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ptld-i7-3770K

Intel Core i7-3770 testing with a Dell 0M9KCM (A30 BIOS) and Intel HD 4000 IVB GT2 2GB on Ubuntu 22.04 via the Phoronix Test Suite.

Test Systems:

system

system2

Processor: Intel Core i7-3770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: Dell 0M9KCM (A30 BIOS), Chipset: Intel Xeon E3-1200 v2/3rd, Memory: 32GB, Disk: 1000GB Samsung SSD 850 + 250GB 2500BEV External + 4 x 0GB FCR-HS219/1, Graphics: Intel HD 4000 IVB GT2 2GB (1150MHz), Audio: Realtek ALC269VB, Monitor: PL2792Q, Network: Intel 82579LM

OS: Ubuntu 22.04, Kernel: 5.15.0-47-generic (x86_64), Desktop: GNOME Shell 42.4, Display Server: X Server 1.20.9, OpenGL: 4.2 Mesa 22.0.5, Compiler: GCC 11.2.0, File-System: ext4, Screen Resolution: 2560x1440

Kernel Notes: Transparent Huge Pages: madvise
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --enable-cet --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-serialization=2 --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-nvptx/usr,amdgcn-amdhsa=/build/gcc-11-gBFGDP/gcc-11-11.2.0/debian/tmp-gcn/usr --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: intel_cpufreq ondemand - CPU Microcode: 0x21 - Thermald 2.4.9
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + mmio_stale_data: Not affected + retbleed: Not affected + spec_store_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Retpolines IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Vulnerable: No microcode + tsx_async_abort: Not affected

	system	system2
FS-Mark - 1.F.1.S (Files/s)	120.2	
Standard Deviation	17.5%	
FS-Mark - 5.F.1.S.4.T (Files/s)	129.3	
Standard Deviation	1.4%	
FS-Mark - 4.F.3.S.D.1.S (Files/s)	95.0	
Standard Deviation	5.6%	
FS-Mark - 1.F.1.S.N.S.F (Files/s)	1680	
Standard Deviation	0.7%	
OpenArena - 2560 x 1440 (FPS)	16.7	
Standard Deviation	0.6%	
Unigine Heaven - 2560 x 1440 - Fullscreen - OpenGL (FPS)	3.15348	
Standard Deviation	0.2%	
Unigine Valley - 2560 x 1440 - Fullscreen - OpenGL (FPS)	3.58884	
Standard Deviation	0.2%	
GLmark2 - 2560 x 1440 (Score)	227	
RAMspeed SMP - Add - Integer (MB/s)	15313	
Standard Deviation	0.2%	
RAMspeed SMP - Copy - Integer (MB/s)	13647	
Standard Deviation	0.1%	
RAMspeed SMP - Scale - Integer (MB/s)	13578	
Standard Deviation	0.1%	
RAMspeed SMP - Triad - Integer (MB/s)	15123	
Standard Deviation	0.1%	
RAMspeed SMP - Average - Integer (MB/s)	14408	
Standard Deviation	0%	
RAMspeed SMP - Add - Floating Point (MB/s)	15214	
Standard Deviation	0.2%	
RAMspeed SMP - Copy - Floating Point (MB/s)	13647	
Standard Deviation	0.1%	
RAMspeed SMP - Scale - Floating Point (MB/s)	13587	
Standard Deviation	0.2%	
RAMspeed SMP - Triad - Floating Point (MB/s)	15130	
Standard Deviation	0.1%	
RAMspeed SMP - Average - Floating Point (MB/s)	14393	
Standard Deviation	0.1%	
x264 - Bosphorus 1080p (FPS)	34.23	

Standard Deviation	2.4%
x265 - Bosphorus 1080p (FPS)	20.68
Standard Deviation	0.7%
7-Zip Compression - Compression Rating (MIPS)	27185
Standard Deviation	0.2%
7-Zip Compression - D.R (MIPS)	22009
Standard Deviation	0.7%
Timed Apache Compilation - Time To Compile (sec)	40.729
Standard Deviation	0.3%
Timed MPlayer Compilation - Time To Compile (sec)	116.677
Standard Deviation	0.1%
Gzip Compression - L.S.T.A.T.t.g (sec)	41.532
Standard Deviation	1%
FLAC Audio Encoding - WAV To FLAC (sec)	32.252
Standard Deviation	0.1%
LAME MP3 Encoding - WAV To MP3 (sec)	10.501
Standard Deviation	0.3%
Ogg Audio Encoding - WAV To Ogg (sec)	26.144
Standard Deviation	1.2%
FFmpeg - H.2.H.T.N.D (sec)	7.373
Standard Deviation	2.3%

FS-Mark 3.3

Test: 1000 Files, 1MB Size



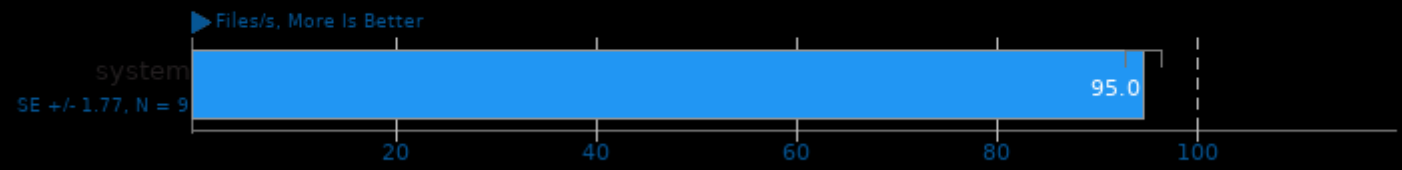
FS-Mark 3.3

Test: 5000 Files, 1MB Size, 4 Threads



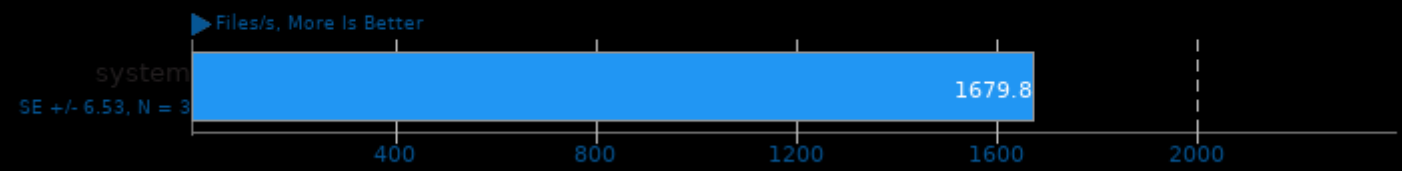
FS-Mark 3.3

Test: 4000 Files, 32 Sub Dirs, 1MB Size



FS-Mark 3.3

Test: 1000 Files, 1MB Size, No Sync/FSync



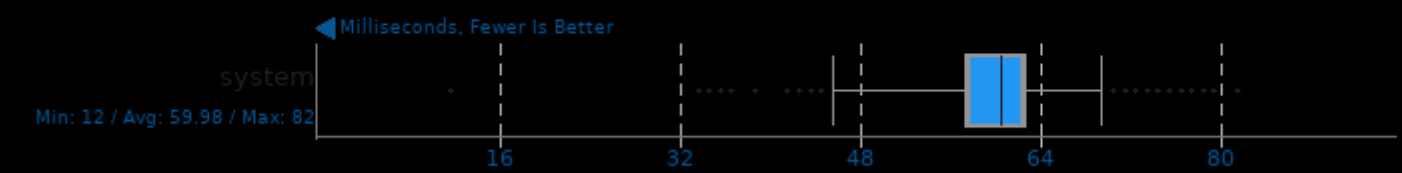
OpenArena 0.8.8

Resolution: 2560 x 1440



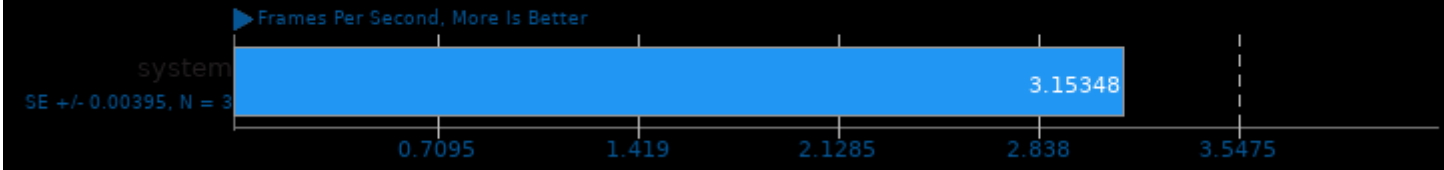
OpenArena 0.8.8

Resolution: 2560 x 1440 - Total Frame Time



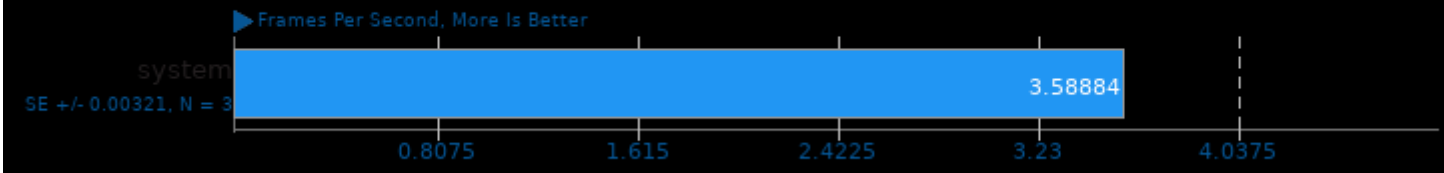
Unigine Heaven 4.0

Resolution: 2560 x 1440 - Mode: Fullscreen - Renderer: OpenGL



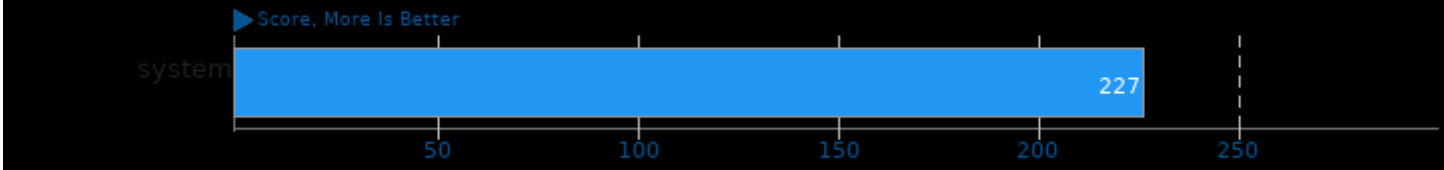
Unigine Valley 1.0

Resolution: 2560 x 1440 - Mode: Fullscreen - Renderer: OpenGL



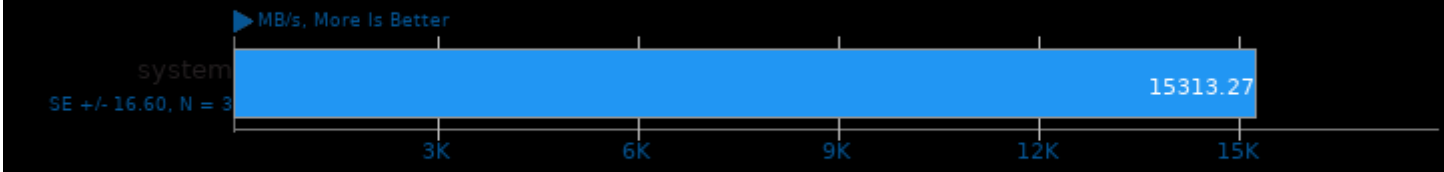
GLmark2

Resolution: 2560 x 1440



RAMspeed SMP 3.5.0

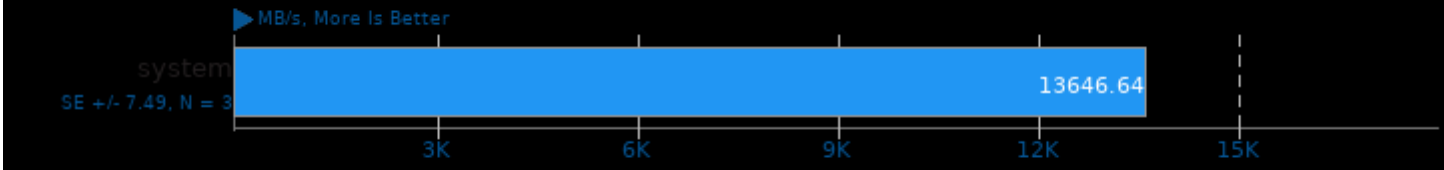
Type: Add - Benchmark: Integer



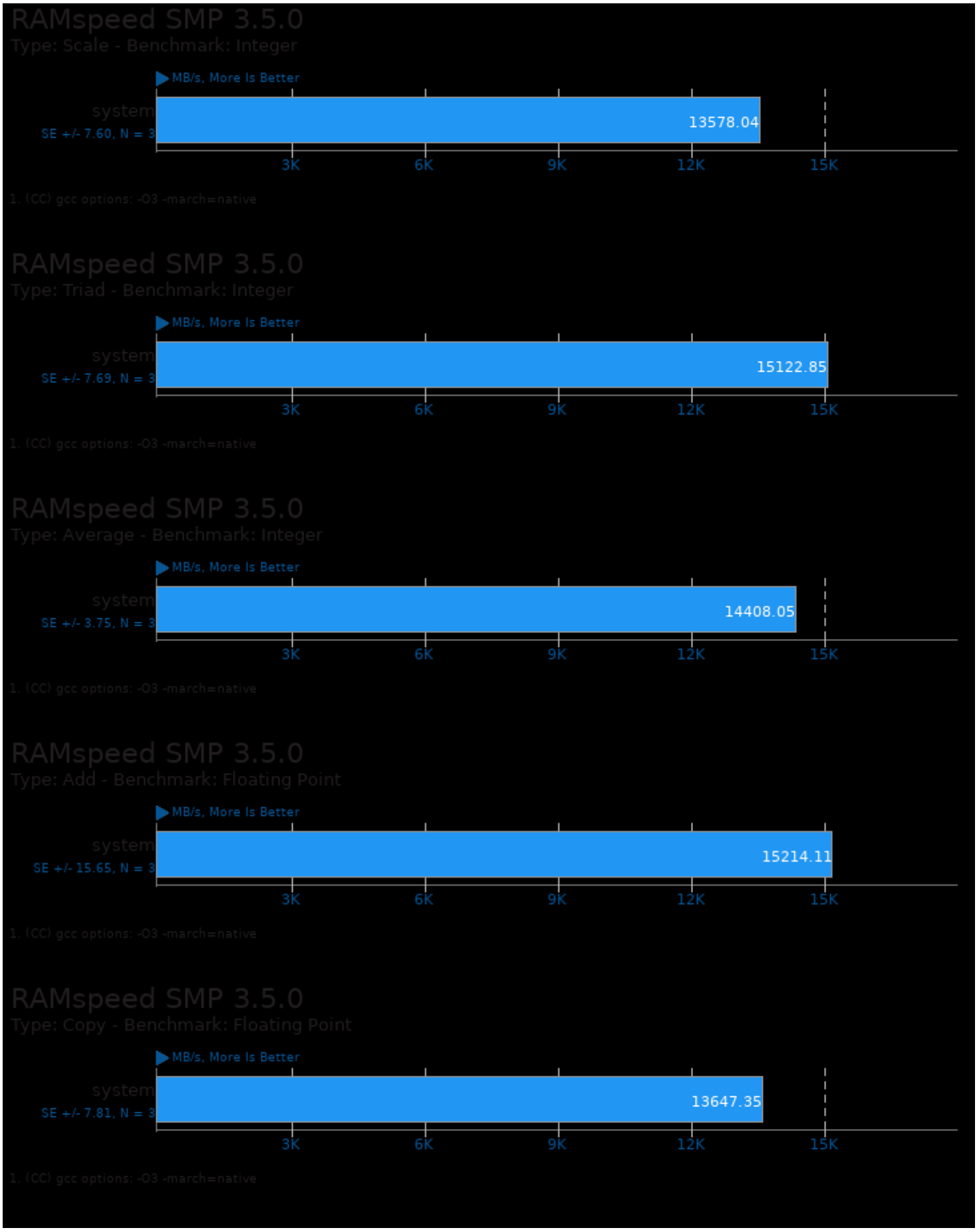
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

Type: Copy - Benchmark: Integer

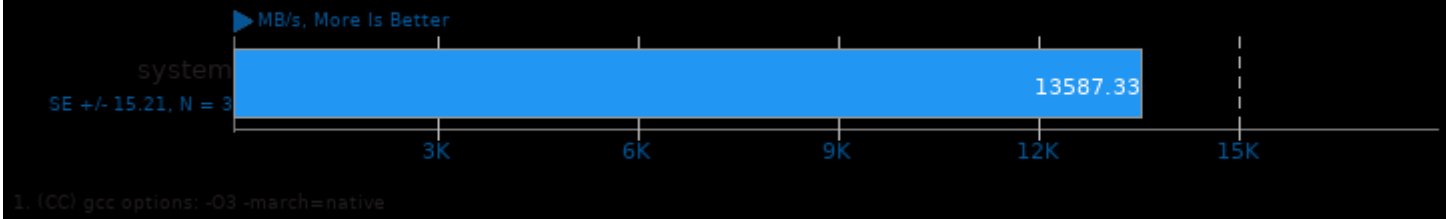


1. (CC) gcc options: -O3 -march=native


RAMspeed SMP 3.5.0
Type: Scale - Benchmark: Integer
MB/s, More Is Better
system
SE +/- 7.60, N = 3
13578.04
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Triad - Benchmark: Integer
MB/s, More Is Better
system
SE +/- 7.69, N = 3
15122.85
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Average - Benchmark: Integer
MB/s, More Is Better
system
SE +/- 3.75, N = 3
14408.05
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Add - Benchmark: Floating Point
MB/s, More Is Better
system
SE +/- 15.65, N = 3
15214.11
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native
RAMspeed SMP 3.5.0
Type: Copy - Benchmark: Floating Point
MB/s, More Is Better
system
SE +/- 7.81, N = 3
13647.35
3K
6K
9K
12K
15K
1. (CC) gcc options: -O3 -march=native

RAMspeed SMP 3.5.0

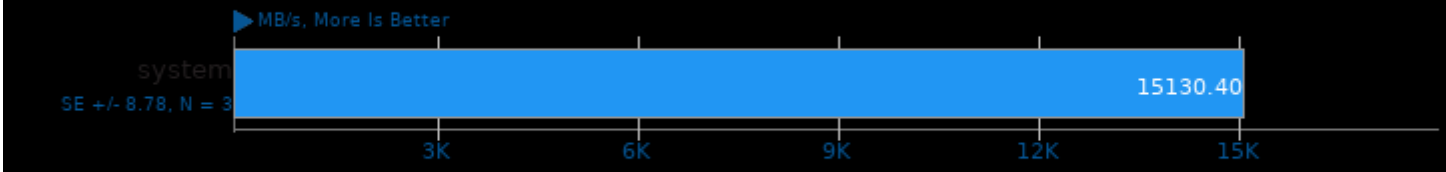
Type: Scale - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

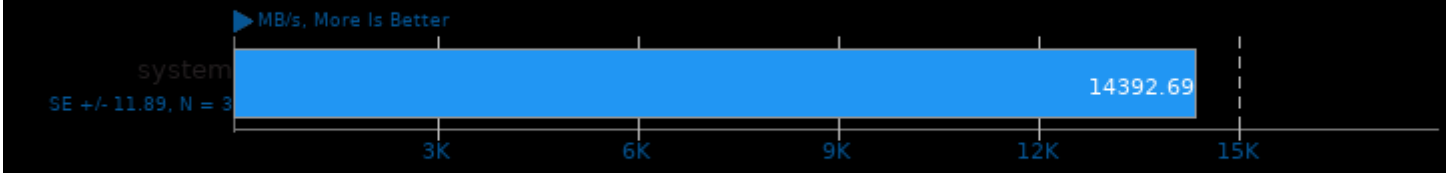
Type: Triad - Benchmark: Floating Point



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

RAMspeed SMP 3.5.0

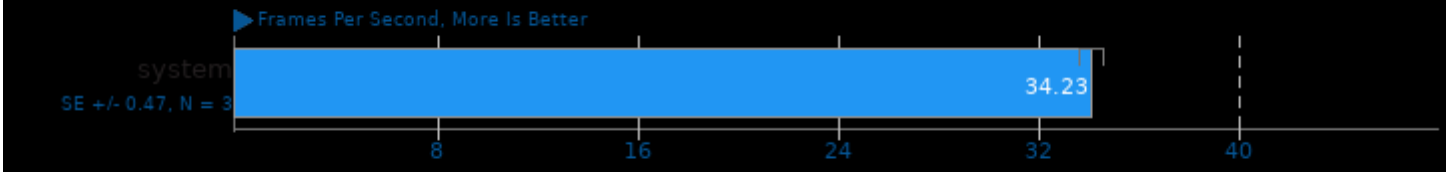
Type: Average - Benchmark: Floating Point



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

x264 2022-02-22

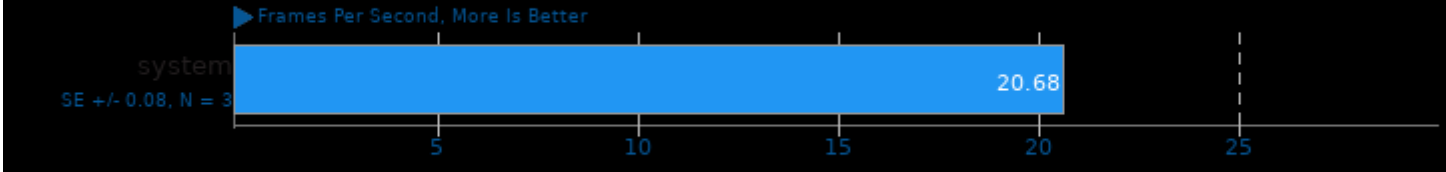
Video Input: Bosphorus 1080p



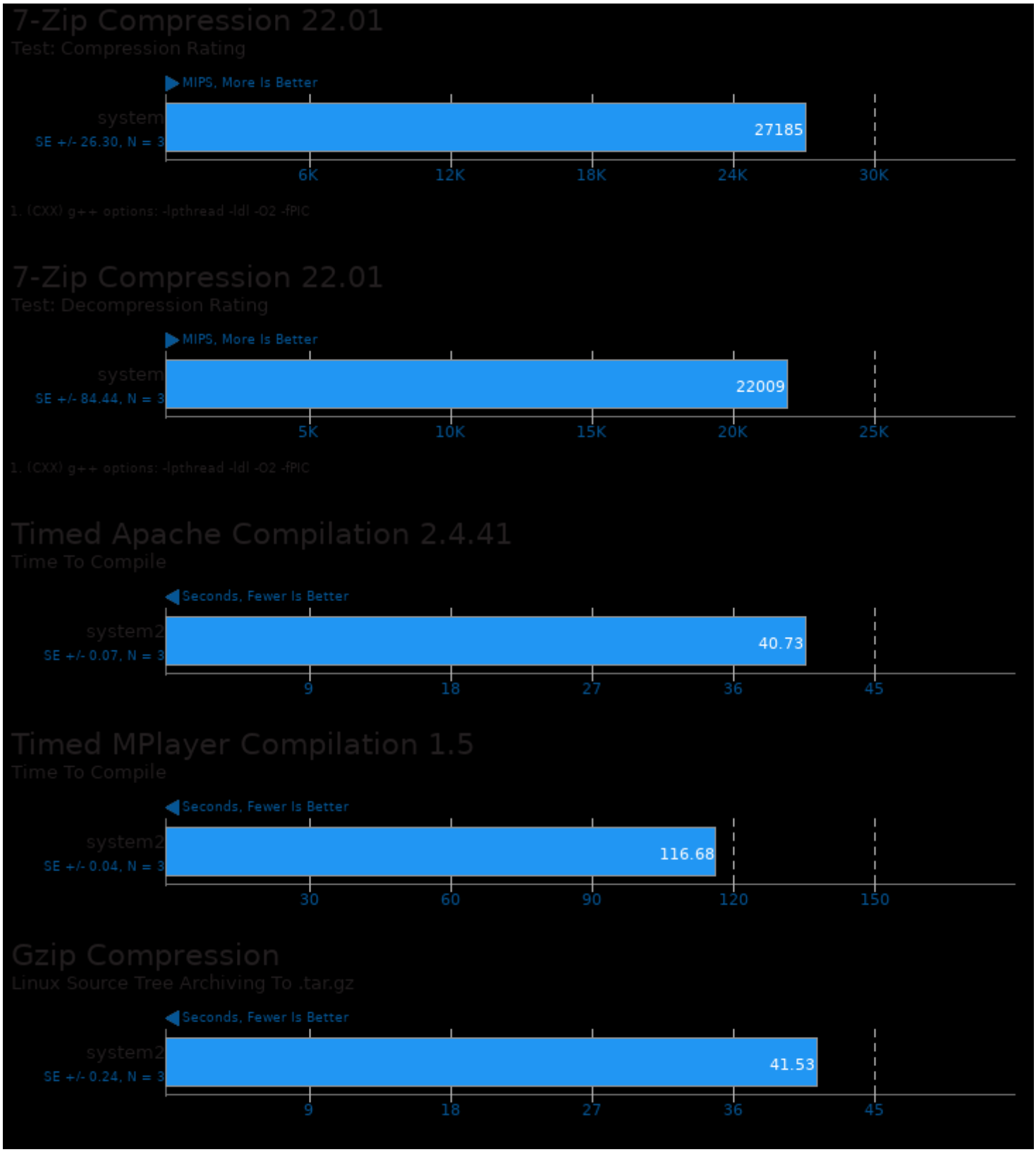
1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -flto

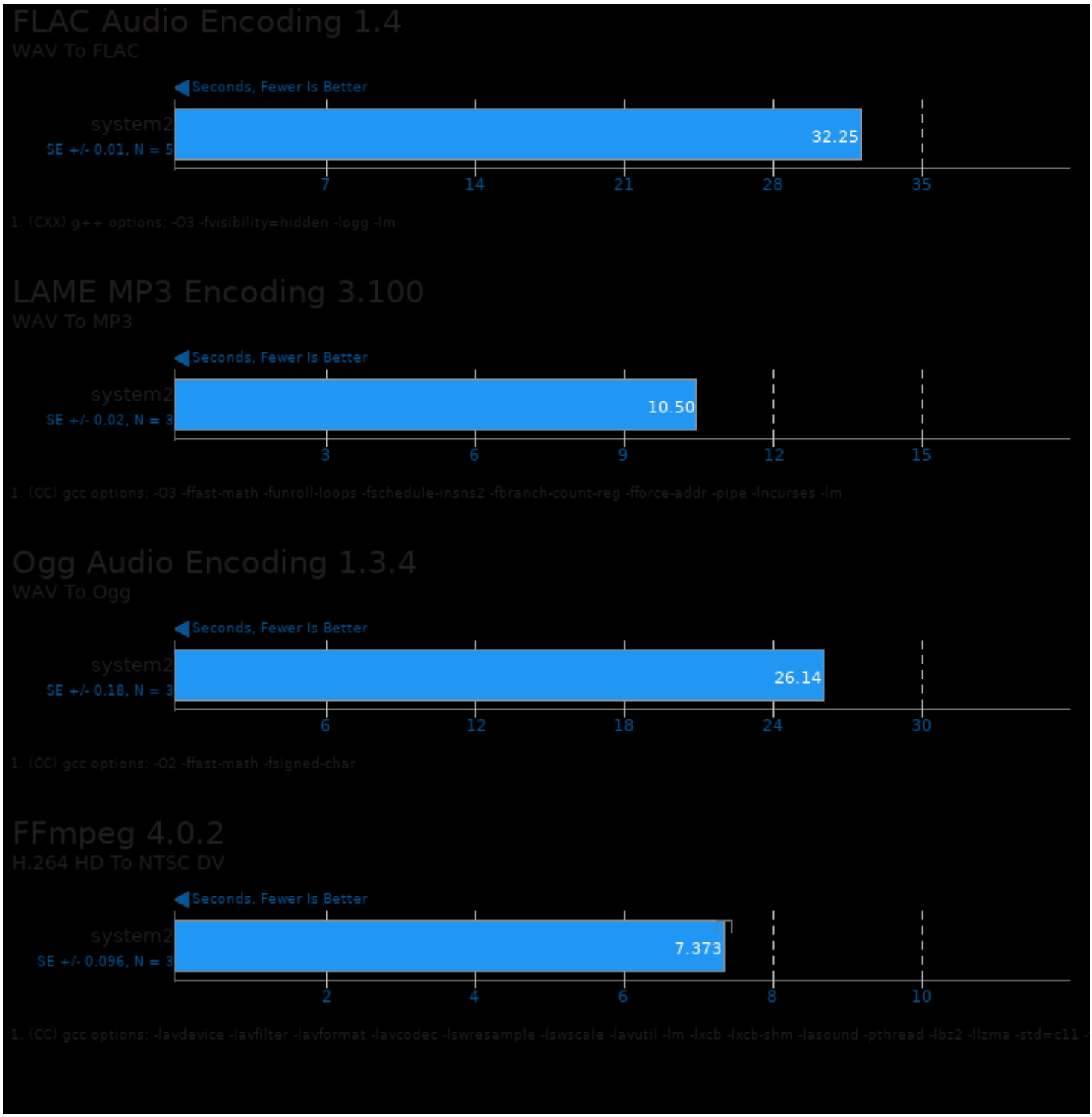
x265 3.4

Video Input: Bosphorus 1080p



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


7-Zip Compression 22.01
Test: Compression Rating
MIPS, More Is Better
system
SE +/- 26.30, N = 3
27185
6K
12K
18K
24K
30K
1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC
7-Zip Compression 22.01
Test: Decompression Rating
MIPS, More Is Better
system
SE +/- 84.44, N = 3
22009
5K
10K
15K
20K
25K
1. (CXX) g++ options: -lpthread -ldl -O2 -fPIC
Timed Apache Compilation 2.4.41
Time To Compile
Seconds, Fewer Is Better
system2
SE +/- 0.07, N = 3
40.73
9
18
27
36
45
Timed MPlayer Compilation 1.5
Time To Compile
Seconds, Fewer Is Better
system2
SE +/- 0.04, N = 3
116.68
30
60
90
120
150
Gzip Compression
Linux Source Tree Archiving To .tar.gz
Seconds, Fewer Is Better
system2
SE +/- 0.24, N = 3
41.53
9
18
27
36
45



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