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AMD Fusion E-350 APU Ubuntu 12.10 Linux

Running pts/dolfyn-1.0.0, pts/lammps-1.0.0, pts/ffte-1.0.1, pts/john-the-ripper-1.4.0, pts/vpxenc-1.1.0, pts/x264-1.4.0, pts/graphics-magick-1.5.1, pts/compress-7zip-1.6.0, pts/build-linux-kernel-1.3.0, pts/build-mplayer-1.3.0, pts/build-php-1.3.1, pts/compress-pbzip2-1.4.0, pts/compress-gzip-1.1.0, pts/compress-lzma-1.2.0, pts/encode-flac-1.2.0, pts/encode-mp3-1.4.0, pts/encode-opus-1.0.1, pts/ffmpeg-2.0.0, pts/openssl-1.7.0, pts/apache-1.5.0 via the Phoronix Test Suite.

Automated Executive Summary

i7-4700MQ had the most wins, coming in first place for 52% of the tests.

Based on the geometric mean of all complete results, the fastest (i7-4700MQ) was 6.032x the speed of the slowest (AMD Fusion E-350). G840 was 0.644x the speed of i7-4700MQ, J1900 was 0.628x the speed of G840, J1900 3.15 Kernel was 0.892x the speed of J1900, AMD Fusion E-350 was 0.459x the speed of J1900 3.15 Kernel.

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

Timed Linux Kernel Compilation (Time To Compile) at 9.718x
Parallel BZIP2 Compression (256MB File Compression) at 9.641x
7-Zip Compression (Compress Speed Test) at 8.87x
VP8 libvpx Encoding (vpxenc) at 7.082x
LAMMPS Molecular Dynamics Simulator (Test: Rhodopsin Protein) at 5.713x

Opus Codec Encoding (WAV, Opus Encode, Opus Decode) at 4.611x
FLAC Audio Encoding (WAV To FLAC) at 4.121x
OpenSSL (RSA 4096-bit Performance) at 3.874x
LAME MP3 Encoding (WAV To MP3) at 3.849x
LZMA Compression (256MB File Compression) at 3.604x.

Test Systems:

AMD Fusion E-350

Processor: AMD E-350 @ 1.60GHz (2 Cores), Motherboard: ASUS E35M1-M PRO, Chipset: AMD Family 14h Root Complex, Memory: 3584MB, Disk: 320GB Hitachi HTS54503, Graphics: AMD Radeon HD 6310 384MB, Audio: ATI R6xx HDMI, Monitor: Acer P243W, Network: Realtek RTL8111/8168B

OS: Ubuntu 12.10, Kernel: 3.5.0-17-generic (x86_64), Desktop: Unity 6.8.0, Display Server: X Server 1.13.0, Display Driver: radeon 6.99.99, OpenGL: 2.1 Mesa 9.0 Gallium 0.4, Compiler: GCC 4.7, File-System: ext4, Screen Resolution: 1920x1200

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
Processor Notes: Scaling Governor: ondemand
System Notes: Compiz was running on this system.

i7-4700MQ

Processor: Intel Core i7-4700MQ @ 2.40GHz (8 Cores), Motherboard: MSI MS-1758, Chipset: Intel Xeon E3-1200 v3/4th, Memory: 16384MB, Disk: 120GB INTEL SSDSC2CT12 + 1000GB HGST HTS721010A9, Graphics: Intel HD 4600, Audio: Intel Xeon E3-1200 v3/4th, Network: Qualcomm Atheros AR8161 Gigabit + Realtek RTL8723AE PCIe Wireless

OS: Ubuntu 14.04, Kernel: 3.13.0-24-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.15.1, Display Driver: intel 2.99.911, OpenGL: 3.3 Mesa 10.2.0-devel (git-b45f65e trusty-oibaf-ppa), Compiler: GCC 4.8.2, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

J1900

Processor: Intel Celeron J1900 @ 1.99GHz (4 Cores), Motherboard: ASRock Q1900B-ITX, Chipset: Intel ValleyView SSA-CUnit, Memory: 16384MB, Disk: 120GB GOODRAM C50, Graphics: Intel ValleyView Gen7 (860MHz), Audio: Realtek ALC662 rev1, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-24-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.15.1, Display Driver: intel 2.99.910, OpenGL: 3.3 Mesa 10.1.0, Compiler: GCC 4.8.2, File-System: ext4, Screen Resolution:

1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

J1900 3.15 Kernel

Processor: Intel Celeron J1900 @ 2.90GHz (4 Cores), Motherboard: ASRock Q1900B-ITX, Chipset: Intel ValleyView SSA-CUnit, Memory: 16384MB, Disk: 120GB GOODRAM C50, Graphics: Intel ValleyView Gen7 (854MHz), Audio: Intel ValleyView HD Audio, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.15.0-031500rc2-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.15.1, Display Driver: intel 2.99.911, OpenGL: 3.3 Mesa 10.2.0-devel (git-3a2885f trusty-oibaf-ppa), Compiler: GCC 4.8.2, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: intel_pstate performance

G840

Processor: Intel Pentium G840 @ 2.80GHz (2 Cores), Motherboard: Gigabyte Tecohnology H61MA-D3V, Chipset: Intel 2nd Generation Core Family DRAM, Memory: 7168MB, Disk: 120GB GOODRAM C50, Graphics: Intel HD 2000 (1100MHz), Audio: Realtek ALC887-VD, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 14.04, Kernel: 3.13.0-24-generic (x86_64), Desktop: Xfce 4.10, Display Server: X Server 1.15.1, Display Driver: intel 2.99.910, OpenGL: 3.1 Mesa 10.1.0, Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86_64-linux-gnu --disable-browser-plugin --disable-libmudflap --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-amd64 --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-amd64 --with-multilib-list=m32,m64,mx32 --with-tune=generic -v
Processor Notes: Scaling Governor: acpi-cpufreq ondemand

	AMD Fusion E-350	i7-4700MQ	J1900	J1900 3.15 Kernel	G840
Apache Benchmark - S.W.P.S (Reqs/sec)	3458				
Standard Deviation	0.7%				
OpenSSL - R.4.b.P (Signs/sec)	32.30		27.30	**22.50**	**87.17**
Normalized	37.05%		31.32%	25.81%	100%
Standard Deviation	0%		0%	0.8%	0.1%
FFmpeg - H.2.H.T.N.D (sec)	**81.55**		44.35	42.90	**23.10**
Normalized	28.33%		52.09%	53.85%	100%
Standard Deviation	0.7%		0.8%	0.8%	0.6%

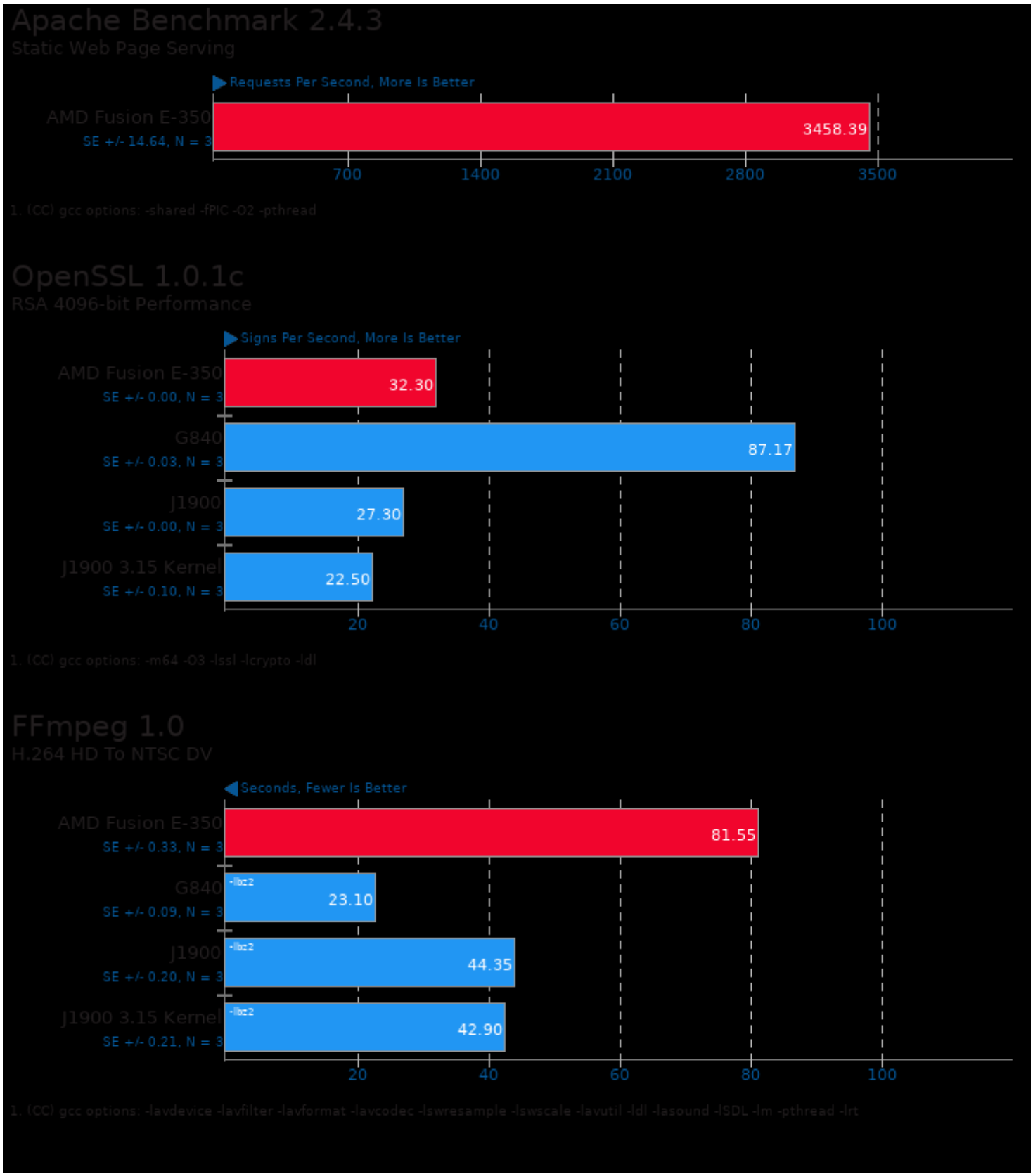
AMD Fusion E-350 APU Ubuntu 12.10 Linux

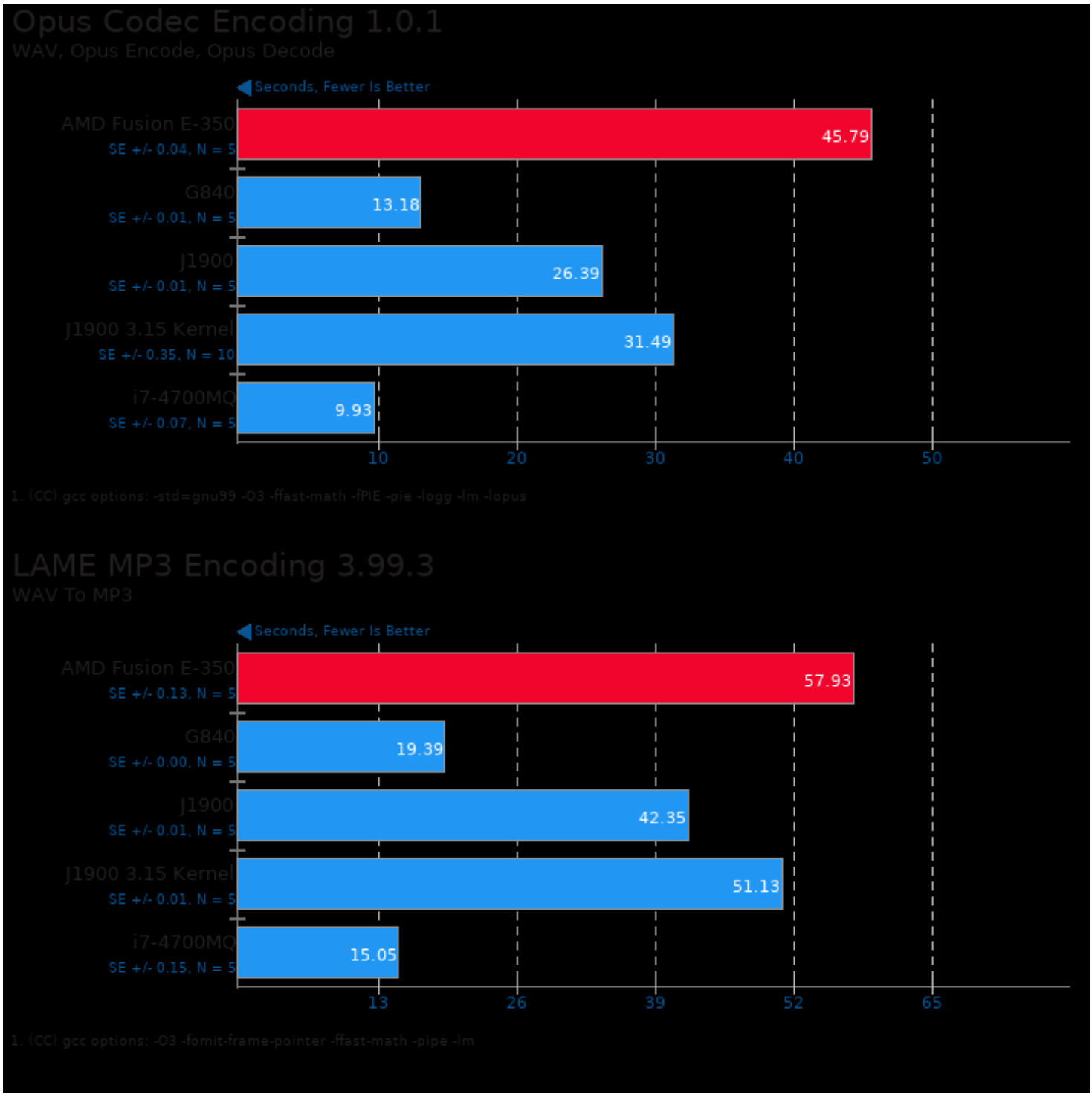
Opus Codec Encoding - W.O.E.O.D (sec)	45.79	9.93	26.39	31.49	13.18
Normalized	21.69%	100%	37.63%	31.53%	75.34%
Standard Deviation	0.2%	1.6%	0%	3.5%	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	57.93	15.05	42.35	51.13	19.39
Normalized	25.98%	100%	35.54%	29.43%	77.62%
Standard Deviation	0.5%	2.2%	0%	0%	0%
FLAC Audio Encoding - WAV To FLAC (sec)	23.24	5.64	18.28	22.07	9.17
Normalized	24.27%	100%	30.85%	25.56%	61.5%
Standard Deviation	0.4%	0.4%	0.1%	0.1%	0.1%
LZMA Compression - 2.F.C (sec)	535.44	148.55	282.83	311.10	158.12
Normalized	27.74%	100%	52.52%	47.75%	93.95%
Standard Deviation	0.1%	0%	0.1%	0.6%	3.2%
Gzip Compression - 2.F.C (sec)	42.31	12.85	28.01	32.73	18.08
Normalized	30.37%	100%	45.88%	39.26%	71.07%
Standard Deviation	3.4%	0.7%	0.2%	7.2%	0.6%
Parallel BZIP2 Compression - 2.F.C (sec)	82.62	8.57	29.72	33.99	30.77
Normalized	10.37%	100%	28.84%	25.21%	27.85%
Standard Deviation	0.2%	3.4%	0.9%	0.3%	1.8%
Timed PHP Compilation - Time To Compile (sec)	252.39	31.28	8.18	8.77	5.01
Normalized	1.99%	16.02%	61.25%	57.13%	100%
Standard Deviation	0.1%	3.3%	4.4%	5.5%	27.1%
Timed MPlayer Compilation - Time To Compile (sec)	539.40	54.87	188.90	207.31	214.26
Normalized	10.17%	100%	29.05%	26.47%	25.61%
Standard Deviation	1.2%	2.1%	1.9%	2.4%	18.9%
Timed Linux Kernel Compilation - Time To Compile (sec)	922.59	94.94	391.03	410.01	286.25
Normalized	10.29%	100%	24.28%	23.16%	33.17%
Standard Deviation	0.5%	2%	0.8%	0.7%	0.4%
7-Zip Compression - C.S.T	1928	17102	4829	4698	5450
Normalized	11.27%	100%	28.24%	27.47%	31.87%
Standard Deviation	0.3%	2%	0.6%	2.6%	0.2%
GraphicsMagick - L.A.T (Iterations/min)	16		42	37	55
Normalized	29.09%		76.36%	67.27%	100%
Standard Deviation	0%		0%	1.5%	0%
GraphicsMagick - HWB Color Space (Iterations/min)	44		75	64	103
Normalized	42.72%		72.82%	62.14%	100%
Standard Deviation	0%		0%	0%	0.6%
GraphicsMagick - Resizing (Iterations/min)	30		66	57	72
Normalized	41.67%		91.67%	79.17%	100%
Standard Deviation	0%		0%	0%	0%
GraphicsMagick - Sharpen (Iterations/min)	16		32	27	22
Normalized	50%		100%	84.38%	68.75%
Standard Deviation	0%		1.8%	0%	0%

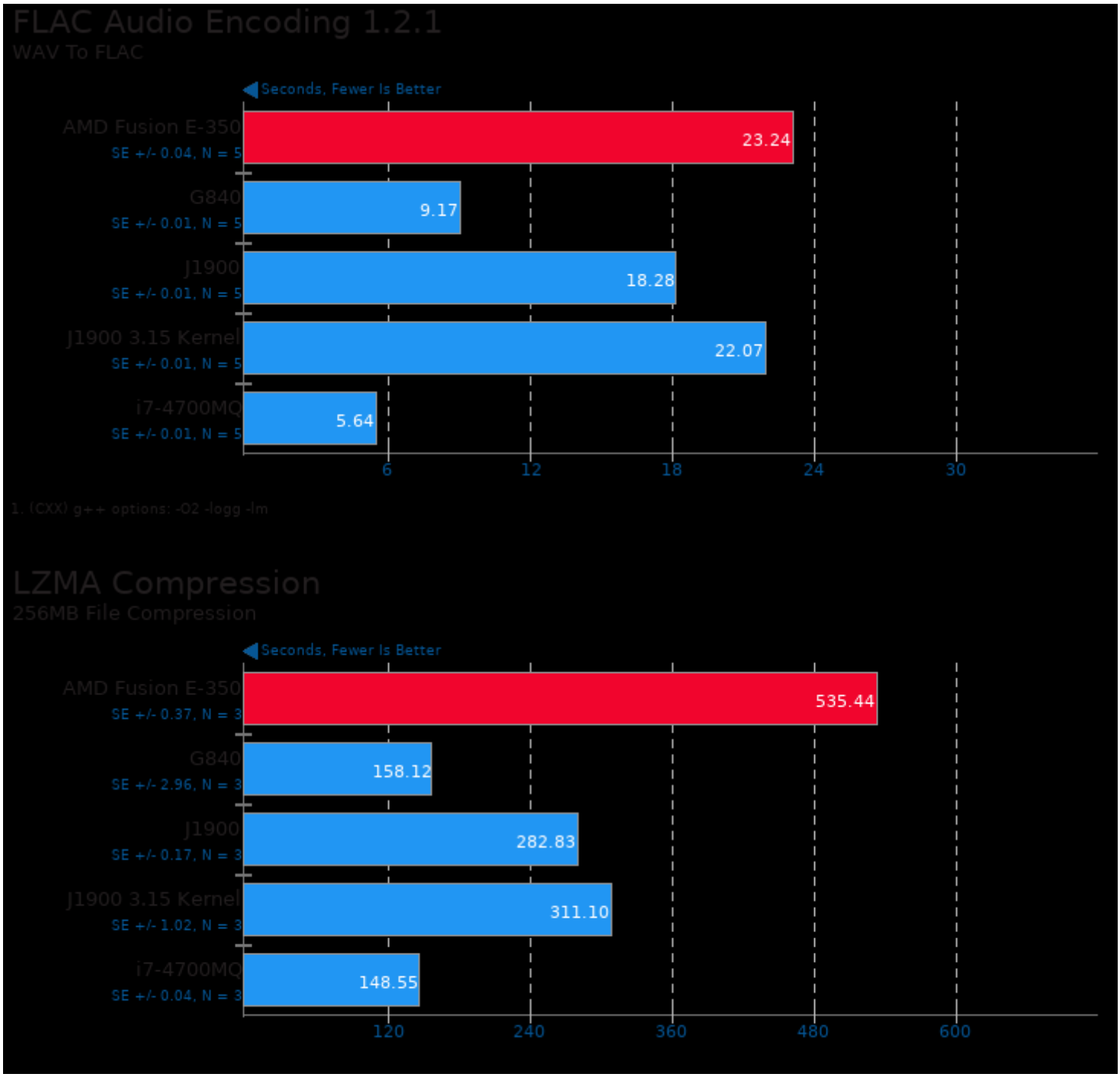
AMD Fusion E-350 APU Ubuntu 12.10 Linux

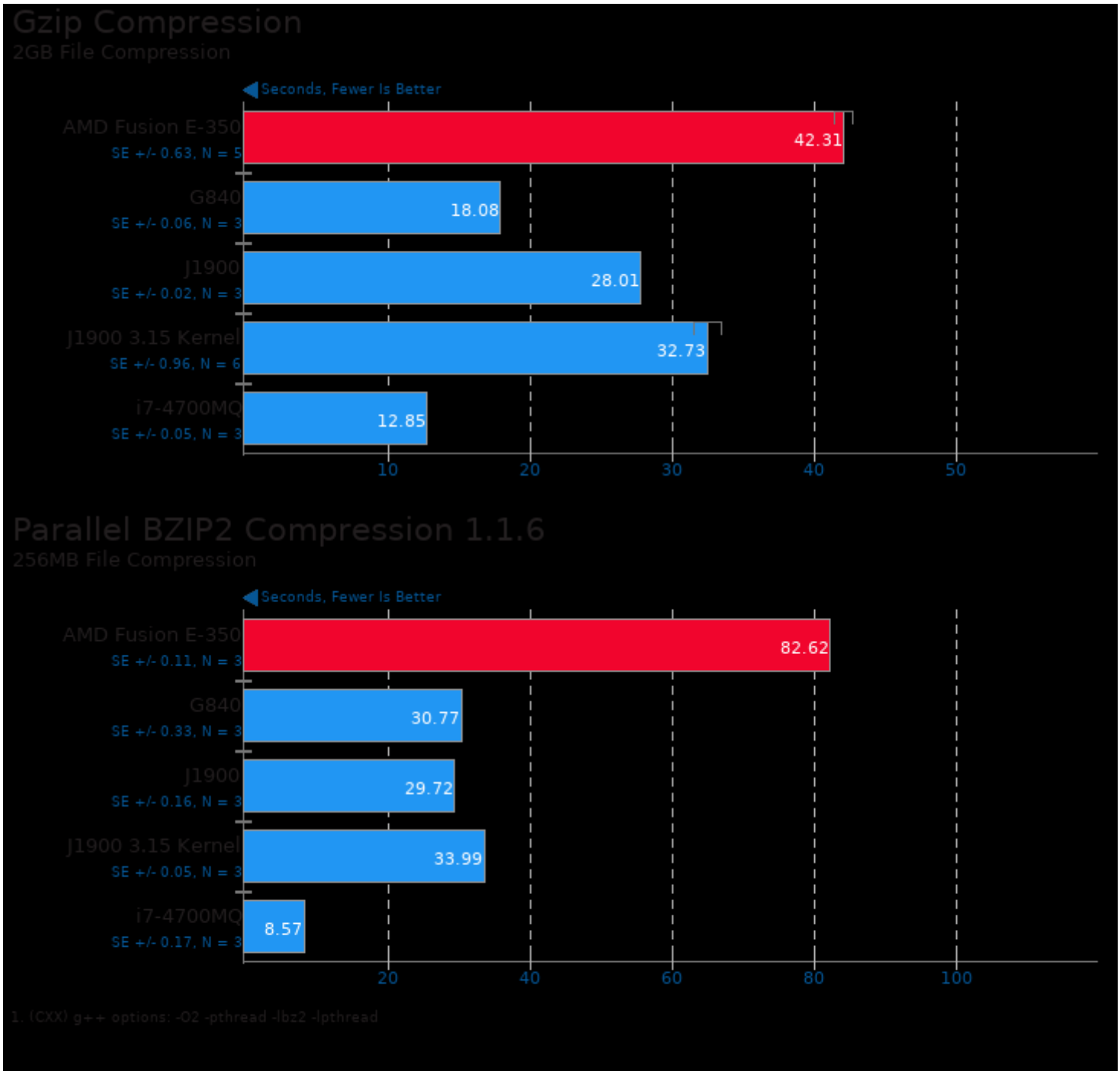
GraphicsMagick - Blur (Iterations/min)	24		42	38	54
Normalized	44.44%		77.78%	70.37%	100%
Standard Deviation	0%		0%	0%	0%
x264 - H.2.V.E (FPS)	10.86				
Standard Deviation	0.8%				
VP8 libvpx Encoding - vpxenc (FPS)	3.28	23.23	9.24	8.74	15.32
Normalized	14.12%	100%	39.78%	37.62%	65.95%
Standard Deviation	0.8%	1.4%	0.4%	1.3%	1.9%
John The Ripper - Blowfish (Real C/S)	819		2057	1758	1335
Normalized	39.82%		100%	85.46%	64.9%
Standard Deviation	0%		0.6%	1%	0.6%
FFTE - N.6.1.C.F.R (MFLOPS)	1185		1733	1485	4132
Normalized	28.67%		41.94%	35.93%	100%
Standard Deviation	1.1%		0.3%	8.1%	0.1%
LAMMPS Molecular Dynamics Simulator - Rhodopsin Protein (Loop Time)	221.08	38.70	173.43	198.82	56.39
Normalized	17.5%	100%	22.31%	19.46%	68.63%
Standard Deviation	0.9%	0.4%	0.4%	5.4%	1.5%
Dolfyn - C.F.D (sec)	142.81				
Standard Deviation	0.5%				

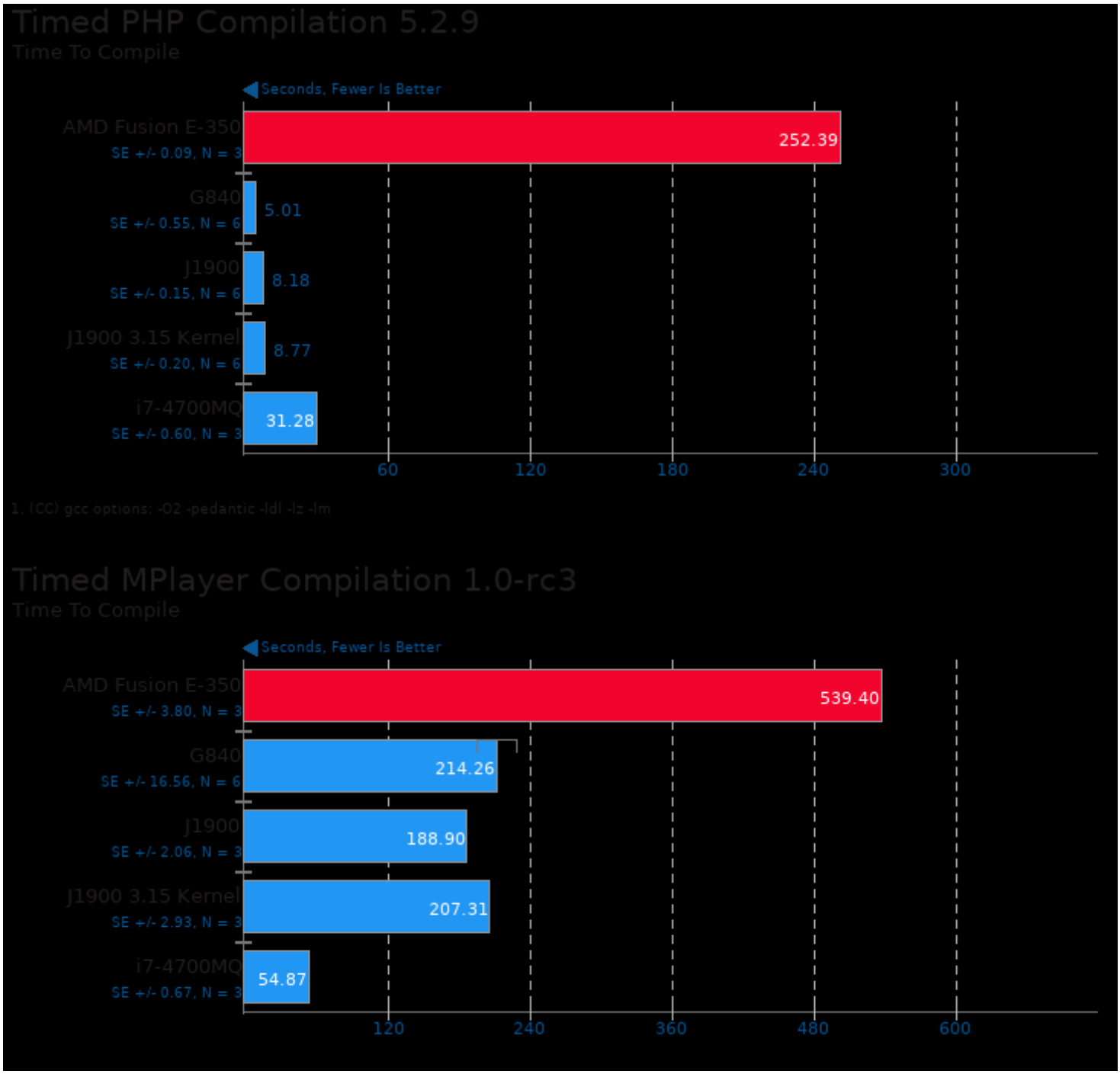
AMD Fusion E-350 APU Ubuntu 12.10 Linux

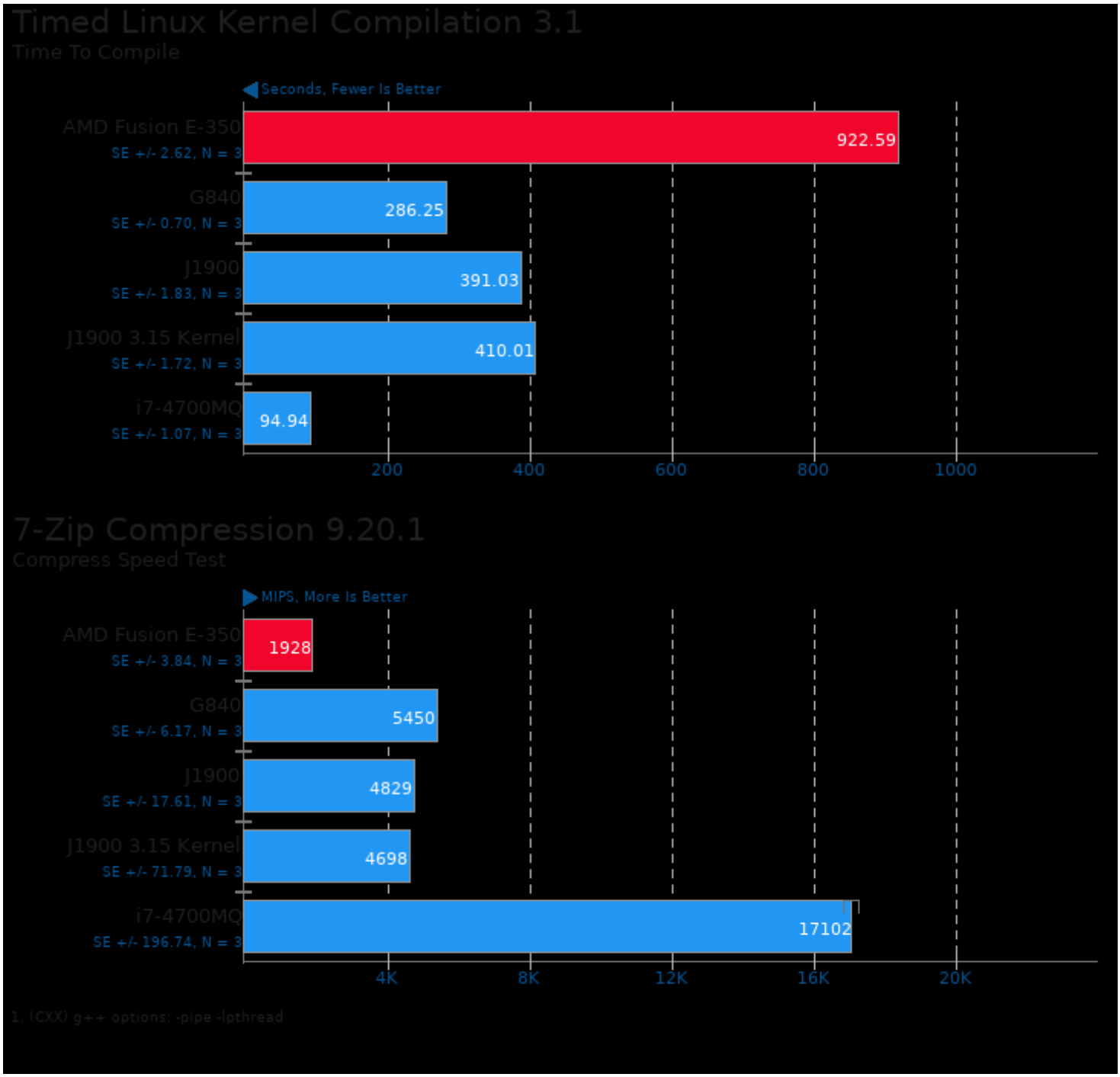


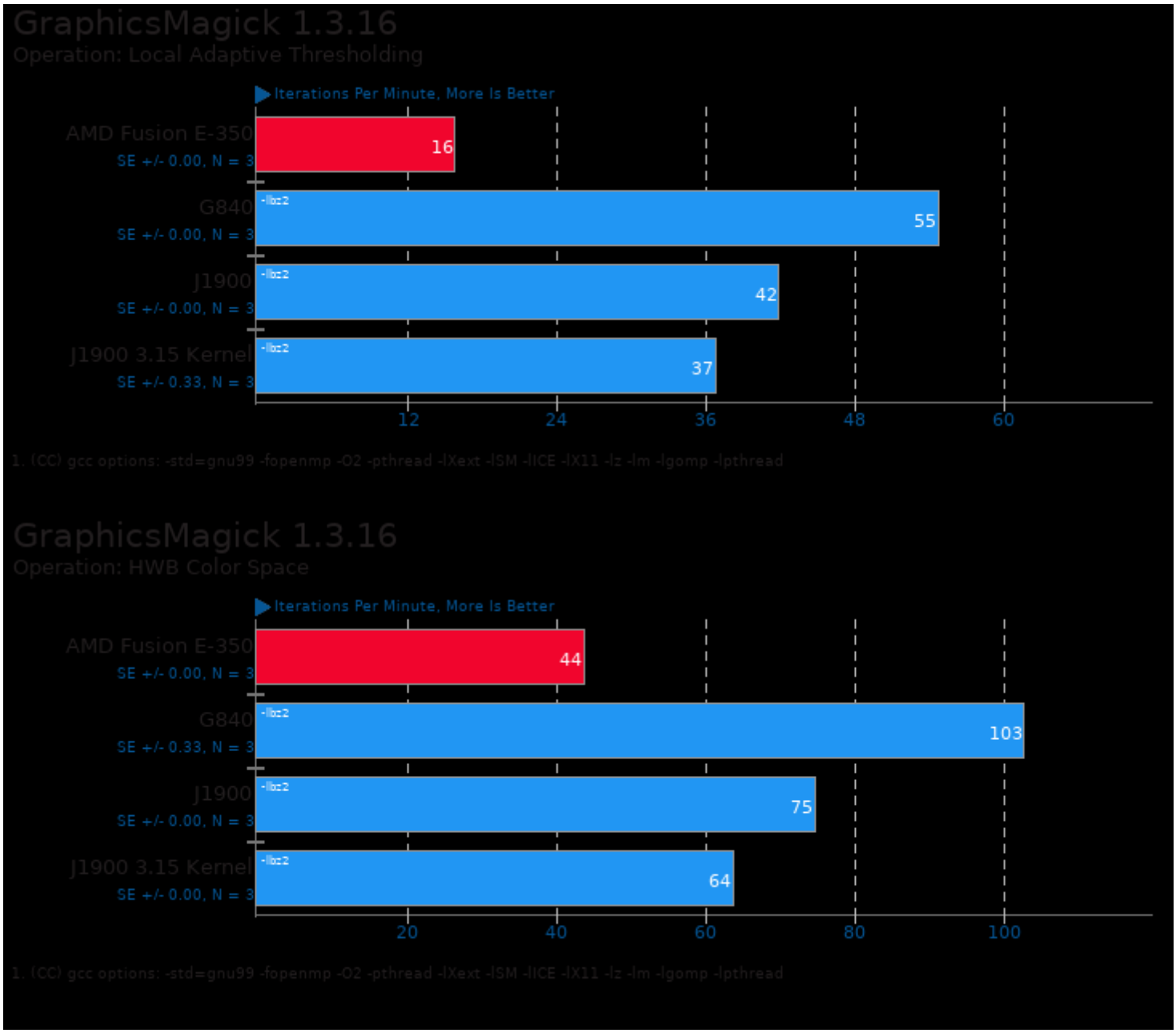

Opus Codec Encoding 1.0.1
WAV, Opus Encode, Opus Decode
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.04, N = 5
45.79
G840
SE +/- 0.01, N = 5
13.18
J1900
SE +/- 0.01, N = 5
26.39
J1900 3.15 Kernel
SE +/- 0.35, N = 10
31.49
i7-4700MQ
SE +/- 0.07, N = 5
9.93
10
20
30
40
50
1. (CC) gcc options: -std=gnu99 -O3 -ffast-math -fPIE -pie -logg -lm -lopus
LAME MP3 Encoding 3.99.3
WAV To MP3
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.13, N = 5
57.93
G840
SE +/- 0.00, N = 5
19.39
J1900
SE +/- 0.01, N = 5
42.35
J1900 3.15 Kernel
SE +/- 0.01, N = 5
51.13
i7-4700MQ
SE +/- 0.15, N = 5
15.05
13
26
39
52
65
1. (CC) gcc options: -O3 -fomit-frame-pointer -ffast-math -pipe -lm

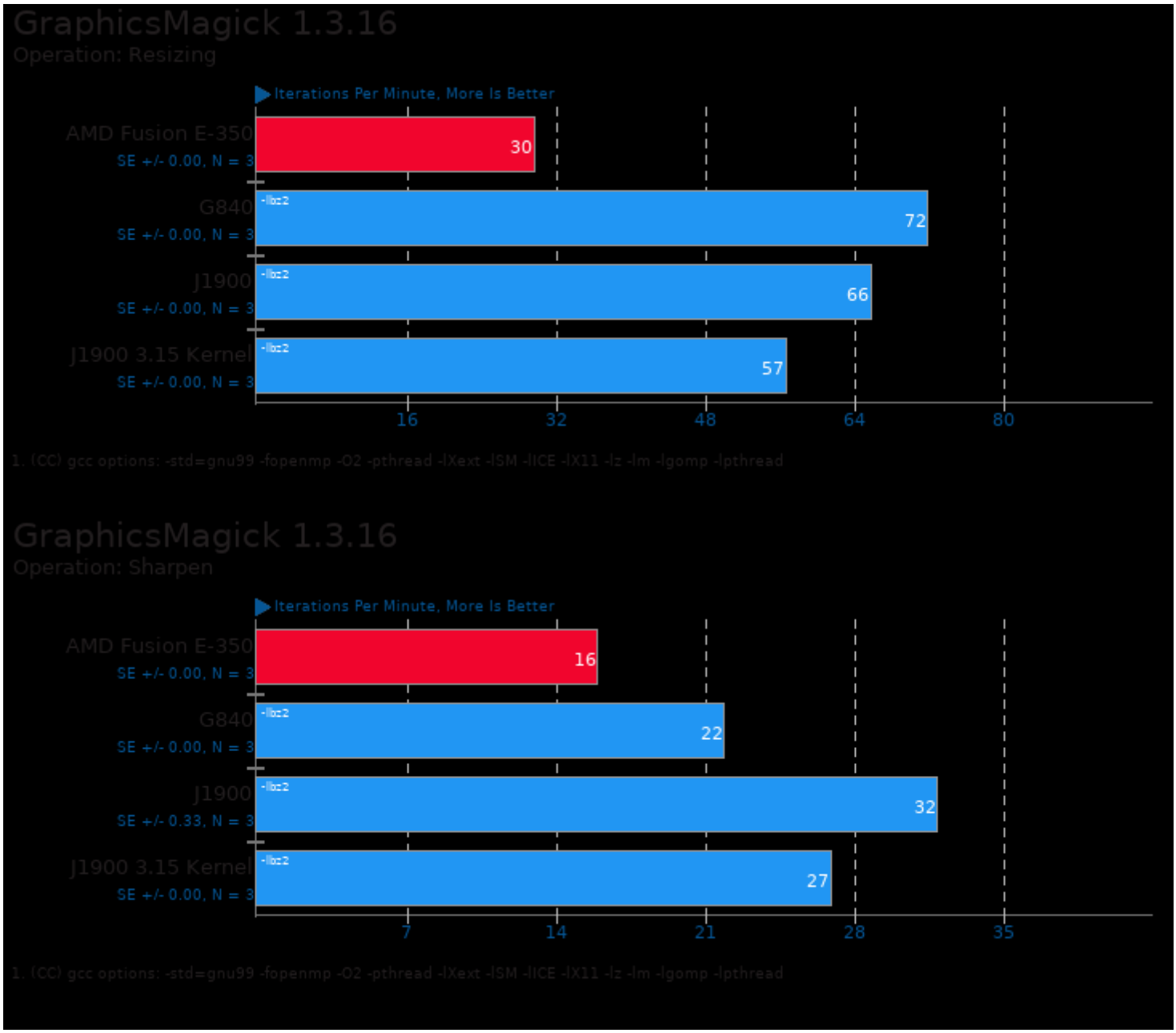

FLAC Audio Encoding 1.2.1
WAV To FLAC
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.04, N = 5
23.24
G840
SE +/- 0.01, N = 5
9.17
J1900
SE +/- 0.01, N = 5
18.28
J1900 3.15 Kernel
SE +/- 0.01, N = 5
22.07
i7-4700MQ
SE +/- 0.01, N = 5
5.64
6
12
18
24
30
1. (CXX) g++ options: -O2 -logg -lm
LZMA Compression
256MB File Compression
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.37, N = 3
535.44
G840
SE +/- 2.96, N = 3
158.12
J1900
SE +/- 0.17, N = 3
282.83
J1900 3.15 Kernel
SE +/- 1.02, N = 3
311.10
i7-4700MQ
SE +/- 0.04, N = 3
148.55
120
240
360
480
600

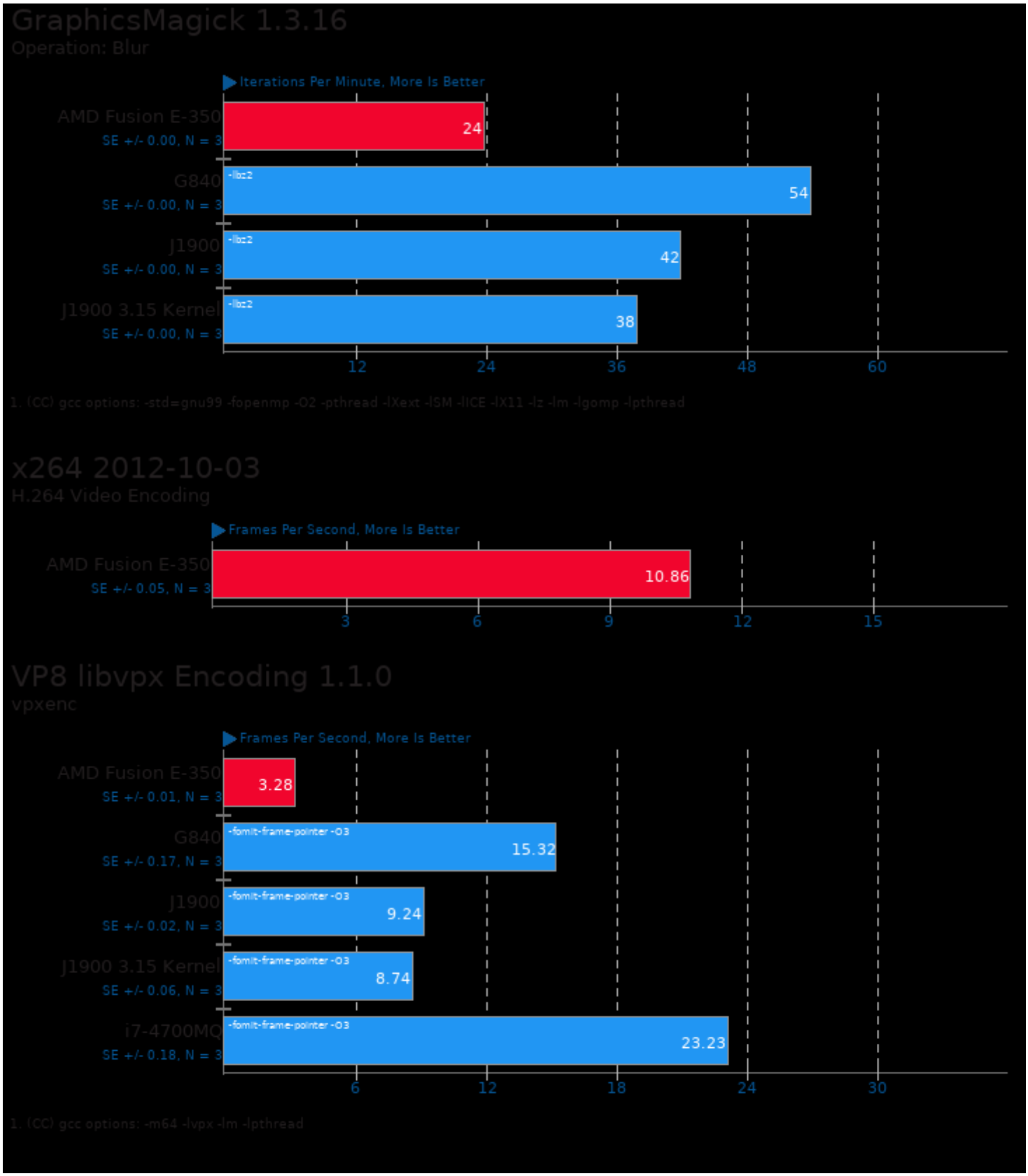

Gzip Compression
2GB File Compression
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.63, N = 5
42.31
G840
SE +/- 0.06, N = 3
18.08
J1900
SE +/- 0.02, N = 3
28.01
J1900 3.15 Kernel
SE +/- 0.96, N = 6
32.73
i7-4700MQ
SE +/- 0.05, N = 3
12.85
10
20
30
40
50
Parallel BZIP2 Compression 1.1.6
256MB File Compression
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.11, N = 3
82.62
G840
SE +/- 0.33, N = 3
30.77
J1900
SE +/- 0.16, N = 3
29.72
J1900 3.15 Kernel
SE +/- 0.05, N = 3
33.99
i7-4700MQ
SE +/- 0.17, N = 3
8.57
20
40
60
80
100
1. (CXX) g++ options: -O2 -pthread -lbz2 -lpthread

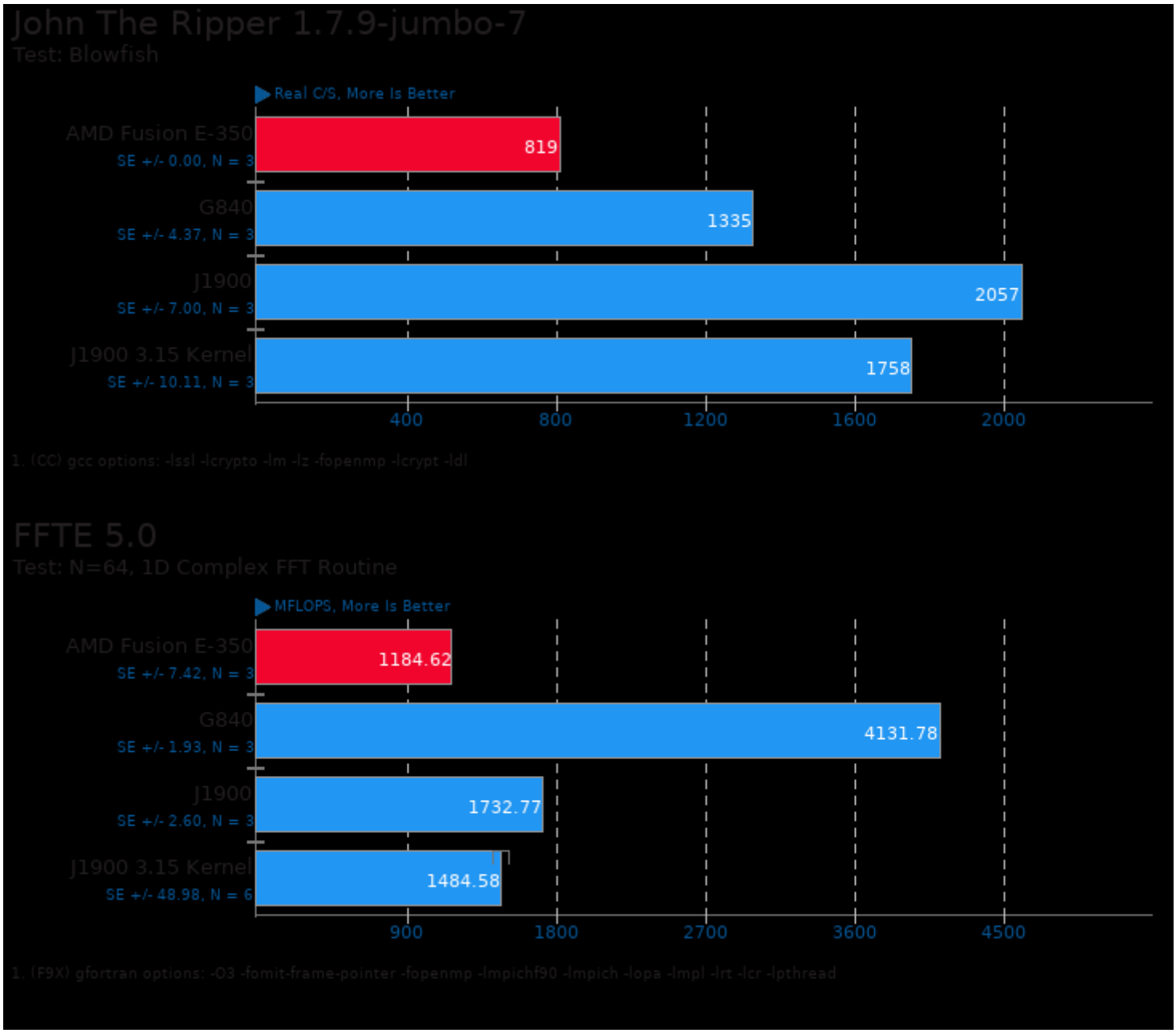

Timed PHP Compilation 5.2.9
Time To Compile
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.09, N = 3
252.39
G840
SE +/- 0.55, N = 6
5.01
J1900
SE +/- 0.15, N = 6
8.18
J1900 3.15 Kernel
SE +/- 0.20, N = 6
8.77
i7-4700MQ
SE +/- 0.60, N = 3
31.28
60
120
180
240
300
1. (CC) gcc options: -O2 -pedantic -ldl -lz -lm
Timed MPlayer Compilation 1.0-rc3
Time To Compile
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 3.80, N = 3
539.40
G840
SE +/- 16.56, N = 6
214.26
J1900
SE +/- 2.06, N = 3
188.90
J1900 3.15 Kernel
SE +/- 2.93, N = 3
207.31
i7-4700MQ
SE +/- 0.67, N = 3
54.87
120
240
360
480
600

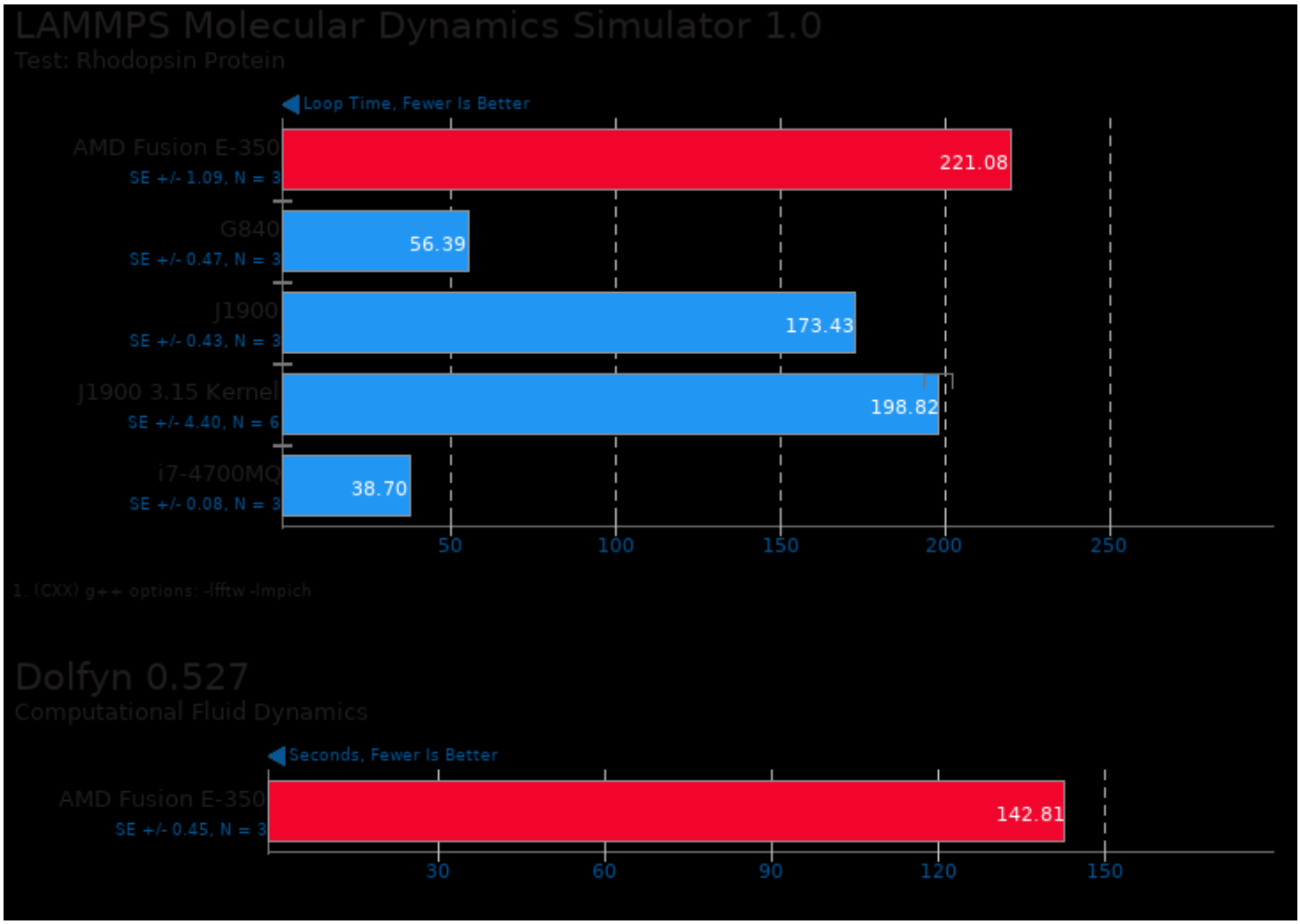

Timed Linux Kernel Compilation 3.1
Time To Compile
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 2.62, N = 3
922.59
G840
SE +/- 0.70, N = 3
286.25
J1900
SE +/- 1.83, N = 3
391.03
J1900 3.15 Kernel
SE +/- 1.72, N = 3
410.01
i7-4700MQ
SE +/- 1.07, N = 3
94.94
200
400
600
800
1000
7-Zip Compression 9.20.1
Compress Speed Test
MIPS, More Is Better
AMD Fusion E-350
SE +/- 3.84, N = 3
1928
G840
SE +/- 6.17, N = 3
5450
J1900
SE +/- 17.61, N = 3
4829
J1900 3.15 Kernel
SE +/- 71.79, N = 3
4698
i7-4700MQ
SE +/- 196.74, N = 3
17102
4K
8K
12K
16K
20K
1. (CXX) g++ options: -pipe -lpthread


GraphicsMagick 1.3.16
Operation: Local Adaptive Thresholding
Iterations Per Minute, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
16
G840
SE +/- 0.00, N = 3
-flto2
55
J1900
SE +/- 0.00, N = 3
-flto2
42
J1900 3.15 Kernel
SE +/- 0.33, N = 3
-flto2
37
12
24
36
48
60
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lz -lm -lgomp -lpthread
GraphicsMagick 1.3.16
Operation: HWB Color Space
Iterations Per Minute, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
44
G840
SE +/- 0.33, N = 3
-flto2
103
J1900
SE +/- 0.00, N = 3
-flto2
75
J1900 3.15 Kernel
SE +/- 0.00, N = 3
-flto2
64
20
40
60
80
100
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lz -lm -lgomp -lpthread

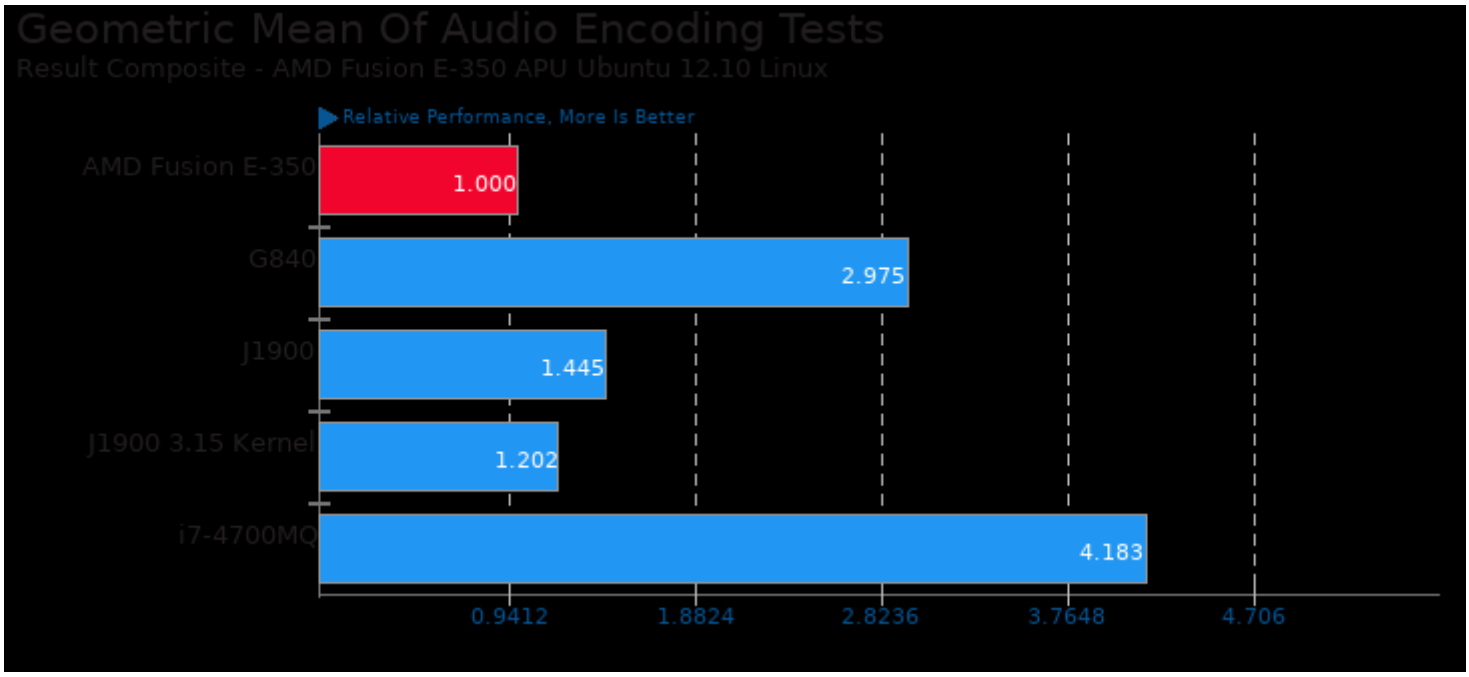

GraphicsMagick 1.3.16
Operation: Resizing
Iterations Per Minute, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
30
G840
SE +/- 0.00, N = 3
-flto2
72
J1900
SE +/- 0.00, N = 3
-flto2
66
J1900 3.15 Kernel
SE +/- 0.00, N = 3
-flto2
57
16
32
48
64
80
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lz -lm -lgomp -lpthread
GraphicsMagick 1.3.16
Operation: Sharpen
Iterations Per Minute, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
16
G840
SE +/- 0.00, N = 3
-flto2
22
J1900
SE +/- 0.33, N = 3
-flto2
32
J1900 3.15 Kernel
SE +/- 0.00, N = 3
-flto2
27
7
14
21
28
35
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lz -lm -lgomp -lpthread


GraphicsMagick 1.3.16
Operation: Blur
Iterations Per Minute, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
24
G840
SE +/- 0.00, N = 3
-lbz2
54
J1900
SE +/- 0.00, N = 3
-lbz2
42
J1900 3.15 Kernel
SE +/- 0.00, N = 3
-lbz2
38
12
24
36
48
60
1. (CC) gcc options: -std=gnu99 -fopenmp -O2 -pthread -lXext -lSM -lICE -lX11 -lz -lm -lgomp -lpthread
x264 2012-10-03
H.264 Video Encoding
Frames Per Second, More Is Better
AMD Fusion E-350
SE +/- 0.05, N = 3
10.86
3
6
9
12
15
VP8 libvpx Encoding 1.1.0
vpxenc
Frames Per Second, More Is Better
AMD Fusion E-350
SE +/- 0.01, N = 3
3.28
G840
SE +/- 0.17, N = 3
-fomit-frame-pointer -O3
15.32
J1900
SE +/- 0.02, N = 3
-fomit-frame-pointer -O3
9.24
J1900 3.15 Kernel
SE +/- 0.06, N = 3
-fomit-frame-pointer -O3
8.74
i7-4700MQ
SE +/- 0.18, N = 3
-fomit-frame-pointer -O3
23.23
6
12
18
24
30
1. (CC) gcc options: -m64 -lvpx -lm -lpthread

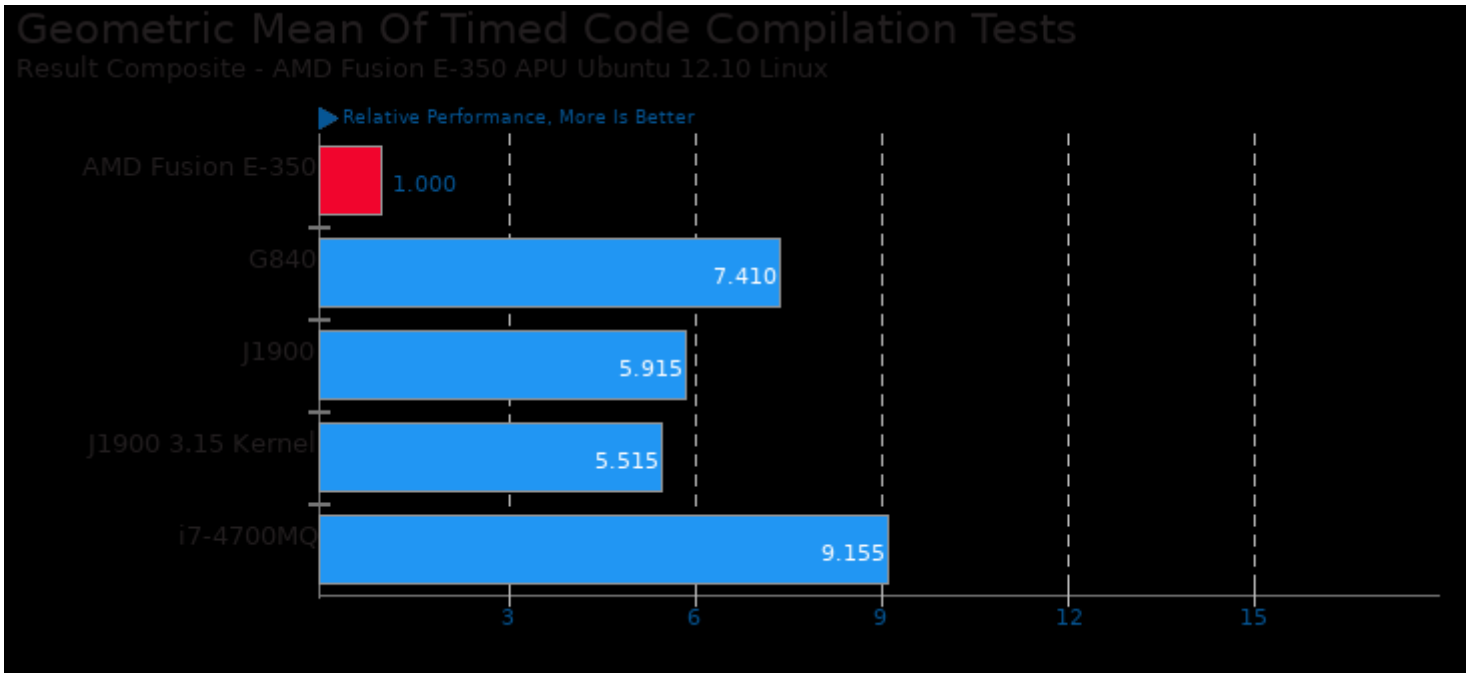

John The Ripper 1.7.9-jumbo-7
Test: Blowfish
Real C/S, More Is Better
AMD Fusion E-350
SE +/- 0.00, N = 3
819
G840
SE +/- 4.37, N = 3
1335
J1900
SE +/- 7.00, N = 3
2057
J1900 3.15 Kernel
SE +/- 10.11, N = 3
1758
400
800
1200
1600
2000
1. (CC) gcc options: -lssl -lcrypto -lm -lz -fopenmp -lcrypt -ldl
FFTE 5.0
Test: N=64, 1D Complex FFT Routine
MFLOPS, More Is Better
AMD Fusion E-350
SE +/- 7.42, N = 3
1184.62
G840
SE +/- 1.93, N = 3
4131.78
J1900
SE +/- 2.60, N = 3
1732.77
J1900 3.15 Kernel
SE +/- 48.98, N = 6
1484.58
900
1800
2700
3600
4500
1. (F9X) gfortran options: -O3 -fomit-frame-pointer -fopenmp -lmpichf90 -lmpich -lopa -lmpl -lrt -lcr -lpthread


LAMMPS Molecular Dynamics Simulator 1.0
Test: Rhodopsin Protein
Loop Time, Fewer Is Better
AMD Fusion E-350
SE +/- 1.09, N = 3
221.08
G840
SE +/- 0.47, N = 3
56.39
J1900
SE +/- 0.43, N = 3
173.43
J1900 3.15 Kernel
SE +/- 4.40, N = 6
198.82
i7-4700MQ
SE +/- 0.08, N = 3
38.70
50
100
150
200
250
1. (CXX) g++ options: -lfftw -lmpich
Dolfyn 0.527
Computational Fluid Dynamics
Seconds, Fewer Is Better
AMD Fusion E-350
SE +/- 0.45, N = 3
142.81
30
60
90
120
150

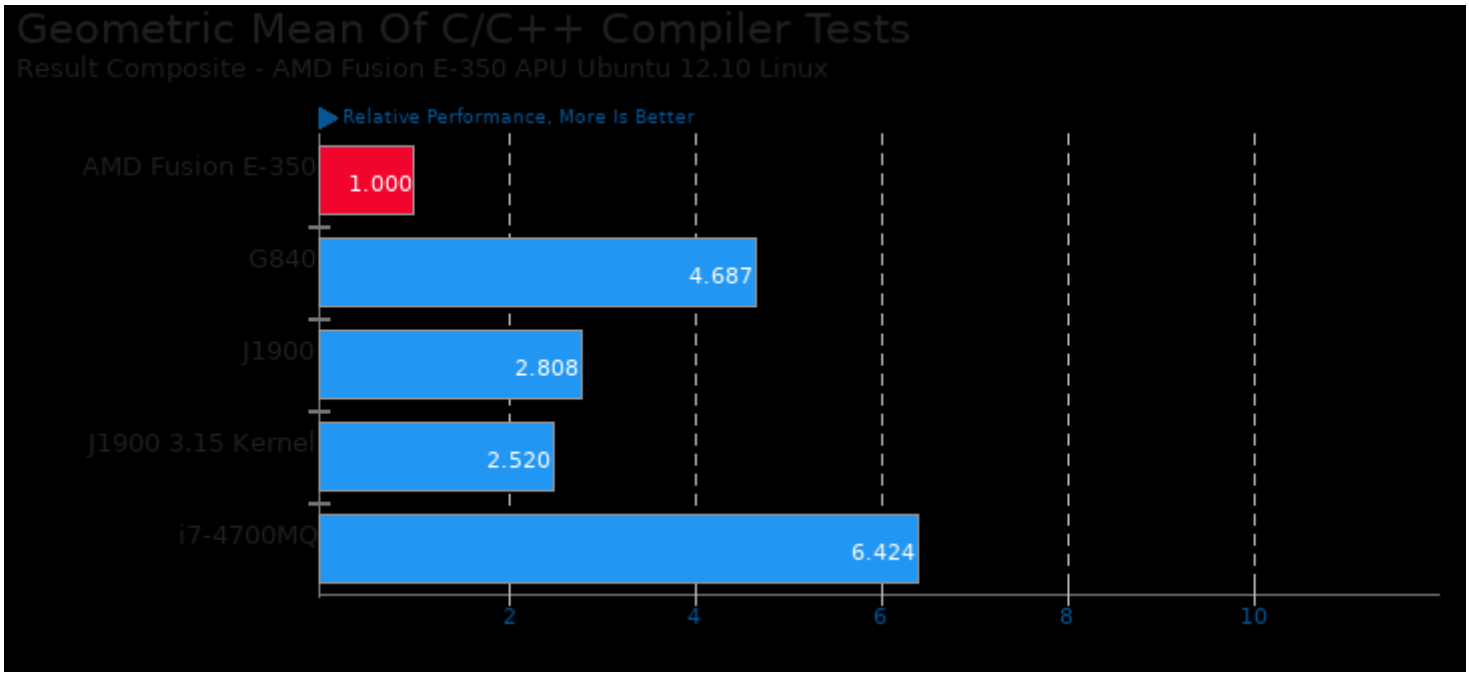
These geometric means are based upon test groupings / test suites for this result file.



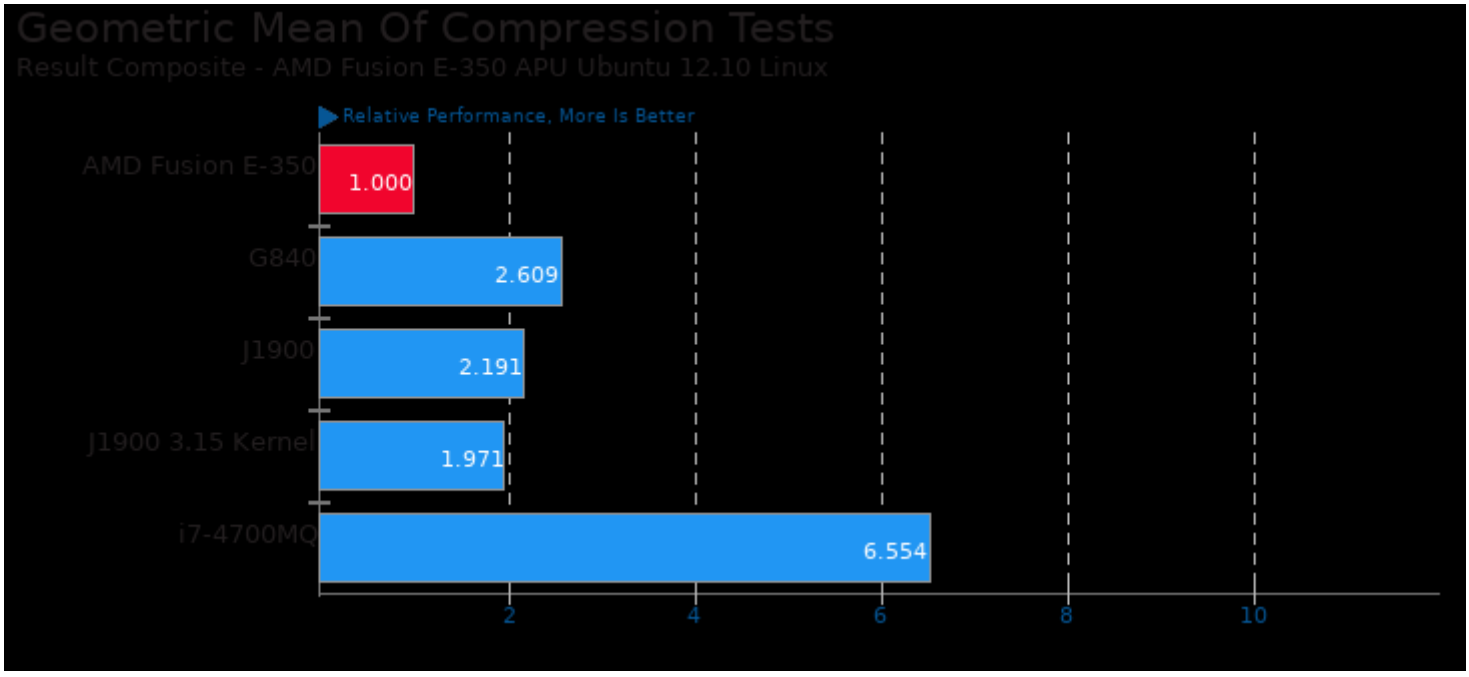
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-opus



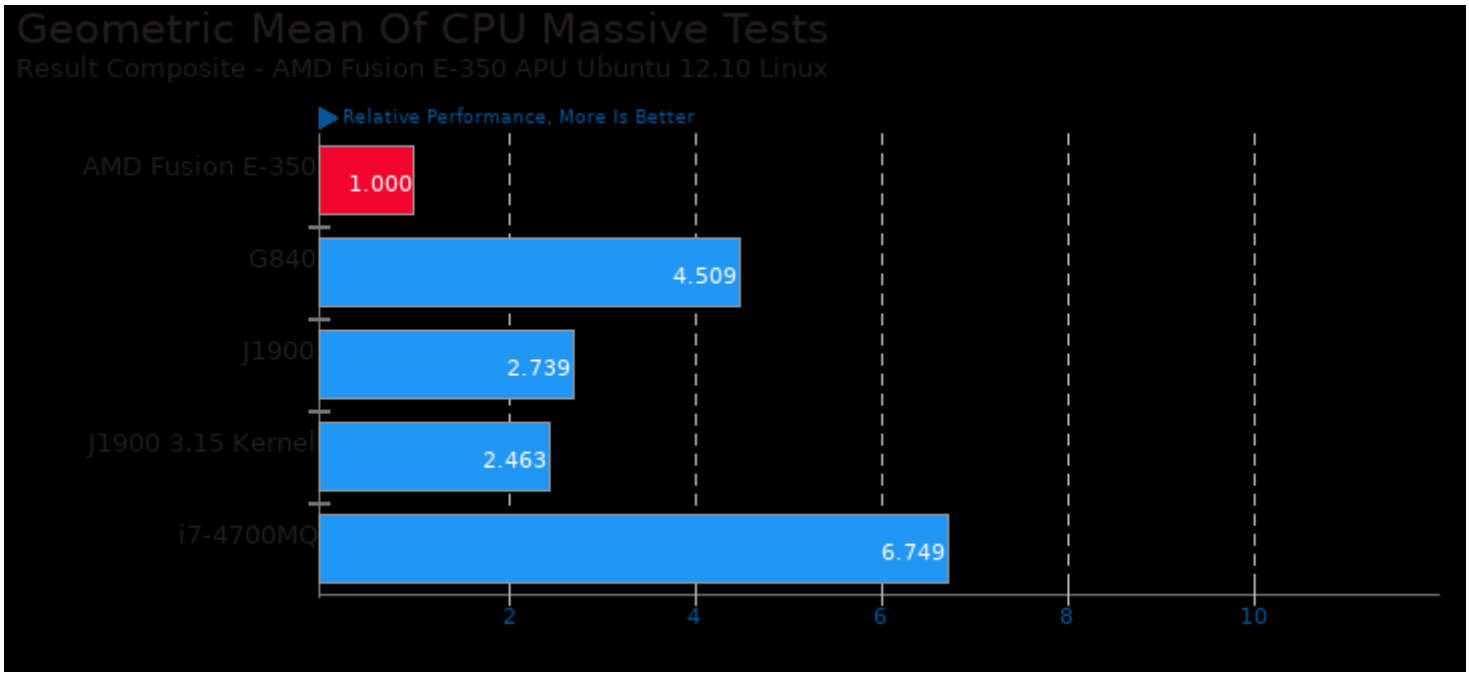
Geometric mean based upon tests: pts/build-php, pts/build-linux-kernel and pts/build-mplayer



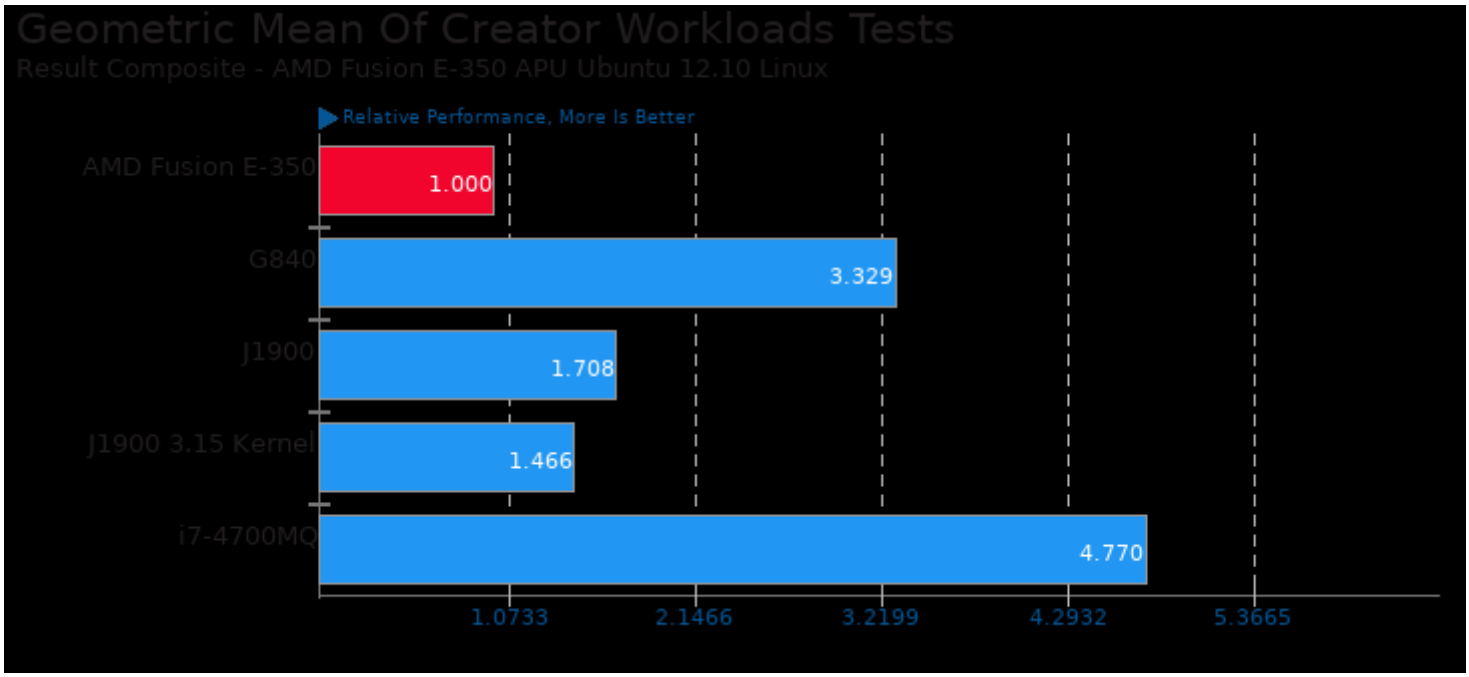
Geometric mean based upon tests: pts/vpxenc, pts/graphics-magick, pts/build-php, pts/compress-7zip, pts/encode-mp3, pts/encode-flac, pts/apache, pts/john-the-ripper, pts/x264, pts/openssl, pts/lammps and pts/build-mplayer



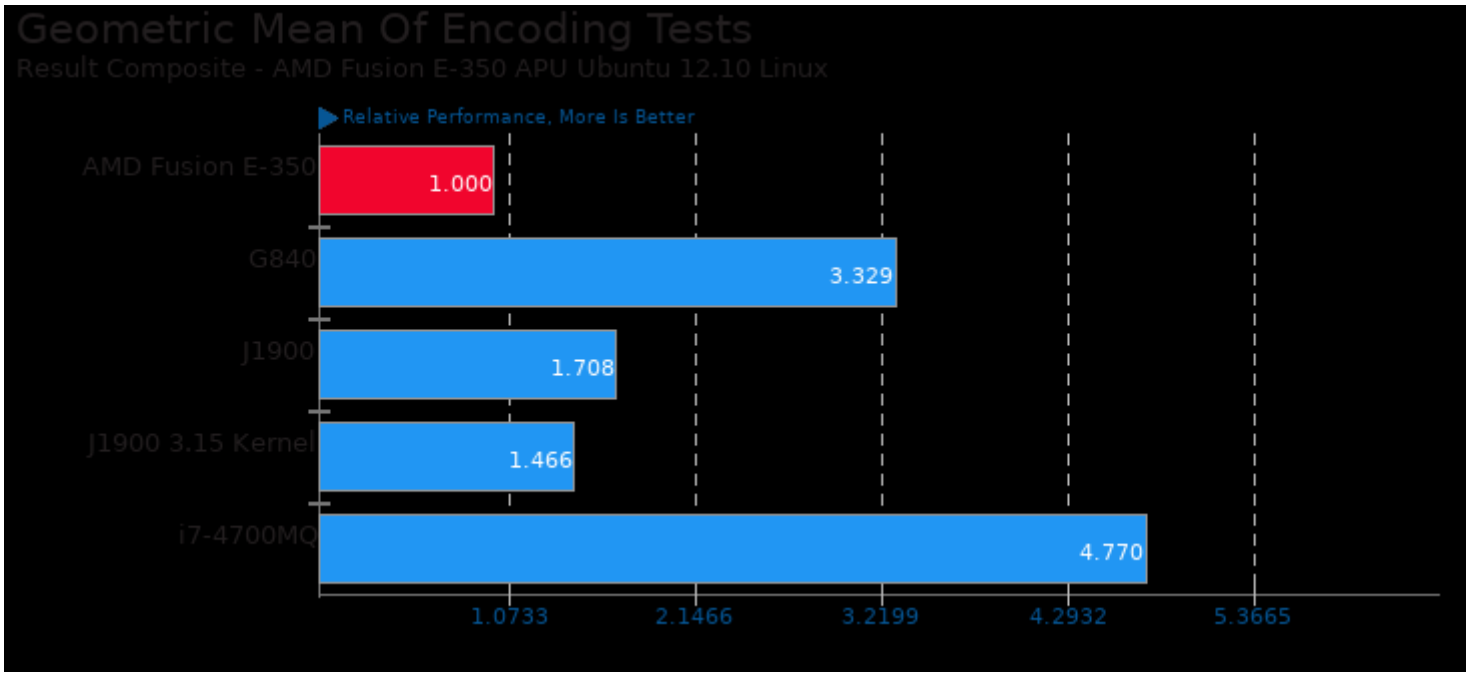
Geometric mean based upon tests: pts/compress-7zip, pts/compress-gzip and pts/compress-pbzip2



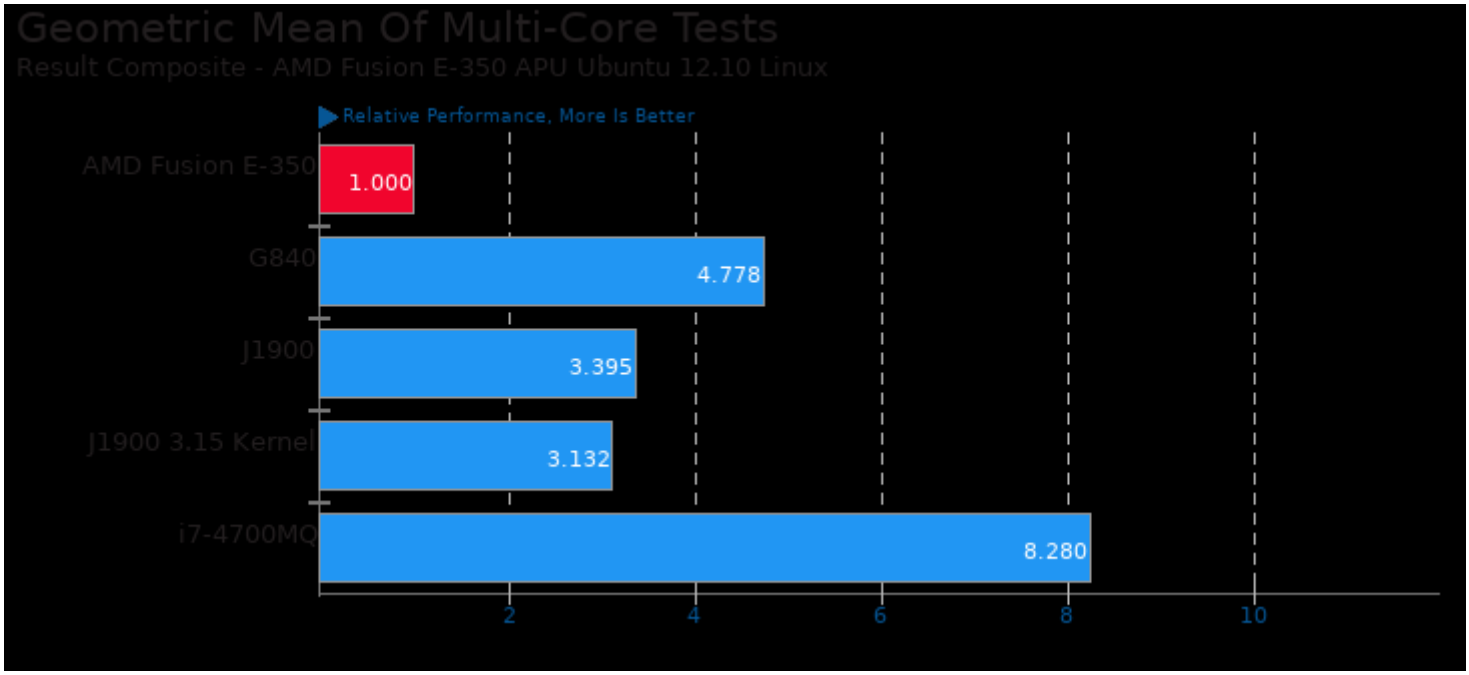
Geometric mean based upon tests: pts/apache, pts/build-linux-kernel, pts/build-php, pts/compress-7zip, pts/compress-pbzip2, pts/vpxenc, pts/x264, pts/dolfyn, pts/encode-flac, pts/encode-mp3, pts/graphics-magick, pts/john-the-ripper, pts/openssl and pts/lammps



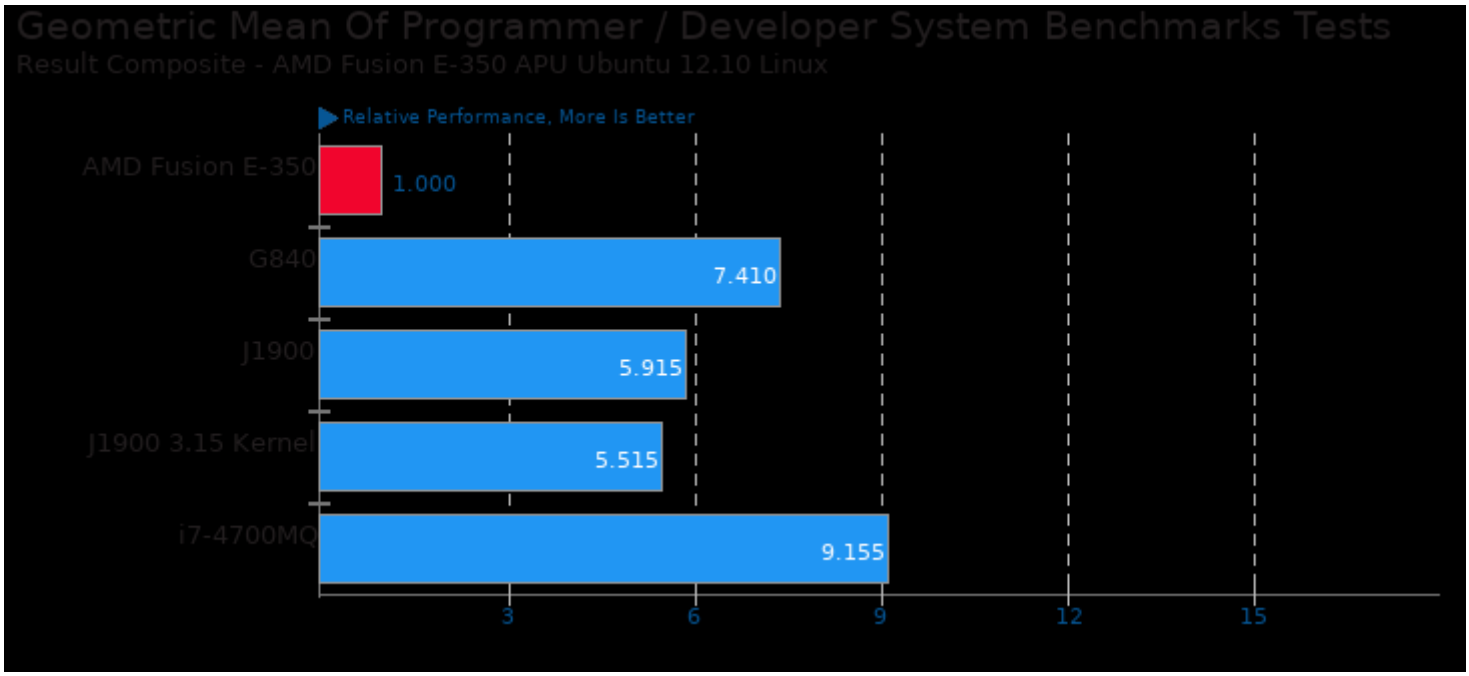
Geometric mean based upon tests: pts/x264, pts/ffmpeg, pts/vpxenc, pts/encode-mp3, pts/encode-flac, pts/encode-opus and pts/graphics-magick



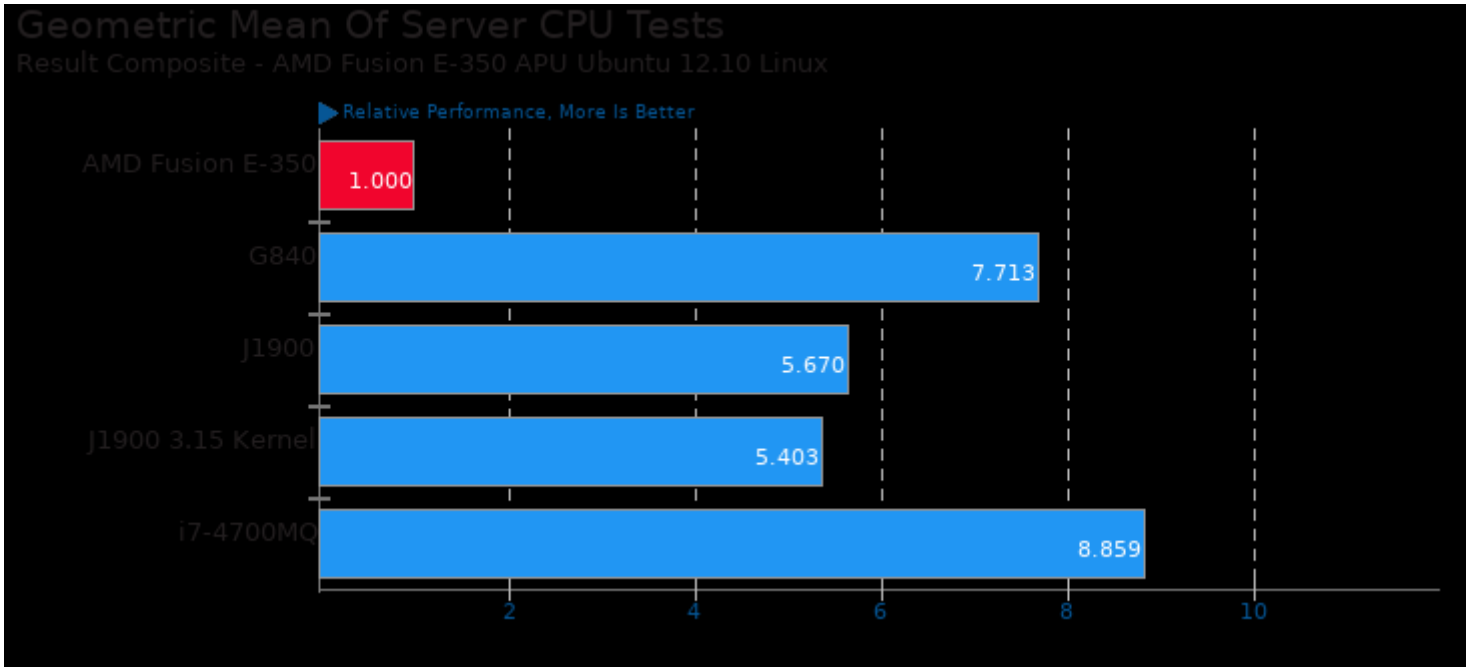
Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac, pts/encode-opus, pts/x264, pts/ffmpeg and pts/vpxenc



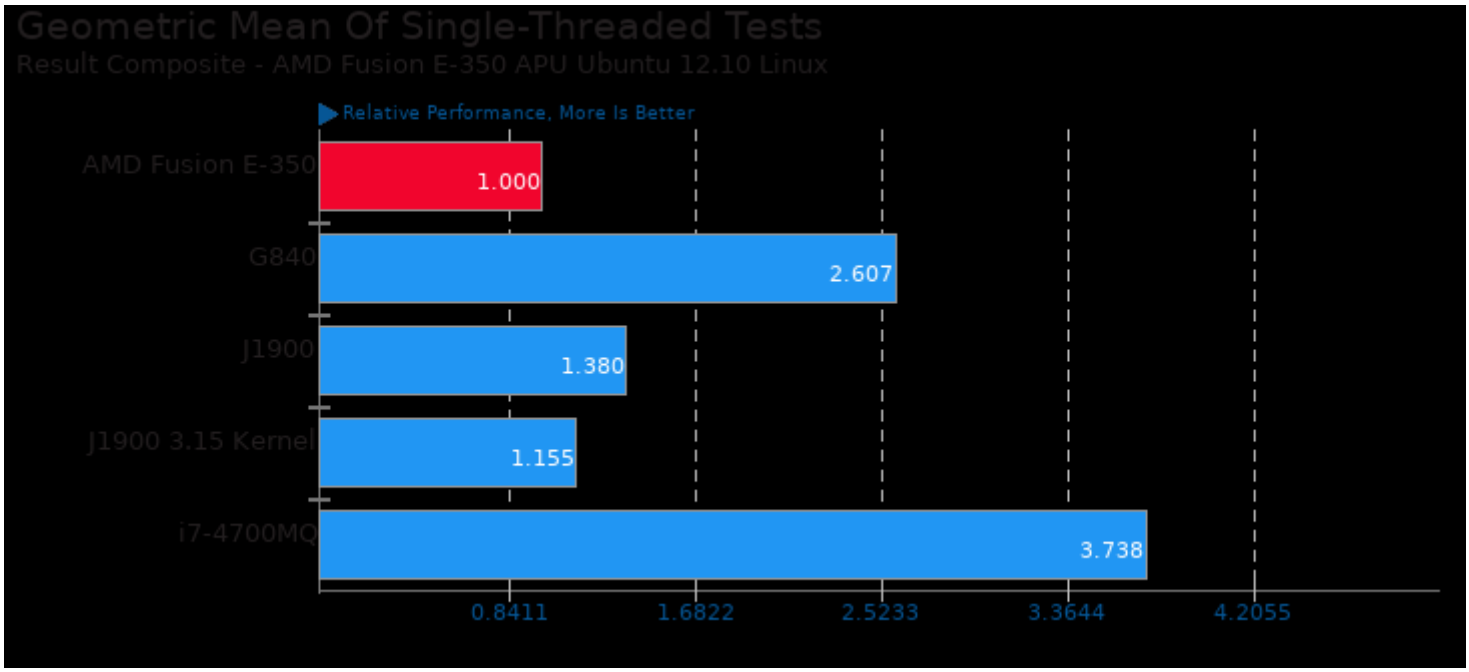
Geometric mean based upon tests: pts/x264, pts/ffmpeg, pts/vpxenc, pts/john-the-ripper, pts/graphics-magick, pts/lammps, pts/compress-7zip, pts/compress-pbzip2, pts/build-php, pts/build-linux-kernel and pts/build-mplayer



Geometric mean based upon tests: pts/build-php, pts/build-linux-kernel and pts/build-mplayer



Geometric mean based upon tests: pts/john-the-ripper, pts/x264, pts/compress-7zip, pts/build-linux-kernel, pts/build-php and pts/openssl



Geometric mean based upon tests: pts/compress-gzip, pts/encode-flac and pts/encode-mp3

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 07:01.