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Intel Xeon E3-1275 v6 testing with a ASUS P10S-M WS (4401 BIOS) and Intel HD P630 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

1

2

3

4

Processor: Intel Xeon E3-1275 v6 @ 4.20GHz (4 Cores / 8 Threads), Motherboard: ASUS P10S-M WS (4401 BIOS), Chipset: Intel Xeon E3-1200 v6/7th, Memory: 16GB, Disk: Samsung SSD 970 EVO Plus 500GB, Graphics: Intel HD P630 3GB (1150MHz), Audio: Realtek ALC1150, Monitor: VA2431, Network: 2 x Intel I210

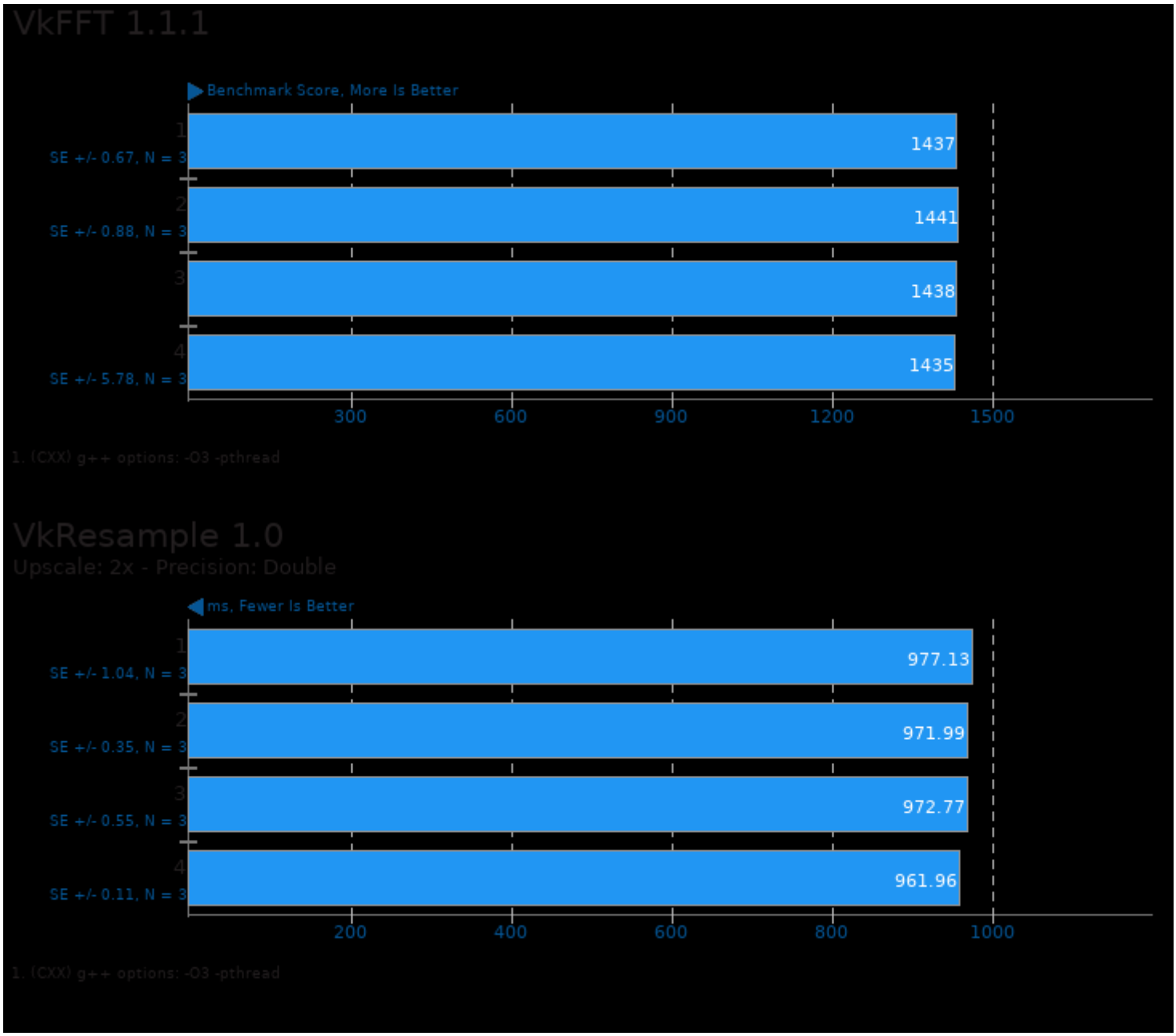
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OS: Ubuntu 20.04, Kernel: 5.9.0-050900rc8daily20201007-generic (x86_64) 20201006, Desktop: GNOME Shell 3.36.4, Display Server: X Server 1.20.8, Display Driver: modesetting 1.20.8, OpenGL: 4.6 Mesa 20.0.4, OpenCL: OpenCL 2.1, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

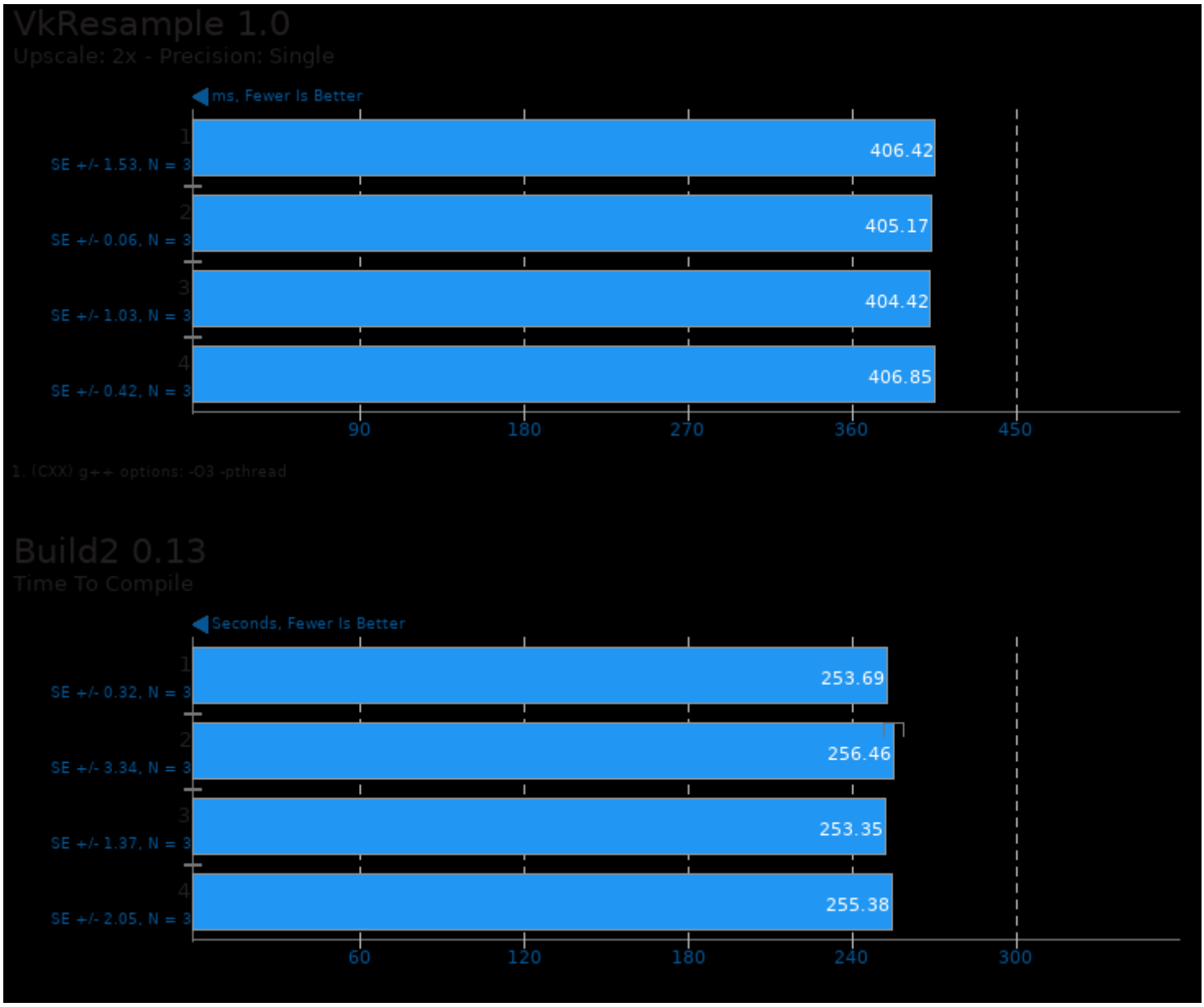
Compiler Notes: --build=x86_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86_64-linux-gnu --program-prefix=x86_64-linux-gnu- --target=x86_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v
Processor Notes: Scaling Governor: intel_pstate powersave - CPU Microcode: 0xde - Thermald 1.9.1
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 + 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 Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	1	2	3	4
VkFFT (Benchmark Score)	1437	**1441**	1438	**1435**
Normalized	99.72%	100%	99.79%	99.58%
Standard Deviation	0.1%	0.1%		0.7%
VkResample - 2x - Double (ms)	**977.134**	971.985	972.766	**961.958**
Normalized	98.45%	98.97%	98.89%	100%
Standard Deviation	0.2%	0.1%	0.1%	0%
VkResample - 2x - Single (ms)	406.423	405.168	**404.418**	**406.851**
Normalized	99.51%	99.81%	100%	99.4%
Standard Deviation	0.7%	0%	0.4%	0.2%
Build2 - Time To Compile (sec)	253.689	**256.464**	**253.345**	255.380
Normalized	99.86%	98.78%	100%	99.2%
Standard Deviation	0.2%	2.3%	0.9%	1.4%

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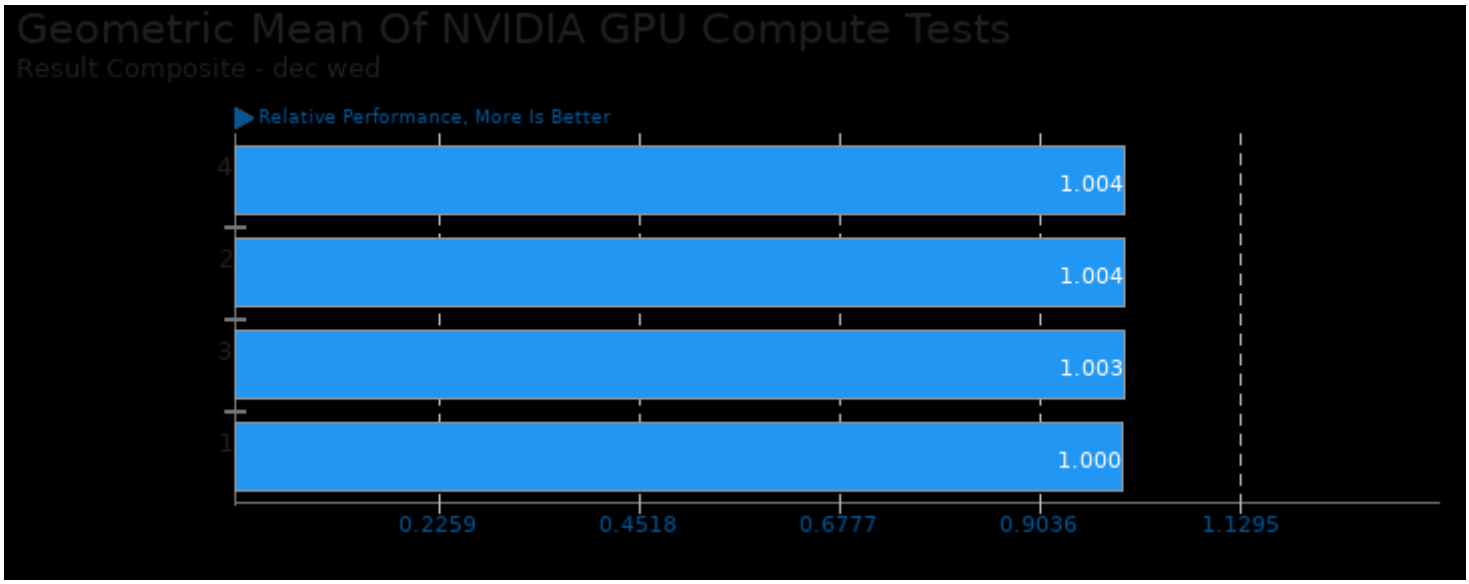

VkFFT 1.1.1
Benchmark Score, More Is Better
1
SE +/- 0.67, N = 3
1437
2
SE +/- 0.88, N = 3
1441
3
1438
4
SE +/- 5.78, N = 3
1435
300
600
900
1200
1500
1. (CXX) g++ options: -O3 -pthread
VkResample 1.0
Upscale: 2x - Precision: Double
ms, Fewer Is Better
1
SE +/- 1.04, N = 3
977.13
2
SE +/- 0.35, N = 3
971.99
3
SE +/- 0.55, N = 3
972.77
4
SE +/- 0.11, N = 3
961.96
200
400
600
800
1000
1. (CXX) g++ options: -O3 -pthread

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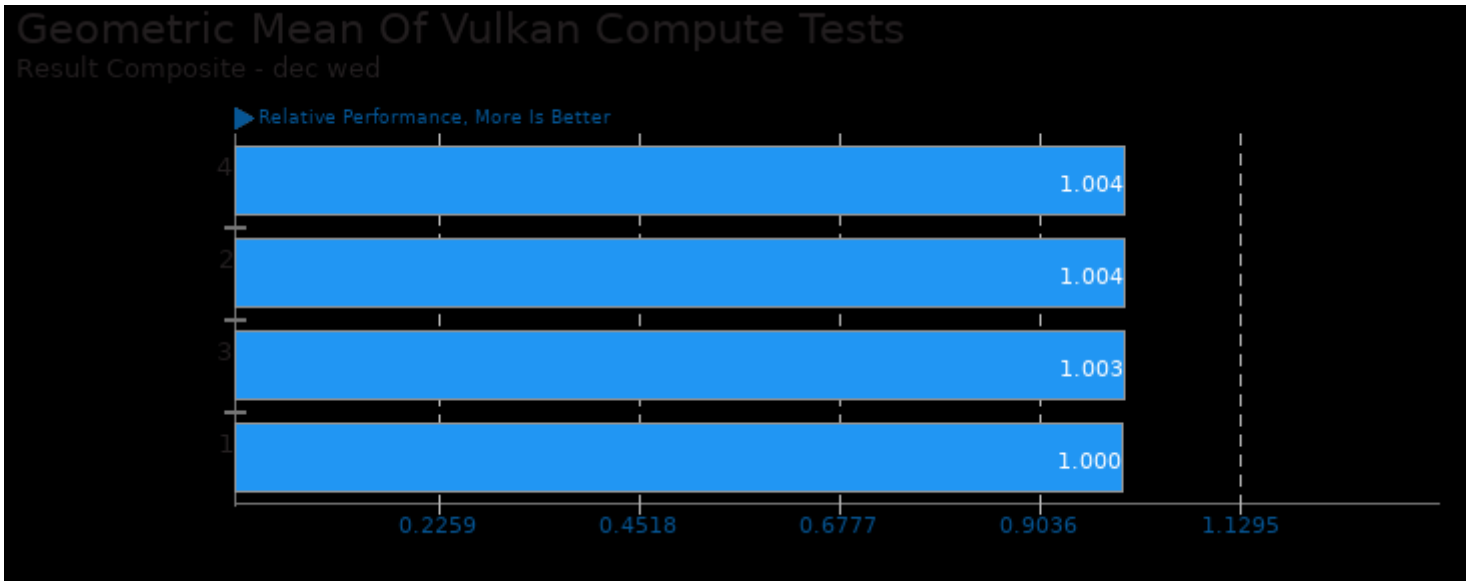

VkResample 1.0
Upscale: 2x - Precision: Single
ms, Fewer Is Better
1
SE +/- 1.53, N = 3
406.42
2
SE +/- 0.06, N = 3
405.17
3
SE +/- 1.03, N = 3
404.42
4
SE +/- 0.42, N = 3
406.85
90
180
270
360
450
1. (CXX) g++ options: -O3 -pthread
Build2 0.13
Time To Compile
Seconds, Fewer Is Better
1
SE +/- 0.32, N = 3
253.69
2
SE +/- 3.34, N = 3
256.46
3
SE +/- 1.37, N = 3
253.35
4
SE +/- 2.05, N = 3
255.38
60
120
180
240
300

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



Geometric mean based upon tests: pts/vkfft and pts/vkresample



Geometric mean based upon tests: pts/vkfft and pts/vkresample

This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 07:59.