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AMD FX-8350 Piledriver Desktop

AMD FX-8350 Vishera desktop with eight-core Piledriver CPU running Ubuntu 12.10 Linux. Running various benchmarks for the public to offer for comparison purposes. AMD FX-8350 benchmarks carried out by Michael Larabel.

Test Systems:

AMD FX-8350 Piledriver

Processor: AMD FX-8350 Eight-Core @ 4.00GHz (8 Cores), Motherboard: ASUS Crosshair V Formula, Chipset: AMD ATI RD890 bridge, Memory: 8192MB, Disk: 60GB OCZ VERTEX2, Graphics: AMD Radeon HD 6570 512MB, Audio: Realtek ALC889, Monitor: DELL P2210H, Network: Intel 82583V Gigabit Connection

OS: Ubuntu 12.10, Kernel: 3.5.0-15-generic (x86_64), Desktop: Unity 6.6.0, Display Server: X Server 1.13.0, Display Driver: radeon 6.99.99, OpenGL: 2.1 Mesa 9.0-devel Gallium 0.4, Compiler: GCC 4.7, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-languages=c,c++,go,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-arch-32=i686 --with-tune=generic -v

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Disk Notes: DEADLINE / data=ordered,errors=remount-ro,relatime,rw
Processor Notes: Scaling Governor: ondemand
Graphics Notes: EXA
System Notes: Disk Scheduler: DEADLINE. Python 2.7.3. Compiz was running on this system.

	AMD FX-8350 Piledriver
Flexible IO Tester - I.I.F.S.A.P (sec (Run Time))	79.76
Standard Deviation	1.7%
IOzone - 1MB - 8GB - Read Performance (MB/s)	235.33
Standard Deviation	0.6%
IOzone - 4Kb - 8GB - Read Performance (MB/s)	233.50
Standard Deviation	0.1%
IOzone - 1MB - 8GB - Write Performance (MB/s)	242.69
Standard Deviation	0.1%
IOzone - 4Kb - 8GB - Write Performance (MB/s)	242.37
Standard Deviation	0.1%
IOzone - 64Kb - 8GB - Read Performance (MB/s)	236.55
Standard Deviation	0.1%
IOzone - 64Kb - 8GB - Write Performance (MB/s)	242.49
Standard Deviation	0%
Threaded I/O Tester - Read - 64MB - 4 (MB/s)	10165
Standard Deviation	1.3%
Threaded I/O Tester - Read - 64MB - 8 (MB/s)	13298
Standard Deviation	0.5%
Threaded I/O Tester - Write - 64MB - 4 (MB/s)	218.46
Standard Deviation	1.2%
Threaded I/O Tester - Write - 64MB - 8 (MB/s)	203.50
Standard Deviation	0.5%
Threaded I/O Tester - Rand Read - 64MB - 4 (MB/s)	7711
Standard Deviation	1.6%
Threaded I/O Tester - Rand Read - 64MB - 8 (MB/s)	9511
Standard Deviation	0.6%
Threaded I/O Tester - Rand Write - 64MB - 4 (MB/s)	159.80
Standard Deviation	3.5%
Threaded I/O Tester - Rand Write - 64MB - 8 (MB/s)	156.87
Standard Deviation	7.9%
Unpacking The Linux Kernel - linux-2.6.32.tar.bz2 (sec)	10.72
Standard Deviation	1.8%
OpenArena - 800 x 600 (FPS)	141.53
Standard Deviation	0.4%
OpenArena - 1024 x 576 (FPS)	134.60
Standard Deviation	0.8%
OpenArena - 1024 x 768 (FPS)	125.67
Standard Deviation	1%
OpenArena - 1280 x 800 (FPS)	120.77
Standard Deviation	0.1%
OpenArena - 1280 x 960 (FPS)	115.17
Standard Deviation	0.6%
OpenArena - 1366 x 768 (FPS)	119.70
Standard Deviation	0.7%

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OpenArena - 1440 x 900 (FPS)	112.37
Standard Deviation	1.4%
OpenArena - 1600 x 900 (FPS)	109.70
Standard Deviation	0.4%
OpenArena - 1680 x 945 (FPS)	104.13
Standard Deviation	0.4%
OpenArena - 1280 x 1024 (FPS)	111.43
Standard Deviation	0.8%
OpenArena - 1400 x 1050 (FPS)	108.70
Standard Deviation	0.1%
OpenArena - 1680 x 1050 (FPS)	100.80
Standard Deviation	0.6%
OpenArena - 1920 x 1080 (FPS)	94.13
Standard Deviation	0.7%
RAMspeed SMP - Add - Integer (MB/s)	10573
RAMspeed SMP - Copy - Integer (MB/s)	10824
RAMspeed SMP - Scale - Integer (MB/s)	10884
RAMspeed SMP - Triad - Integer (MB/s)	10830
RAMspeed SMP - Average - Integer (MB/s)	10825
RAMspeed SMP - Add - Floating Point (MB/s)	11899
RAMspeed SMP - Copy - Floating Point (MB/s)	10718
RAMspeed SMP - Scale - Floating Point (MB/s)	10832
RAMspeed SMP - Triad - Floating Point (MB/s)	12115
RAMspeed SMP - Average - Floating Point (MB/s)	11426
Stream - Copy (MB/s)	12260
Standard Deviation	0.1%
Stream - Scale (MB/s)	11410
Standard Deviation	0.1%
Stream - Triad (MB/s)	12756
Standard Deviation	0.2%
Stream - Add (MB/s)	12111
Standard Deviation	0.1%
NAS Parallel Benchmarks - BT.A (Mop/s)	1957
Standard Deviation	0.2%
NAS Parallel Benchmarks - EP.B (Mop/s)	212.41
Standard Deviation	0.5%
NAS Parallel Benchmarks - EP.C (Mop/s)	210.21
Standard Deviation	1.2%
NAS Parallel Benchmarks - EP.D (Mop/s)	213.07
Standard Deviation	0.6%
NAS Parallel Benchmarks - FT.A (Mop/s)	2825
Standard Deviation	0.4%
NAS Parallel Benchmarks - LU.A (Mop/s)	9174
Standard Deviation	0.4%
NAS Parallel Benchmarks - MG.B (Mop/s)	4058
Standard Deviation	1.1%
NAS Parallel Benchmarks - SP.A (Mop/s)	1299
Standard Deviation	0.8%
CLOMP - Static OMP Speedup (Speedup)	2.84
Standard Deviation	0.3%
Timed HMMer Search - P.D.S (sec)	11.64
Standard Deviation	4.2%

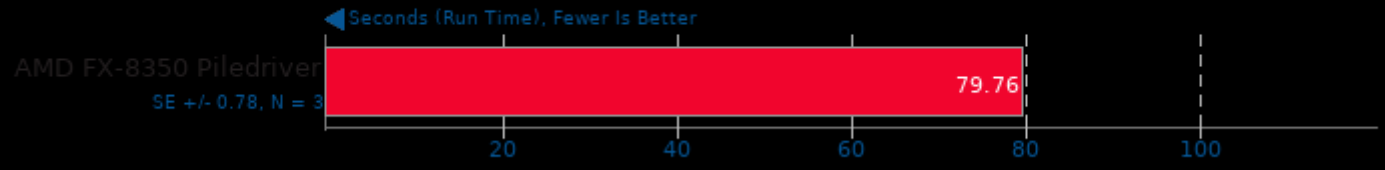
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BYTE Unix Benchmark - Dhrystone 2 (LPS)	22855319
Standard Deviation	0.1%
TTSIOD 3D Renderer - P.R.W.S.S.M (FPS)	125.75
Standard Deviation	0.8%
VP8 libvpx Encoding - vpxenc (FPS)	23.04
Standard Deviation	2.4%
x264 - H.2.V.E (FPS)	155.78
Standard Deviation	1.3%
GraphicsMagick - Blur (Iterations/min)	122
Standard Deviation	0%
GraphicsMagick - Sharpen (Iterations/min)	114
Standard Deviation	0.5%
GraphicsMagick - Resizing (Iterations/min)	151
Standard Deviation	0.4%
GraphicsMagick - HWB Color Space (Iterations/min)	164
Standard Deviation	0.6%
GraphicsMagick - L.A.T (Iterations/min)	100
Standard Deviation	0%
Himeno Benchmark - P.P.S (MFLOPS)	722.34
Standard Deviation	1.1%
7-Zip Compression - C.S.T (MIPS)	21153
Standard Deviation	0.3%
Timed Linux Kernel Compilation - Time To Compile (sec)	82.33
Standard Deviation	2%
Timed MPlayer Compilation - Time To Compile (sec)	50.64
Standard Deviation	1.5%
Timed PHP Compilation - Time To Compile (sec)	30.50
Standard Deviation	0.1%
C-Ray - Total Time (sec)	23.35
Standard Deviation	0.1%
Parallel BZIP2 Compression - 2.F.C (sec)	7.95
Standard Deviation	1%
Smallpt - G.I.R.1.S (sec)	26
Standard Deviation	0%
Gzip Compression - 2.F.C (sec)	13.16
Standard Deviation	1.1%
LZMA Compression - 2.F.C (sec)	138.65
Standard Deviation	0.8%
Crafty - Elapsed Time (sec)	97.33
Standard Deviation	0.6%
Monkey Audio Encoding - WAV To APE (sec)	6.93
Standard Deviation	3.4%
LAME MP3 Encoding - WAV To MP3 (sec)	19.04
Standard Deviation	0.3%
Ogg Encoding - WAV To Ogg (sec)	10.61
Standard Deviation	0.5%
FFmpeg - H.2.H.T.N.D (sec)	21.82
Standard Deviation	0.7%
OpenSSL - R.4.b.P (Signs/sec)	93.87
Standard Deviation	0.1%
PostgreSQL pgbench - T.B.T.P.S (TPS)	2209
Standard Deviation	6.3%
PyBench - T.F.A.T.T (Milliseconds)	2257

Standard Deviation	0.7%
NGINX Benchmark - S.W.P.S (Reqs/sec)	25104
Standard Deviation	1.5%
Apache Benchmark - S.W.P.S (Reqs/sec)	21172
Standard Deviation	0.4%
PHPBench - P.B.S (Score)	91944
Standard Deviation	1.5%

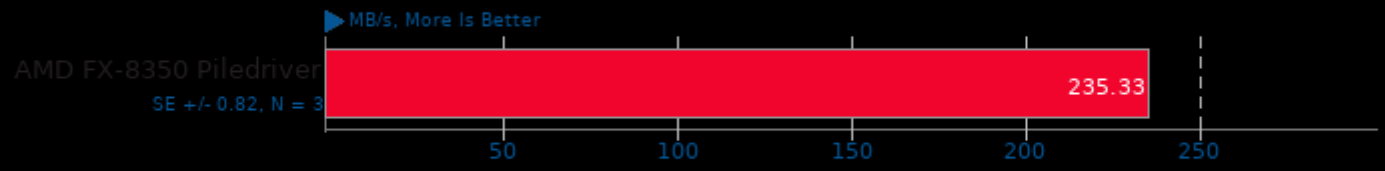
Flexible IO Tester 1.57

Test: Intel IOMeter File Server Access Pattern



IOzone 3.405

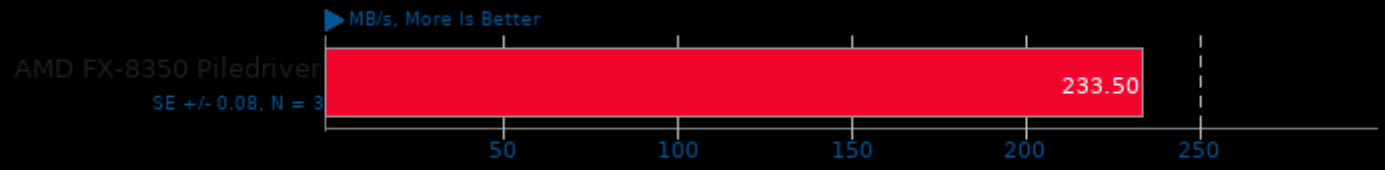
Record Size: 1MB - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.405

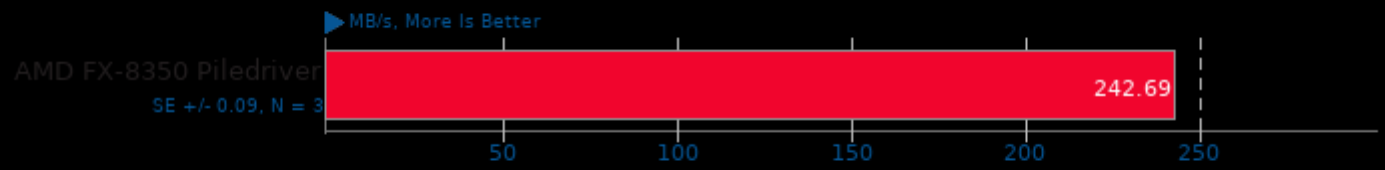
Record Size: 4Kb - File Size: 8GB - Disk Test: Read Performance



1. (CC) gcc options: -O3

IOzone 3.405

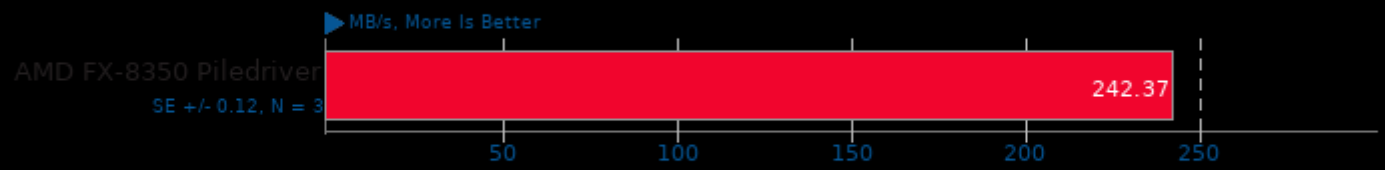
Record Size: 1MB - File Size: 8GB - Disk Test: Write Performance



1. (CC) gcc options: -O3

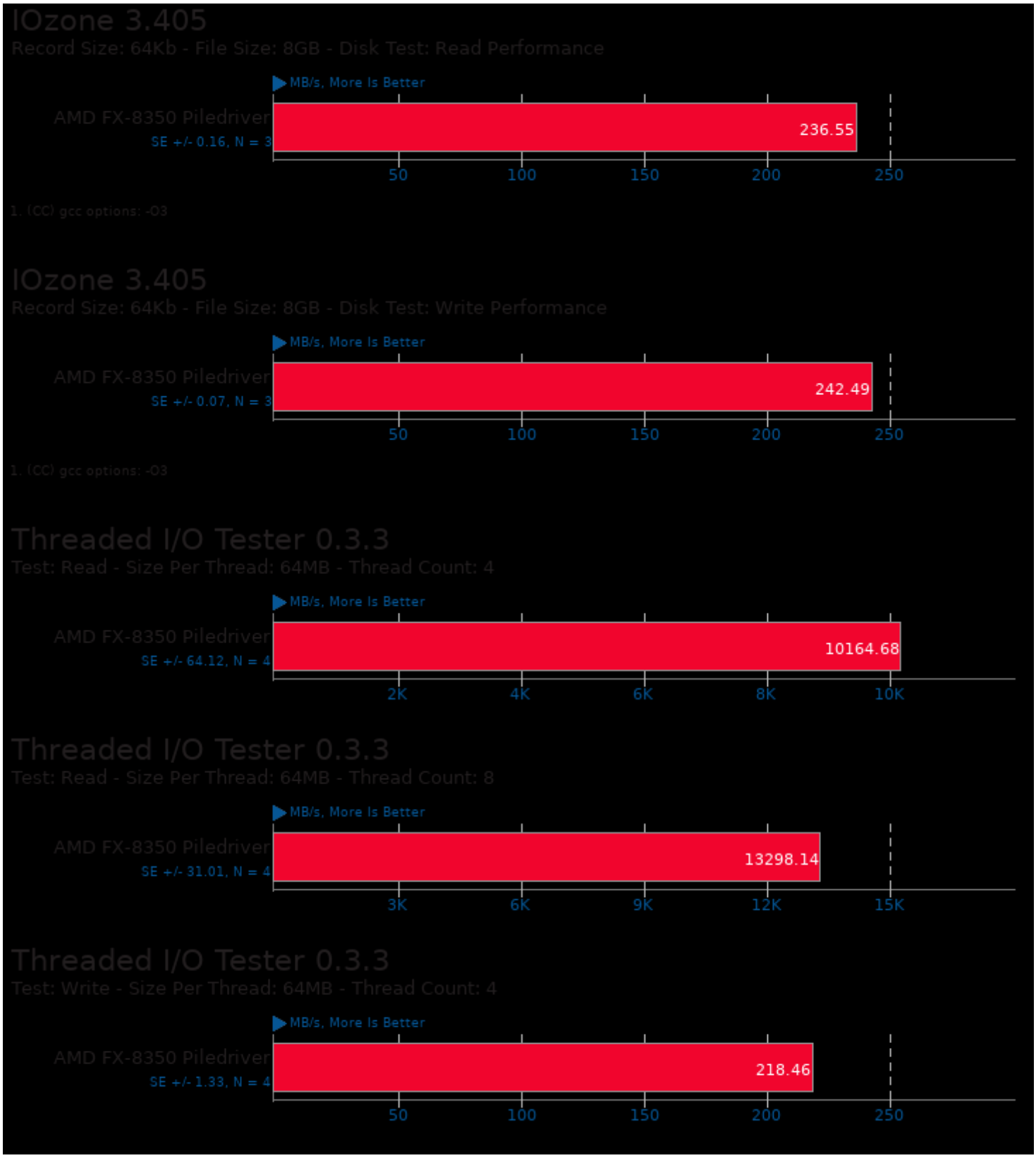
IOzone 3.405

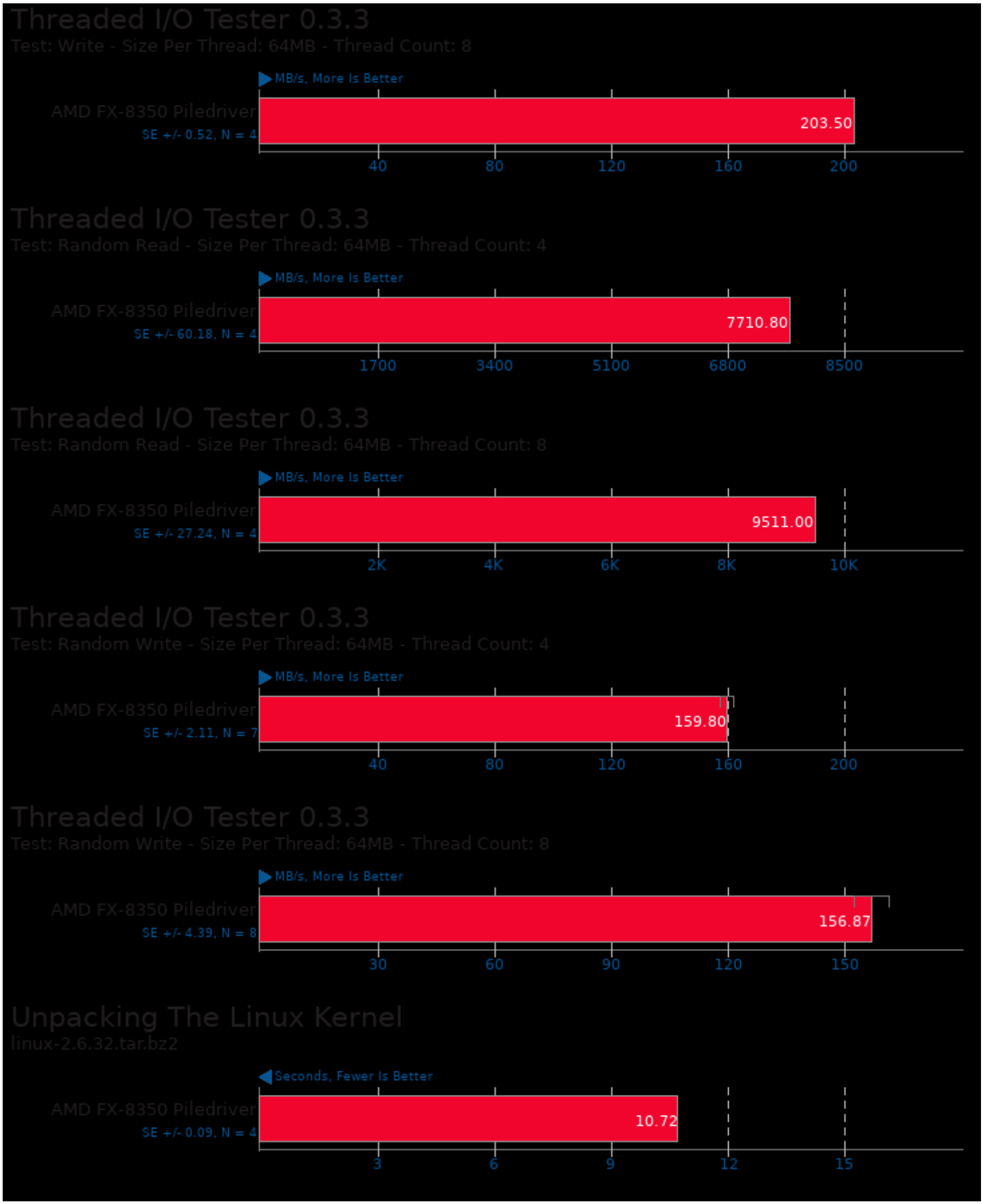
Record Size: 4Kb - File Size: 8GB - Disk Test: Write Performance



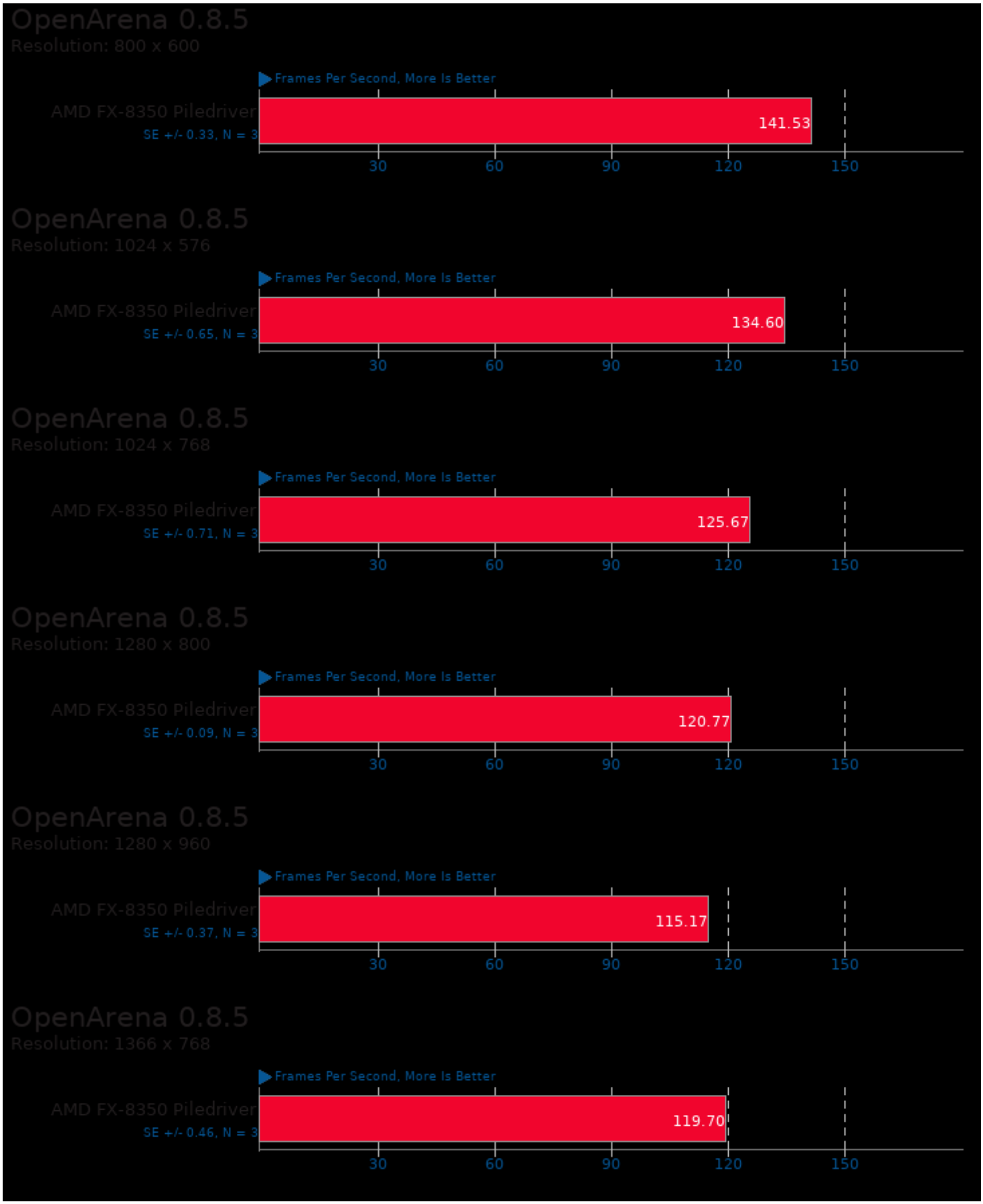
1. (CC) gcc options: -O3

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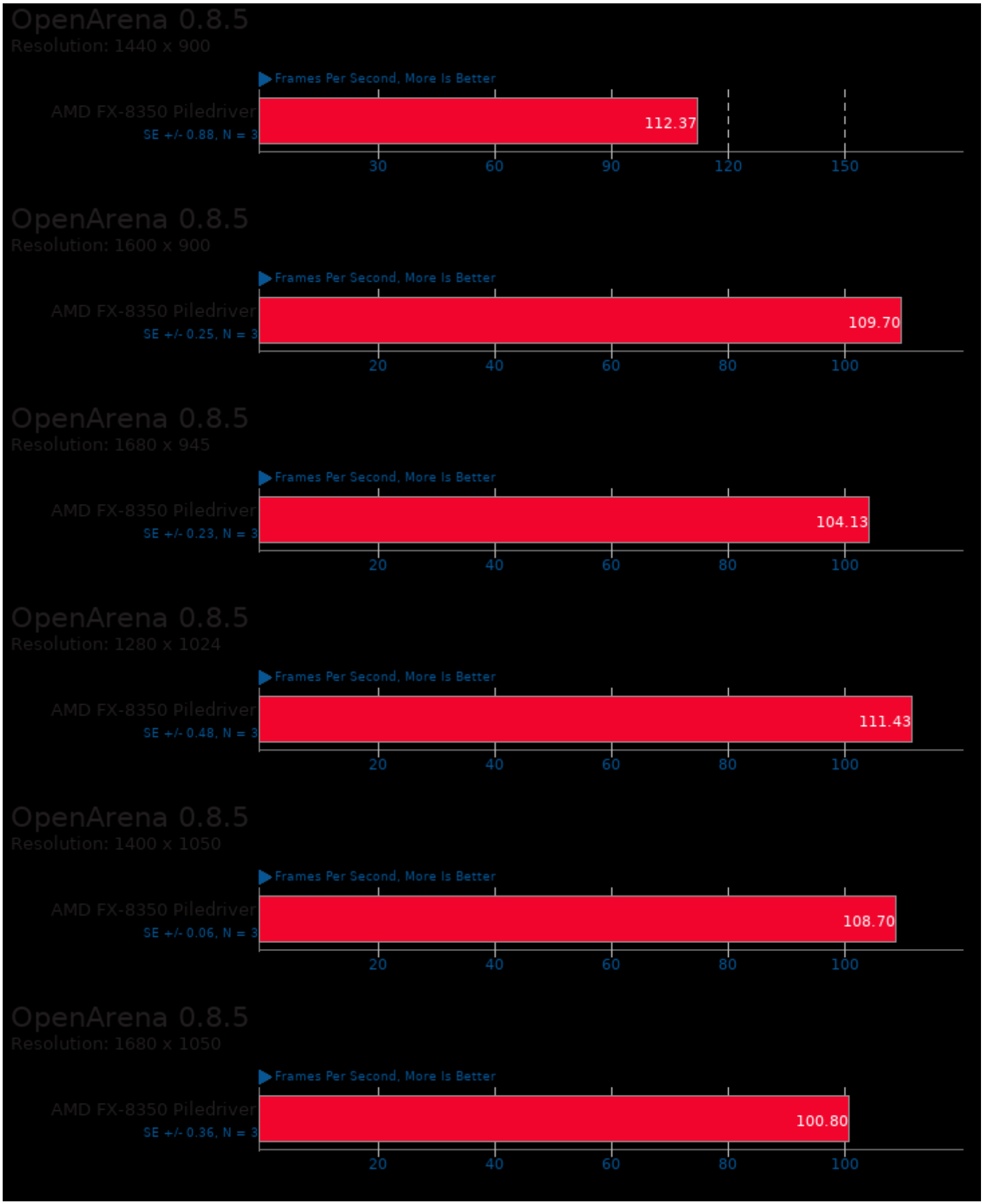



Threaded I/O Tester 0.3.3
Test: Write - Size Per Thread: 64MB - Thread Count: 8
MB/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 0.52, N = 4
203.50
40
80
120
160
200
Threaded I/O Tester 0.3.3
Test: Random Read - Size Per Thread: 64MB - Thread Count: 4
MB/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 60.18, N = 4
7710.80
1700
3400
5100
6800
8500
Threaded I/O Tester 0.3.3
Test: Random Read - Size Per Thread: 64MB - Thread Count: 8
MB/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 27.24, N = 4
9511.00
2K
4K
6K
8K
10K
Threaded I/O Tester 0.3.3
Test: Random Write - Size Per Thread: 64MB - Thread Count: 4
MB/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 2.11, N = 7
159.80
40
80
120
160
200
Threaded I/O Tester 0.3.3
Test: Random Write - Size Per Thread: 64MB - Thread Count: 8
MB/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 4.39, N = 8
156.87
30
60
90
120
150
Unpacking The Linux Kernel
linux-2.6.32.tar.bz2
Seconds, Fewer Is Better
AMD FX-8350 Piledriver
SE +/- 0.09, N = 4
10.72
3
6
9
12
15

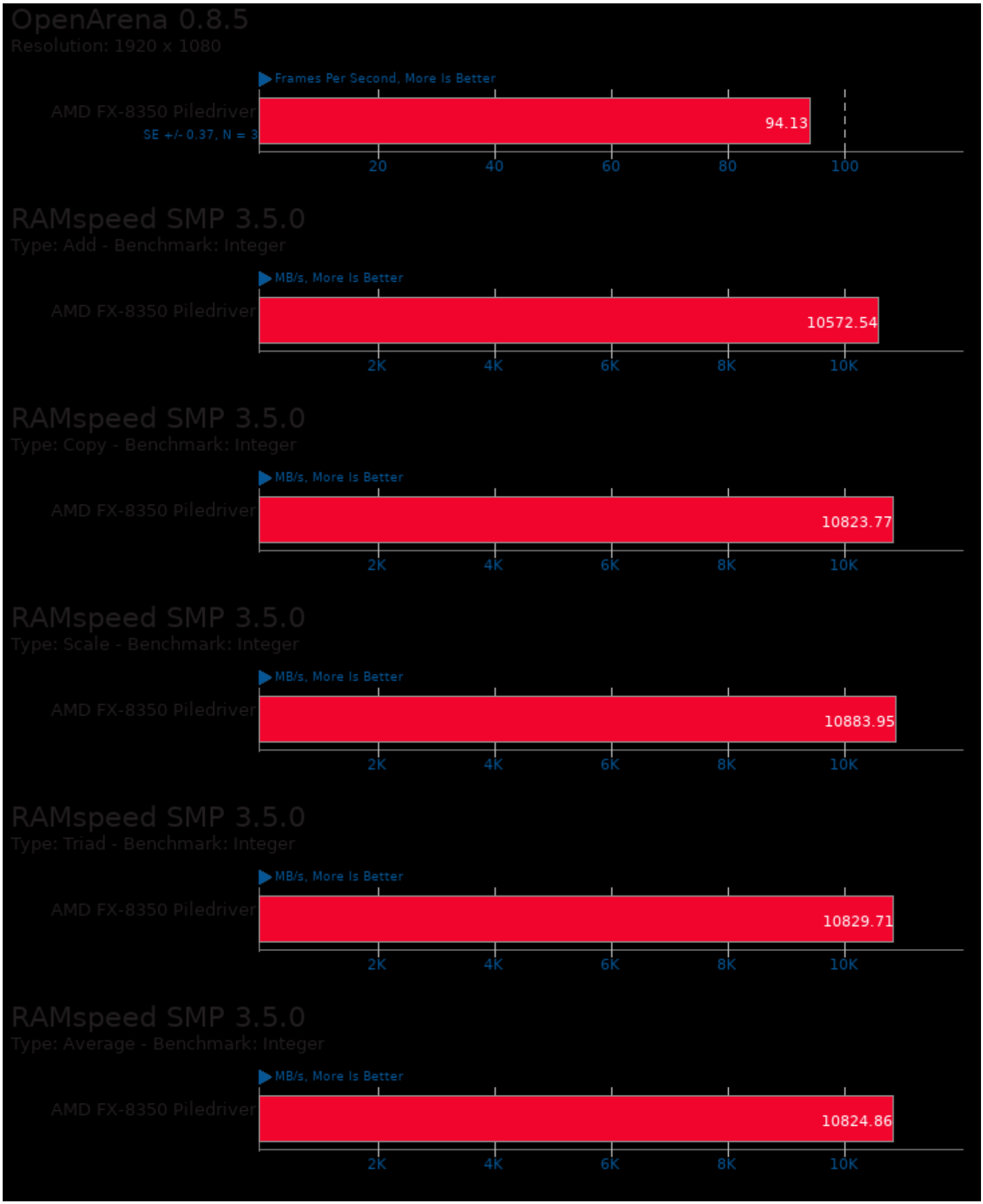
AMD FX-8350 Piledriver Desktop



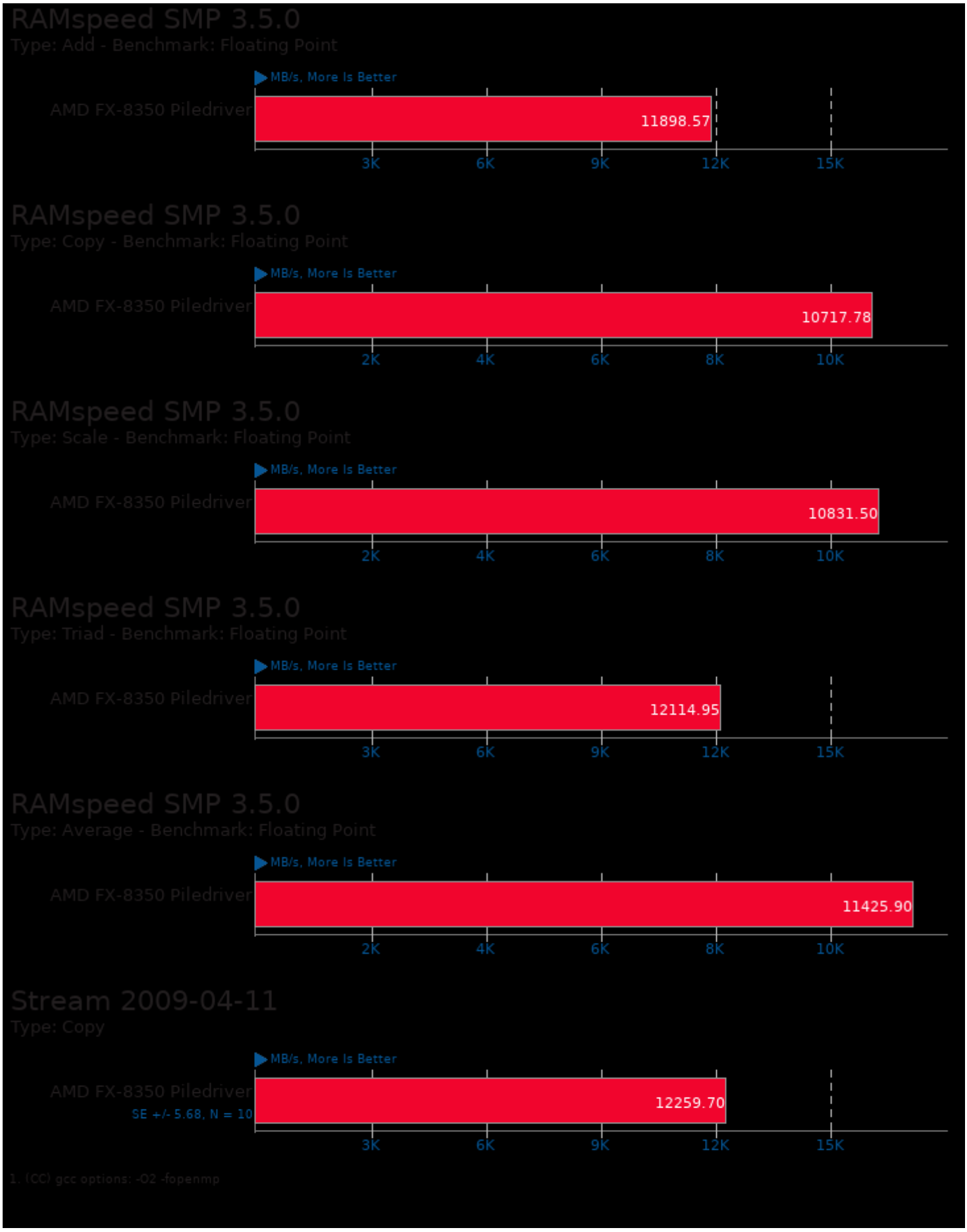
AMD FX-8350 Piledriver Desktop



AMD FX-8350 Piledriver Desktop

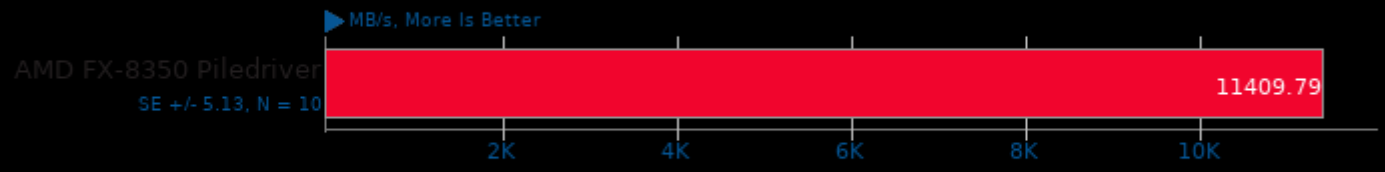


AMD FX-8350 Piledriver Desktop



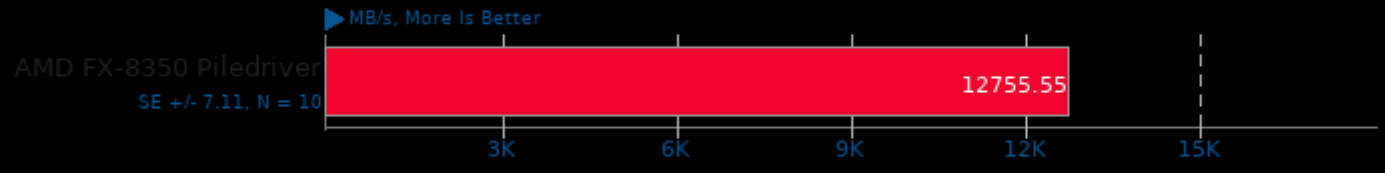
AMD FX-8350 Piledriver Desktop

Stream 2009-04-11
Type: Scale



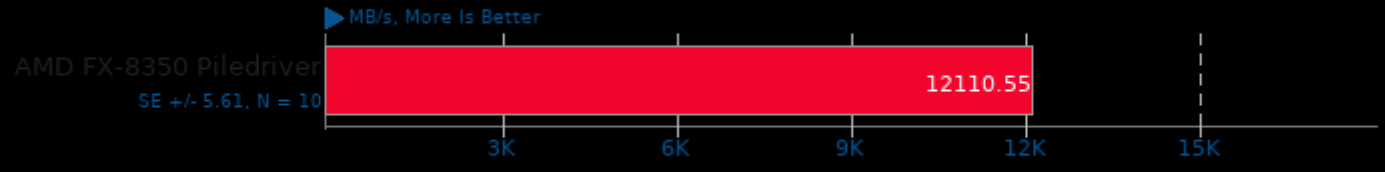
1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11
Type: Triad



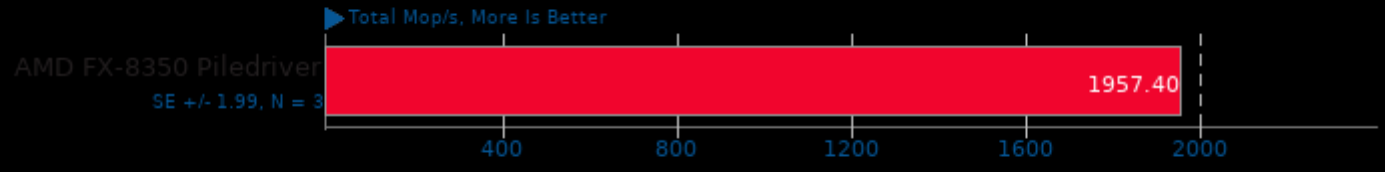
1. (CC) gcc options: -O2 -fopenmp

Stream 2009-04-11
Type: Add



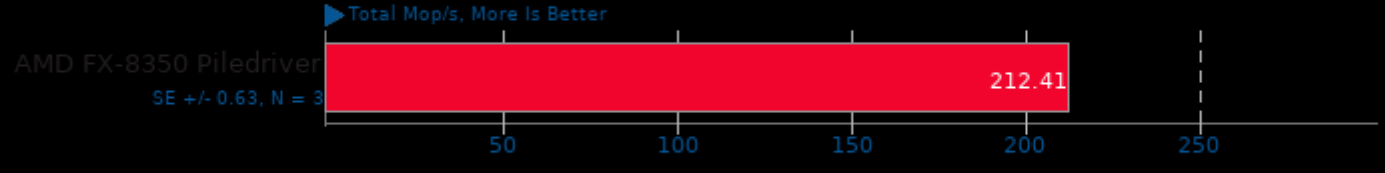
1. (CC) gcc options: -O2 -fopenmp

NAS Parallel Benchmarks 3.3
Test / Class: BT.A



1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

NAS Parallel Benchmarks 3.3
Test / Class: EP.B



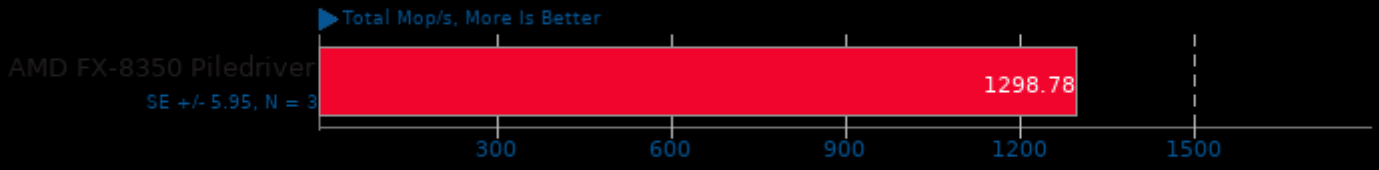
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm


NAS Parallel Benchmarks 3.3
Test / Class: EP.C
Total Mop/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 1.45, N = 3
210.21
50
100
150
200
250
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
NAS Parallel Benchmarks 3.3
Test / Class: EP.D
Total Mop/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 0.79, N = 3
213.07
50
100
150
200
250
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
NAS Parallel Benchmarks 3.3
Test / Class: FT.A
Total Mop/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 6.62, N = 3
2824.56
600
1200
1800
2400
3000
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
NAS Parallel Benchmarks 3.3
Test / Class: LU.A
Total Mop/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 19.97, N = 3
9173.57
2K
4K
6K
8K
10K
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm
NAS Parallel Benchmarks 3.3
Test / Class: MG.B
Total Mop/s, More Is Better
AMD FX-8350 Piledriver
SE +/- 26.48, N = 3
4057.97
900
1800
2700
3600
4500
1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

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NAS Parallel Benchmarks 3.3

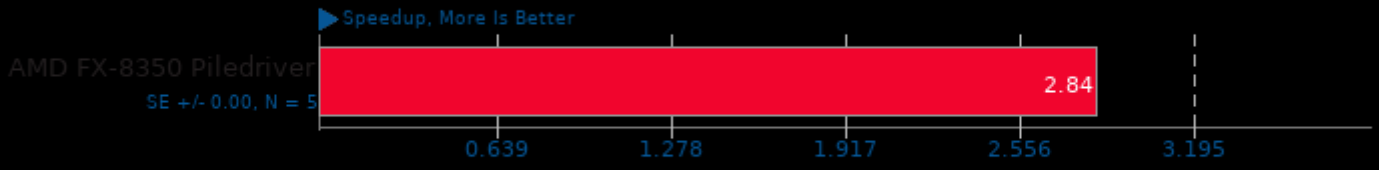
Test / Class: SP.A



1. (F9X) gfortran options: -lmpi -pthread -lmpi_f77 -lopen-rte -lopen-pal -ldl -lnsl -lutil -lm

CLOMP 3.3

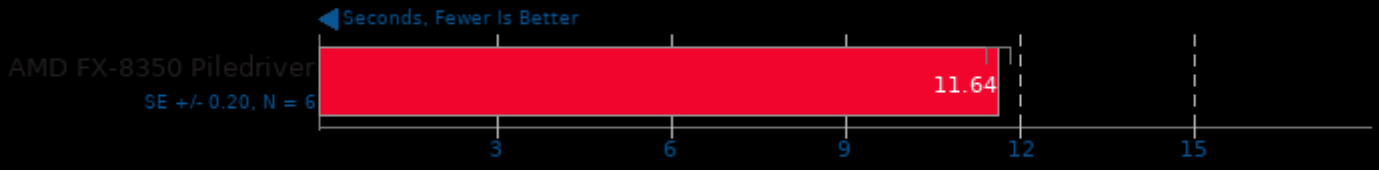
Static OMP Speedup



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

Timed HMMer Search 2.3.2

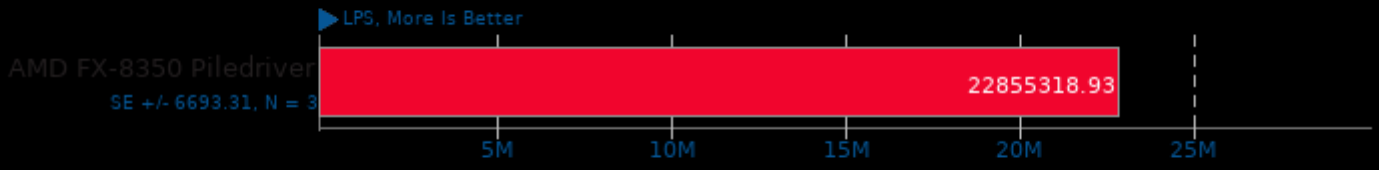
Pfam Database Search



1. (CC) gcc options: -O3 -march=native -pthread -lhmmer -lsquid -lm

BYTE Unix Benchmark 3.6

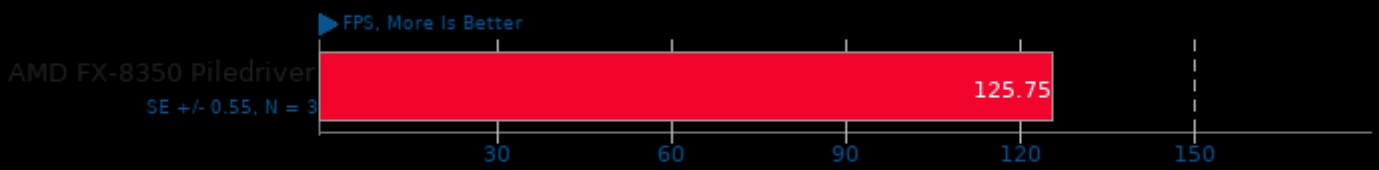
Computational Test: Dhrystone 2



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

TTSIOD 3D Renderer 2.2w

Phong Rendering With Soft-Shadow Mapping

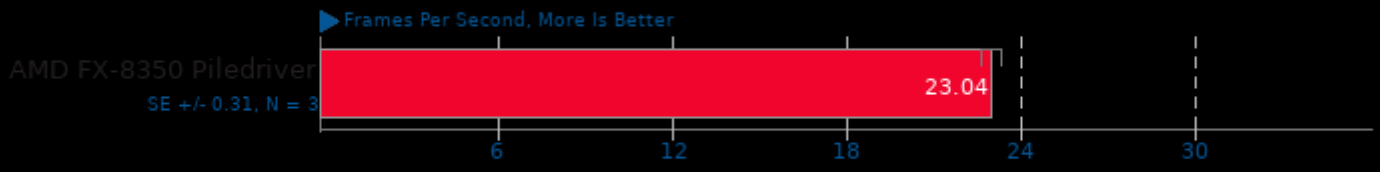


1. (CXX) g++ options: -O3 -march=native -fomit-frame-pointer -ffast-math -mtune=native -flto -msse -mrecip -mfpmath=sse -msse2 -mssse3 -lSDL -lstd

AMD FX-8350 Piledriver Desktop

VP8 libvpx Encoding 1.1.0

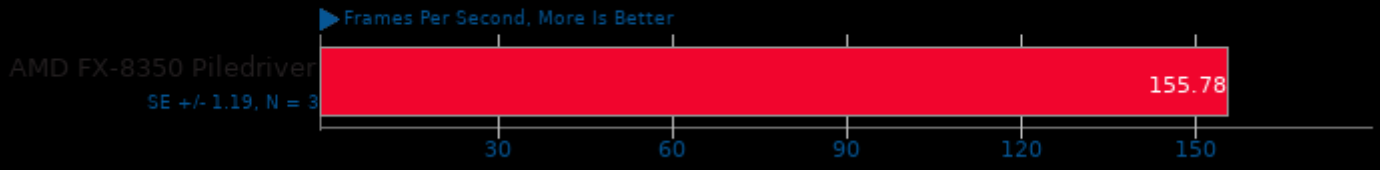
vpxenc



1. (CC) gcc options: -m64 -lvpx -lm -lpthread

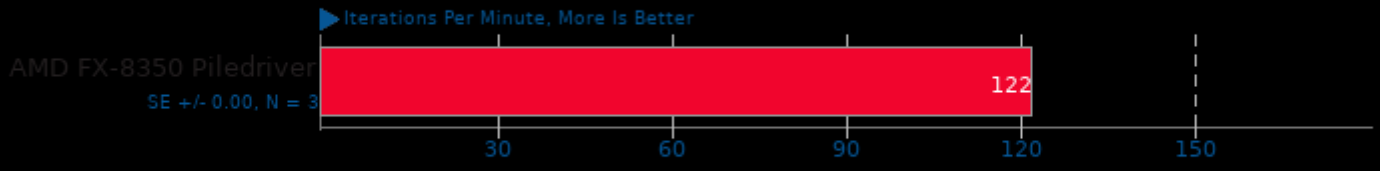
x264 2012-10-03

H.264 Video Encoding



GraphicsMagick 1.3.16

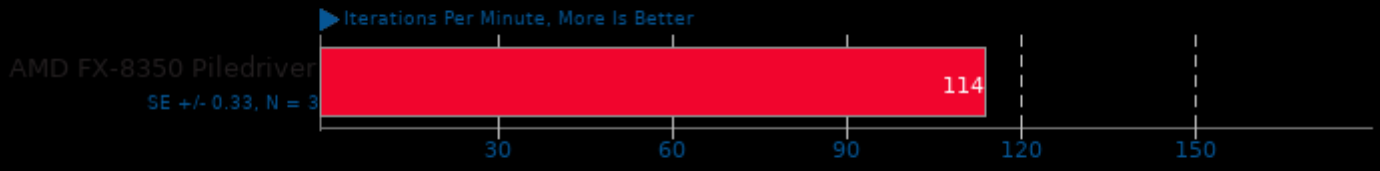
Operation: Blur



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -march=native -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

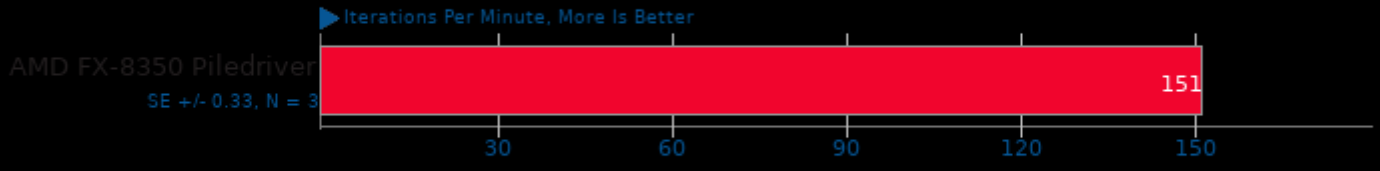
Operation: Sharpen



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -march=native -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

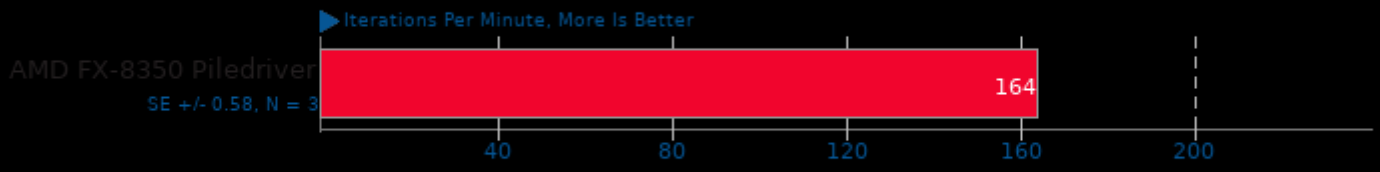
Operation: Resizing



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -march=native -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

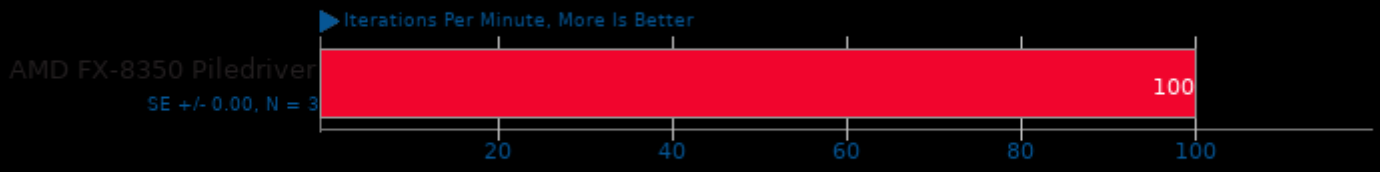
Operation: HWB Color Space



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -march=native -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

GraphicsMagick 1.3.16

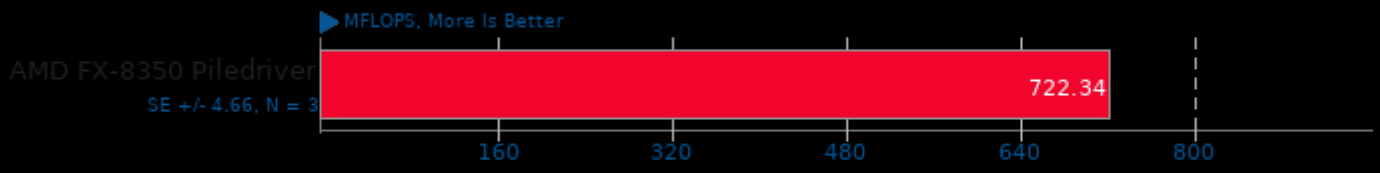
Operation: Local Adaptive Thresholding



1. (CC) gcc options: -std=gnu99 -fopenmp -O3 -march=native -pthread -lXext -lSM -lICE -lX11 -lbz2 -lz -lm -lgomp -lpthread

Himeno Benchmark 3.0

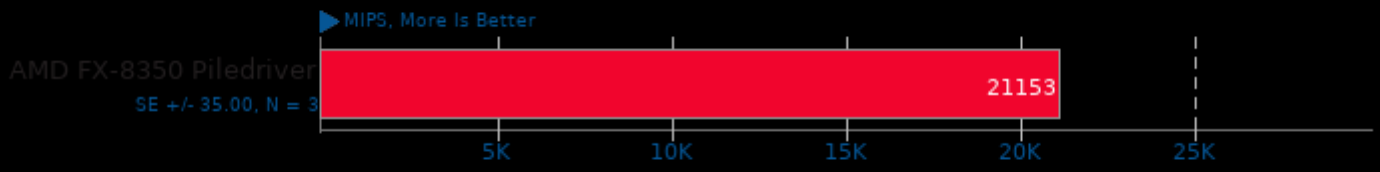
Poisson Pressure Solver



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

7-Zip Compression 9.20.1

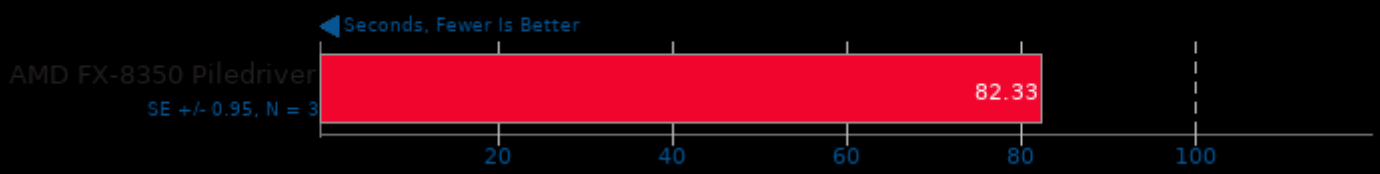
Compress Speed Test



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

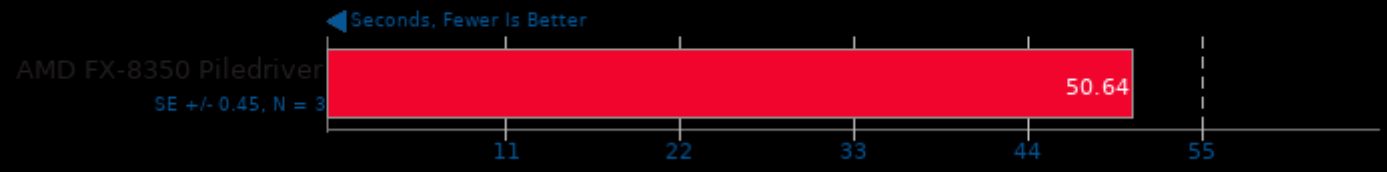
Timed Linux Kernel Compilation 3.1

Time To Compile



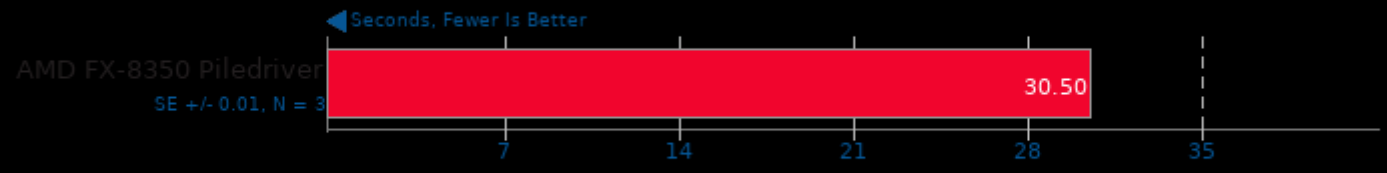
Timed MPlayer Compilation 1.0-rc3

Time To Compile



Timed PHP Compilation 5.2.9

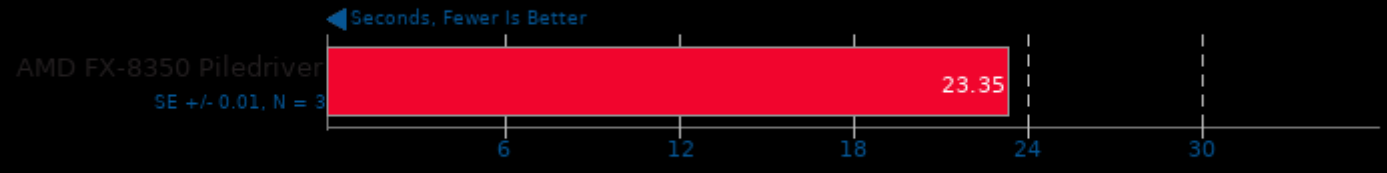
Time To Compile



1. (CC) gcc options: -O3 -march=native -pedantic -ldl -lz -lm

C-Ray 1.1

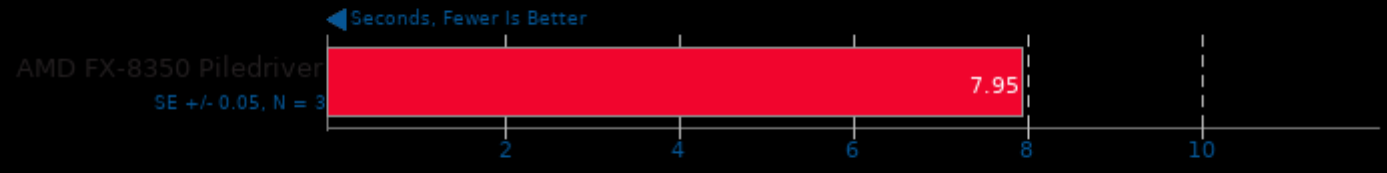
Total Time



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

Parallel BZIP2 Compression 1.1.6

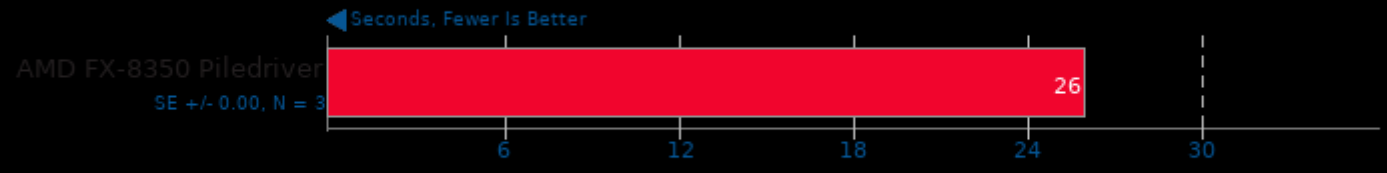
256MB File Compression



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

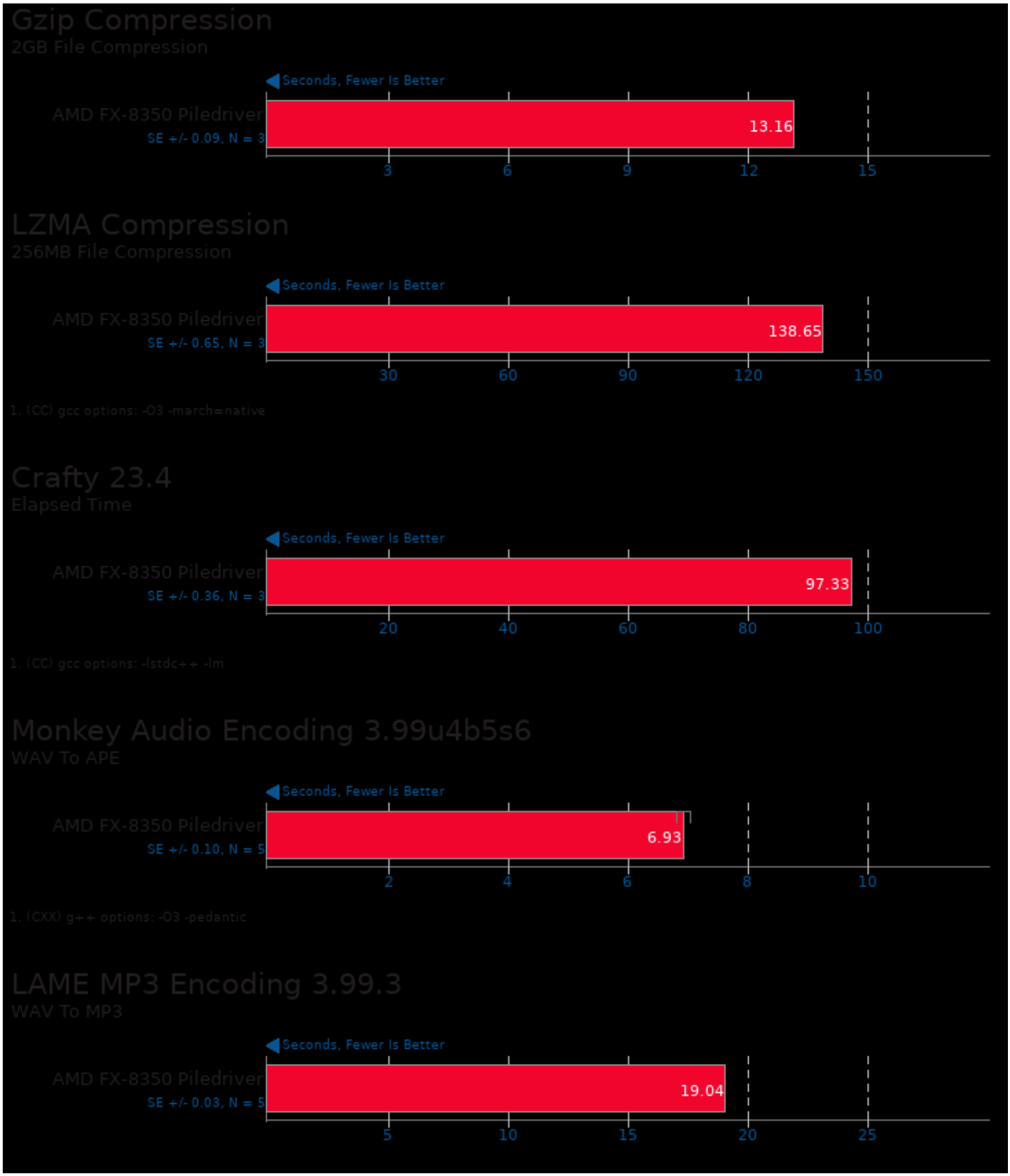
Smallpt 1.0

Global Illumination Renderer; 100 Samples



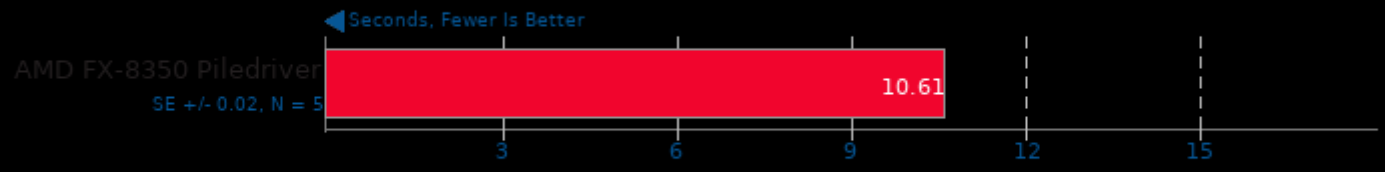
1. (CXX) g++ options: -fopenmp -O3 -march=native

AMD FX-8350 Piledriver Desktop



Ogg Encoding 1.3.0

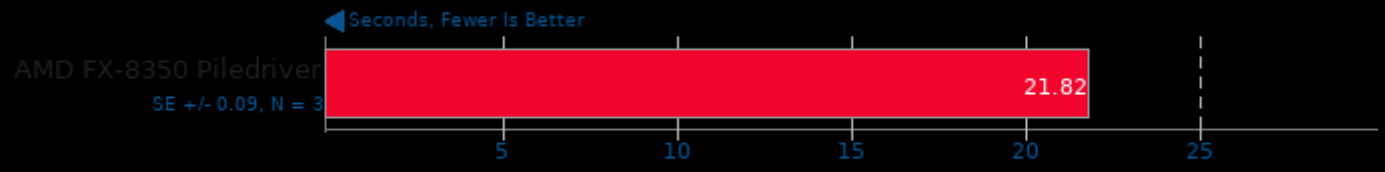
WAV To Ogg



1. (CC) gcc options: -O2 -ffast-math -fsigned-char -O3 -march=native -lm -logg

FFmpeg 1.0

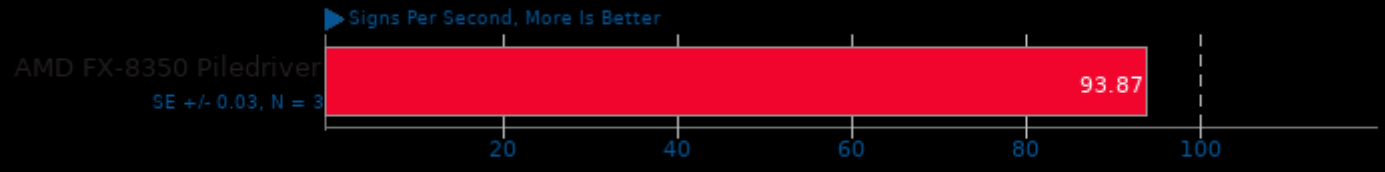
H.264 HD To NTSC DV



1. (CC) gcc options: -lavdevice -lavfilter -lavformat -lavcodec -lswresample -lswscale -lavutil -ldl -lasound -lSDL -lm -pthread -lbz2 -lrt

OpenSSL 1.0.1c

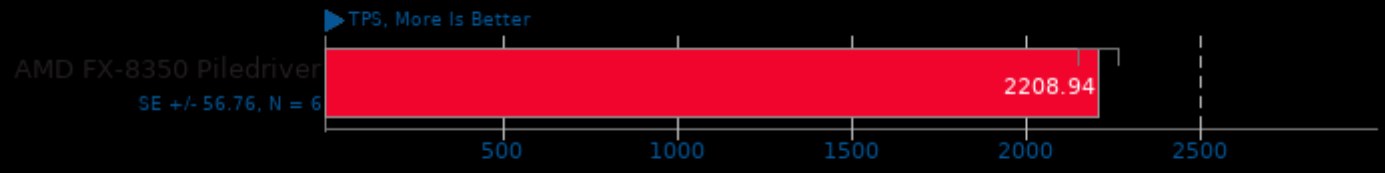
RSA 4096-bit Performance



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

PostgreSQL pgbench 8.4.11

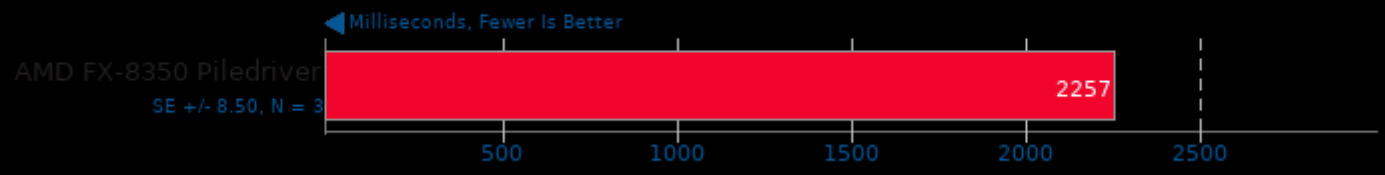
TPC-B Transactions Per Second



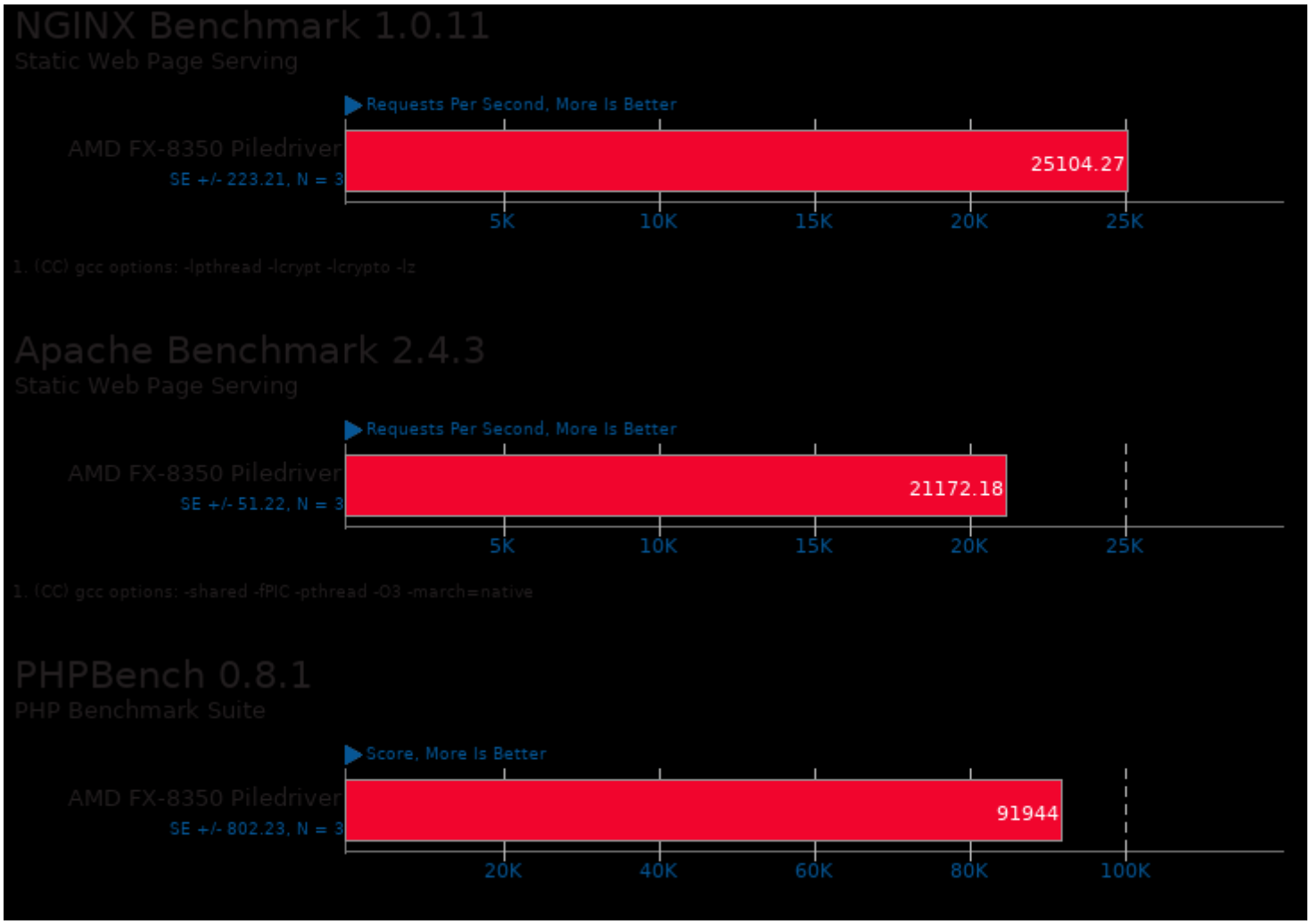
1. (CC) gcc options: -O3 -march=native -fno-strict-aliasing -fwrapv -lpgport -lpq -lcrypt -ldl -lm

PyBench 2008-08-14

Total For Average Test Times



AMD FX-8350 Piledriver Desktop



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