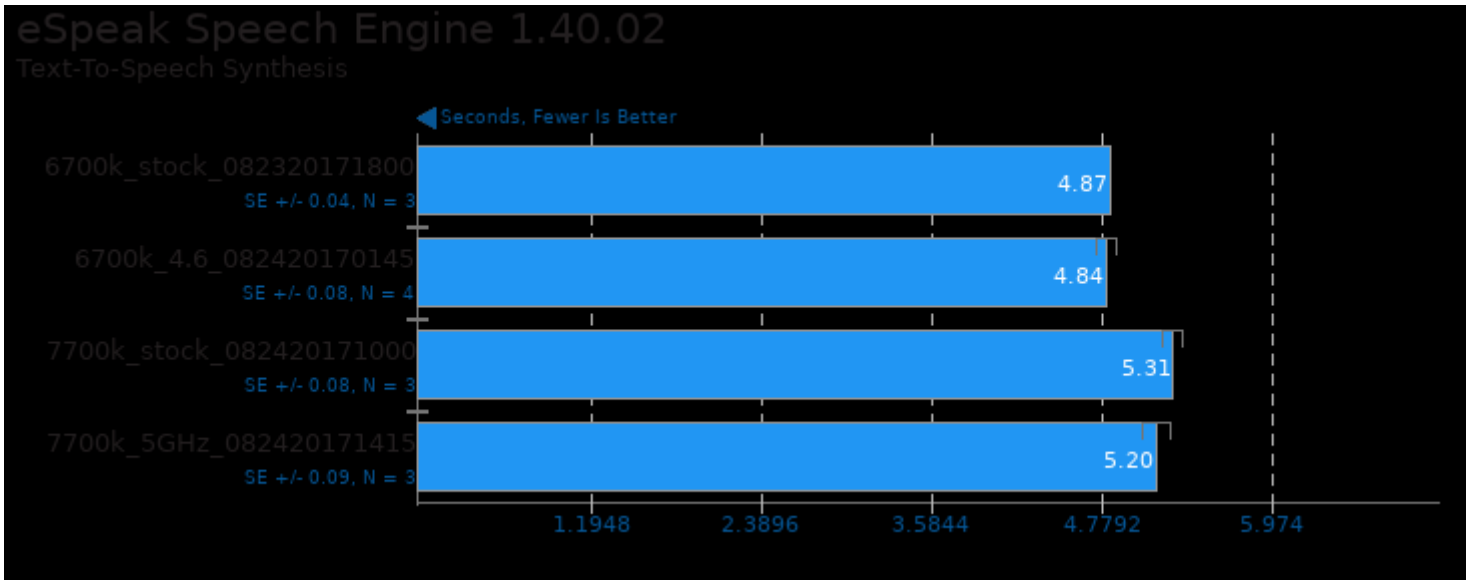

glibc bench 1.0
Benchmark: sqrt
nanoseconds, Fewer Is Better
1800x-082120172300
SE +/- 0.00, N = 3
6.83
1600x-082220170630
SE +/- 0.00, N = 3
6.01
1800x-082220171900
SE +/- 0.03, N = 3
6.03
1600x-082320170630
SE +/- 0.01, N = 3
6.84
6700k_stock_082320171800
SE +/- 0.00, N = 3
15.86
6700k_4.6_082420170145
SE +/- 0.00, N = 3
14.47
7700k_stock_082420171000
SE +/- 0.00, N = 3
15.50
7700k_5GHz_082420171415
SE +/- 0.00, N = 3
13.95
4
8
12
16
20


Multichase Pointer Chaser
Test: 1GB Array, 256 Byte Stride, 4 Threads
ns, Fewer Is Better
1800x-082120172300
SE +/- 0.61, N = 3
79.75
1600x-082220170630
SE +/- 0.85, N = 3
106.17
1800x-082220171900
SE +/- 0.70, N = 3
104.20
1600x-082320170630
SE +/- 0.40, N = 3
79.18
6700k_stock_082320171800
SE +/- 0.01, N = 3
63.93
6700k_4.6_082420170145
SE +/- 0.01, N = 3
51.89
7700k_stock_082420171000
SE +/- 0.01, N = 3
63.09
7700k_5GHz_082420171415
SE +/- 0.03, N = 3
48.64
20
40
60
80
100
1. (CC) gcc options: -O2 -static -pthread -lrt


Perl Benchmarks
Test: Pod2html
seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.00033462, N = 3
0.16517459
1600x-082220170630
SE +/- 0.00088286, N = 3
0.15826286
1800x-082220171900
SE +/- 0.00081244, N = 3
0.16089376
1600x-082320170630
SE +/- 0.00256150, N = 3
0.16443879
6700k_stock_082320171800
SE +/- 0.00035120, N = 3
0.11659994
6700k_4.6_082420170145
SE +/- 0.00009117, N = 3
0.10700242
7700k_stock_082420171000
SE +/- 0.00021532, N = 3
0.10862852
7700k_5GHz_082420171415
SE +/- 0.00038831, N = 3
0.09873251
0.0372
0.0744
0.1116
0.1488
0.186


Perl Benchmarks
Test: Interpreter
seconds, Fewer Is Better
1800x-082120172300
SE +/- 0.00000377, N = 3
0.00126179
1600x-082220170630
SE +/- 0.00000152, N = 3
0.00127782
1800x-082220171900
SE +/- 0.00000215, N = 3
0.00133378
1600x-082320170630
SE +/- 0.00000217, N = 3
0.00134048
6700k_stock_082320171800
SE +/- 0.00002576, N = 3
0.00185738
6700k_4.6_082420170145
SE +/- 0.00006251, N = 6
0.00154749
7700k_stock_082420171000
SE +/- 0.00004519, N = 6
0.00188348
7700k_5GHz_082420171415
SE +/- 0.00005831, N = 6
0.00156894
0.0004
0.0008
0.0012
0.0016
0.002
Java SciMark 2.0
Computational Test: Dense LU Matrix Factorization
Mflops, More Is Better
1800x-082220171900
SE +/- 46.24, N = 4
6562.11
1600x-082320170630
SE +/- 41.21, N = 4
6391.13
6700k_stock_082320171800
SE +/- 23.01, N = 4
6215.14
6700k_4.6_082420170145
SE +/- 33.01, N = 4
6752.25
7700k_stock_082420171000
SE +/- 30.63, N = 4
7045.01
7700k_5GHz_082420171415
SE +/- 39.77, N = 4
7838.90
2K
4K
6K
8K
10K


Bork File Encrypter 1.4
File Encryption Time
Seconds, Fewer Is Better
1800x-082220171900
SE +/- 0.08, N = 3
9.35
1600x-082320170630
SE +/- 0.09, N = 3
9.83
6700k_stock_082320171800
SE +/- 0.04, N = 3
6.70
6700k_4.6_082420170145
SE +/- 0.19, N = 6
6.71
7700k_stock_082420171000
SE +/- 0.14, N = 6
6.47
7700k_5GHz_082420171415
SE +/- 0.11, N = 6
5.63
3
6
9
12
15
Timed MrBayes Analysis 3.1.2
Primate Phylogeny Analysis
Seconds, Fewer Is Better
6700k_stock_082320171800
SE +/- 0.31, N = 6
10.15
6700k_4.6_082420170145
SE +/- 0.35, N = 6
8.83
7700k_stock_082420171000
SE +/- 0.33, N = 6
9.16
7700k_5GHz_082420171415
SE +/- 0.12, N = 3
7.88
3
6
9
12
15



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