



## 5800x-fclk

AMD Ryzen 7 5800X (PPT=142 W, TDC=100 A, EDC=140 A, Boost Override=100 MHz) testing with an Omen 30L (model GT13-1380, F.11 BIOS, CL=15.000 ns) and XFX Radeon RX Vega 8 GB on Ubuntu 21.10 via the Phoronix Test Suite.

### Automated Executive Summary

*FClk 1,800 MHz had the most wins, coming in first place for 56% of the tests.*

*Based on the geometric mean of all complete results, the fastest (FClk 1,800 MHz) was 1.023x the speed of the slowest (FClk 1,600 MHz). FClk 1,733 MHz was 0.988x the speed of FClk 1,800 MHz and FClk 1,600 MHz was 0.99x the speed of FClk 1,733 MHz.*

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

*HPC Challenge (Test / Class: G-HPL) at 1.359x*

*ACES DGEMM (Sustained Floating-Point Rate) at 1.196x*

*MBW (Test: Memory Copy - Array Size: 1024 MiB) at 1.164x*

*RAMspeed SMP (Type: Scale - Benchmark: Integer) at 1.136x*

*RAMspeed SMP (Type: Copy - Benchmark: Integer) at 1.129x*

*Tinymembench (Standard Memcpy) at 1.128x*

*RAMspeed SMP (Type: Copy - Benchmark: Floating Point) at 1.124x*

RAMspeed SMP (Type: Scale - Benchmark: Floating Point) at 1.124x

Tinymembench (Standard Memset) at 1.123x

RAMspeed SMP (Type: Average - Benchmark: Integer) at 1.118x.

## Test Systems:

### FCIk 1,800 MHz

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: ASRock X570M Pro4 (P3.60 BIOS), Chipset: AMD Starship/Matisse, Memory: 16GB, Disk: 1000GB Western Digital WDS100T2B0C-00PXH0, Graphics: AMD Radeon RX 470/480/570/570X/580/580X/590 4GB (1266/1750MHz), Audio: AMD Ellesmere HDMI Audio, Monitor: DELL P2415Q, Network: Intel I211 + Intel-AC 9260

OS: Ubuntu 21.10, Kernel: 5.13.0-21-generic (x86\_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: madvise

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++,m2 --enable-libphobos-checking=release --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-link-mutex --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-10-h9G0XI/gcc-10-10.3.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-10-h9G0XI/gcc-10-10.3.0/debian/tmp-gcn/usr,h sa --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-build-config=bootstrap-lto-lean --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016

Python Notes: Python 3.9.7

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 Full AMD retpoline IBPB: conditional IBRS\_FW STIBP: always-on RSB filling + srbd: Not affected + tsx\_async\_abort: Not affected

### FCIk 1,733 MHz

### FCIk 1,600 MHz

Processor: AMD Ryzen 7 5800X 8-Core @ 3.80GHz (8 Cores / 16 Threads), Motherboard: HP 8876 v11 (F.11 BIOS), Chipset: AMD Starship/Matisse, Memory: 32GB, Disk: 1000GB Western Digital WDS100T2B0C-00PXH0, Graphics: XFX AMD Radeon RX 56/64 8GB (1590/800MHz), Audio: AMD Vega 10 HDMI Audio, Monitor: DELL P2415Q, Network: Realtek RTL8111/8168/8411 + Realtek RTL8822CE 802.11ac PCIe

OS: Ubuntu 21.10, Kernel: 5.13.0-21-generic (x86\_64), Desktop: GNOME Shell 40.5, Display Server: X Server + Wayland, OpenGL: 4.6 Mesa 21.2.2 (LLVM 12.0.1), Vulkan: 1.2.182, Compiler: GCC 10.3.0, File-System: ext4, Screen Resolution: 3840x2160

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Processor Notes: Scaling Governor: acpi-cpufreq performance (Boost: Enabled) - CPU Microcode: 0xa201016

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seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Full AMD retrpoline IBPB: conditional IBRS\_FW STIBP: always-on RSB filling + srbd: Not affected + tsx\_async\_abort: Not affected

	FClk 1,800 MHz	FClk 1,733 MHz	FClk 1,600 MHz
<b>HPC Challenge - G-HPL (GFLOPS)</b>	<b>103.74475</b>	<b>140.96133</b>	138.16300
Normalized	73.6%	100%	98.01%
Standard Deviation	2.2%	2.3%	0.9%
<b>ACES DGEMM - S.F.P.R (GFLOP/s)</b>	<b>5.514875</b>	<b>4.611035</b>	4.902323
Normalized	100%	83.61%	88.89%
Standard Deviation	1.2%	1.5%	1.6%
<b>MBW - Memory Copy - 1024 MiB (MiB/s)</b>	<b>20186</b>	18700	<b>17336</b>
Normalized	100%	92.64%	85.88%
Standard Deviation	0.5%	0.2%	0.6%
<b>RAMspeed SMP - Scale - Integer (MB/s)</b>	<b>31109</b>	28950	<b>27387</b>
Normalized	100%	93.06%	88.04%
Standard Deviation	1.1%	0.7%	0.3%
<b>RAMspeed SMP - Copy - Integer (MB/s)</b>	<b>30216</b>	27803	<b>26761</b>
Normalized	100%	92.01%	88.56%
Standard Deviation	1.4%	0.9%	0.3%
<b>Tinymembench - Standard Memcpy (MB/s)</b>	<b>27132</b>	25919	<b>24053</b>
Normalized	100%	95.53%	88.65%
Standard Deviation	0.2%	0.6%	0.4%
<b>RAMspeed SMP - Copy - Floating Point</b>	<b>29935</b>	27916	<b>26640</b>
Normalized	100%	93.26%	88.99%
Standard Deviation	1.4%	0.9%	0.8%
<b>RAMspeed SMP - Scale - Floating Point</b>	<b>29891</b>	27839	<b>26601</b>
Normalized	100%	93.14%	88.99%
Standard Deviation	0.6%	0.5%	0.9%
<b>Tinymembench - Standard Memset (MB/s)</b>	<b>28579</b>	27561	<b>25453</b>
Normalized	100%	96.44%	89.06%
Standard Deviation	0%	0%	0%
<b>RAMspeed SMP - Average - Integer (MB/s)</b>	<b>31522</b>	29645	<b>28185</b>
Normalized	100%	94.04%	89.41%
Standard Deviation	0.8%	0.2%	0.6%
<b>RAMspeed SMP - Add - Floating Point (MB/s)</b>	<b>32669</b>	30550	<b>29259</b>
Normalized	100%	93.51%	89.56%
Standard Deviation	1.3%	1%	0.4%
<b>RAMspeed SMP - Add - Integer (MB/s)</b>	<b>32276</b>	30172	<b>28929</b>
Normalized	100%	93.48%	89.63%
Standard Deviation	0.8%	0.6%	1.2%
<b>RAMspeed SMP - Average - Floating Point (MB/s)</b>	<b>30980</b>	28996	<b>27885</b>
Normalized	100%	93.6%	90.01%
Standard Deviation	0.2%	0.2%	1%
<b>RAMspeed SMP - Triad - Floating Point</b>	<b>31832</b>	29936	<b>28664</b>
Normalized	100%	94.05%	90.05%
Standard Deviation	0.2%	1.6%	1.3%
<b>RAMspeed SMP - Triad - Integer (MB/s)</b>	<b>32076</b>	29946	<b>29046</b>
Normalized	100%	93.36%	90.55%
Standard Deviation	1.2%	1%	1.5%

<b>Algebraic Multi-Grid Benchmark (Figure Of Merit)</b>	<b>218828933</b>	206756067	<b>198483067</b>
Normalized	100%	94.48%	90.7%
Standard Deviation	0.1%	0.1%	0.2%
<b>Timed Clash Compilation - Time To Compile (sec)</b>	<b>2.132</b>	<b>2.006</b>	2.055
Normalized	94.09%	100%	97.62%
Standard Deviation		0.2%	4.5%
<b>Zstd Compression - 19 - Compression Speed (MB/s)</b>	<b>35.1</b>	34.0	<b>33.2</b>
Normalized	100%	96.87%	94.59%
Standard Deviation	1%	0.3%	1%
<b>Zstd Compression - 3 - Compression Speed (MB/s)</b>	<b>3263</b>	3171	<b>3101</b>
Normalized	100%	97.18%	95.03%
Standard Deviation	0.6%	1.8%	0.1%
<b>C-Blosc - blosclz (MB/s)</b>	<b>26888</b>	26139	<b>25737</b>
Normalized	100%	97.21%	95.72%
Standard Deviation	0.2%	0.3%	0.1%
<b>Zstd Compression - 19, Long Mode - Compression Speed (MB/s)</b>	<b>28.8</b>	28.1	<b>27.6</b>
Normalized	100%	97.57%	95.83%
Standard Deviation	0.3%	0.9%	1.2%
<b>Zstd Compression - 8 - D.S (MB/s)</b>	<b>4596</b>	<b>4423</b>	4459
Normalized	100%	96.25%	97.03%
Standard Deviation	0.5%	0.7%	1.9%
<b>Zstd Compression - 3, Long Mode - D.S</b>	<b>4706</b>	4569	<b>4535</b>
Normalized	100%	97.1%	96.38%
Standard Deviation	1%	0.4%	1.1%
<b>Zstd Compression - 8 - Compression Speed (MB/s)</b>	707.0	<b>721.2</b>	<b>695.2</b>
Normalized	98.03%	100%	96.39%
Standard Deviation	1.5%	1.9%	1.2%
<b>Zstd Compression - 3, Long Mode - Compression Speed (MB/s)</b>	<b>1484</b>	<b>1433</b>	1453
Normalized	100%	96.52%	97.86%
Standard Deviation	1.5%	1.2%	0.7%
<b>Zstd Compression - 8, Long Mode - Compression Speed (MB/s)</b>	<b>908.3</b>	894.2	<b>880.7</b>
Normalized	100%	98.45%	96.96%
Standard Deviation	0.8%	0.6%	0.6%
<b>Timed LLVM Compilation - Unix Makefiles</b>	<b>625.821</b>	636.157	<b>645.181</b>
Normalized	100%	98.38%	97%
Standard Deviation	0.6%	1.3%	1%
<b>ArrayFire - BLAS CPU (GFLOPS)</b>	<b>380.996</b>	<b>369.630</b>	378.403
Normalized	100%	97.02%	99.32%
Standard Deviation	0.3%	0.8%	0.6%
<b>Zstd Compression - 8, Long Mode - D.S</b>	4801	<b>4809</b>	<b>4670</b>
Normalized	99.84%	100%	97.11%
Standard Deviation	0.8%	1.6%	1.1%
<b>Timed LLVM Compilation - Ninja (sec)</b>	<b>607.559</b>	615.351	<b>625.314</b>
Normalized	100%	98.73%	97.16%
Standard Deviation	0%	0%	0%

<b>Timed ImageMagick Compilation - Time To Compile (sec)</b>	<b>23.920</b>	24.048	<b>24.595</b>
Normalized	100%	99.47%	97.26%
Standard Deviation	0.3%	0.4%	0.3%
<b>Zstd Compression - 19 - D.S (MB/s)</b>	<b>4013</b>	3983	<b>3906</b>
Normalized	100%	99.24%	97.33%
Standard Deviation	0.8%	1%	1.2%
<b>srsRAN - 4.P.1.P.M.6.Q (UE Mb/s)</b>	<b>170.2</b>	<b>173.1</b>	<b>168.5</b>
Normalized	98.32%	100%	97.34%
Standard Deviation	3.2%	0.9%	0.3%
<b>Zstd Compression - 3 - D.S (MB/s)</b>	<b>4346</b>	4291	<b>4231</b>
Normalized	100%	98.74%	97.36%
Standard Deviation	0.1%		0.5%
<b>Timed Node.js Compilation - Time To Compile (sec)</b>	<b>381.329</b>	385.750	<b>391.499</b>
Normalized	98.85%	97.4%	
Standard Deviation	0%	0%	
<b>srsRAN - 4.P.1.P.S.6.Q (UE Mb/s)</b>	<b>260.8</b>	<b>266.5</b>	<b>259.6</b>
Normalized	97.86%	100%	97.41%
Standard Deviation	0.5%	0.7%	1%
<b>Timed FFmpeg Compilation - Time To Compile (sec)</b>	43.722	<b>43.076</b>	<b>44.212</b>
Normalized	98.52%	100%	97.43%
Standard Deviation	0.1%	0.4%	0.5%
<b>srsRAN - 4.P.1.P.M.2.Q (eNb Mb/s)</b>	<b>542.9</b>	<b>532.1</b>	<b>545.0</b>
Normalized	99.61%	97.63%	100%
Standard Deviation	0.3%	0.7%	0.5%
<b>PyPerformance - chaos (Milliseconds)</b>	<b>80.7</b>	<b>82.6</b>	81.1
Normalized	100%	97.7%	99.51%
Standard Deviation	0.9%	0.3%	0.4%
<b>srsRAN - 5.P.T.5.P.S.6.Q (UE Mb/s)</b>	<b>78.7</b>	78.8	<b>80.5</b>
Normalized	97.76%	97.89%	100%
Standard Deviation	0.6%	0%	0.1%
<b>srsRAN - 5.P.T.2.P.S.2.Q (UE Mb/s)</b>	102.8	<b>104.8</b>	<b>102.5</b>
Normalized	98.09%	100%	97.81%
Standard Deviation	0.6%	0.1%	1.2%
<b>PyPerformance - float (Milliseconds)</b>	<b>82.2</b>	<b>84.0</b>	83.8
Normalized	100%	97.86%	98.09%
Standard Deviation	0.3%	0.5%	1%
<b>Timed Mesa Compilation - Time To Compile (sec)</b>	<b>42.677</b>	42.810	<b>43.592</b>
Normalized	100%	99.69%	97.9%
Standard Deviation	0.3%	0.1%	0.1%
<b>SQLite Speedtest - Timed Time - Size 1,000 (sec)</b>	<b>44.475</b>	<b>43.547</b>	44.421
Normalized	97.91%	100%	98.03%
Standard Deviation	0.2%	0.2%	0.2%
<b>PyPerformance - crypto_pyaes</b>	76.9	<b>76.2</b>	<b>77.8</b>
Normalized	99.09%	100%	97.94%
Standard Deviation	0.4%	0.5%	0.1%
<b>Timed Godot Game Engine Compilation - Time To Compile (sec)</b>	<b>107.353</b>	107.766	<b>109.326</b>
Normalized	100%	99.62%	98.2%
Standard Deviation	0.2%	0%	0.2%

<b>PyPerformance - pickle_pure_python</b>	<b>329</b>	<b>329</b>	<b>335</b>
(Milliseconds)			
Normalized	100%	100%	98.21%
Standard Deviation	0.5%	0.2%	0.5%
<b>Build2 - Time To Compile (sec)</b>	<b>114.588</b>	115.934	<b>116.560</b>
Normalized	100%	98.84%	98.31%
Standard Deviation	0.3%	1.2%	0.8%
<b>Timed Eigen Compilation - Time To Compile (sec)</b>	<b>50.667</b>	51.340	<b>51.535</b>
Normalized	100%	98.69%	98.32%
Standard Deviation	0.1%	0.3%	0%
<b>simdjson - Kostya (GB/s)</b>	<b>3.57</b>	<b>3.58</b>	<b>3.52</b>
Normalized	99.72%	100%	98.32%
Standard Deviation	1.1%	0.2%	0.3%
<b>Zstd Compression - 19, Long Mode - D.S (MB/s)</b>	<b>4011</b>	3959	<b>3944</b>
Normalized	100%	98.71%	98.34%
Standard Deviation	1.1%	0.8%	1.7%
<b>srsRAN - 4.P.1.P.S.2.Q (eNb Mb/s)</b>	541.9	<b>539.6</b>	<b>548.4</b>
Normalized	98.81%	98.4%	100%
Standard Deviation	2.4%	1.3%	0.1%
<b>simdjson - LargeRand (GB/s)</b>	<b>1.25</b>	<b>1.26</b>	<b>1.24</b>
Normalized	99.21%	100%	98.41%
Standard Deviation	0%	0%	0.8%
<b>PyPerformance - pathlib (Milliseconds)</b>	<b>12.6</b>	<b>12.8</b>	12.7
Normalized	100%	98.44%	99.21%
Standard Deviation	0.8%	0.5%	0.9%
<b>srsRAN - 5.P.T.5.P.S.6.Q (eNb Mb/s)</b>	164.8	<b>164.4</b>	<b>167.0</b>
Normalized	98.68%	98.44%	100%
Standard Deviation	1.1%	0.2%	0.8%
<b>t-test1 - 2 (sec)</b>	<b>3.270</b>	3.311	<b>3.321</b>
Normalized	100%	98.76%	98.46%
Standard Deviation	0.7%	2%	1.1%
<b>PyPerformance - nbody (Milliseconds)</b>	91.9	<b>92.8</b>	<b>91.4</b>
Normalized	99.46%	98.49%	100%
Standard Deviation	0.4%	0.9%	0.5%
<b>PyBench - T.F.A.T.T (Milliseconds)</b>	<b>760</b>	<b>749</b>	759
Normalized	98.55%	100%	98.68%
Standard Deviation	0.7%	0.4%	0.5%
<b>Timed GDB GNU Debugger Compilation - Time To Compile (sec)</b>	<b>49.731</b>	49.984	<b>50.457</b>
Normalized	100%	99.49%	98.56%
Standard Deviation	0%	0.2%	0.2%
<b>Cryptsetup - A.X.5.D (MiB/s)</b>	4591	<b>4534</b>	<b>4598</b>
Normalized	99.83%	98.6%	100%
Standard Deviation	0.6%	1.3%	1.3%
<b>Timed PHP Compilation - Time To Compile (sec)</b>	<b>44.768</b>	44.929	<b>45.378</b>
Normalized	100%	99.64%	98.66%
Standard Deviation	0.2%	0.2%	0.2%
<b>Cryptsetup - T.X.2.E (MiB/s)</b>	508.7	<b>505.7</b>	<b>512.5</b>
Normalized	99.26%	98.67%	100%
Standard Deviation	0.2%	0.3%	1.5%
<b>srsRAN - 4.P.1.P.S.6.Q (eNb Mb/s)</b>	<b>494.7</b>	<b>488.3</b>	489.6

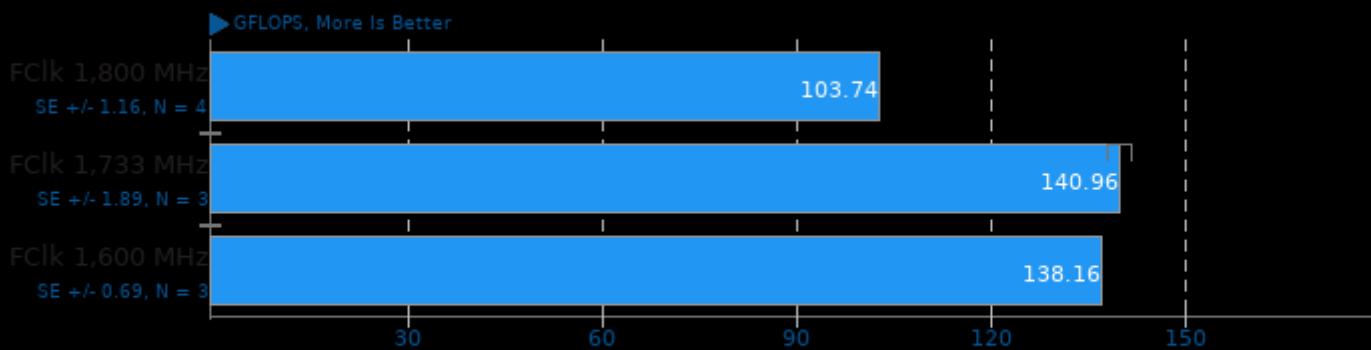
Normalized	100%	98.71%	98.97%
Standard Deviation	1.5%	0.4%	0.3%
<b>Cryptsetup - T.X.2.D (MiB/s)</b>	<b>519.6</b>	<b>516.5</b>	<b>523.1</b>
Normalized	99.33%	98.74%	100%
Standard Deviation	0.4%	0.6%	1.2%
<b>Timed Linux Kernel Compilation - Time To Compile (sec)</b>	<b>73.644</b>	<b>73.181</b>	<b>74.101</b>
Normalized	99.37%	100%	98.76%
Standard Deviation	0.6%	0.5%	0.7%
<b>Timed MPlayer Compilation - Time To Compile (sec)</b>	<b>27.688</b>	<b>27.458</b>	<b>27.802</b>
Normalized	99.17%	100%	98.76%
Standard Deviation	0.2%	0.1%	0.1%
<b>Cryptsetup - S.X.5.D (MiB/s)</b>	<b>946.3</b>	<b>937.3</b>	<b>949.0</b>
Normalized	99.72%	98.77%	100%
Standard Deviation	0.5%	1%	0.8%
<b>Cryptsetup - T.X.5.E (MiB/s)</b>	<b>509.3</b>	<b>506.9</b>	<b>512.9</b>
Normalized	99.3%	98.83%	100%
Standard Deviation	0.5%	0.8%	1.3%
<b>PyPerformance - json.loads (Milliseconds)</b>	<b>17</b>	<b>17.2</b>	<b>17.2</b>
Normalized	100%	98.84%	98.84%
Standard Deviation	0%	0.7%	0.6%
<b>srsRAN - 5.P.T.2.P.S.2.Q (eNb Mb/s)</b>	<b>179.1</b>	<b>181.2</b>	<b>179.8</b>
Normalized	98.84%	100%	99.23%
Standard Deviation	0.7%	1.1%	0.7%
<b>Timed Apache Compilation - Time To Compile (sec)</b>	<b>15.446</b>	<b>15.376</b>	<b>15.546</b>
Normalized	99.55%	100%	98.91%
Standard Deviation	0.4%	0.2%	0.4%
<b>Cryptsetup - S.X.2.E (MiB/s)</b>	<b>960.3</b>	<b>953.7</b>	<b>964.2</b>
Normalized	99.6%	98.91%	100%
Standard Deviation	0.2%	0.5%	1%
<b>Cryptsetup - S.X.2.D (MiB/s)</b>	<b>946.0</b>	<b>938.7</b>	<b>949.0</b>
Normalized	99.68%	98.91%	100%
Standard Deviation	0.5%	0.7%	0.8%
<b>srsRAN - 4.P.1.P.M.2.Q (UE Mb/s)</b>	<b>182.8</b>	<b>182.5</b>	<b>184.4</b>
Normalized	99.13%	98.97%	100%
Standard Deviation	0.7%	0.1%	0.7%
<b>Cryptsetup - PBKDF2-sha512 (Iterations/sec)</b>	<b>2402345</b>	<b>2377741</b>	<b>2388902</b>
Normalized	100%	98.98%	99.44%
Standard Deviation	0.8%	0.3%	1.5%
<b>Cryptsetup - T.X.5.D (MiB/s)</b>	<b>519.3</b>	<b>518.1</b>	<b>522.9</b>
Normalized	99.31%	99.08%	100%
Standard Deviation	0.5%	1%	1.3%
<b>PyPerformance - raytrace (Milliseconds)</b>	<b>345</b>	<b>348</b>	<b>348</b>
Normalized	100%	99.14%	99.14%
Standard Deviation	0.5%	0.2%	0.7%
<b>PyPerformance - django_template (Milliseconds)</b>	<b>34.9</b>	<b>35.2</b>	<b>35.2</b>
Normalized	100%	99.15%	99.15%
Standard Deviation	0.5%	0.2%	0.3%
<b>Cryptsetup - A.X.2.D (MiB/s)</b>	<b>5430</b>	<b>5386</b>	<b>5414</b>
Normalized	100%	99.19%	99.69%
Standard Deviation	0.6%	0.9%	0.5%

<b>simdjson - PartialTweets (GB/s)</b>	5.00	<b>5.03</b>	<b>4.99</b>
Normalized	99.4%	100%	99.2%
Standard Deviation	0.1%	0.4%	0.6%
<b>PyPerformance - regex_compile</b>	<b>127</b>	<b>128</b>	<b>127</b>
Normalized	100%	99.22%	100%
Standard Deviation	0.8%	0.9%	1.2%
<b>Cryptsetup - S.X.5.E (MiB/s)</b>	962.3	<b>957.4</b>	<b>964.9</b>
Normalized	99.73%	99.22%	100%
Standard Deviation	0.5%	1%	1.1%
<b>Cryptsetup - A.X.2.E (MiB/s)</b>	<b>5431</b>	<b>5392</b>	5418
Normalized	100%	99.27%	99.76%
Standard Deviation	0.4%	0.7%	0.5%
<b>Cryptsetup - A.X.5.E (MiB/s)</b>	<b>4571</b>	<b>4540</b>	4562
Normalized	100%	99.33%	99.81%
Standard Deviation	1%	0.8%	1.3%
<b>srsRAN - 4.P.1.P.S.2.Q (UE Mb/s)</b>	<b>312.4</b>	<b>314.4</b>	313.4
Normalized	99.36%	100%	99.68%
Standard Deviation	0.6%	0.8%	1.1%
<b>srsRAN - 4.P.1.P.M.6.Q (eNb Mb/s)</b>	<b>487.9</b>	<b>484.8</b>	486.7
Normalized	100%	99.36%	99.75%
Standard Deviation	1.9%	2.5%	0.4%
<b>Cryptsetup - PBKDF2-whirlpool</b>	875303	<b>872359</b>	<b>877741</b>
Normalized	99.72%	99.39%	100%
Standard Deviation	0.7%	0%	0.7%
<b>PyPerformance - python_startup</b>	<b>5.53</b>	<b>5.50</b>	<b>5.53</b>
Normalized	99.46%	100%	99.46%
Standard Deviation	0.1%	0.3%	0.3%
<b>PyPerformance - go (Milliseconds)</b>	<b>185</b>	<b>186</b>	<b>186</b>
Normalized	100%	99.46%	99.46%
Standard Deviation	0.3%	0.3%	0%
<b>Timed Wasmer Compilation - Time To Compile (sec)</b>	<b>51.330</b>	<b>51.063</b>	51.117
Normalized	99.48%	100%	99.89%
Standard Deviation	1%	0.5%	0.3%
<b>CacheBench - Write Cache (MB/s)</b>	35227	<b>35201</b>	<b>35363</b>
Normalized	99.61%	99.54%	100%
Standard Deviation	0.3%	0.7%	0.2%
<b>Timed GCC Compilation - Time To Compile (sec)</b>	<b>834.292</b>	<b>830.530</b>	832.355
Normalized	99.55%	100%	99.78%
Standard Deviation	0.2%	0.1%	0.1%
<b>t-test1 - 1 (sec)</b>	<b>9.789</b>	<b>9.833</b>	9.794
Normalized	100%	99.55%	99.95%
Standard Deviation	0.4%	0.4%	0.2%
<b>srsRAN - OFDM_Test (Samples / Second)</b>	173640000	<b>173600000</b>	<b>174333333</b>
Normalized	99.6%	99.58%	100%
Standard Deviation	2.3%	1.7%	2.2%
<b>Git - T.T.C.C.G.C (sec)</b>	<b>37.810</b>	37.739	<b>37.664</b>
Normalized	99.61%	99.8%	100%
Standard Deviation	0.6%	0.9%	1.1%
<b>simdjson - DistinctUserID (GB/s)</b>	<b>5.73</b>	<b>5.74</b>	<b>5.74</b>
Normalized	99.83%	100%	100%
Standard Deviation	0.2%	0.4%	0.7%

Timed Erlang/OTP Compilation - Time To Compile (sec)	<b>88.618</b>	<b>88.536</b>	88.549
Normalized	99.91%	100%	99.99%
Standard Deviation	0.1%	0%	0.2%
CacheBench - Read Cache (MB/s)	3696	<b>3696</b>	<b>3696</b>
Normalized	100%	100%	99.99%
Standard Deviation	0%	0%	0%
PyPerformance - 2to3 (Milliseconds)	236	236	236
Standard Deviation	0%	0.7%	0.6%
Node.js V8 Web Tooling Benchmark (runs/s)	16.49		
Standard Deviation	2.1%		
MBW - M.C.F.B.S - 1024 MiB (MiB/s)	<b>10711</b>	10189	<b>9301</b>
Normalized	100%	95.12%	86.83%
Standard Deviation	7.4%	6.5%	0.2%

## HPC Challenge 1.5.0

Test / Class: G-HPL

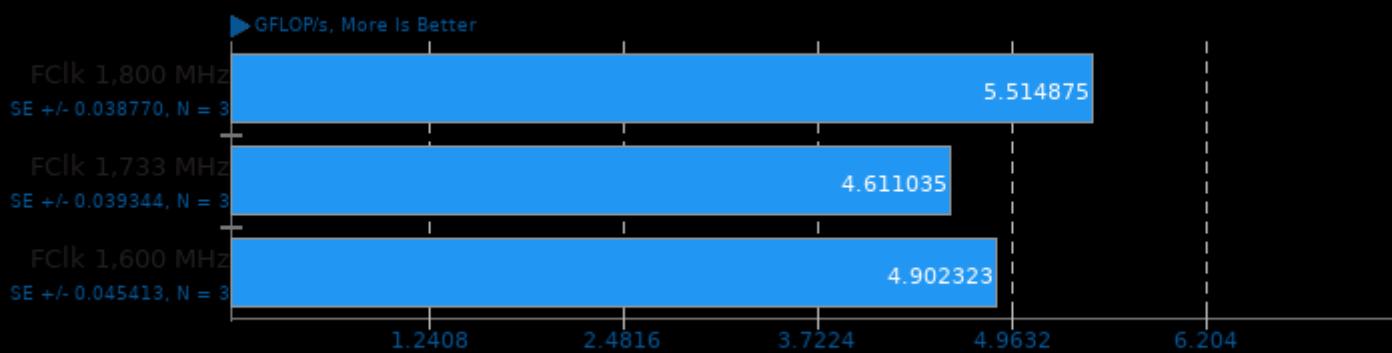


1. (CC) gcc options: -lblas -lm -fopenmp -fomit-frame-pointer -funroll-loops

2. ATLAS + Open MPI 4.1.0

## ACES DGEMM 1.0

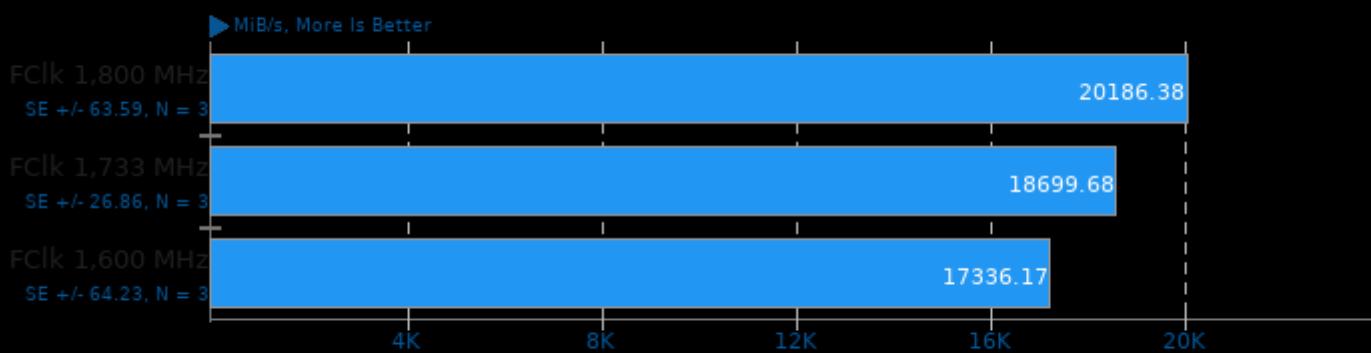
Sustained Floating-Point Rate



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

## MBW 2018-09-08

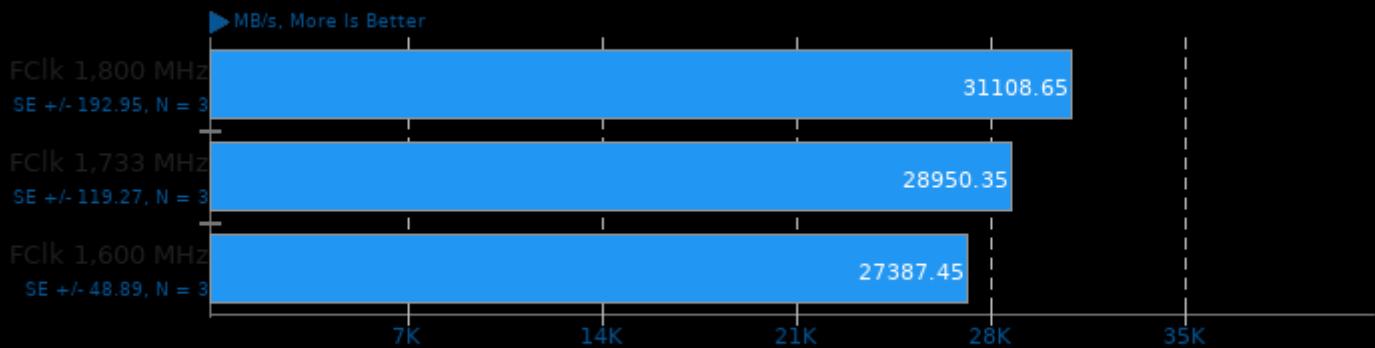
Test: Memory Copy - Array Size: 1024 MiB



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

## RAMspeed SMP 3.5.0

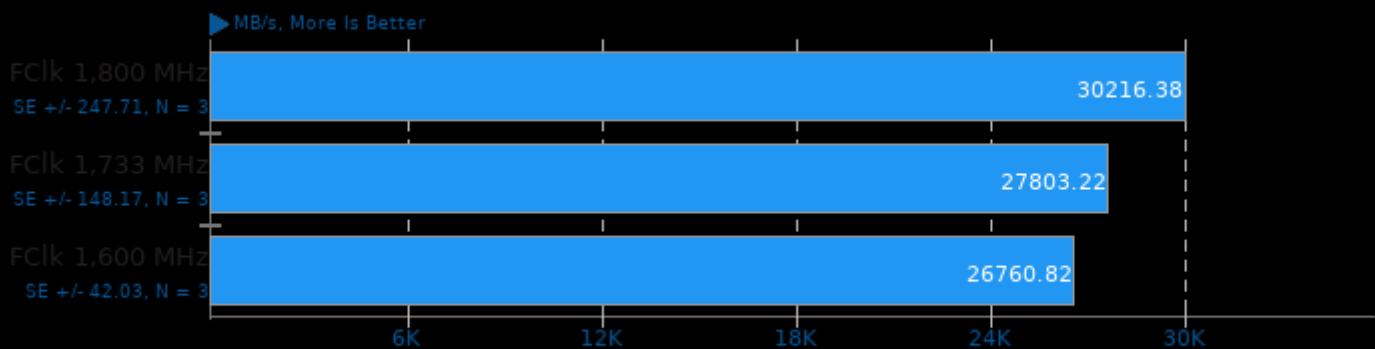
Type: Scale - Benchmark: Integer



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

## RAMspeed SMP 3.5.0

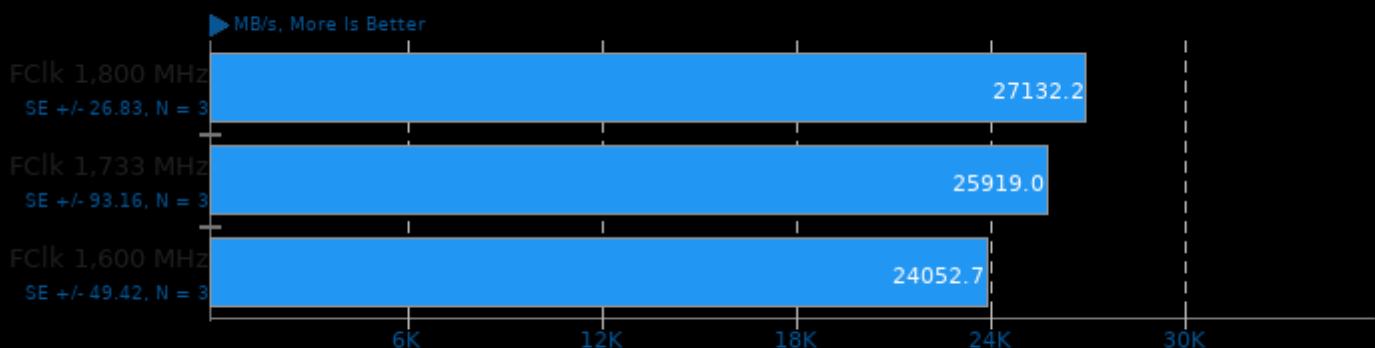
Type: Copy - Benchmark: Integer



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

## Tinymembench 2018-05-28

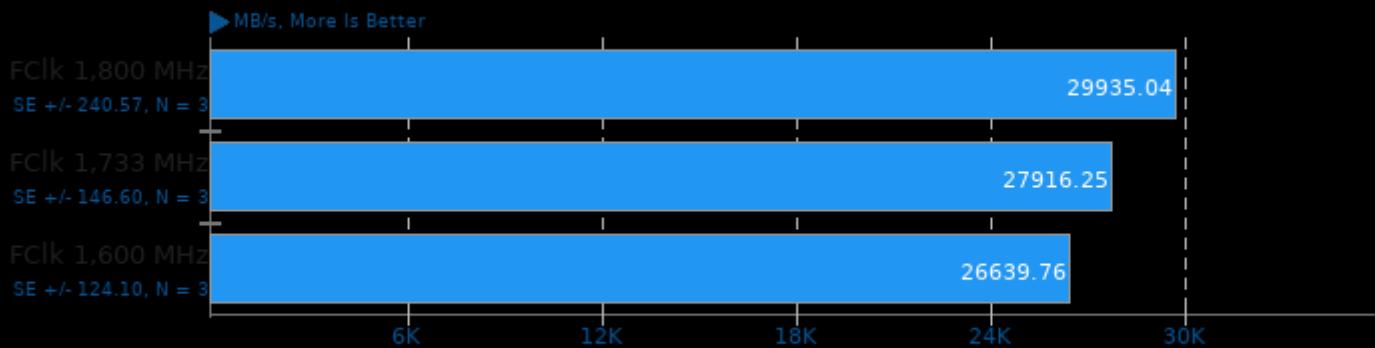
Standard Memcpy



1. (CC) gcc options: -O2 -lm

## RAMspeed SMP 3.5.0

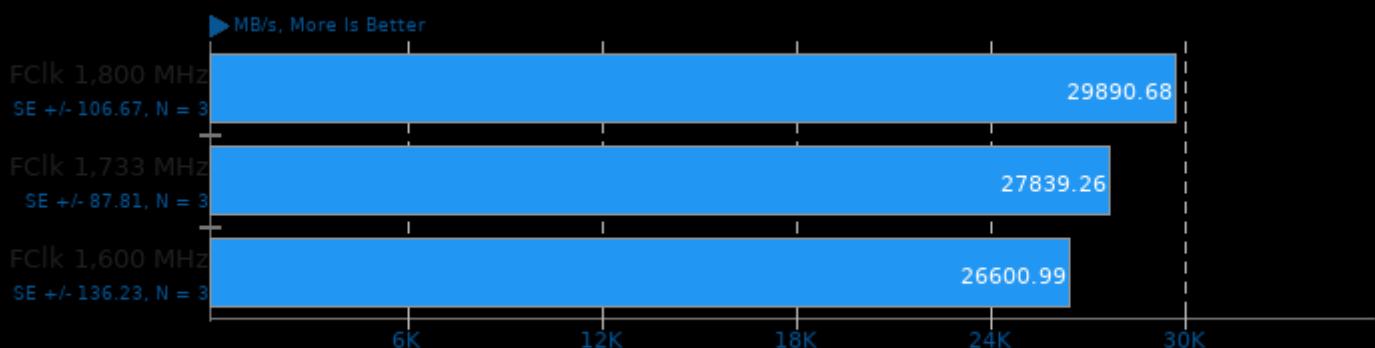
Type: Copy - Benchmark: Floating Point



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

## RAMspeed SMP 3.5.0

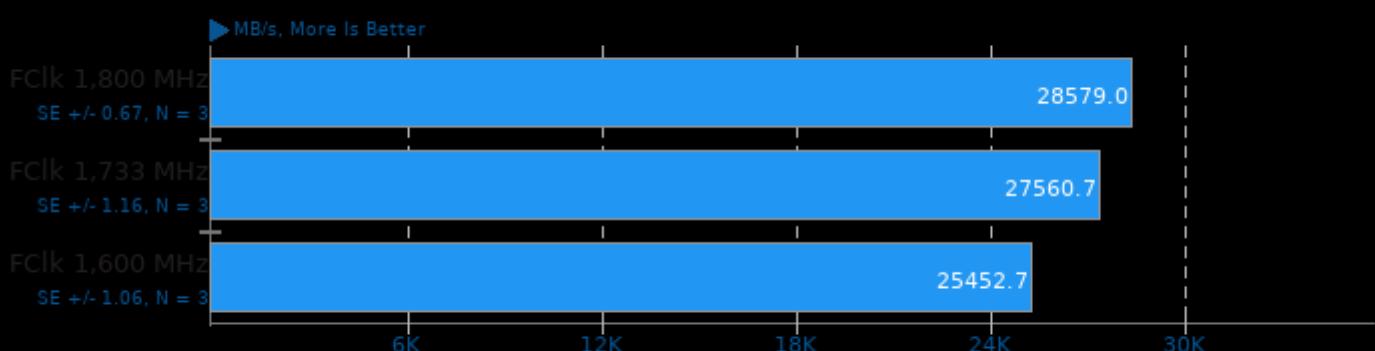
Type: Scale - Benchmark: Floating Point



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

## Tinymembench 2018-05-28

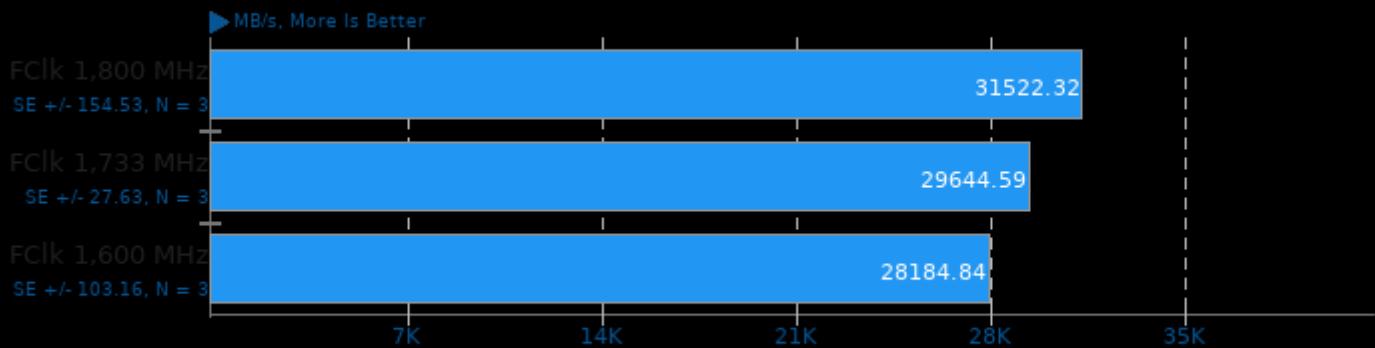
Standard Memset



1. (CC) gcc options: -O2 -lm

## RAMspeed SMP 3.5.0

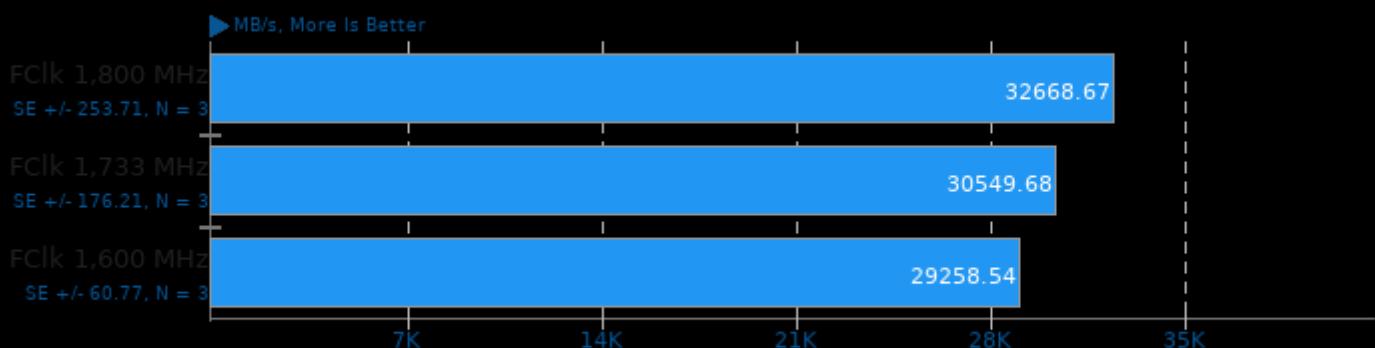
Type: Average - Benchmark: Integer



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

## RAMspeed SMP 3.5.0

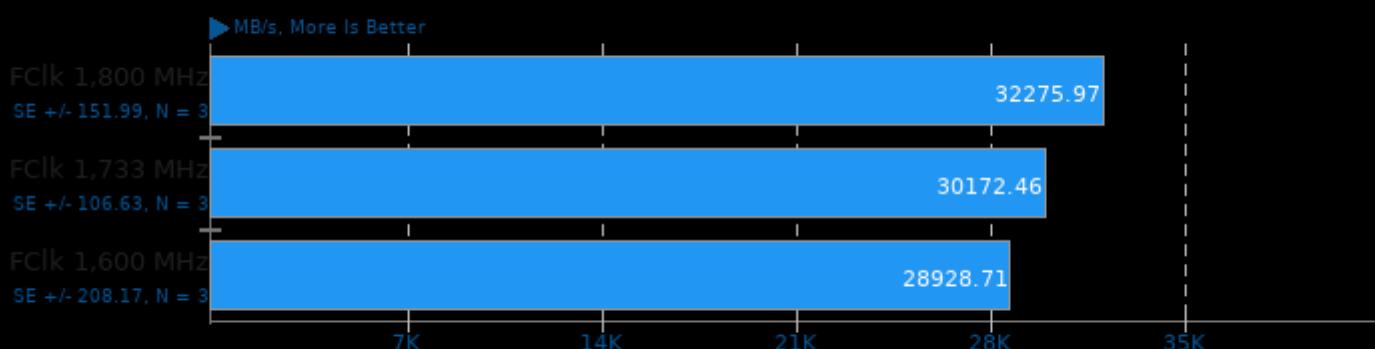
Type: Add - Benchmark: Floating Point



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

## RAMspeed SMP 3.5.0

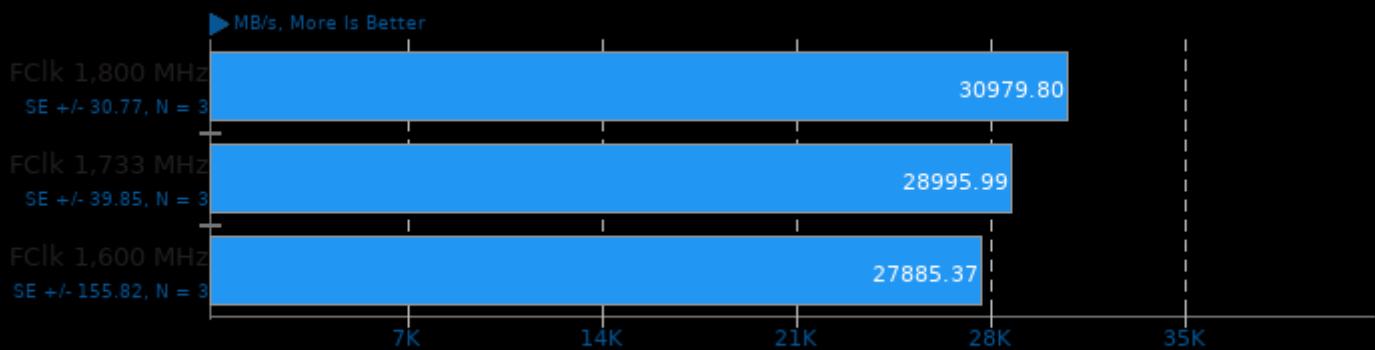
Type: Add - Benchmark: Integer



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

## RAMspeed SMP 3.5.0

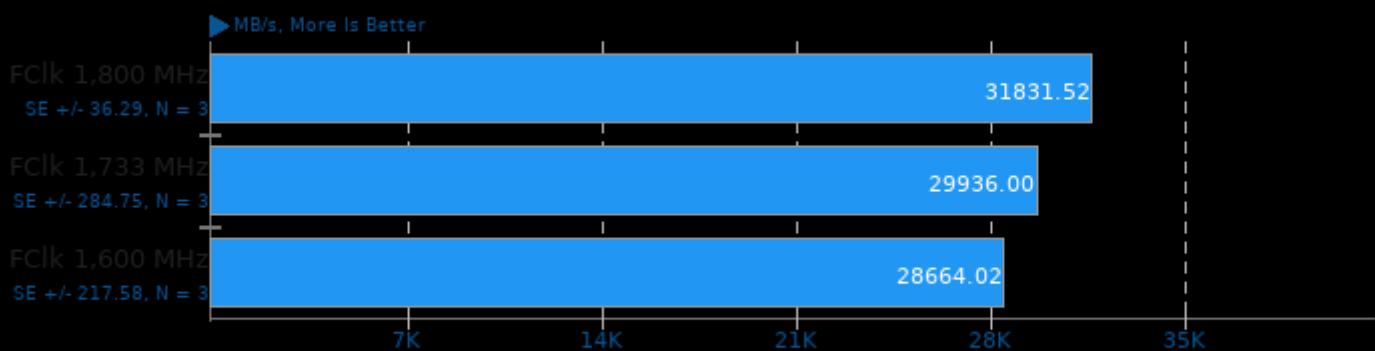
Type: Average - Benchmark: Floating Point



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

## RAMspeed SMP 3.5.0

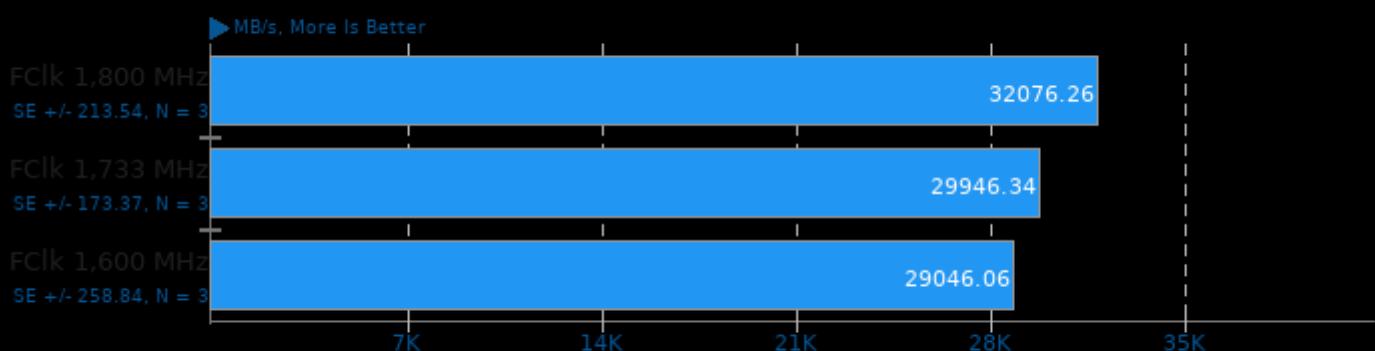
Type: Triad - Benchmark: Floating Point



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

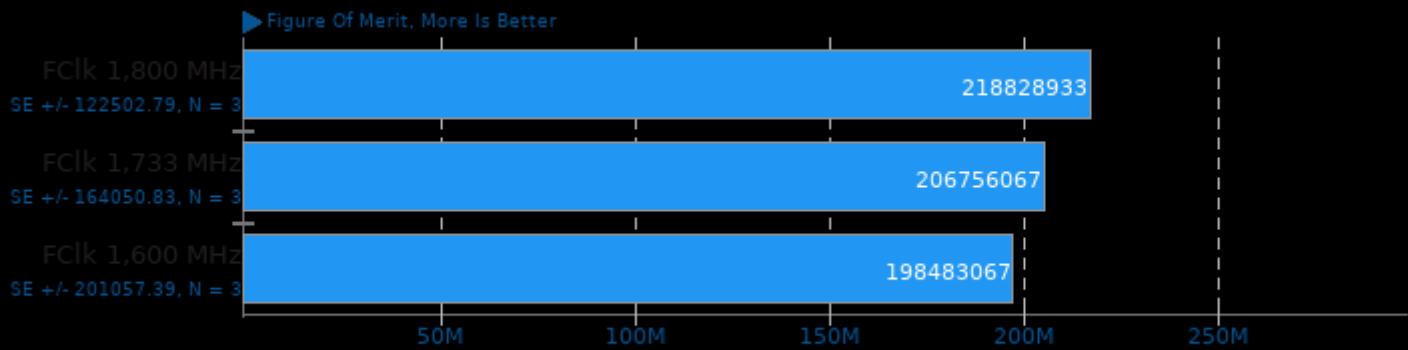
## RAMspeed SMP 3.5.0

Type: Triad - Benchmark: Integer



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

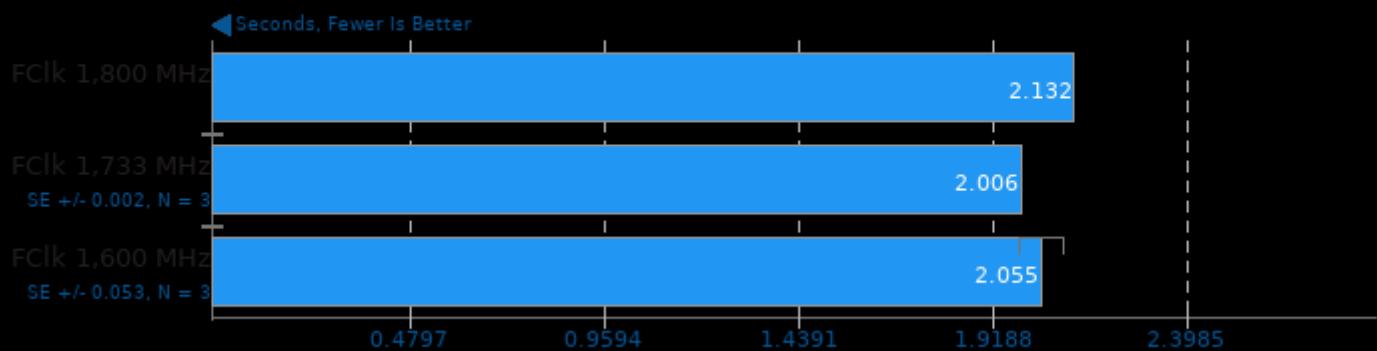
## Algebraic Multi-Grid Benchmark 1.2



1. (CC) gcc options: -lparcsr\_ls -lparcsr\_mv -lseq\_mv -llj\_mv -lkrylov -lHYPRE\_utilities -lm -fopenmp -lmpi

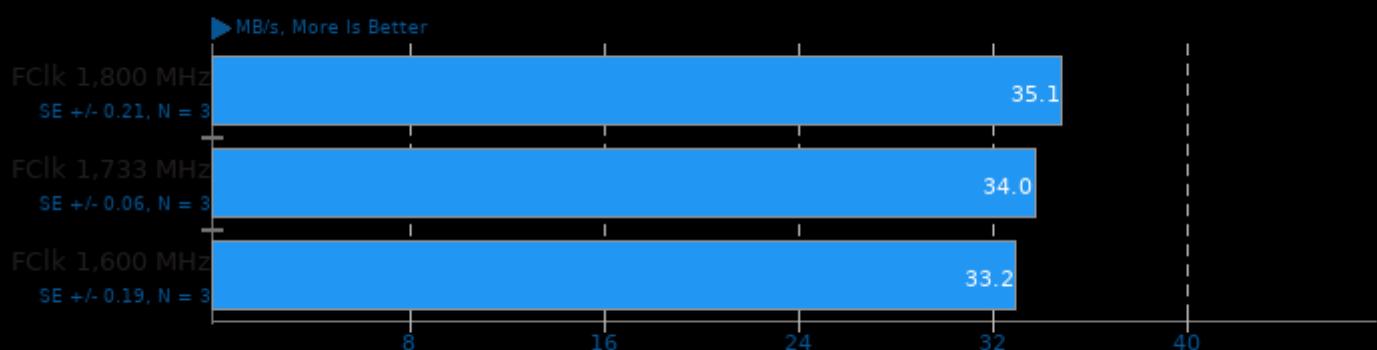
## Timed Clash Compilation

Time To Compile



## Zstd Compression 1.5.0

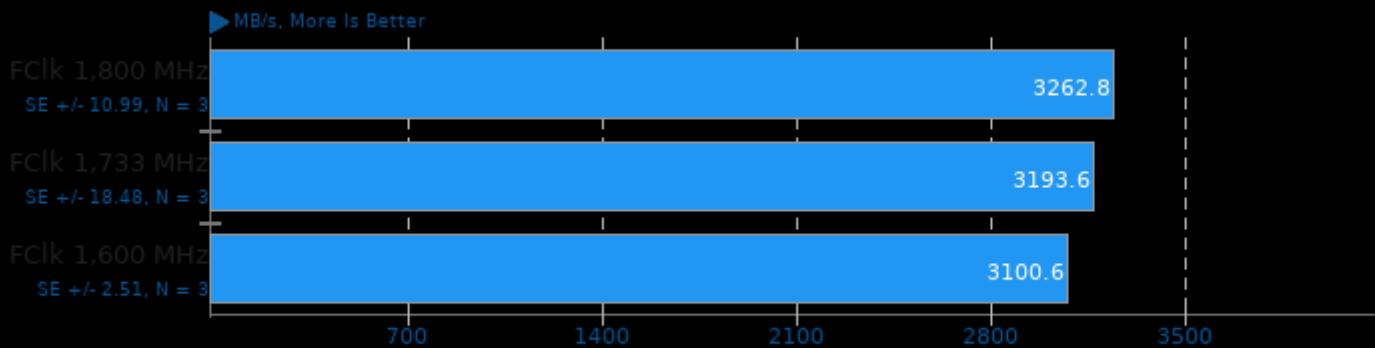
Compression Level: 19 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -llzma

## Zstd Compression 1.5.0

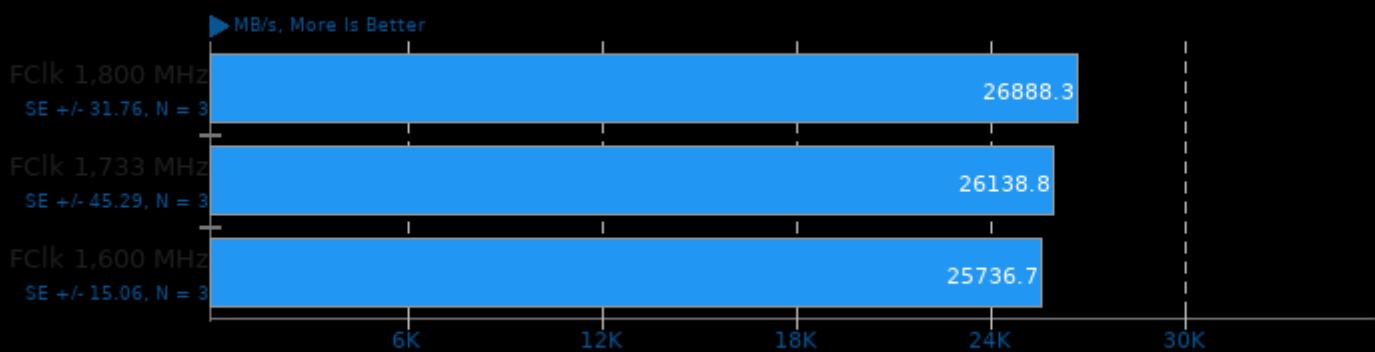
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma

## C-Blosc 2.0

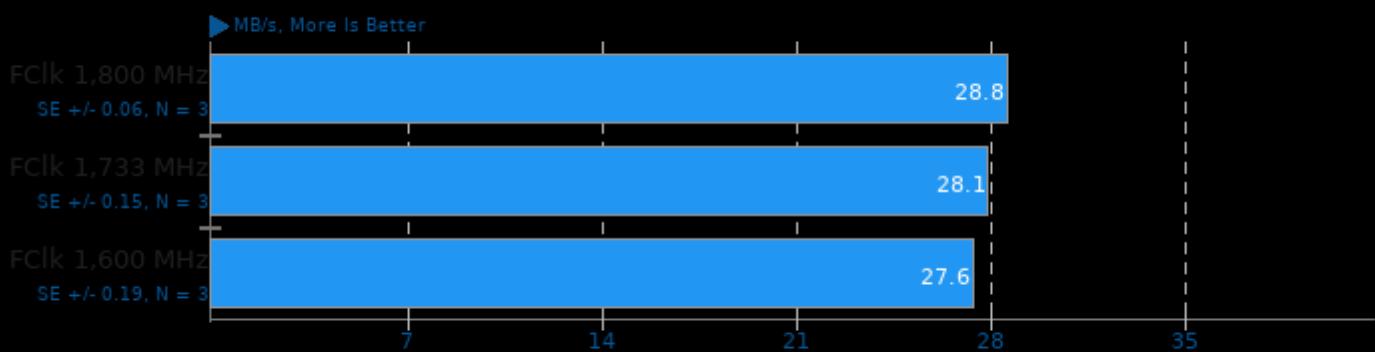
Compressor: blosclz



1. (CC) gcc options: -std=gnu99 -O3 -frt -lm

## Zstd Compression 1.5.0

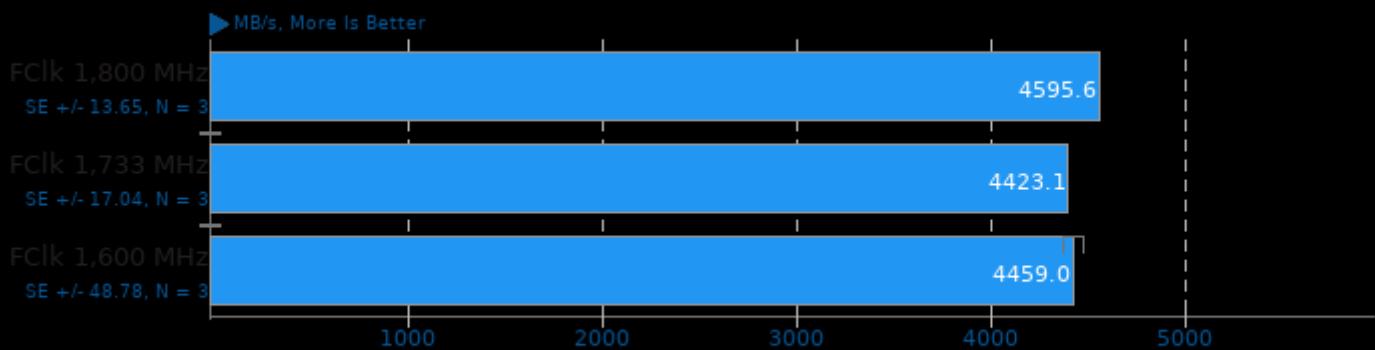
Compression Level: 19, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma

## Zstd Compression 1.5.0

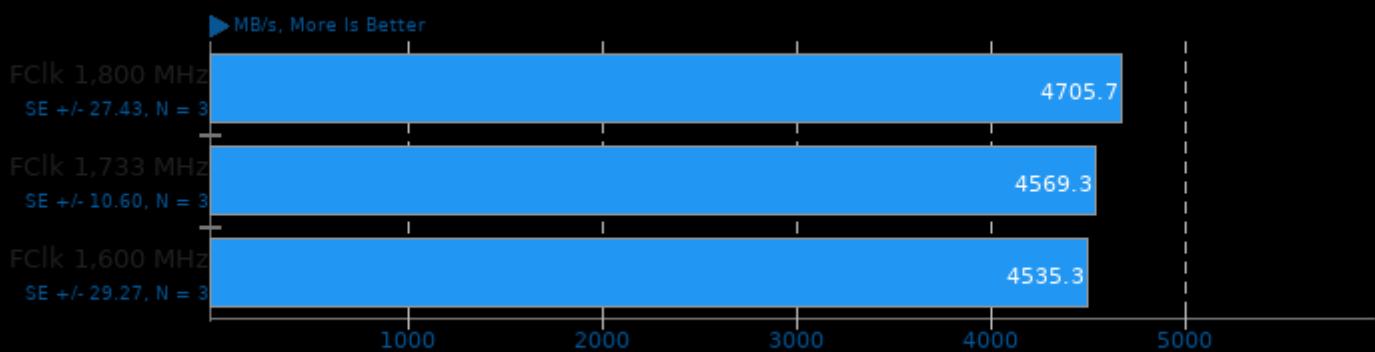
Compression Level: 8 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma

## Zstd Compression 1.5.0

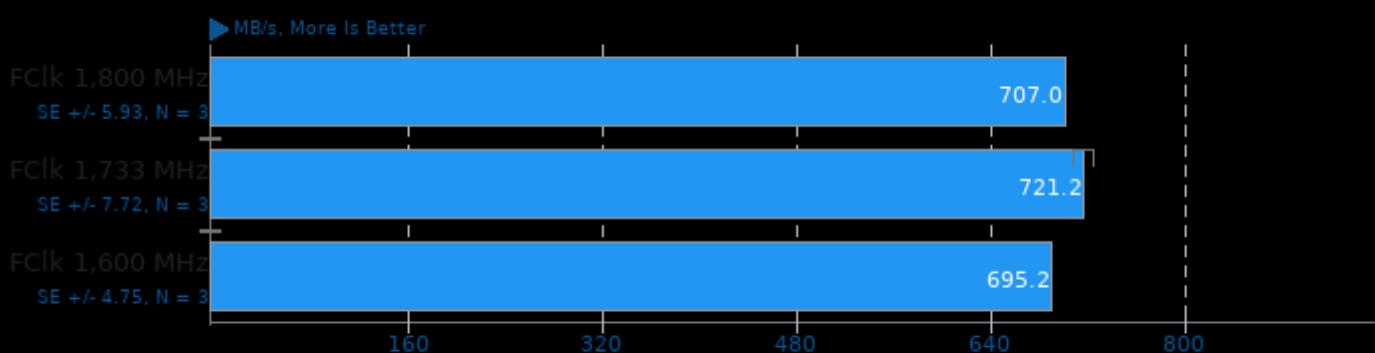
Compression Level: 3, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma

## Zstd Compression 1.5.0

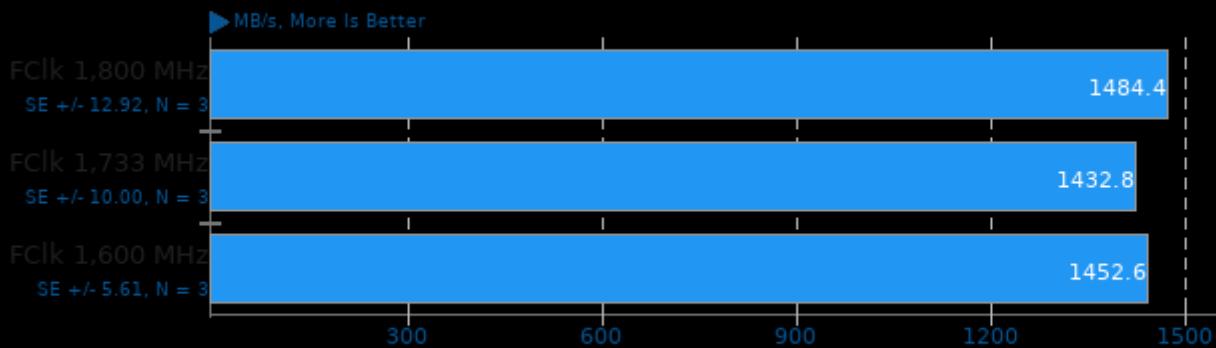
Compression Level: 8 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lizma

## Zstd Compression 1.5.0

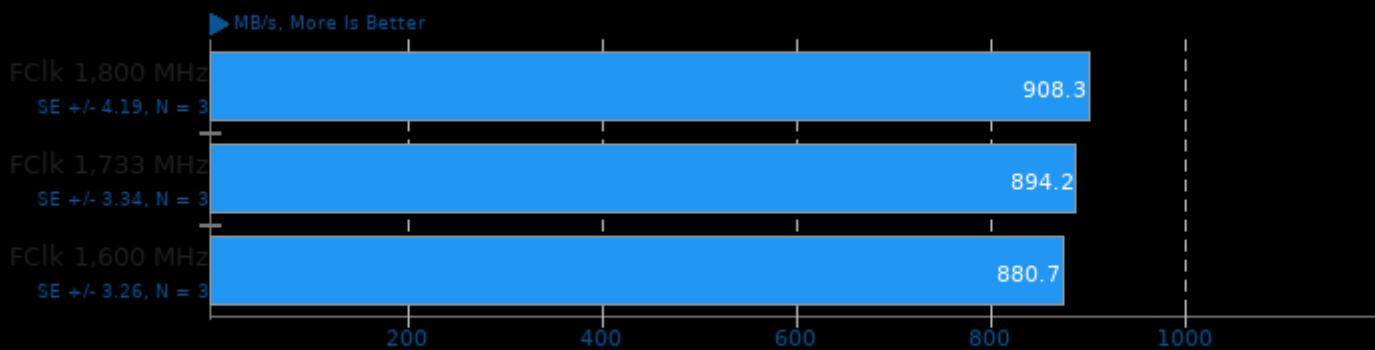
Compression Level: 3, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

## Zstd Compression 1.5.0

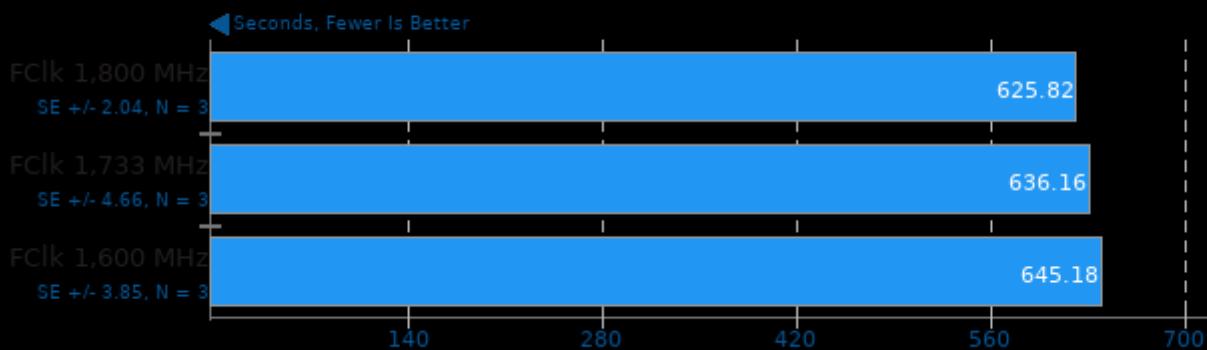
Compression Level: 8, Long Mode - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

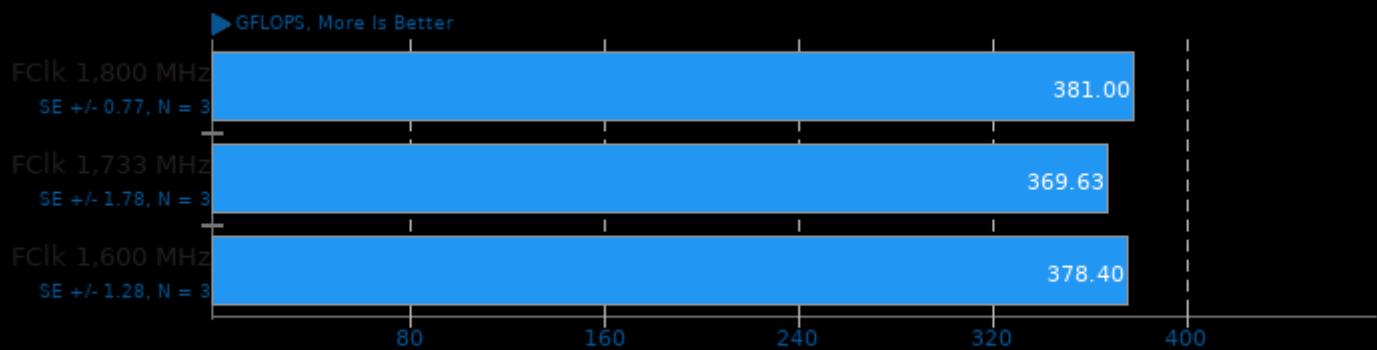
## Timed LLVM Compilation 13.0

Build System: Unix Makefiles



## ArrayFire 3.7

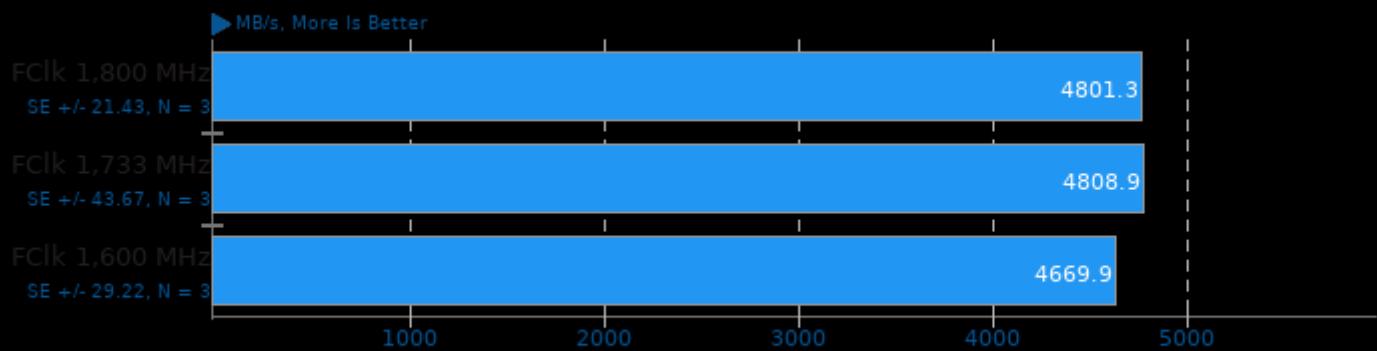
Test: BLAS CPU



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

## Zstd Compression 1.5.0

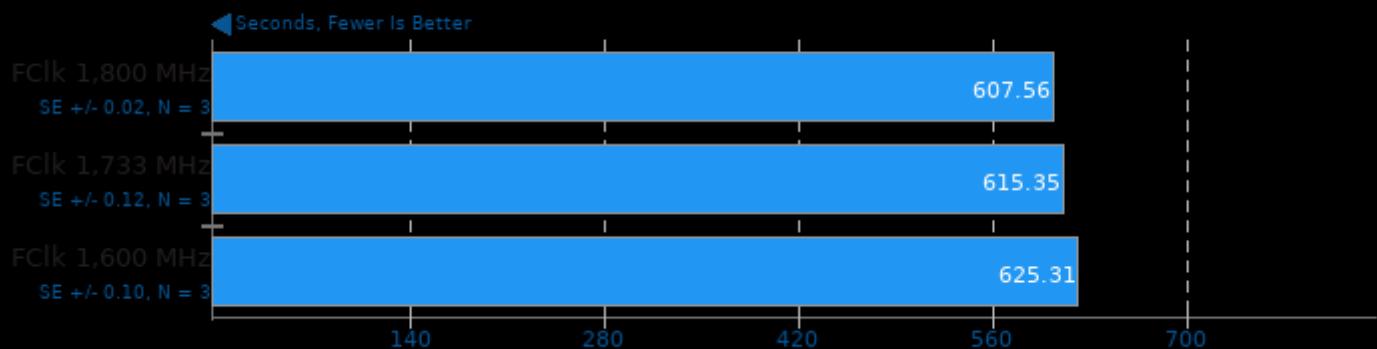
Compression Level: 8, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

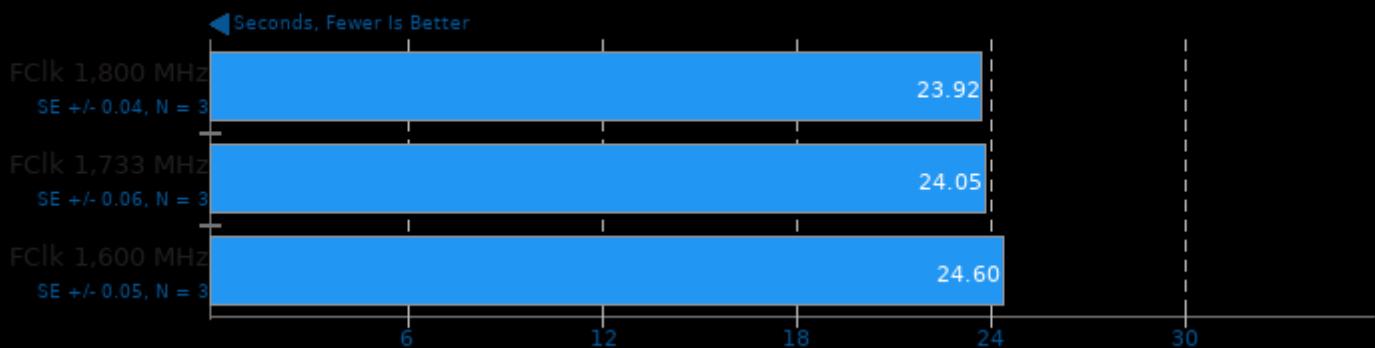
## Timed LLVM Compilation 13.0

Build System: Ninja



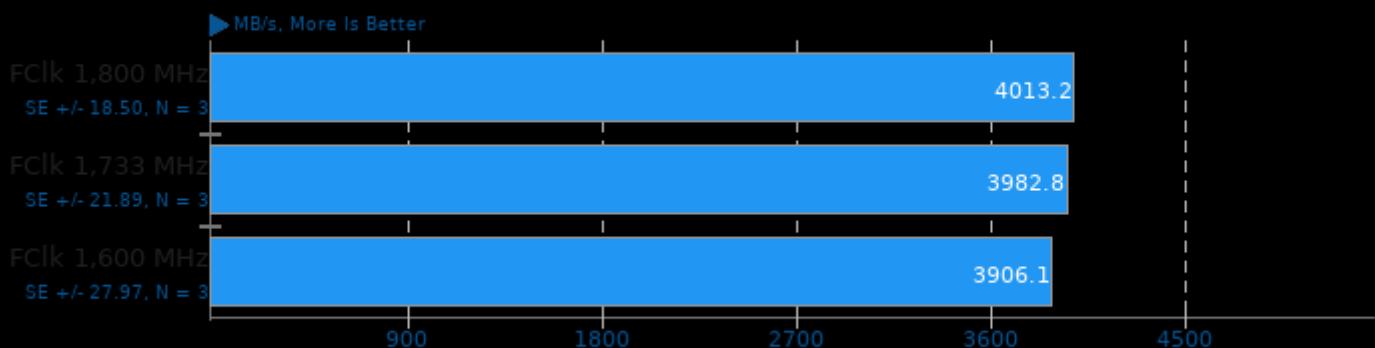
## Timed ImageMagick Compilation 6.9.0

Time To Compile



## Zstd Compression 1.5.0

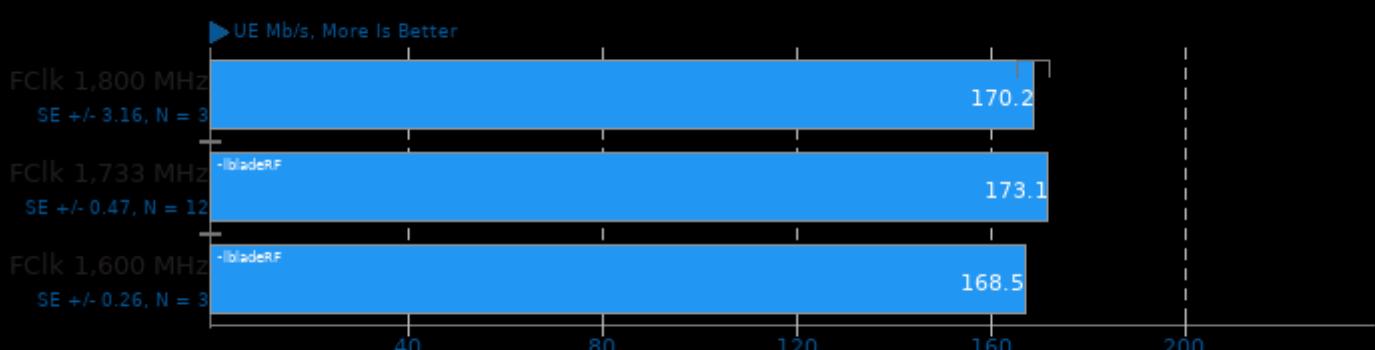
Compression Level: 19 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

## srsRAN 21.04

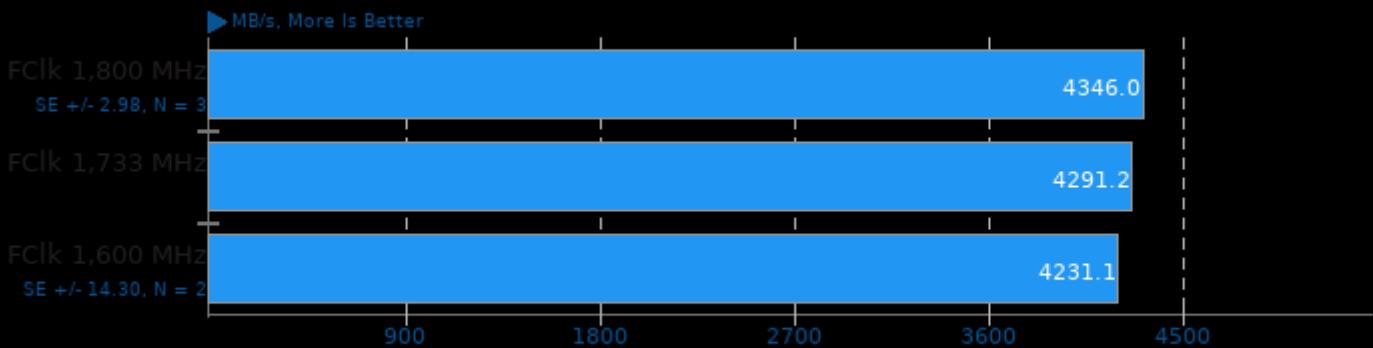
Test: 4G PHY\_DL\_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## Zstd Compression 1.5.0

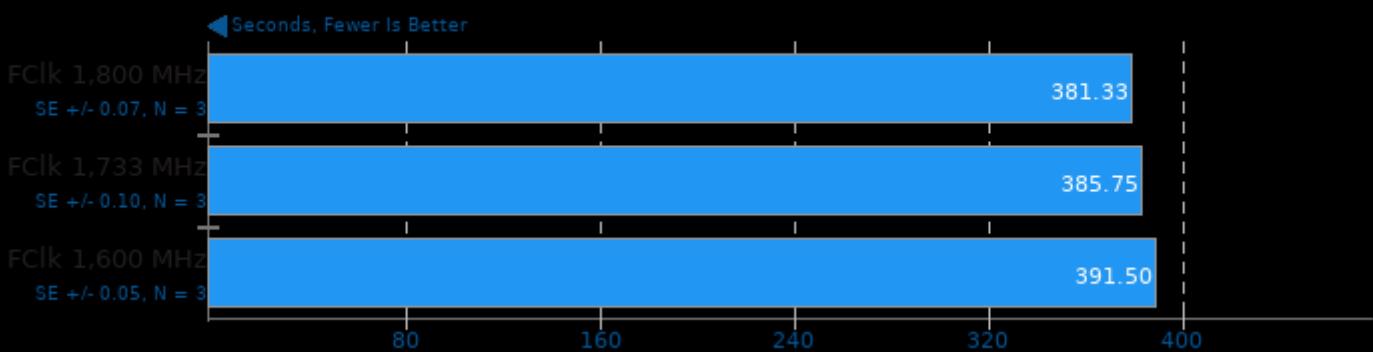
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

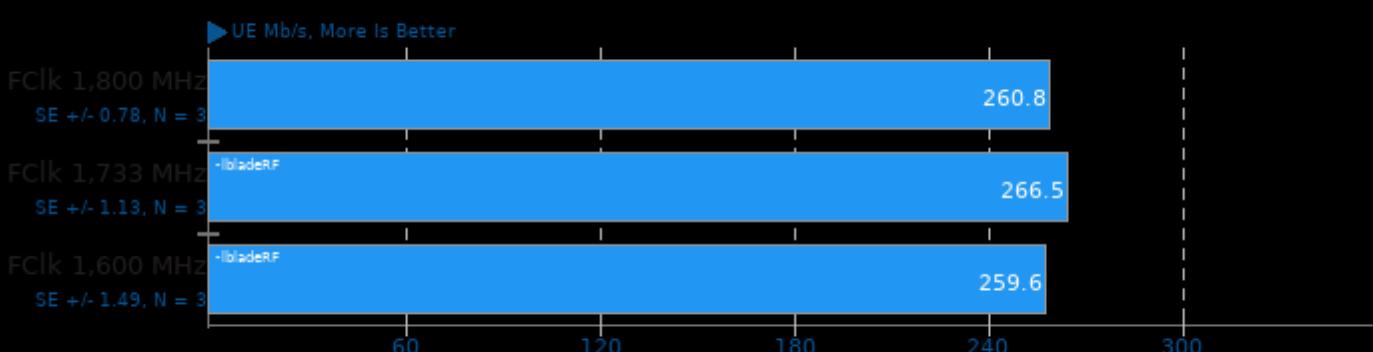
## Timed Node.js Compilation 15.11

Time To Compile



## srsRAN 21.04

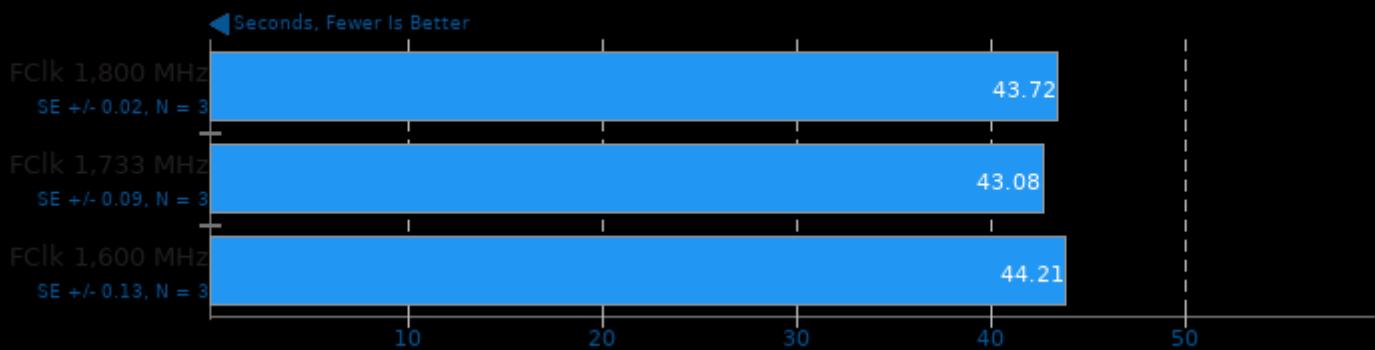
Test: 4G PHY\_DL\_Test 100 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

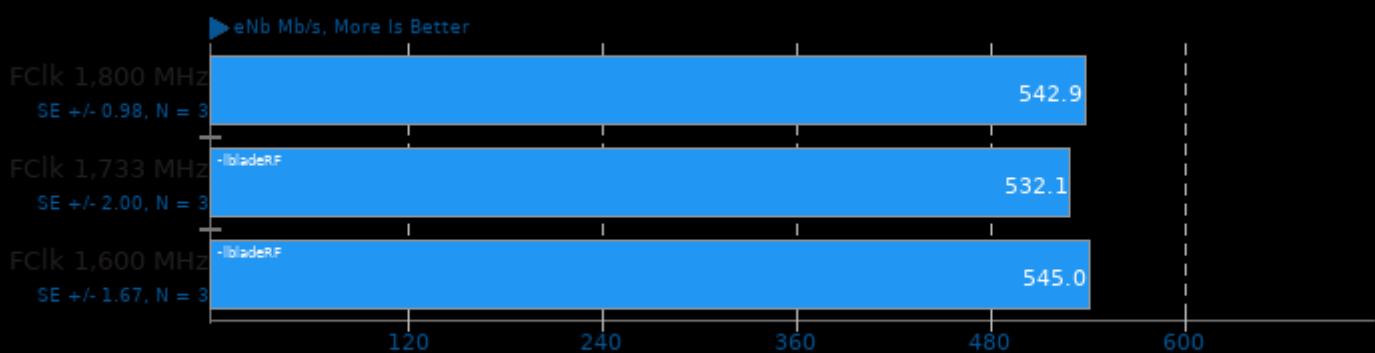
## Timed FFmpeg Compilation 4.4

Time To Compile



## srsRAN 21.04

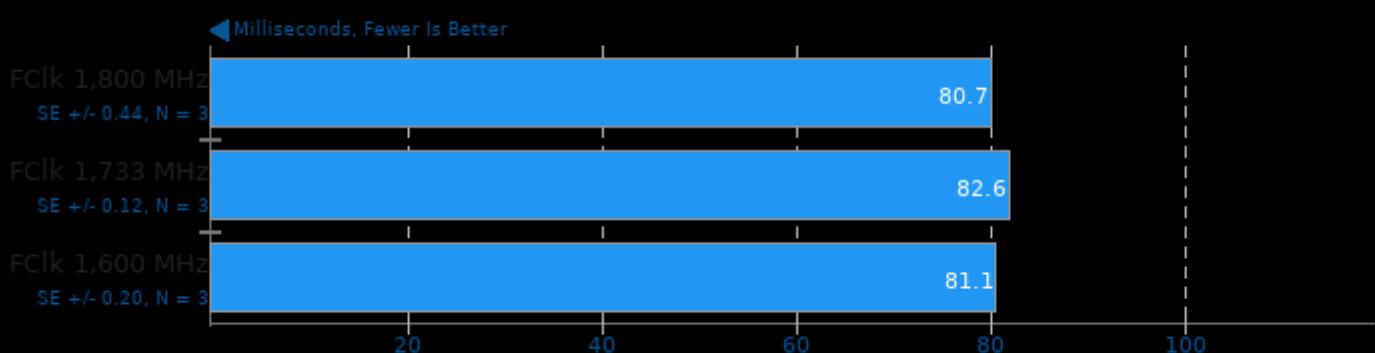
Test: 4G PHY\_DL\_Test 100 PRB MIMO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

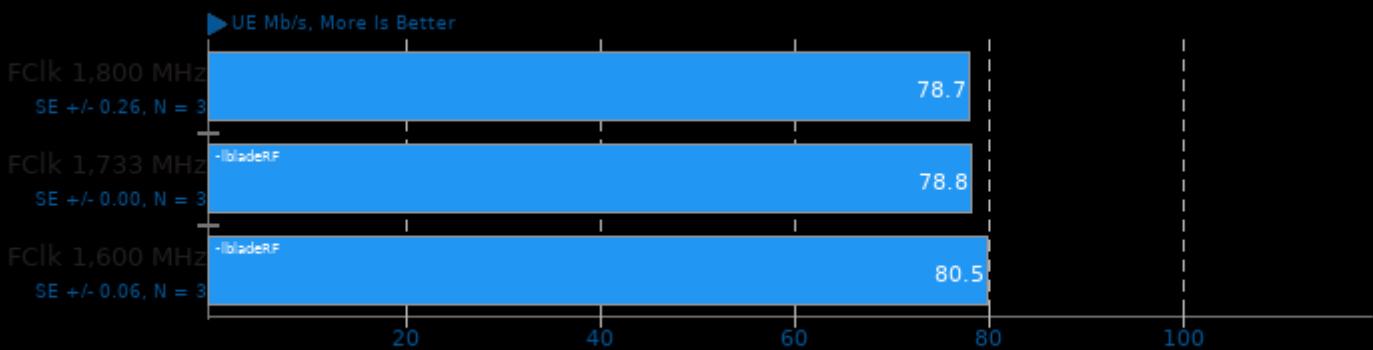
## PyPerformance 1.0.0

Benchmark: chaos



## srsRAN 21.04

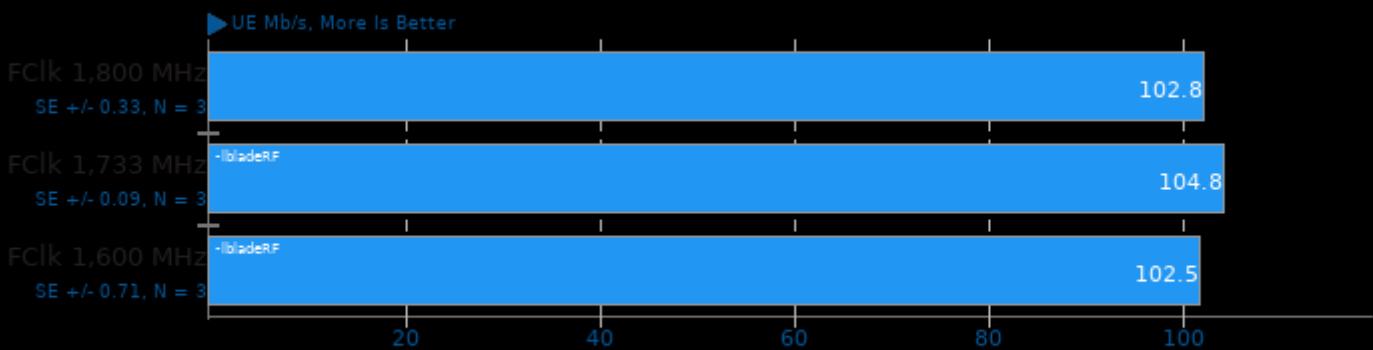
Test: 5G PHY\_DL\_NR Test 52 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## srsRAN 21.04

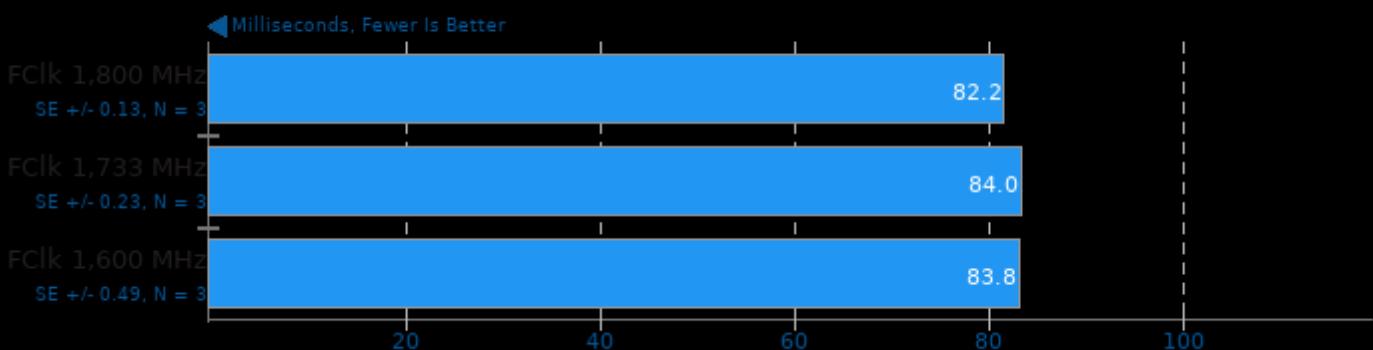
Test: 5G PHY\_DL\_NR Test 270 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

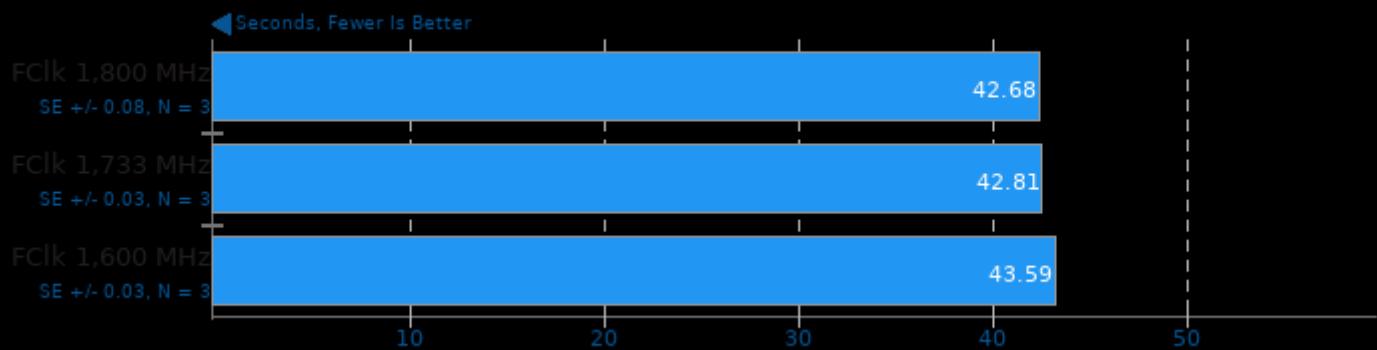
## PyPerformance 1.0.0

Benchmark: float



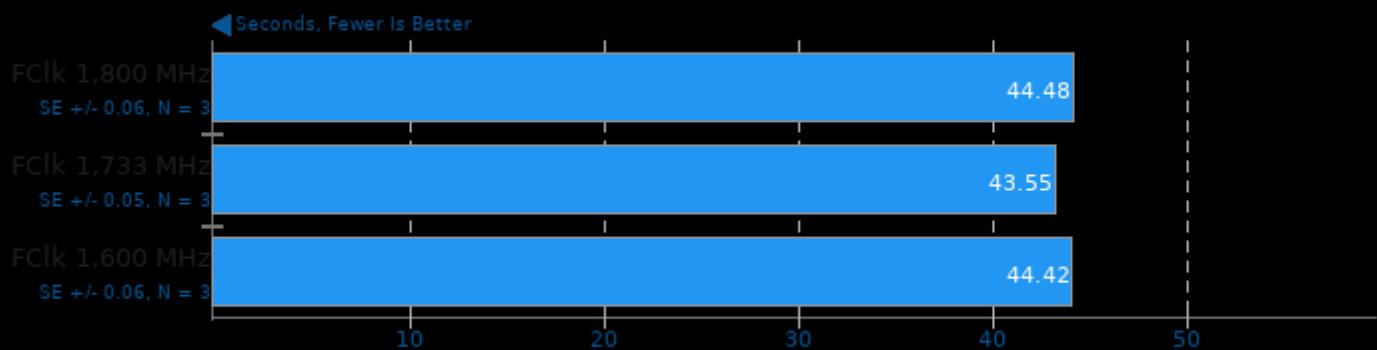
## Timed Mesa Compilation 21.0

Time To Compile



## SQLite Speedtest 3.30

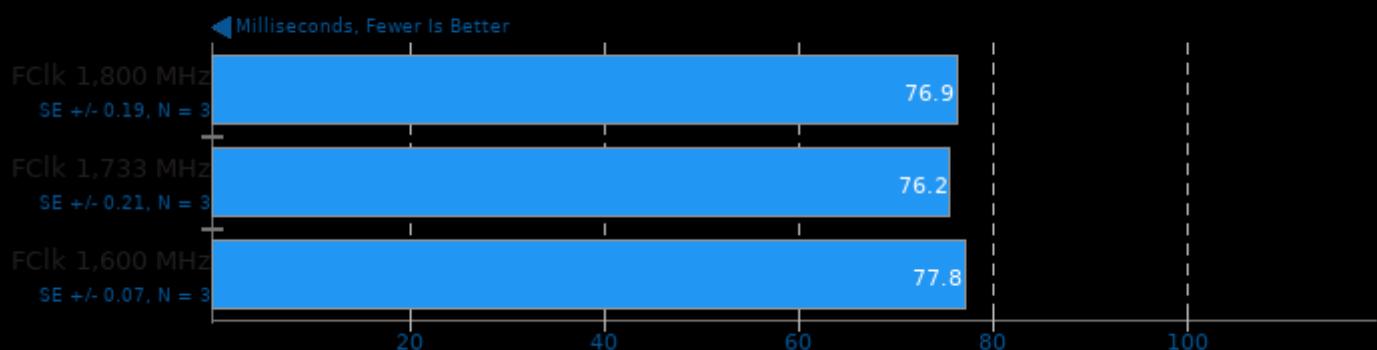
Timed Time - Size 1,000



1. (CC) gcc options: -O2 -fz

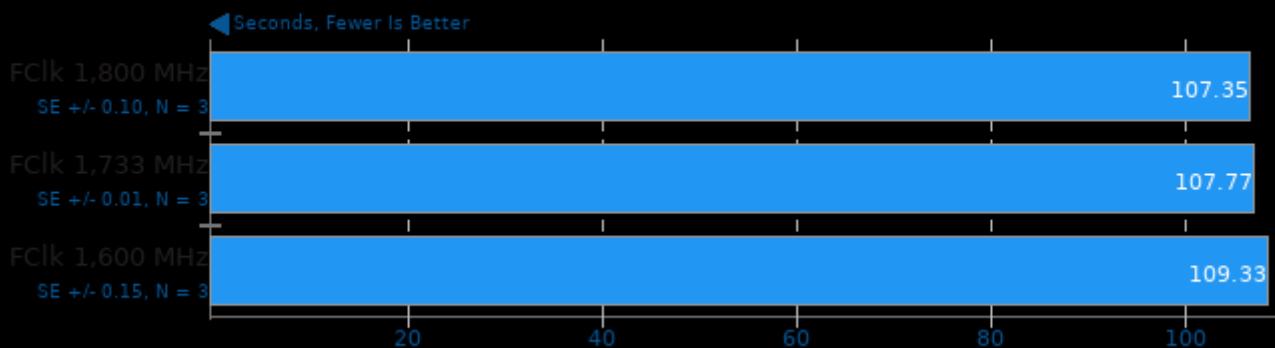
## PyPerformance 1.0.0

Benchmark: crypto\_pyaes



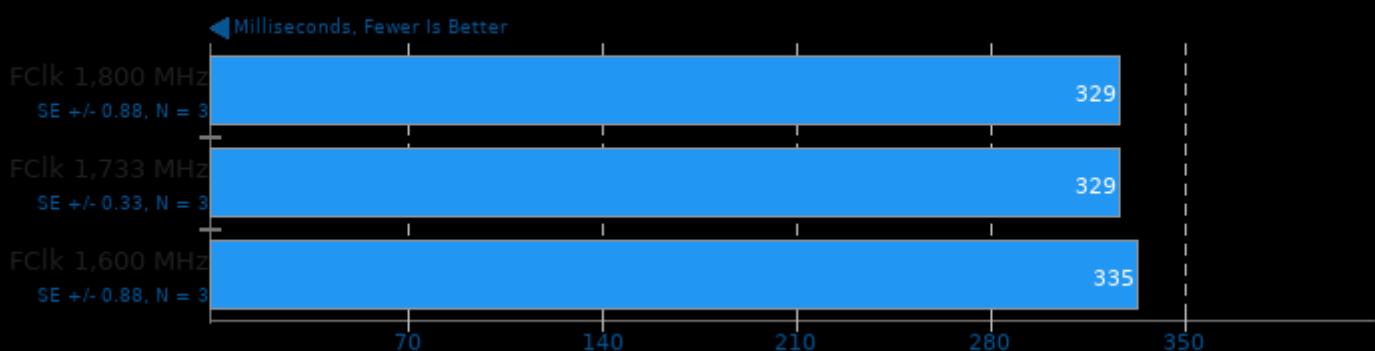
## Timed Godot Game Engine Compilation 3.2.3

Time To Compile



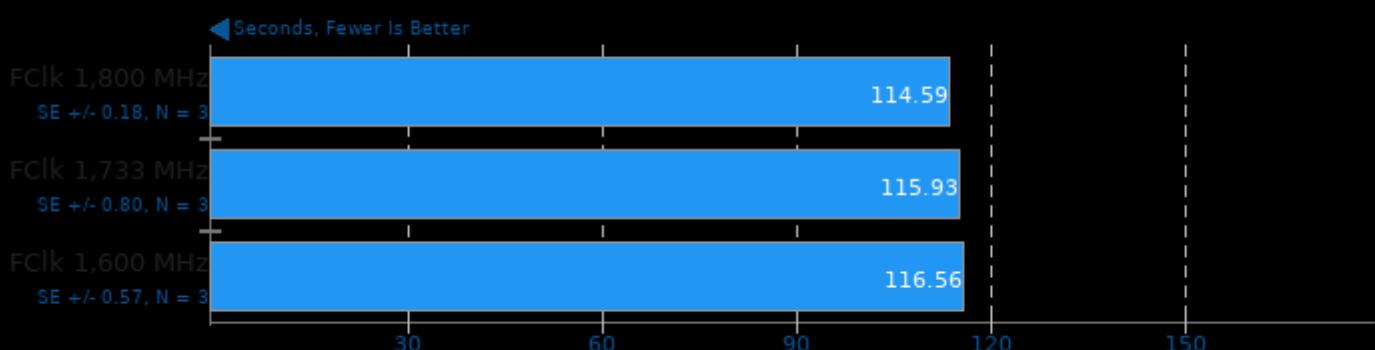
## PyPerformance 1.0.0

Benchmark: pickle\_pure\_python



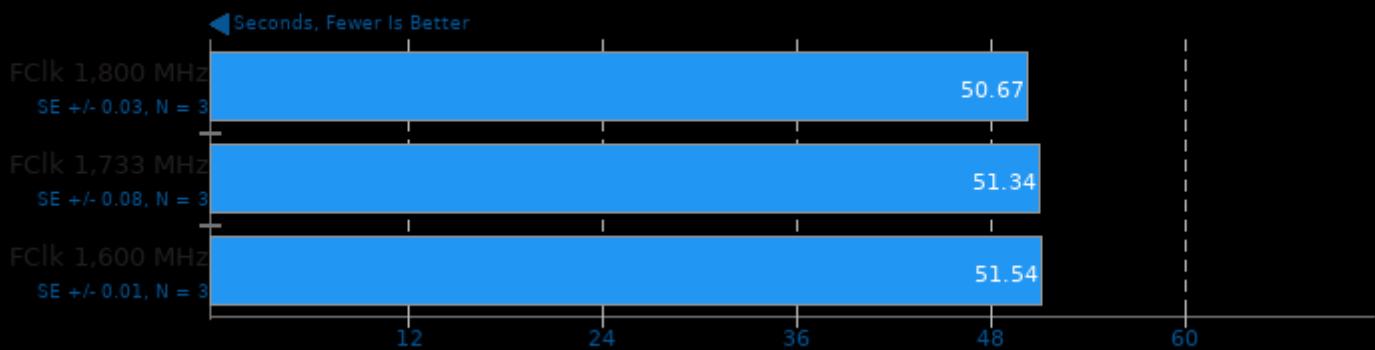
## Build2 0.13

Time To Compile



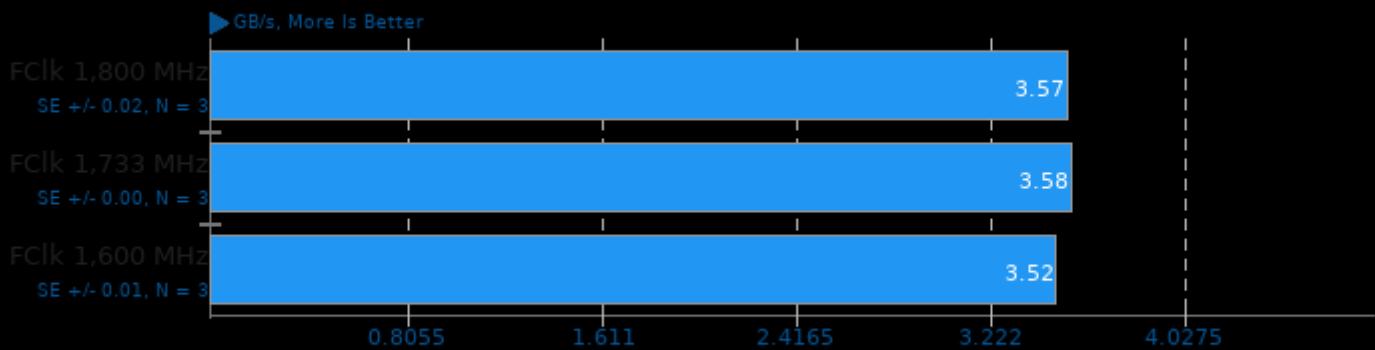
## Timed Eigen Compilation 3.3.9

Time To Compile



## simdjson 1.0

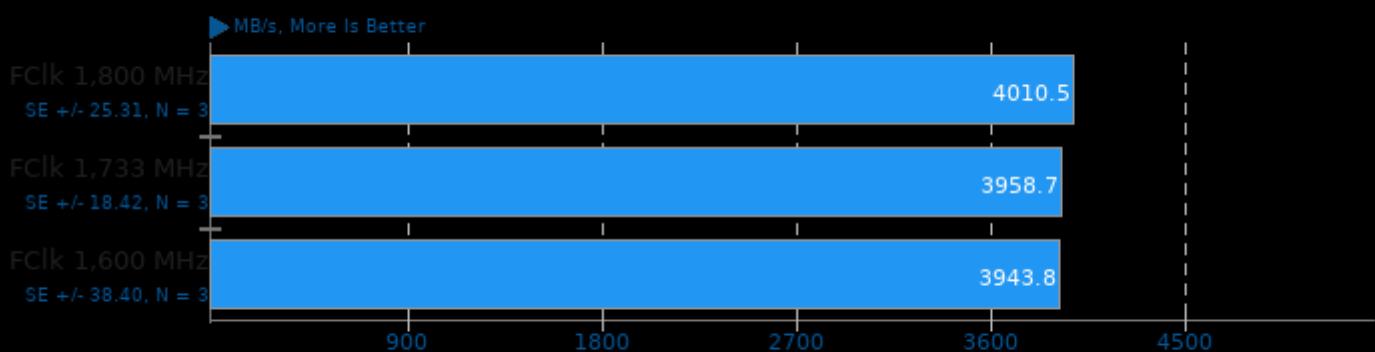
Throughput Test: Kostya



1. (CXX) g++ options: -O3

## Zstd Compression 1.5.0

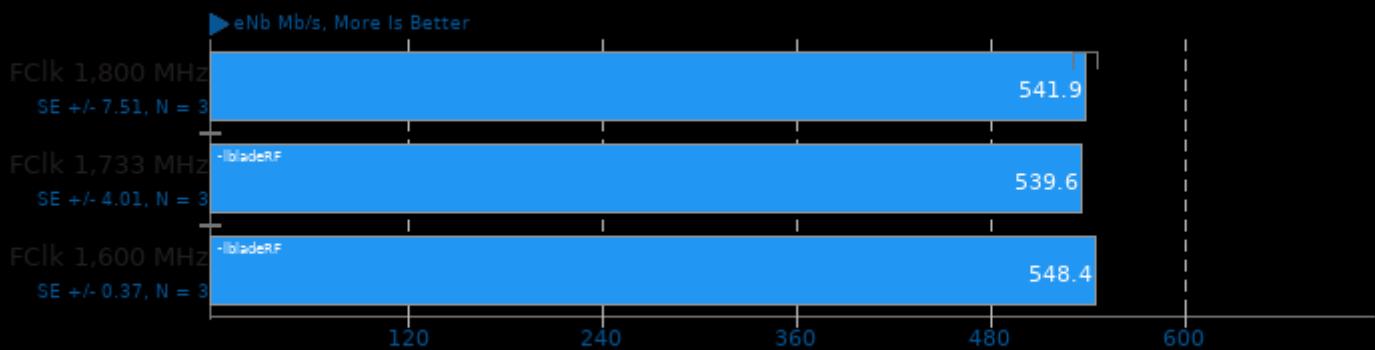
Compression Level: 19, Long Mode - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz -lzma

## srsRAN 21.04

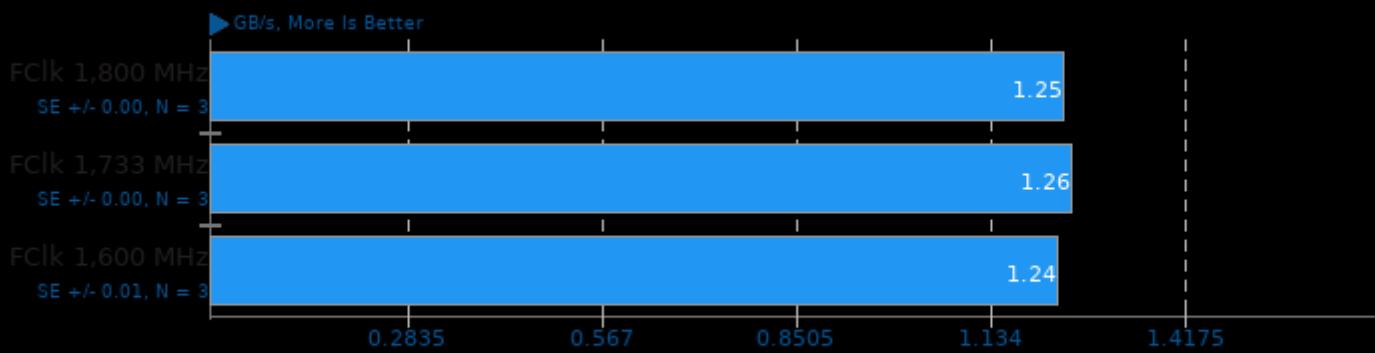
Test: 4G PHY\_DL\_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## simdjson 1.0

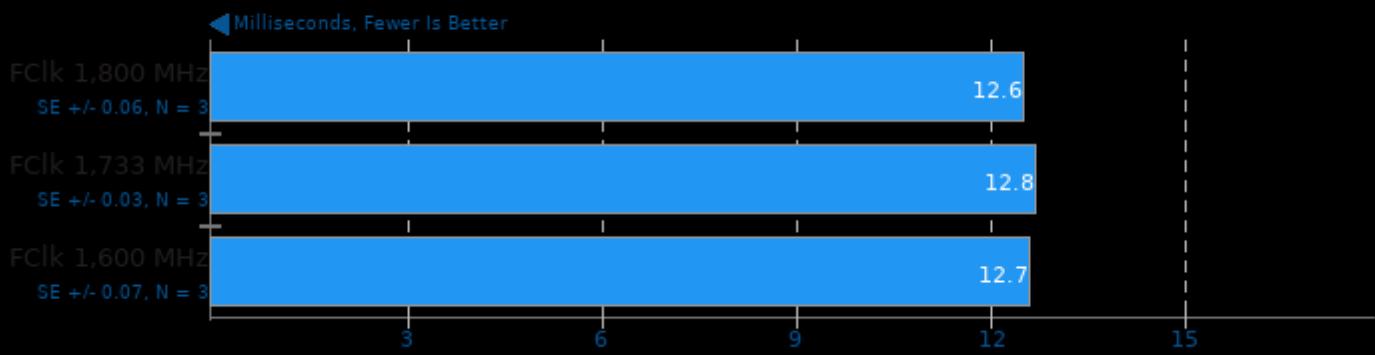
Throughput Test: LargeRandom



1. (CXX) g++ options: -O3

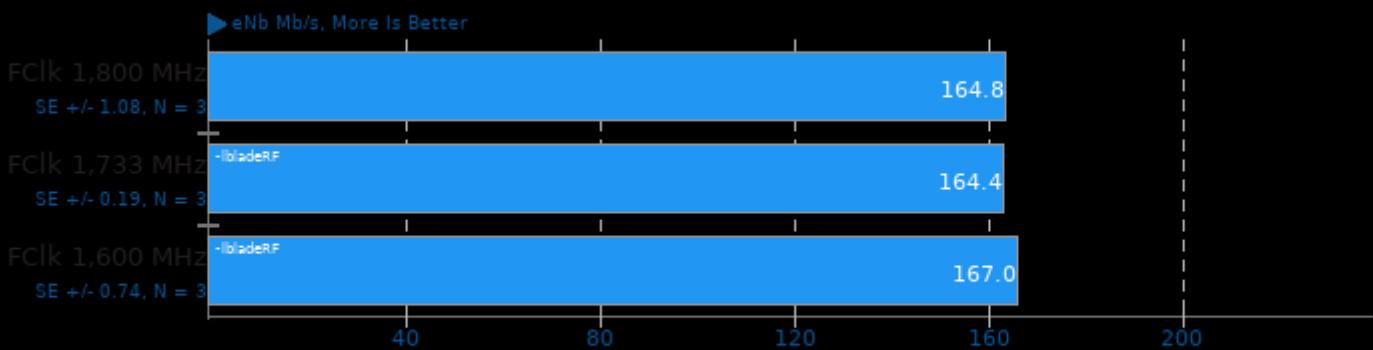
## PyPerformance 1.0.0

Benchmark: pathlib



## srsRAN 21.04

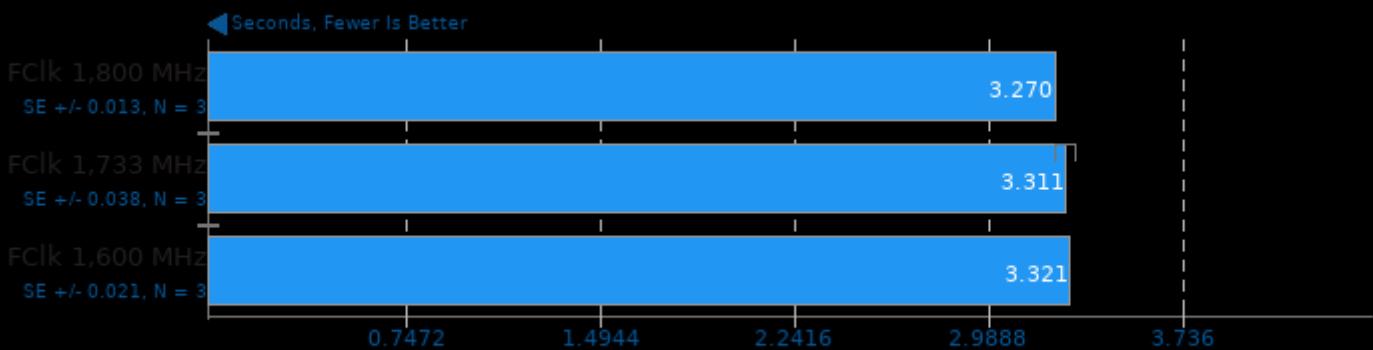
Test: 5G PHY\_DL\_NR Test 52 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## t-test1 2017-01-13

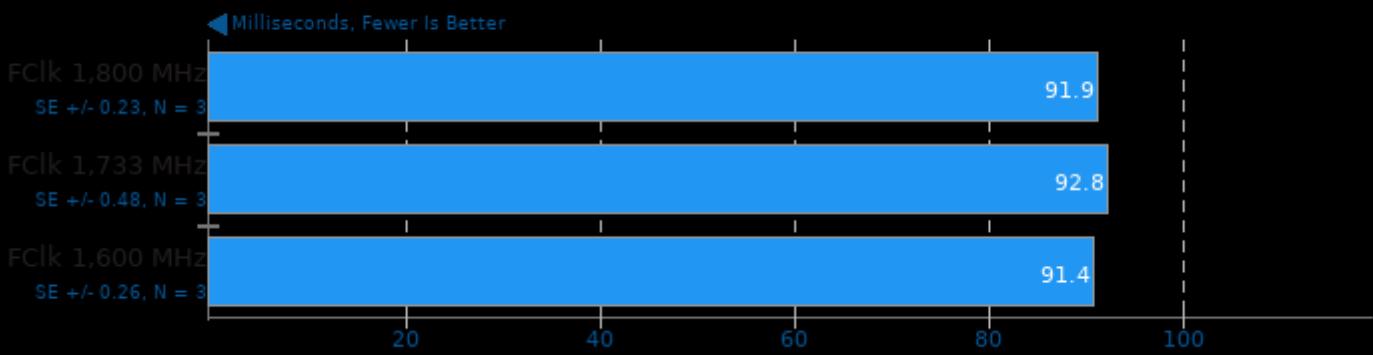
Threads: 2



1. (CC) gcc options: -pthread

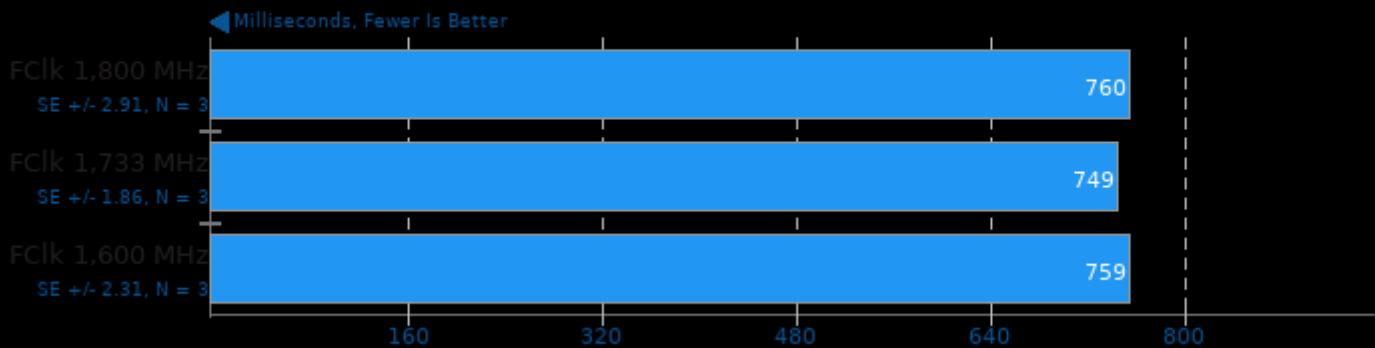
## PyPerformance 1.0.0

Benchmark: nbody



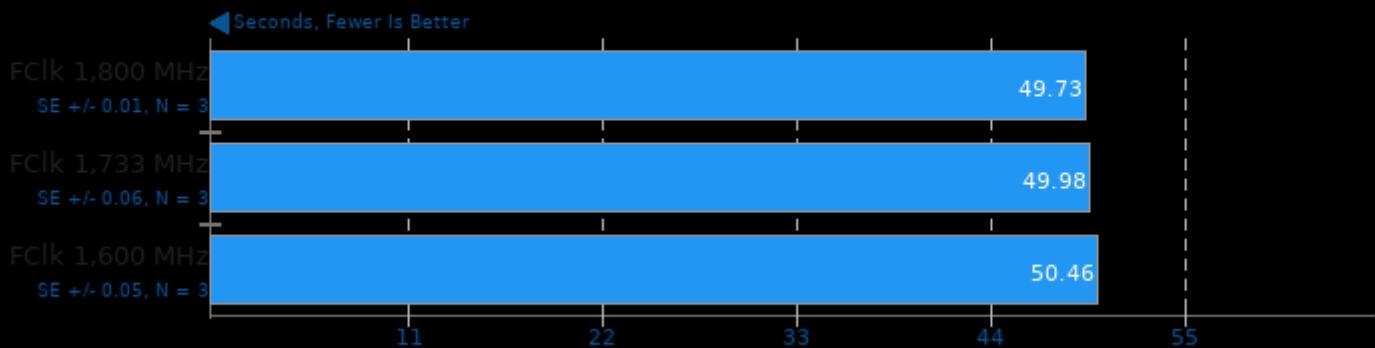
## PyBench 2018-02-16

Total For Average Test Times



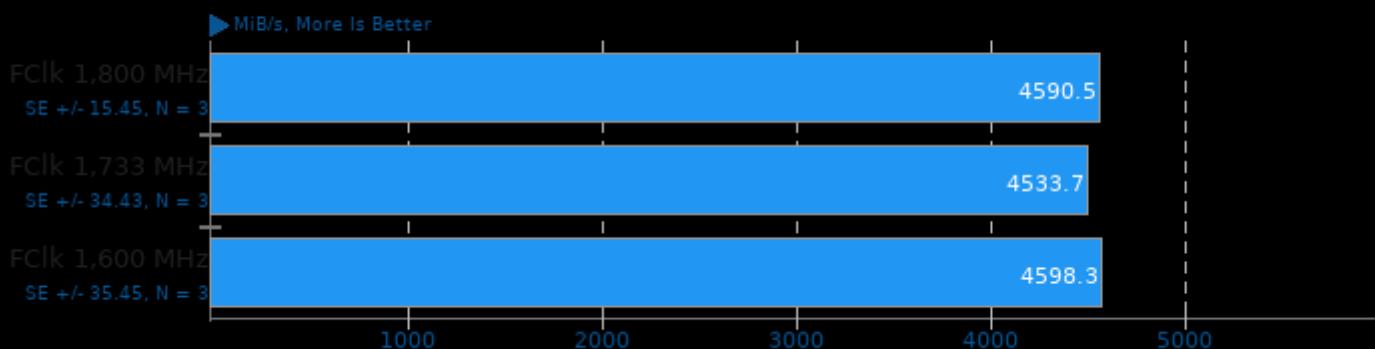
## Timed GDB GNU Debugger Compilation 10.2

Time To Compile



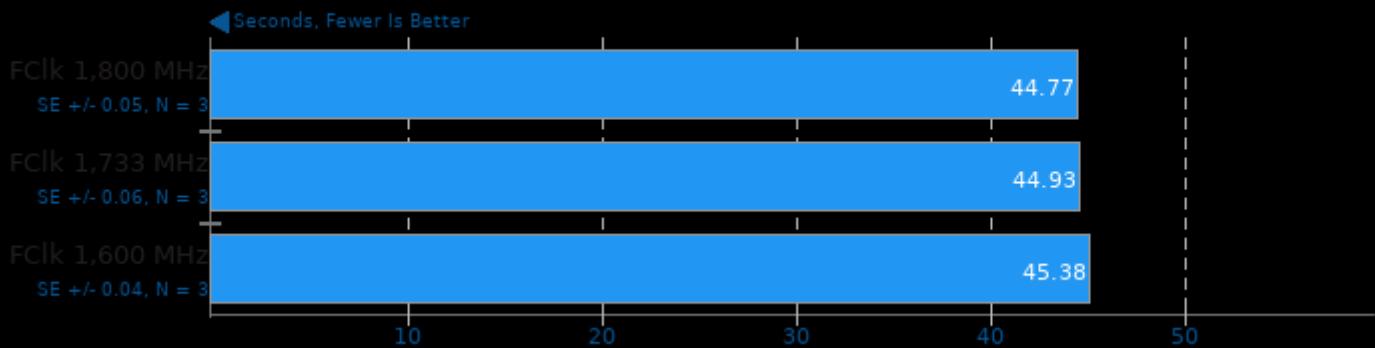
## Cryptsetup

AES-XTS 512b Decryption



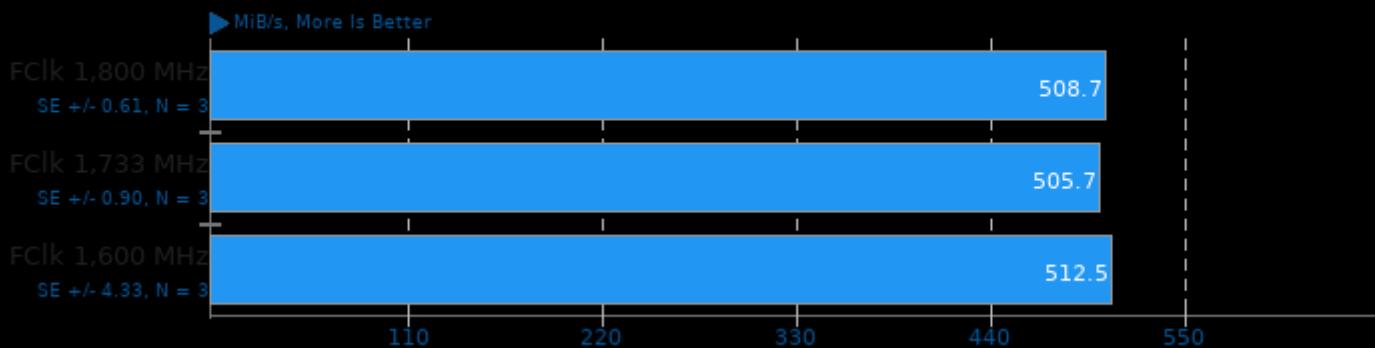
## Timed PHP Compilation 7.4.2

Time To Compile



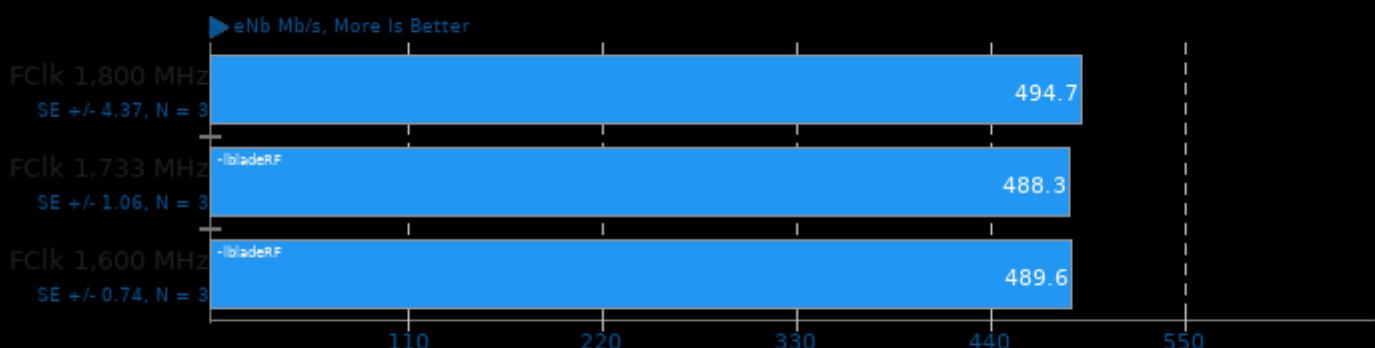
## Cryptsetup

Twofish-XTS 256b Encryption



## srsRAN 21.04

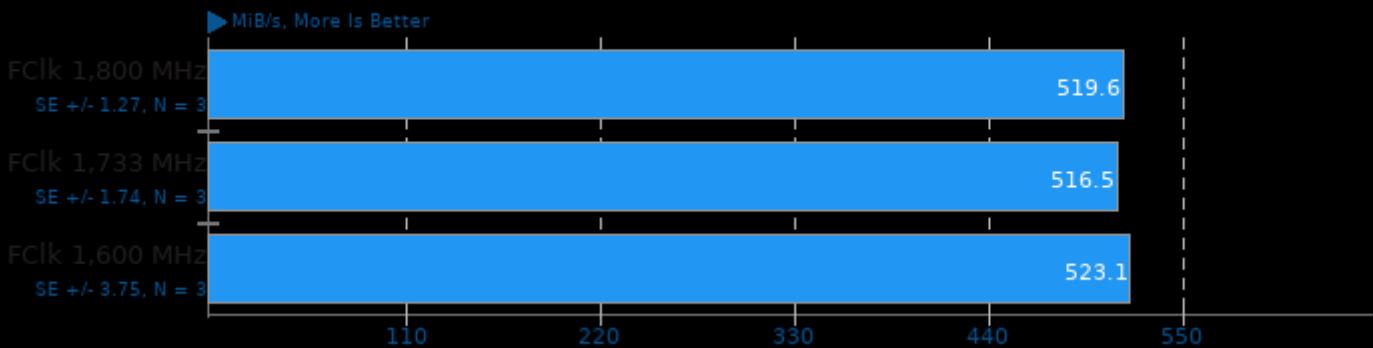
Test: 4G PHY\_DL\_Test 100 PRB SISO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

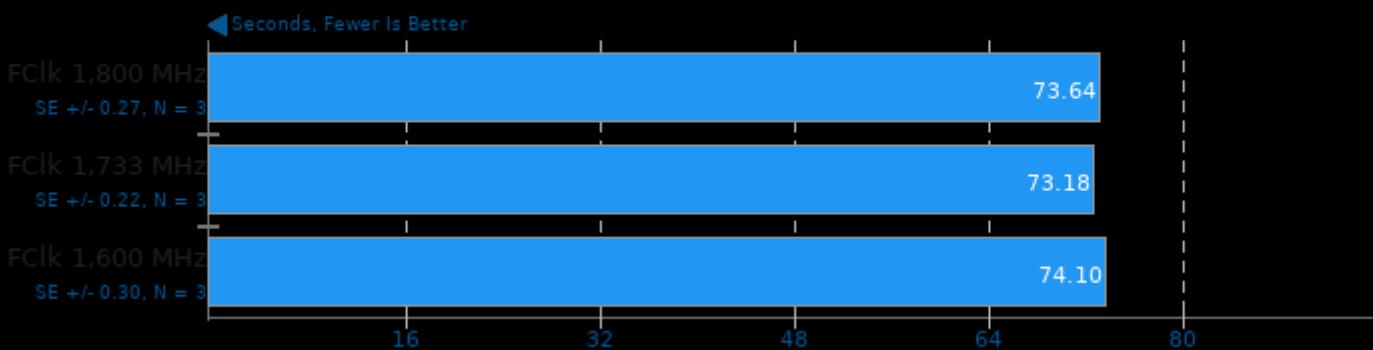
## Cryptsetup

Twofish-XTS 256b Decryption



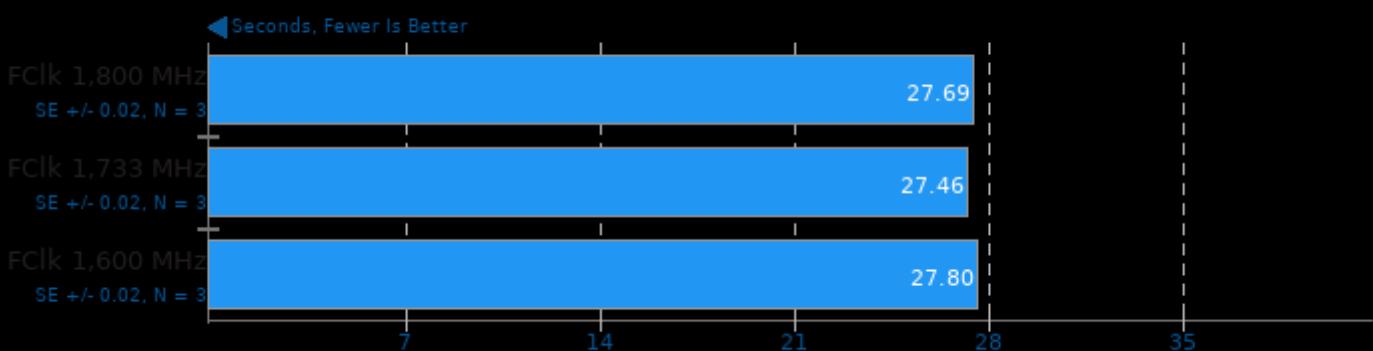
## Timed Linux Kernel Compilation 5.14

Time To Compile



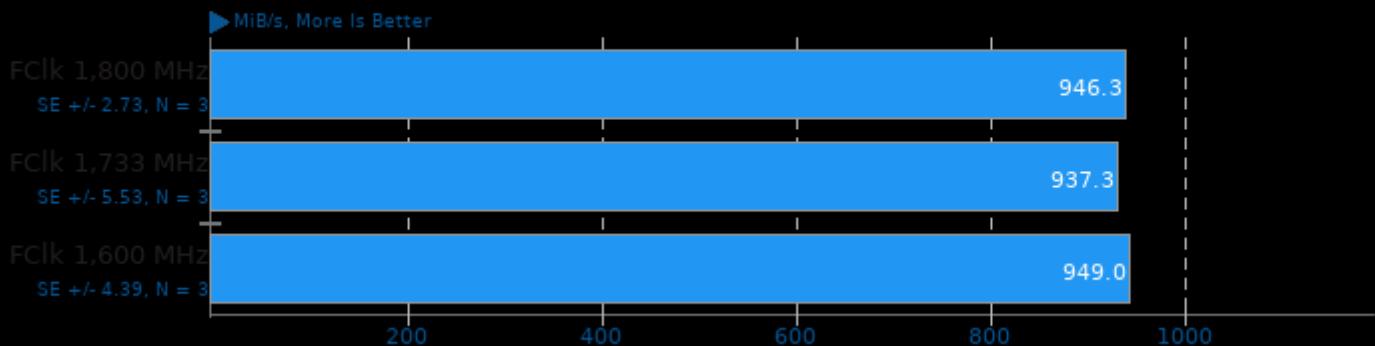
## Timed MPlayer Compilation 1.4

Time To Compile



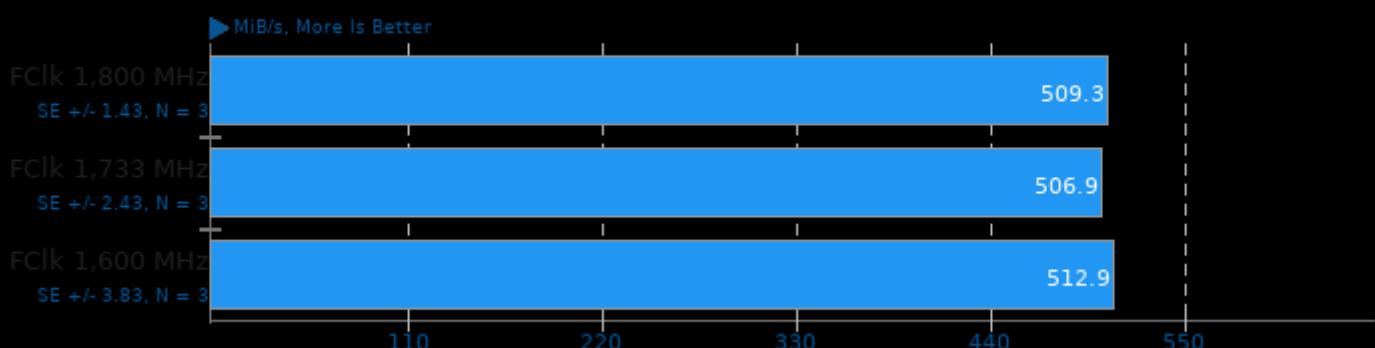
## Cryptsetup

Serpent-XTS 512b Decryption



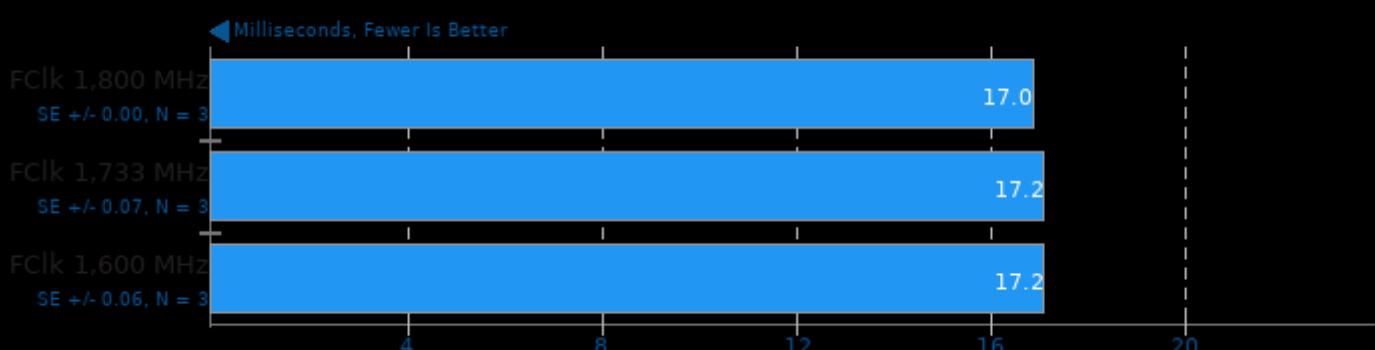
## Cryptsetup

Twofish-XTS 512b Encryption



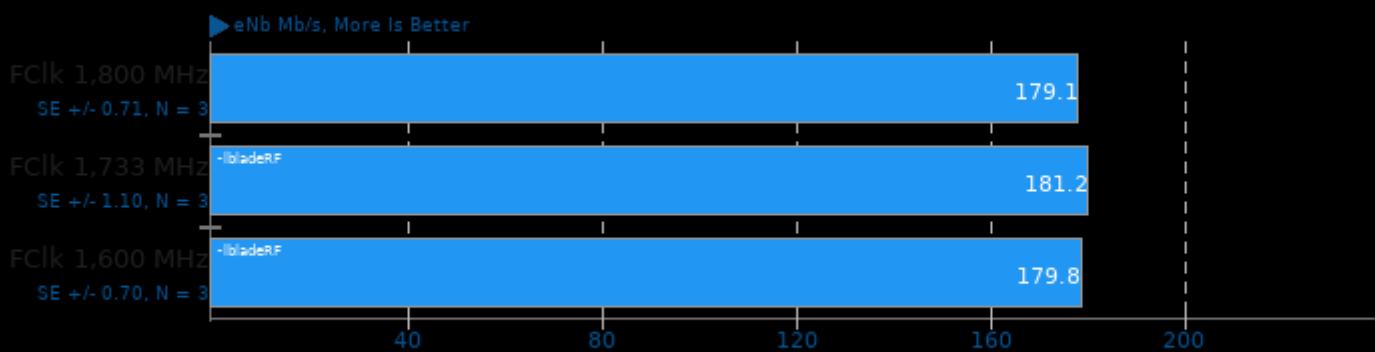
## PyPerformance 1.0.0

Benchmark: json.loads



## srsRAN 21.04

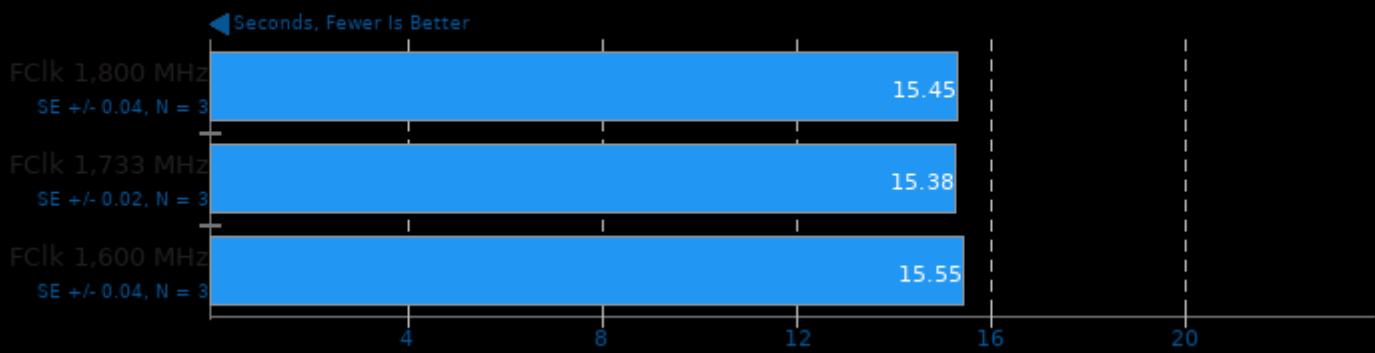
Test: 5G PHY\_DL\_NR Test 270 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

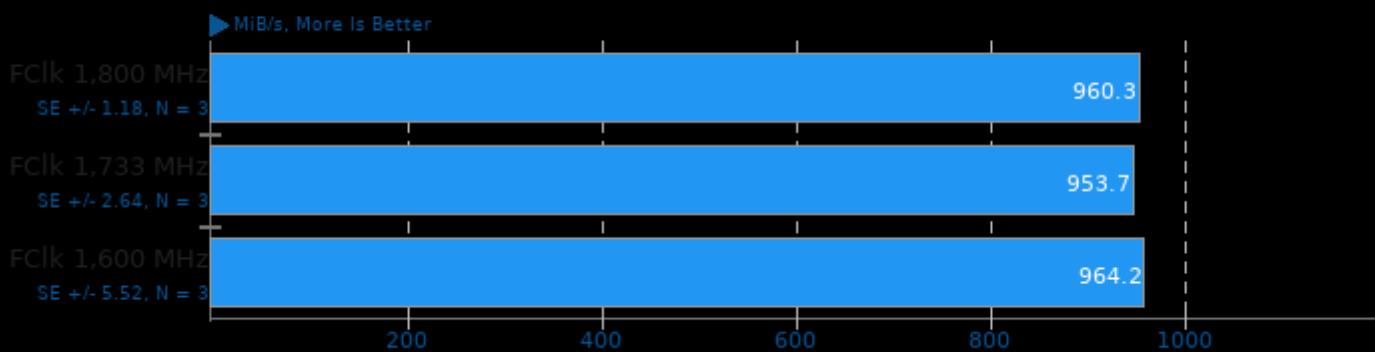
## Timed Apache Compilation 2.4.41

Time To Compile



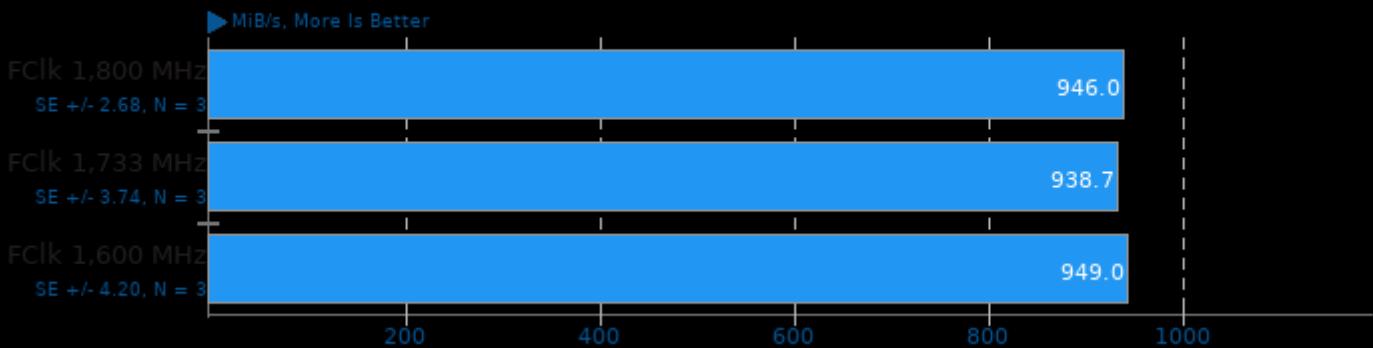
## Cryptsetup

Serpent-XTS 256b Encryption



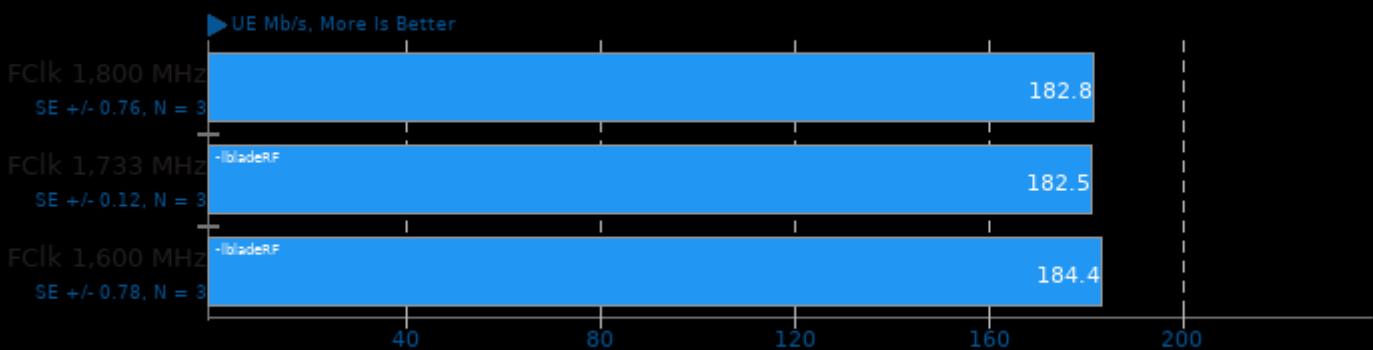
## Cryptsetup

Serpent-XTS 256b Decryption



## srsRAN 21.04

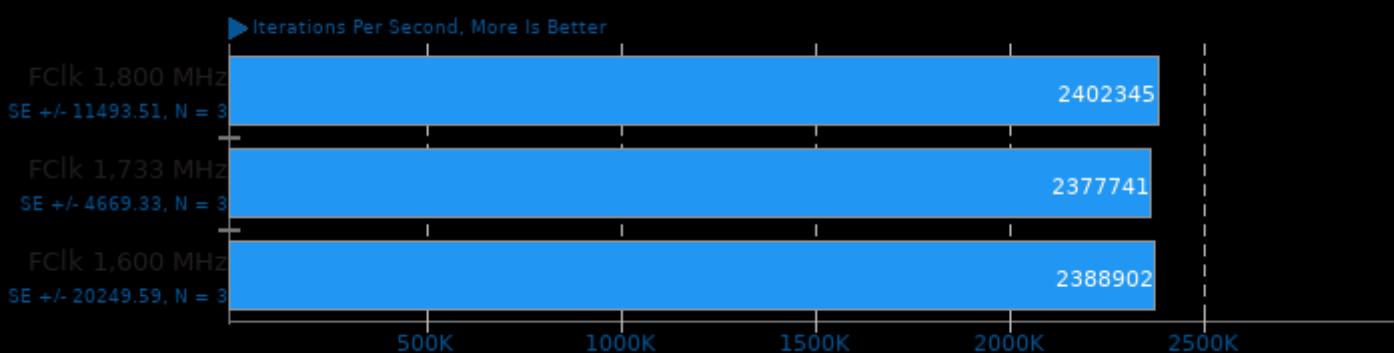
Test: 4G PHY\_DL\_Test 100 PRB MIMO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

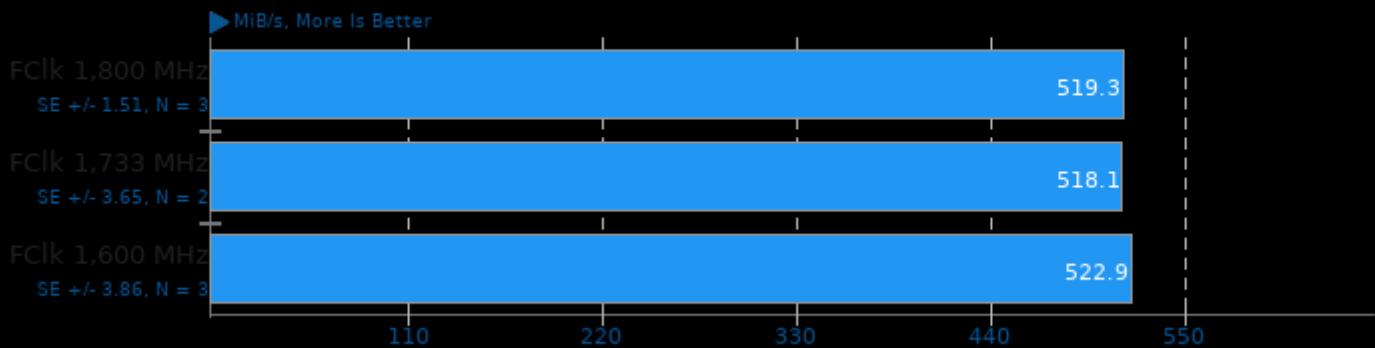
## Cryptsetup

PBKDF2-sha512



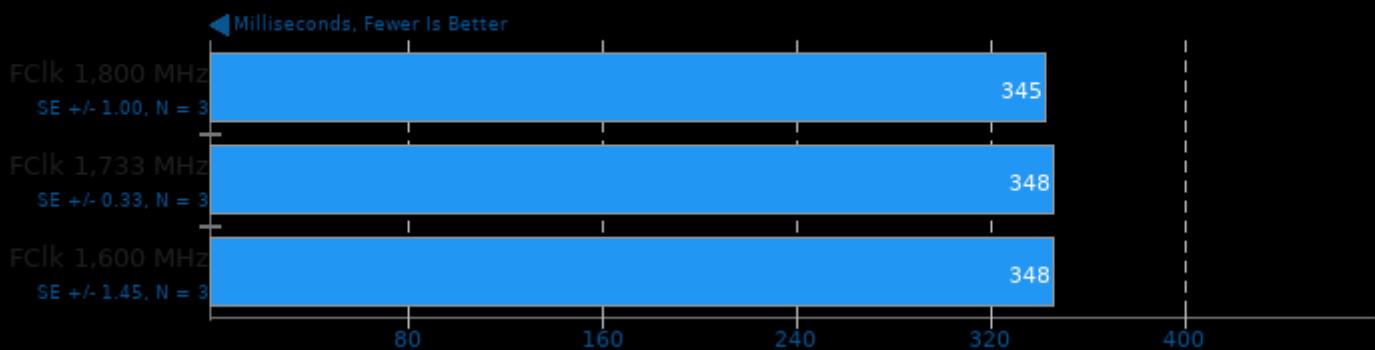
## Cryptsetup

Twofish-XTS 512b Decryption



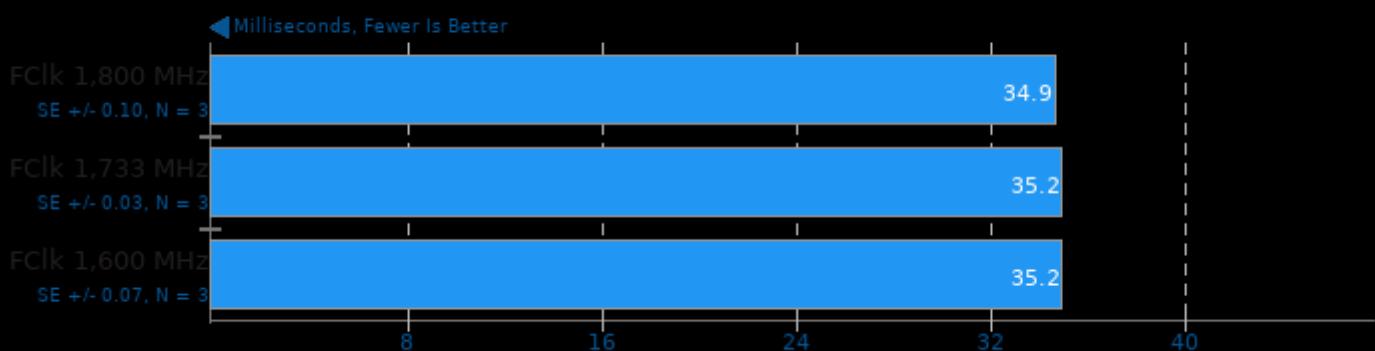
## PyPerformance 1.0.0

Benchmark: raytrace



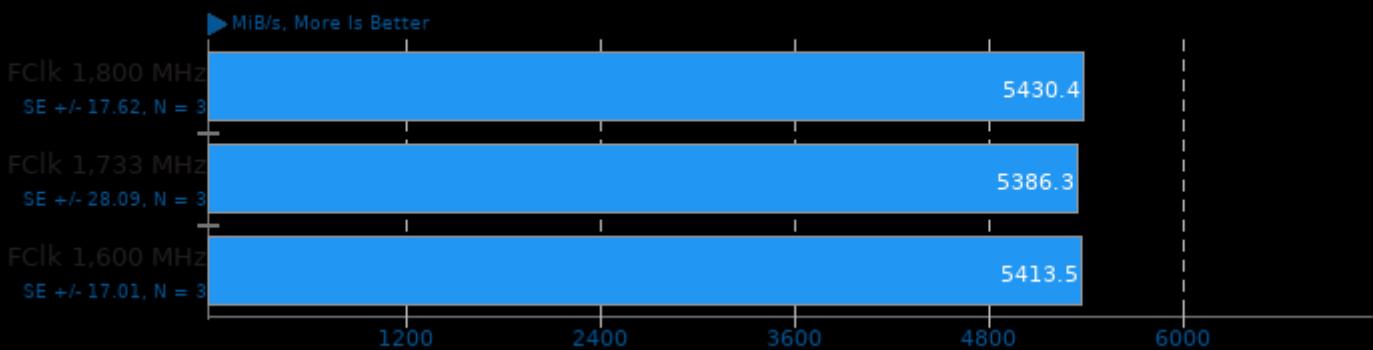
## PyPerformance 1.0.0

Benchmark: django\_template



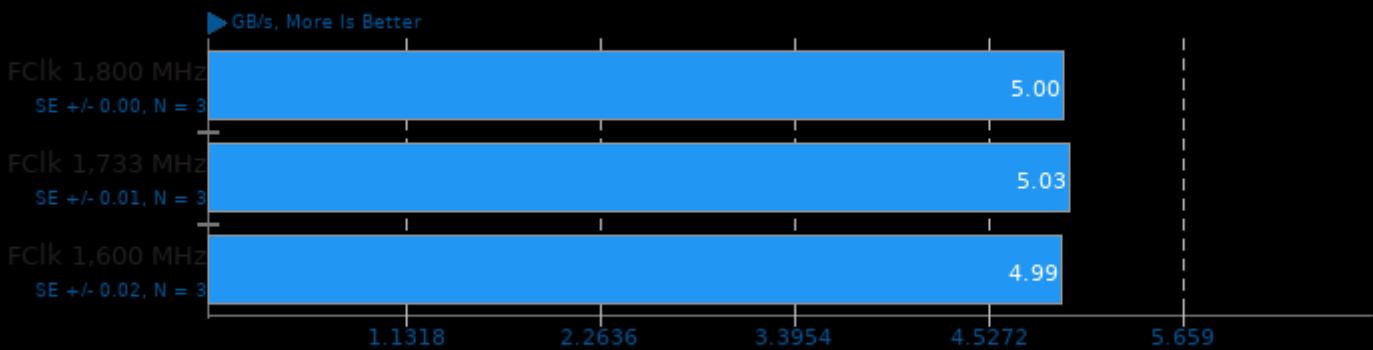
## Cryptsetup

AES-XTS 256b Decryption



## simdjson 1.0

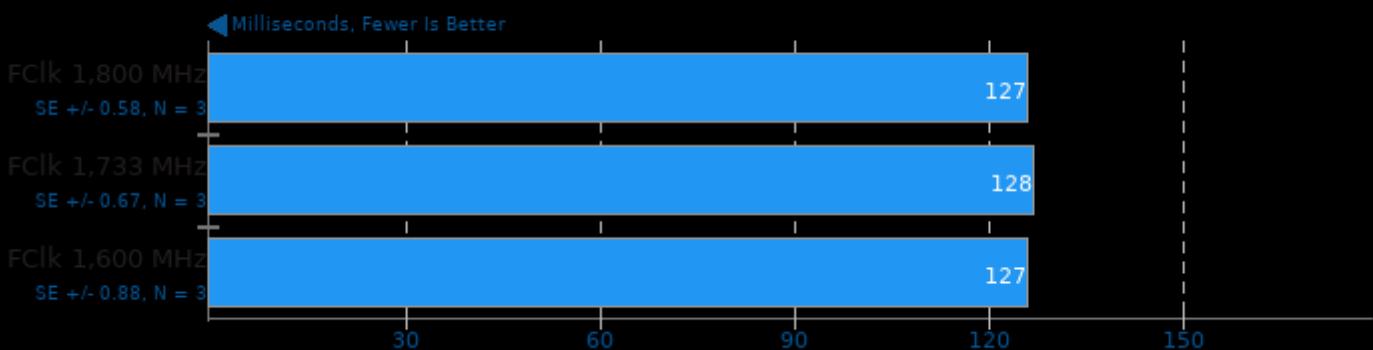
Throughput Test: PartialTweets



1. (CXX) g++ options: -O3

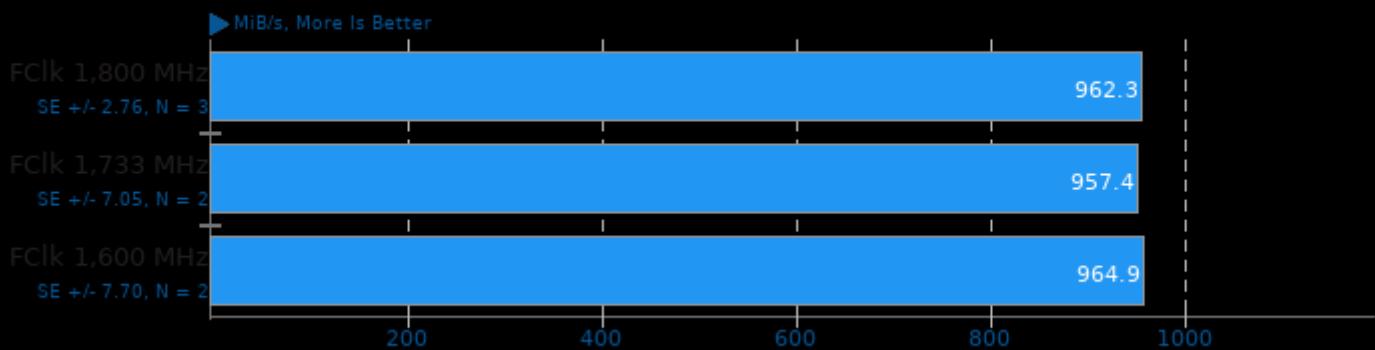
## PyPerformance 1.0.0

Benchmark: regex\_compile



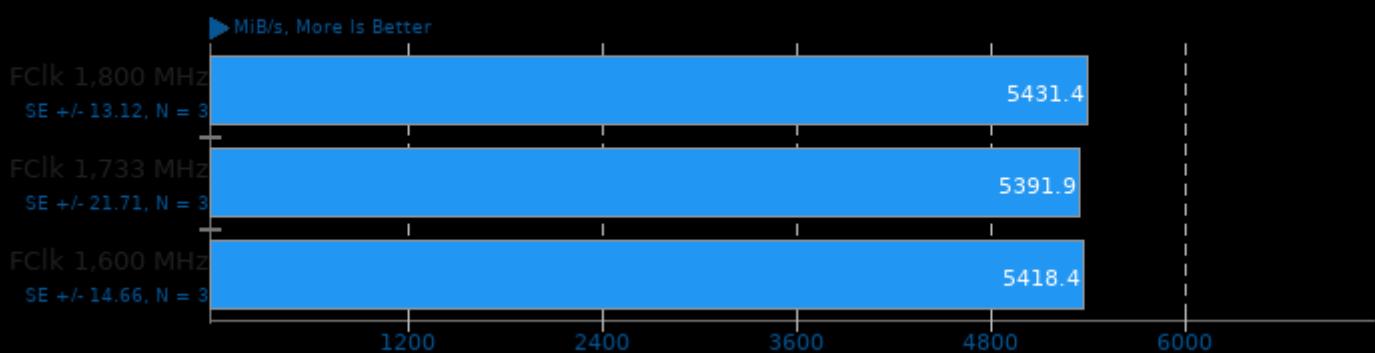
## Cryptsetup

Serpent-XTS 512b Encryption



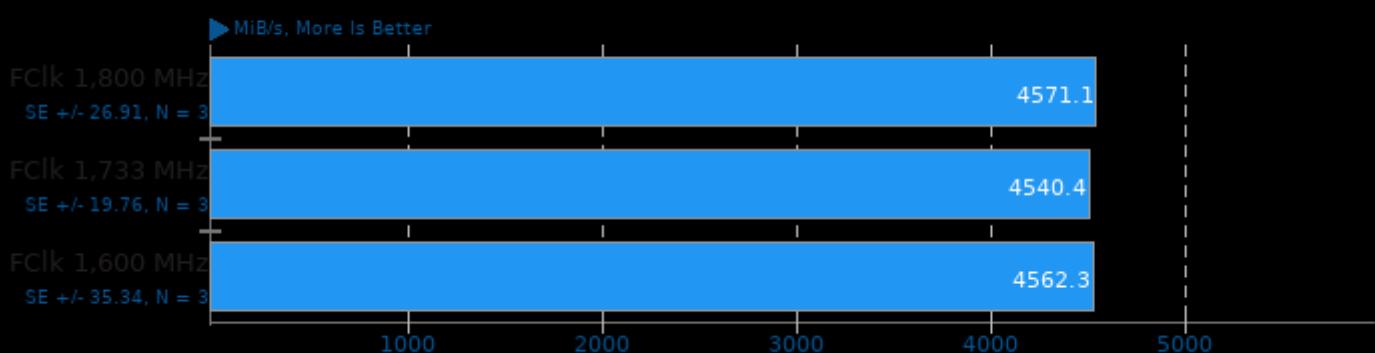
## Cryptsetup

AES-XTS 256b Encryption



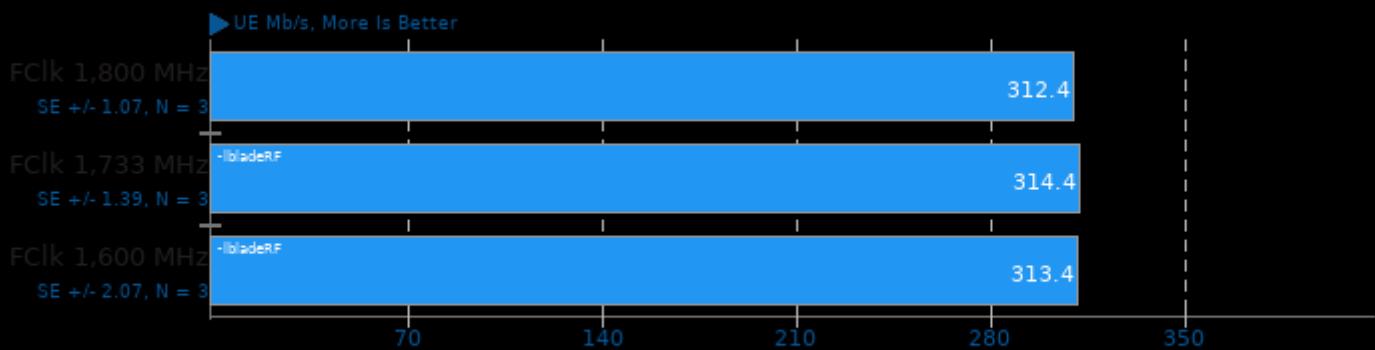
## Cryptsetup

AES-XTS 512b Encryption



## srsRAN 21.04

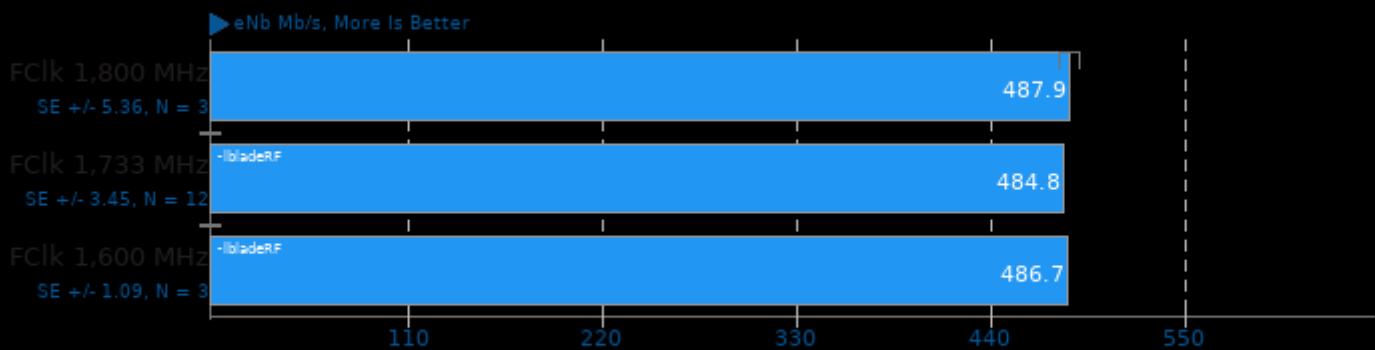
Test: 4G PHY\_DL\_Test 100 PRB SISO 256-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## srsRAN 21.04

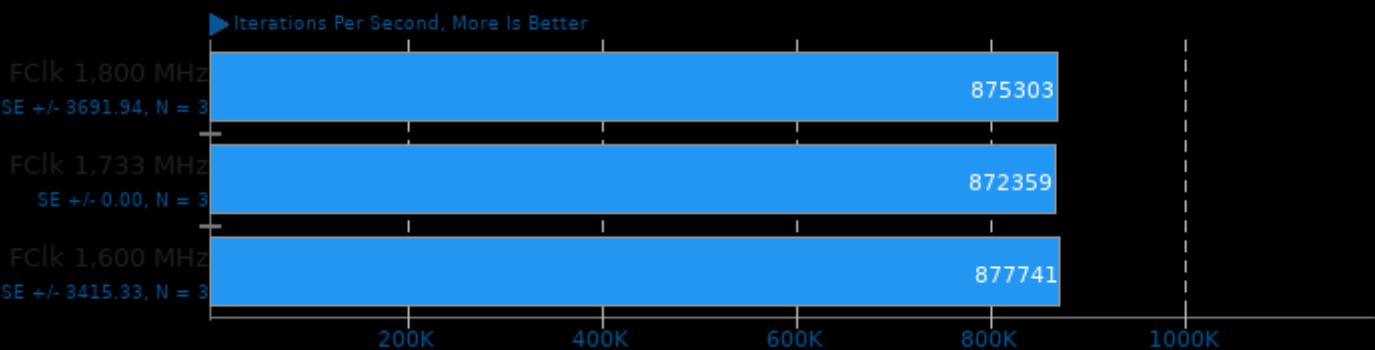
Test: 4G PHY\_DL\_Test 100 PRB MIMO 64-QAM



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

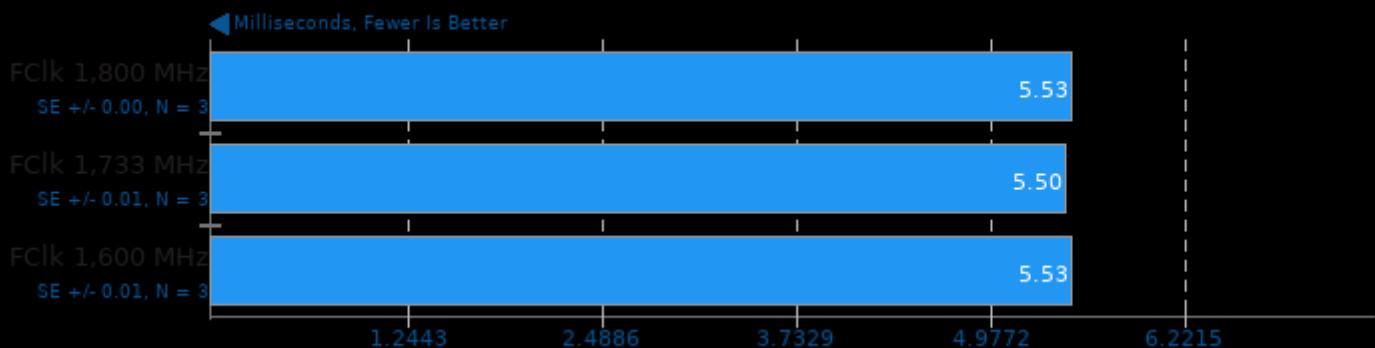
## Cryptsetup

PBKDF2-whirlpool



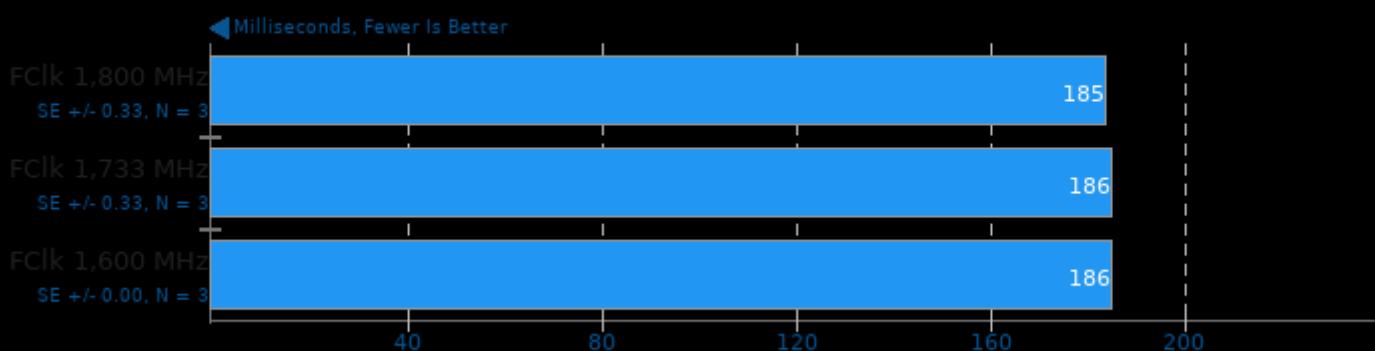
## PyPerformance 1.0.0

Benchmark: python\_startup



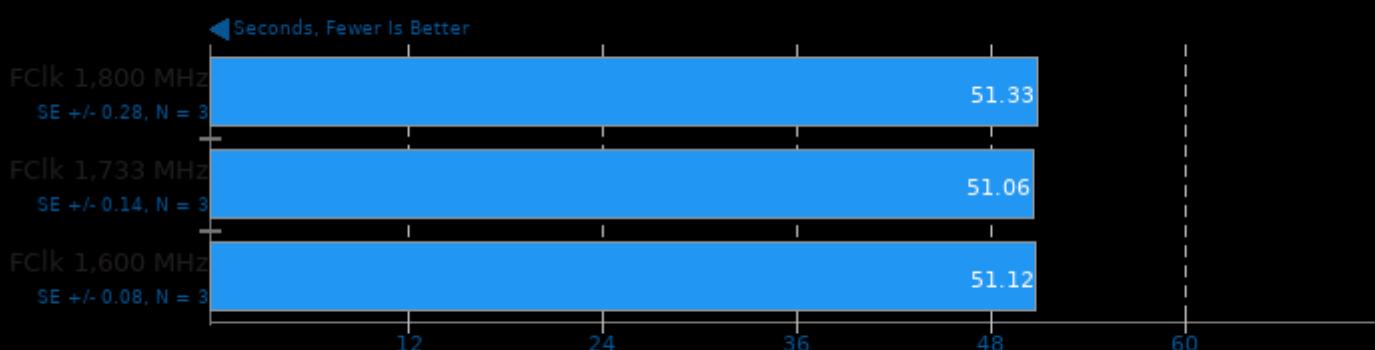
## PyPerformance 1.0.0

Benchmark: go



## Timed Wasmer Compilation 1.0.2

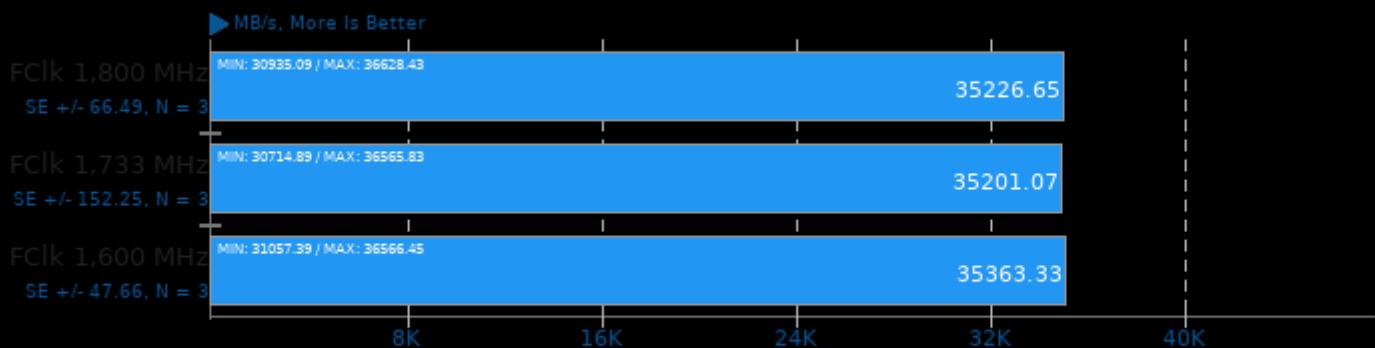
Time To Compile



1. (CC) gcc options: -m64 -pie -nodefaultlibs -ldl -lgcc\_s -lutil -lrt -lpthread -lm -lc

## CacheBench

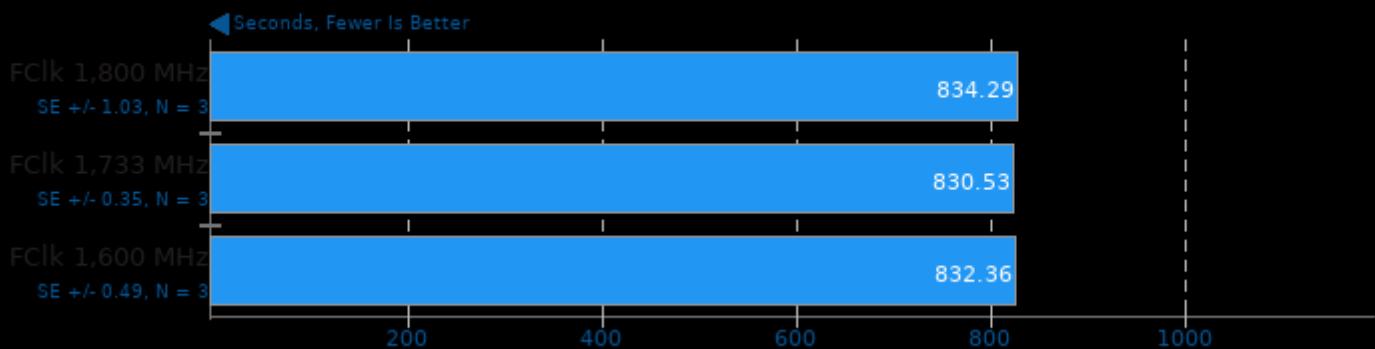
Write Cache



1. (CC) gcc options: -lrt

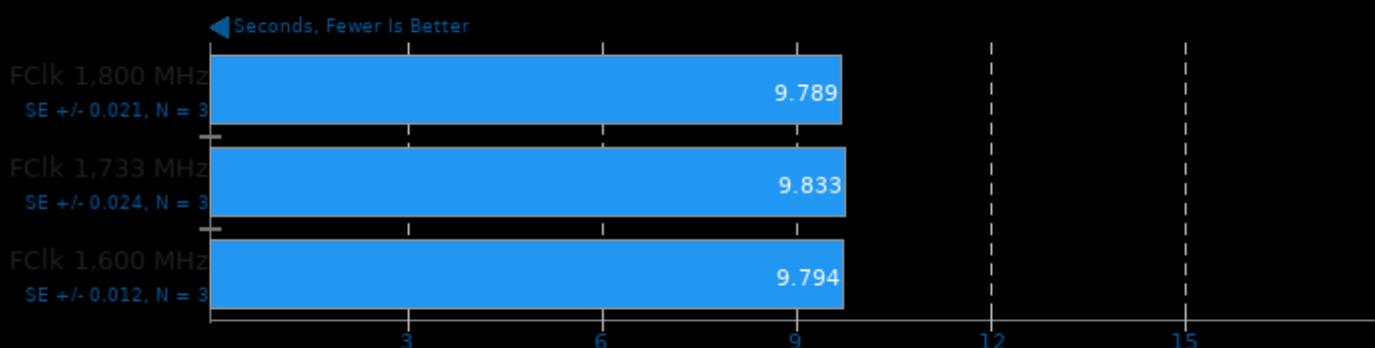
## Timed GCC Compilation 11.2.0

Time To Compile



## t-test1 2017-01-13

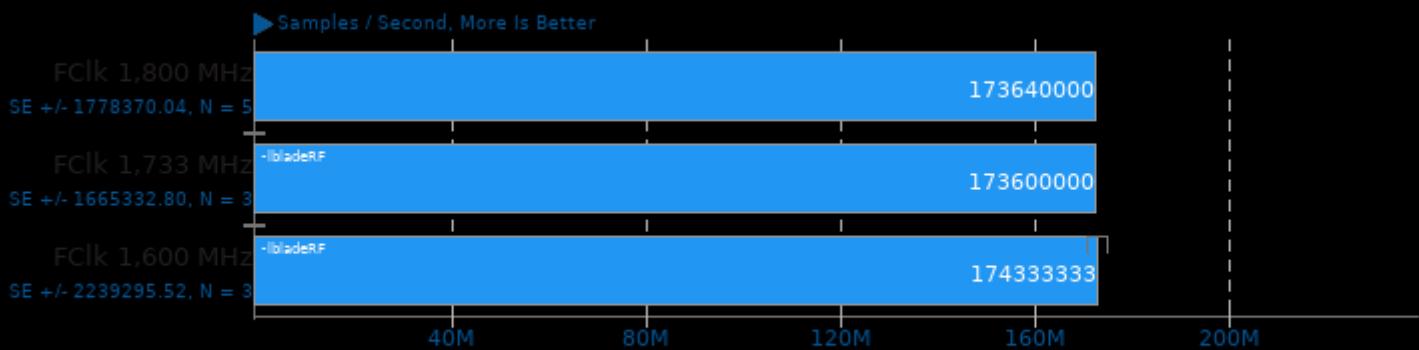
Threads: 1



1. (CC) gcc options: -pthread

## srsRAN 21.04

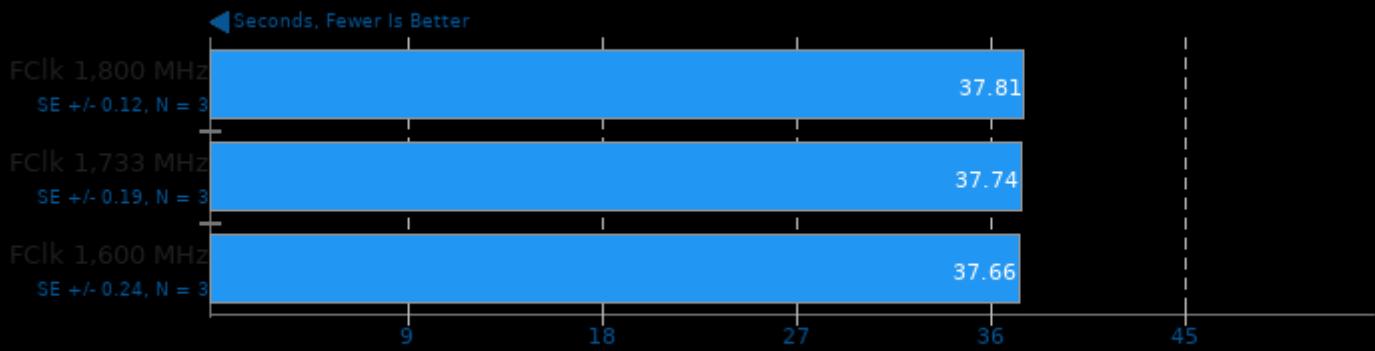
Test: OFDM\_Test



1. (CXX) g++ options: -std=c++11 -fno-strict-aliasing -march=native -mfpmath=sse -mavx2 -fvisibility=hidden -O3 -fno-trapping-math -fno-math-errno

## Git

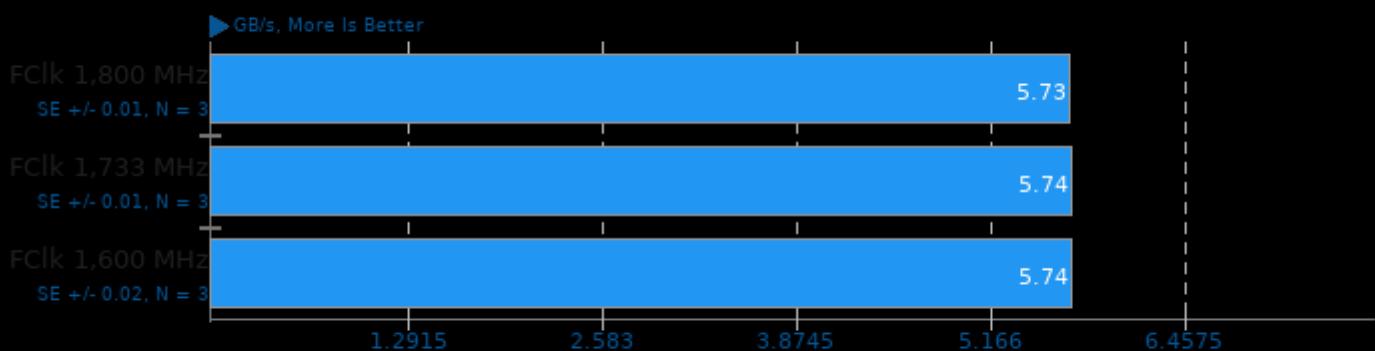
Time To Complete Common Git Commands



1. git version 2.32.0

## simdjson 1.0

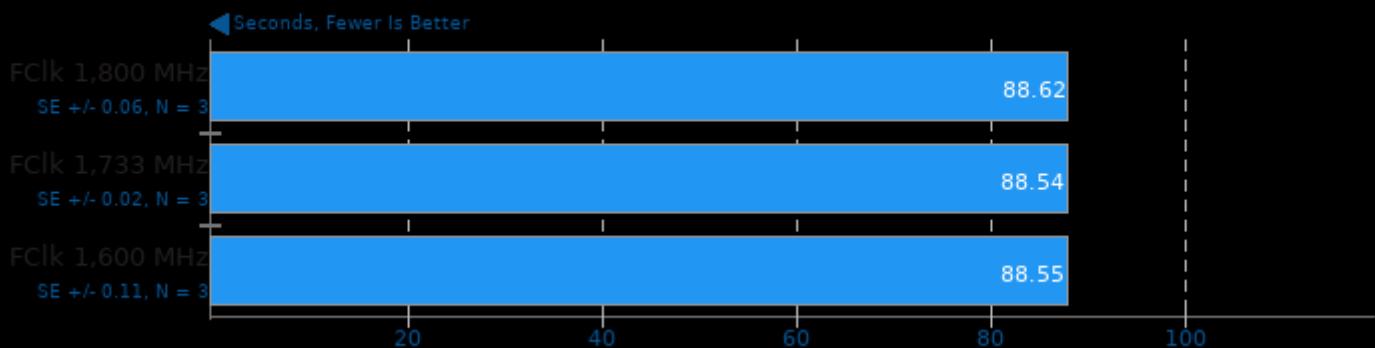
Throughput Test: DistinctUserID



1. (CXX) g++ options: -O3

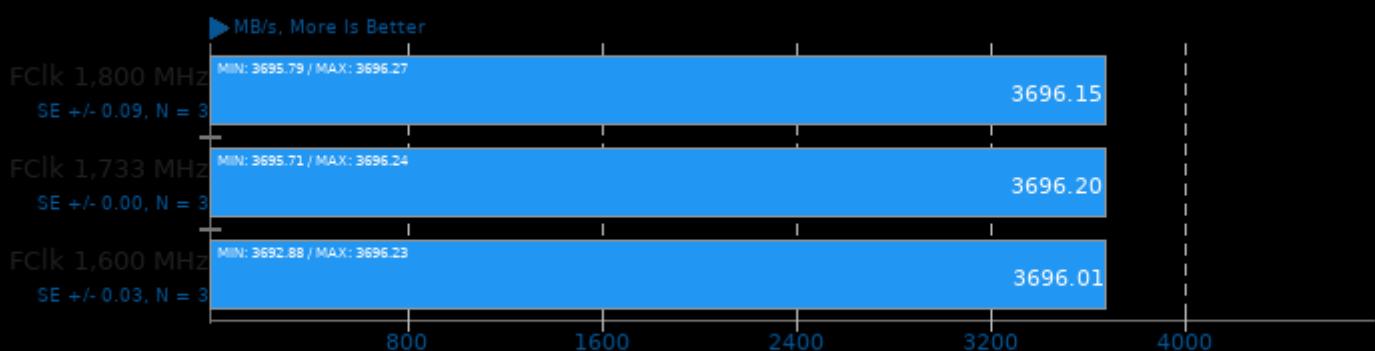
## Timed Erlang/OTP Compilation 23.2

Time To Compile



## CacheBench

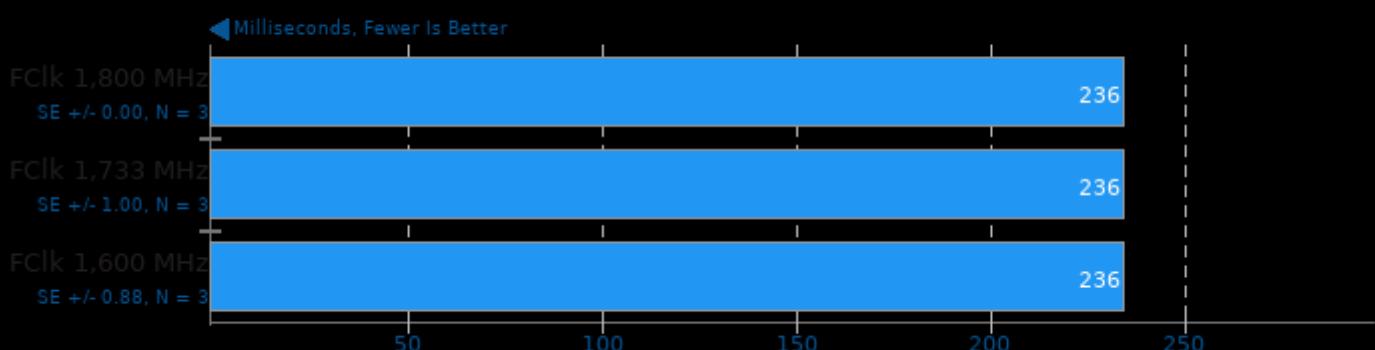
Read Cache



1. (CC) gcc options: -frt

## PyPerformance 1.0.0

Benchmark: 2to3



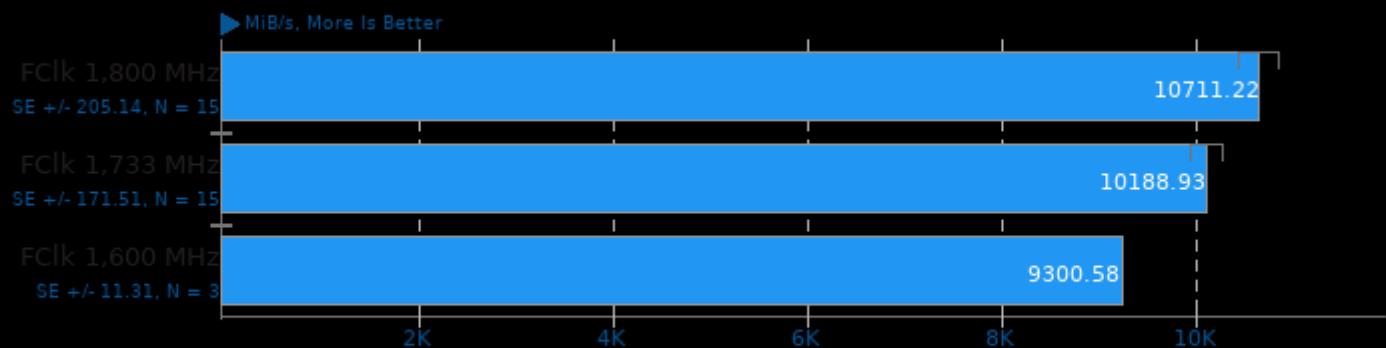
## Node.js V8 Web Tooling Benchmark



1. Nodejs  
v12.22.5

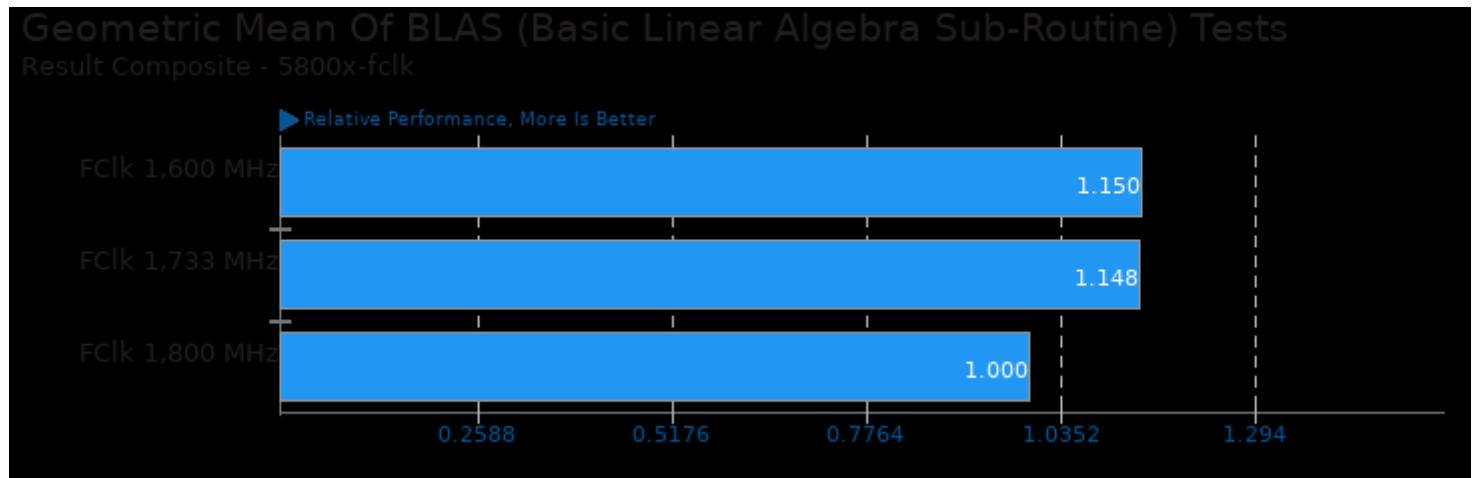
## MBW 2018-09-08

Test: Memory Copy, Fixed Block Size - Array Size: 1024 MiB

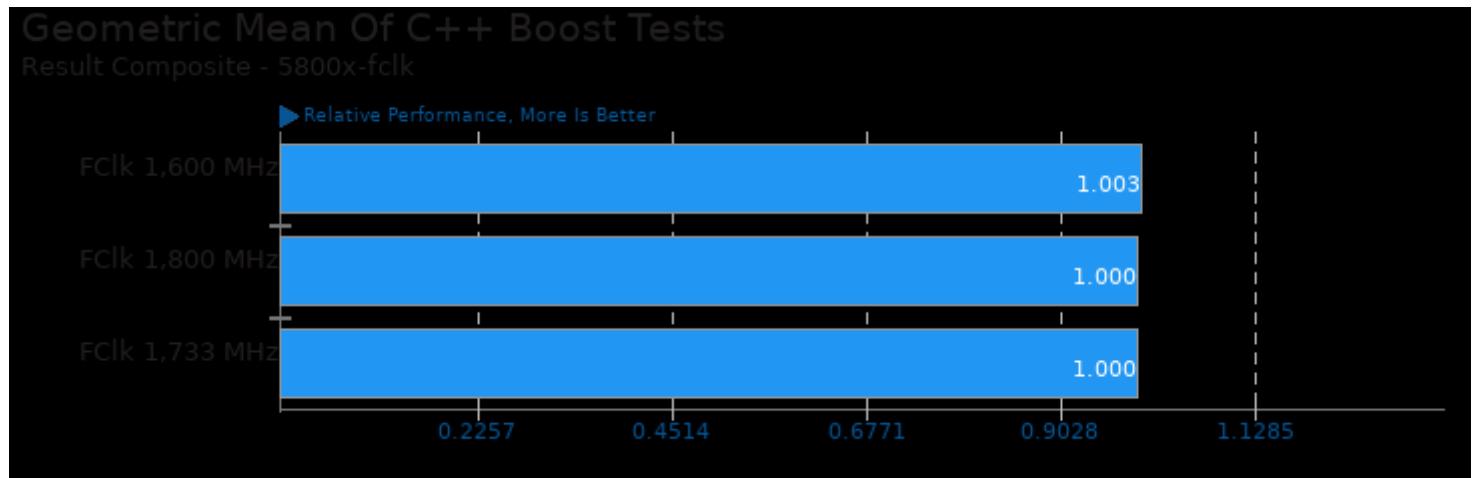


1. (CC) gcc options: -O3 -march=native

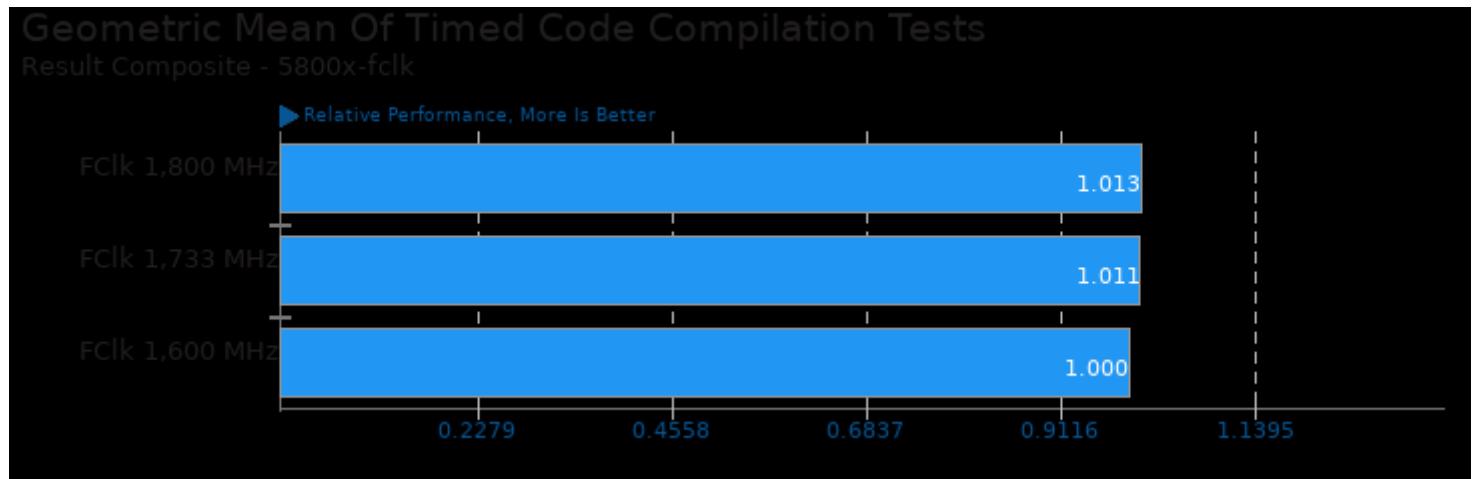
These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/hpcc and pts/arrayfire



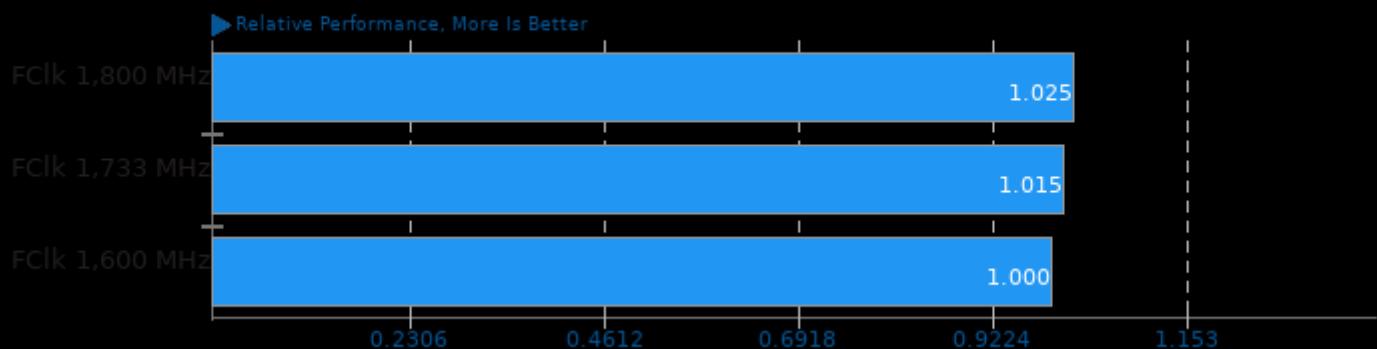
Geometric mean based upon tests: pts/arrayfire and pts/srsran



Geometric mean based upon tests: pts/build-apache, pts/build-php, pts/build-eigen, pts/build-linux-kernel, pts/build-imagemagick, pts/build-gcc, pts/build-gdb, pts/build-llvm, pts/build-ffmpeg, pts/build-mplayer, pts/build2, pts/build-godot, pts/build-erlang, pts/build-wasmer, pts/build-nodejs and pts/build-mesa

## Geometric Mean Of C/C++ Compiler Tests

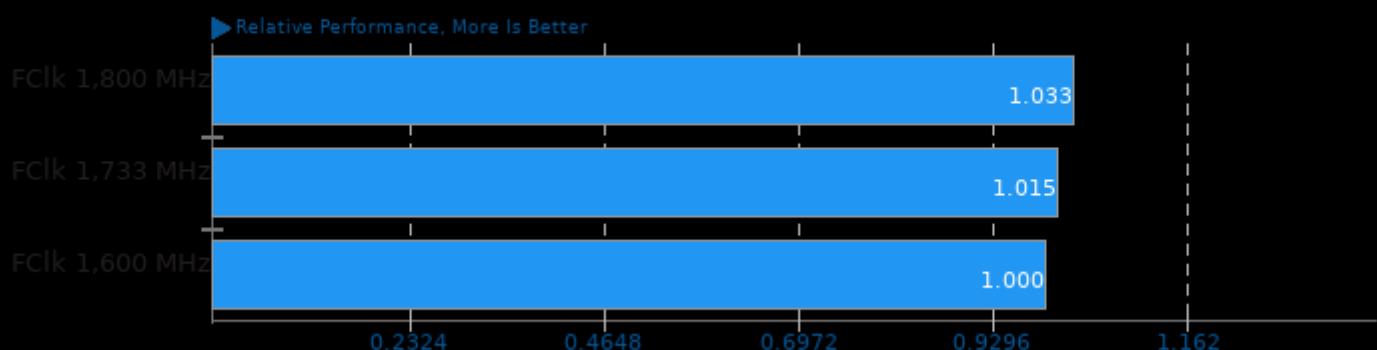
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/build-php, pts/build-imagemagick, pts/build-llvm, pts/sqlite-speedtest, pts/compress-zstd, pts/build-gdb, pts/build-ffmpeg, pts/build-apache and pts/build-mplayer

## Geometric Mean Of Compression Tests

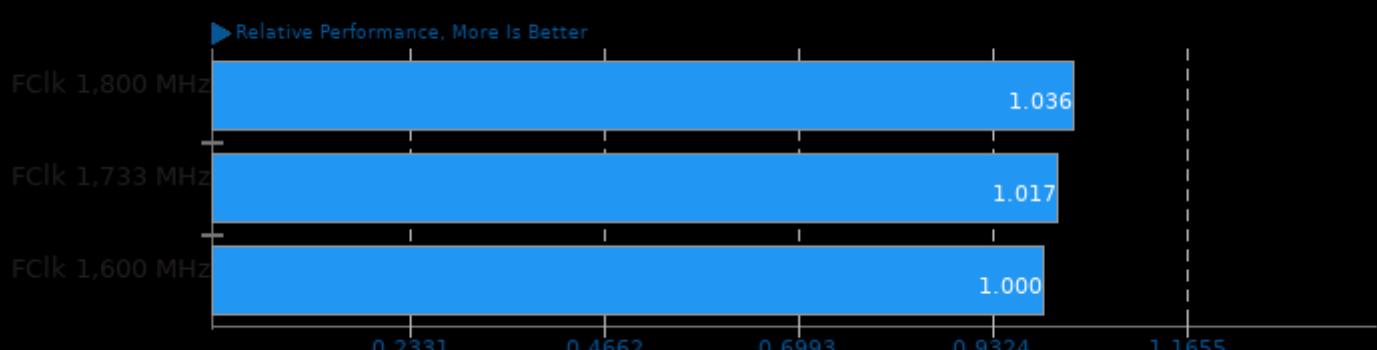
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/compress-zstd and pts/blosc

## Geometric Mean Of CPU Massive Tests

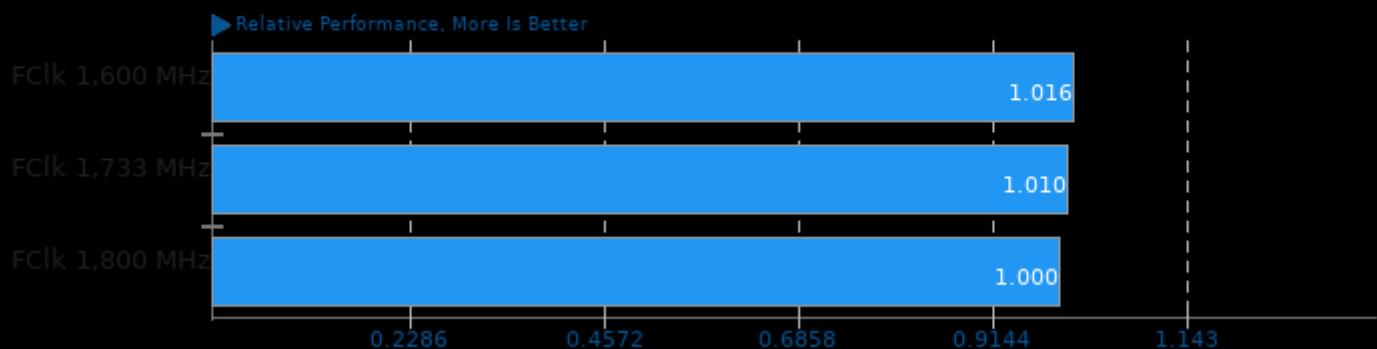
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/build-apache, pts/build-gcc, pts/build-llvm, pts/build-linux-kernel, pts/build-php, pts/cachebench, pts/compress-zstd, pts/hpcc, pts/mbw, pts/ramspeed, pts/stream, pts/t-test1, pts/tinymembench and system/cryptsetup

## Geometric Mean Of HPC - High Performance Computing Tests

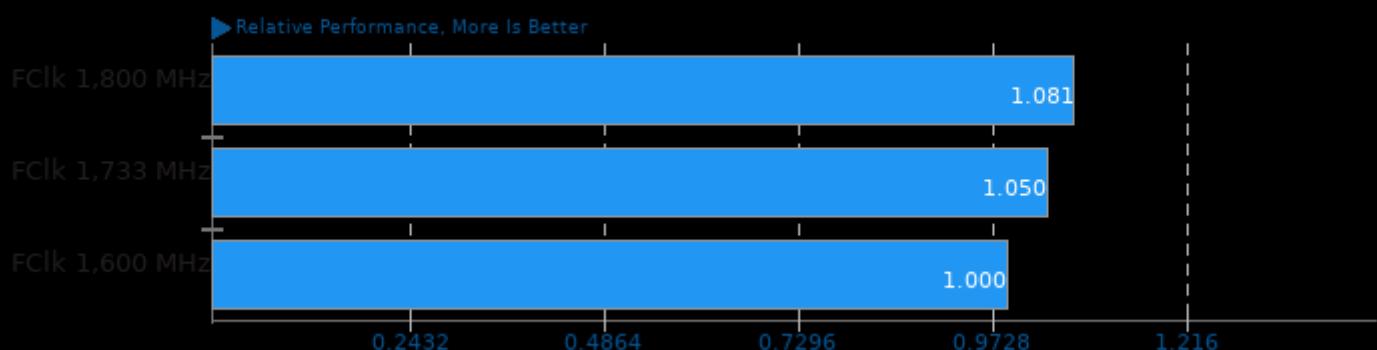
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/hpcc, pts/mt-dgemm, pts/arrayfire and pts/amg

## Geometric Mean Of Common Kernel Benchmarks Tests

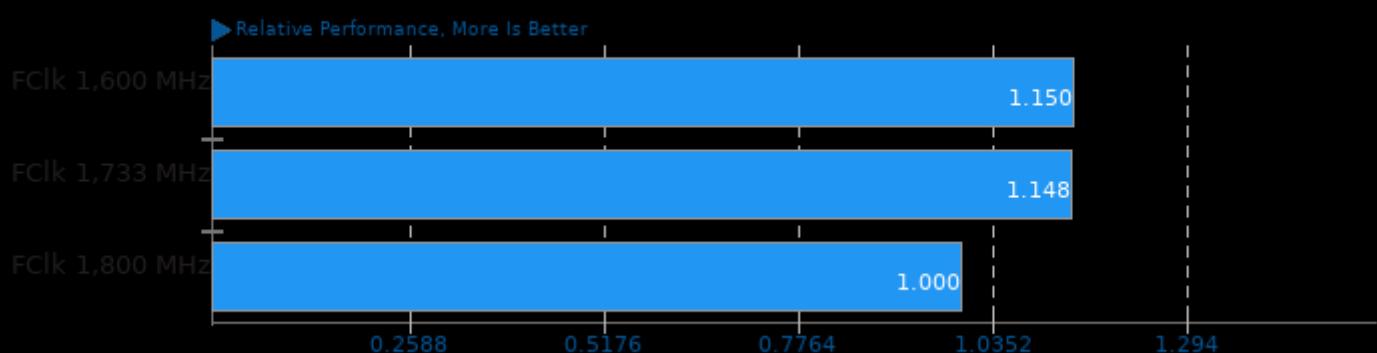
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/sqlite-speedtest, pts/tinymembench, pts/mbw and pts/t-test1

## Geometric Mean Of LAPACK (Linear Algebra Pack) Tests

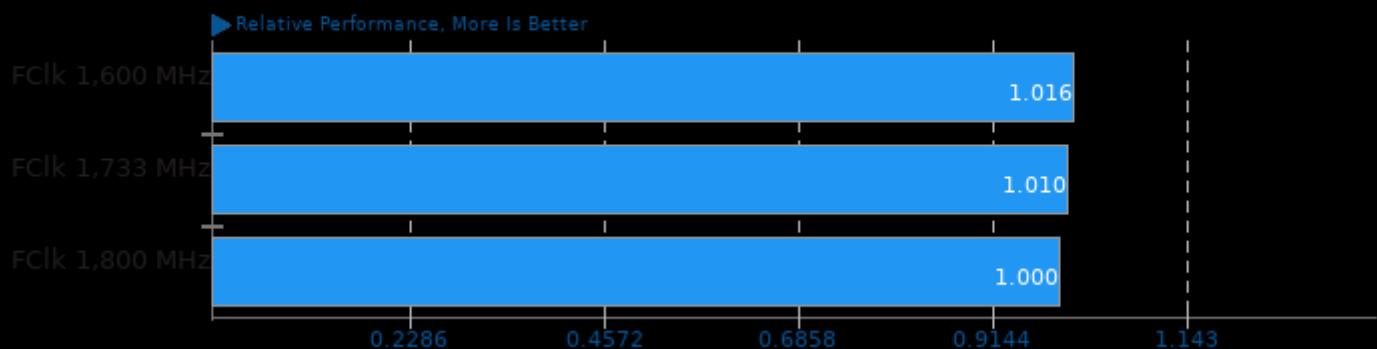
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/hpcc and pts/arrayfire

## Geometric Mean Of Linear Algebra Tests

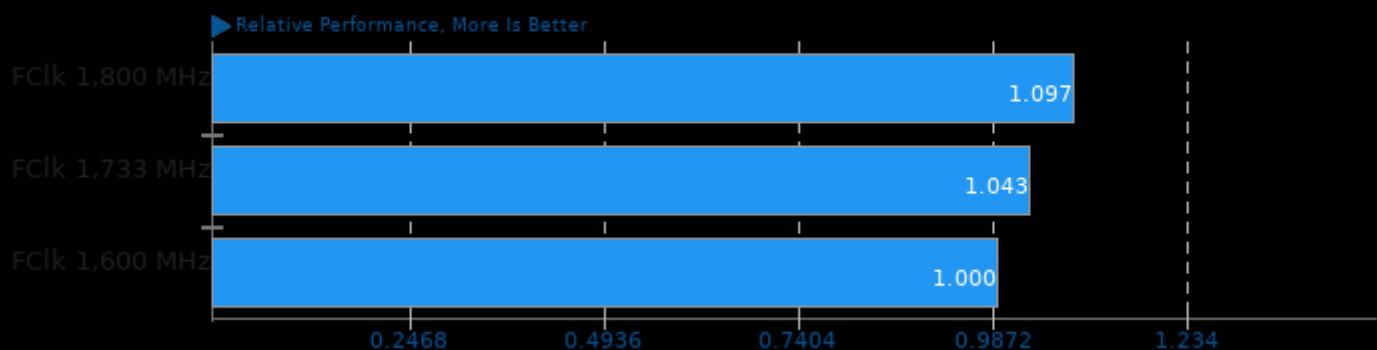
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/mt-dgemm, pts/arrayfire, pts/amg and pts/hpcc

## Geometric Mean Of Memory Test Suite

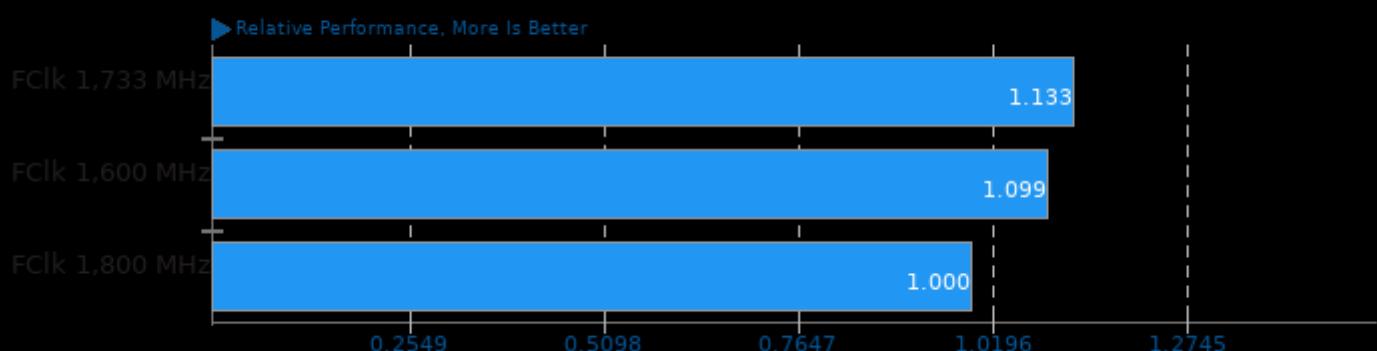
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/ramspeed, pts/stream, pts/t-test1, pts/cachebench, pts/tinymembench and pts/mbw

## Geometric Mean Of OpenMPI Tests

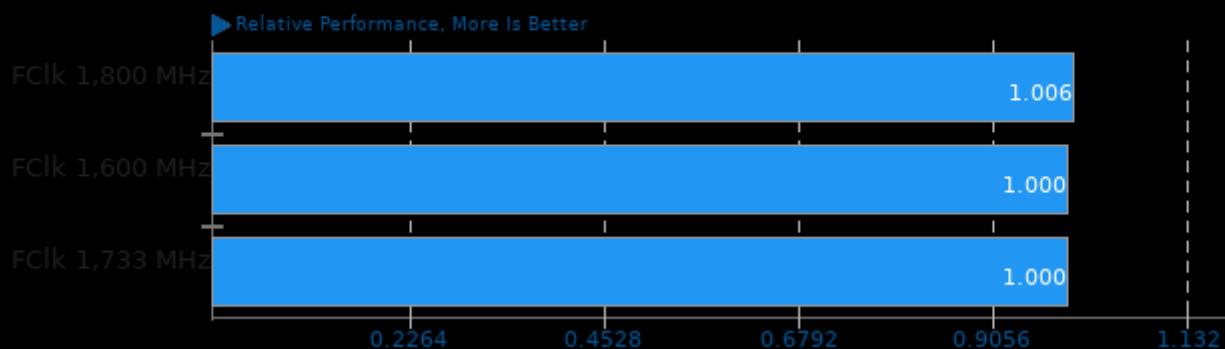
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/hpcc and pts/amg

### Geometric Mean Of Python Tests

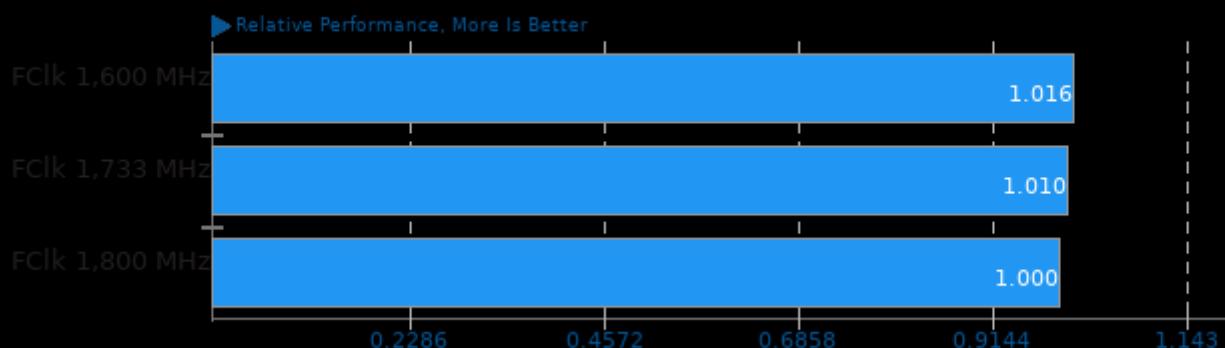
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/pybench and pts/pyperformance

### Geometric Mean Of Scientific Computing Tests

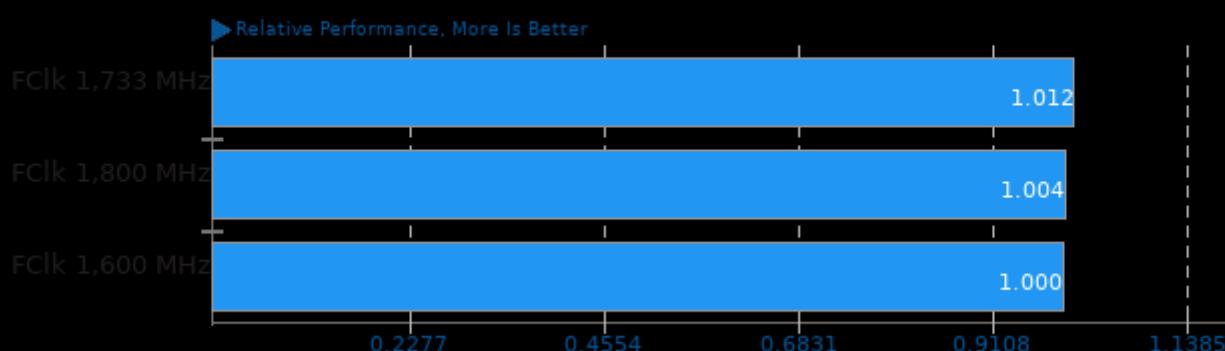
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/mt-dgemm, pts/arrayfire, pts/amg and pts/hpcc

### Geometric Mean Of Server Tests

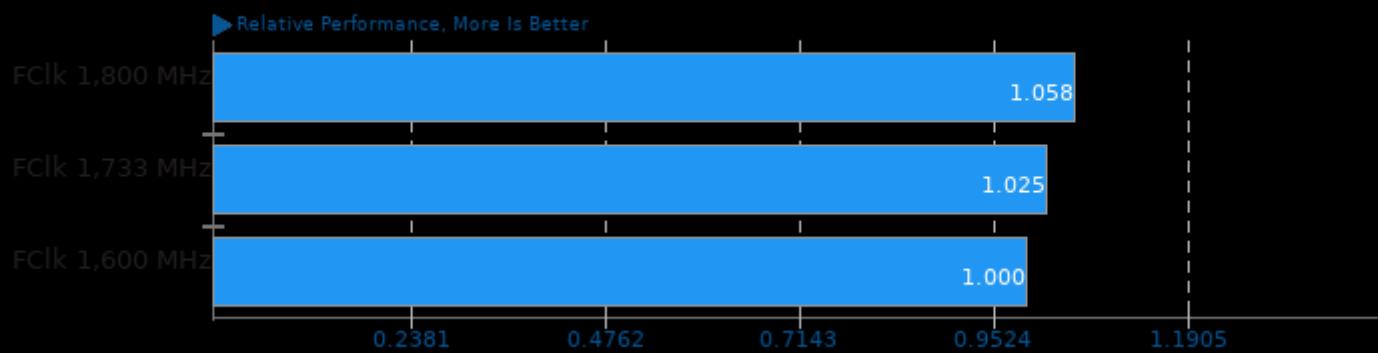
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/simdjson, pts/node-web-tooling and pts/sqlite-speedtest

**Geometric Mean Of Server CPU Tests**

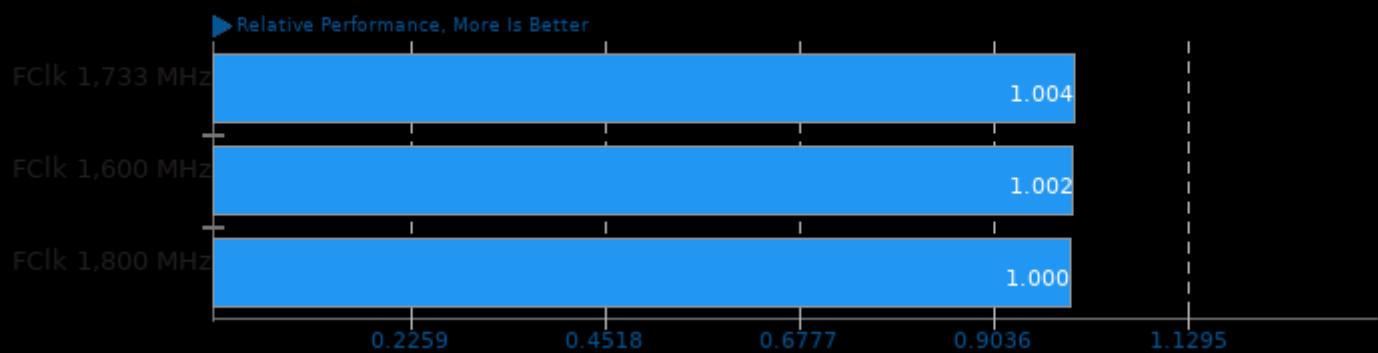
Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/build-gcc, pts/build-linux-kernel, pts/build-php, pts/build-llvm, pts/compress-zstd, pts/pybench, pts/ramspeed and pts/stream

**Geometric Mean Of Single-Threaded Tests**

Result Composite - 5800x-fclk



Geometric mean based upon tests: pts/cachebench, pts/pybench and pts/git

*This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 11:30.*