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cmsgpu01-el7-gcc10

AMD EPYC 7402P 24-Core testing with a Supermicro H12SSW-NT v1.01 (1.2 BIOS) and ASPEED 15GB on CentOS 7.9.2009 via the Phoronix Test Suite.

Test Systems:

cmsgpu01-el7-gcc10

Processor: AMD EPYC 7402P 24-Core @ 2.80GHz (24 Cores / 48 Threads), Motherboard: Supermicro H12SSW-NT v1.01 (1.2 BIOS), Chipset: AMD Starship/Matisse, Memory: 126GB, Disk: 1920GB SAMSUNG MZ1LB1T9HALS-00007, Graphics: ASPEED 15GB, Network: 2 x Broadcom BCM57416 NetXtreme-E Dual-Media 10G RDMA

OS: CentOS 7.9.2009, Kernel: 5.13.12-1.el7.elrepo.x86_64 (x86_64), Display Server: X Server 1.19.2, Display Driver: NVIDIA, Vulkan: 1.2.175, Compiler: GCC 10.2.1 20210130 + CUDA 11.4, File-System: ext4, Screen Resolution: 1024x768

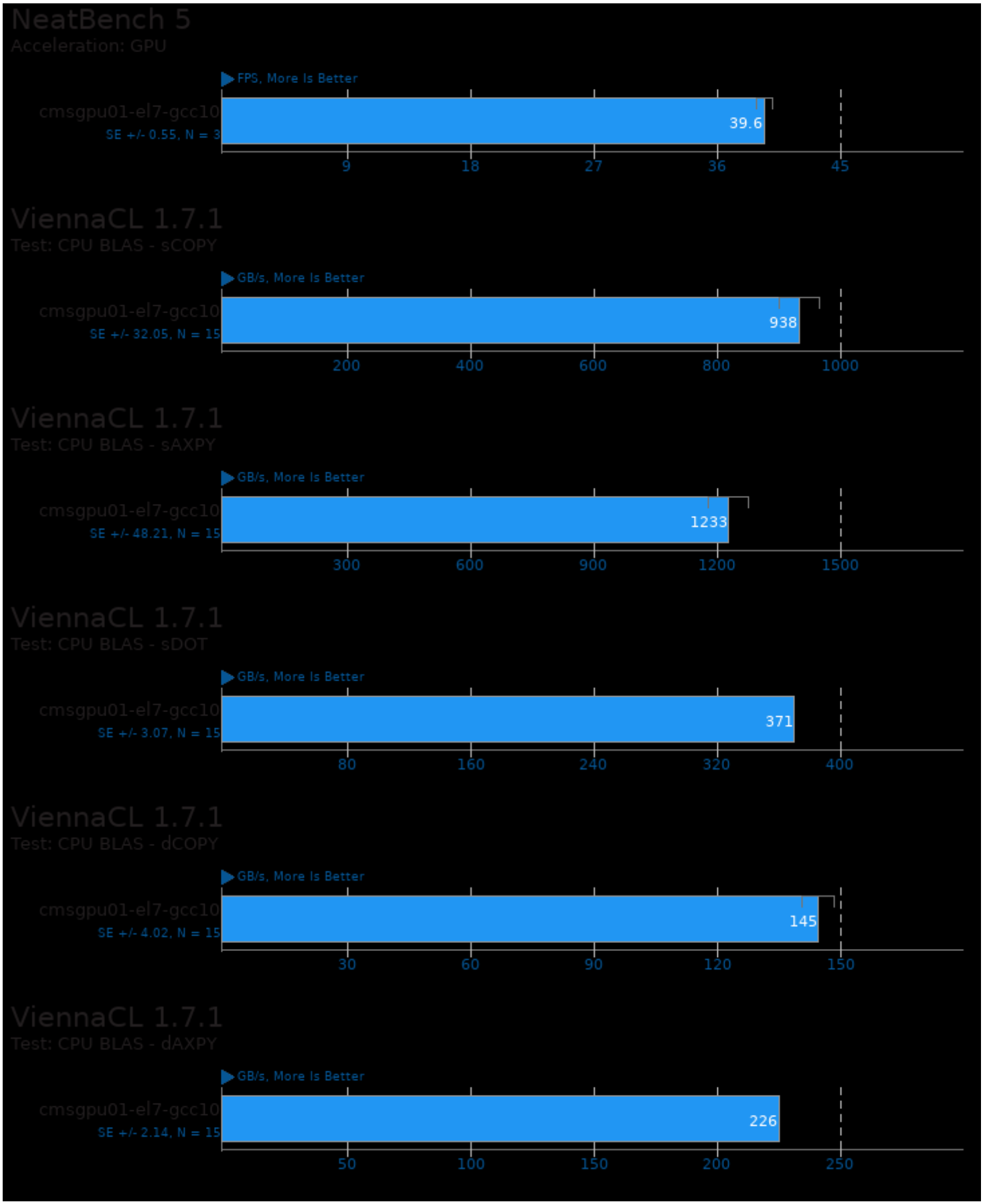
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto --enable-multilib --enable-plugin --enable-shared

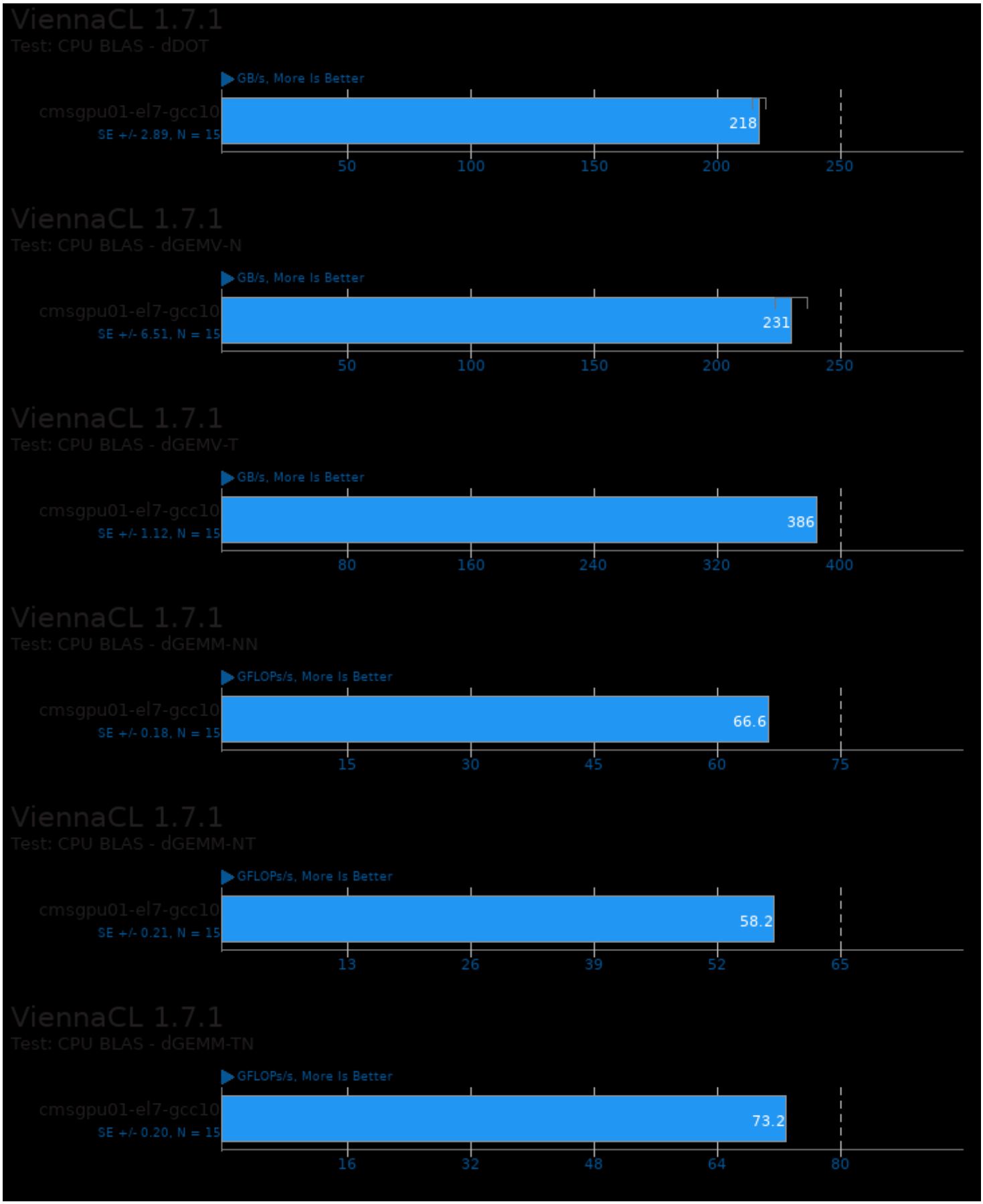
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--enable-threads=posix --mandir=/opt/rh/devtoolset-10/root/usr/share/man --with-arch_32=x86-64 --with-default-libstdcxx-abi=gcc4-compatible --with-gcc-major-version-only --with-linker-hash-style=gnu --with-tune=generic
Processor Notes: Scaling Governor: acpi-cpufreq conservative (Boost: Enabled) - CPU Microcode: 0x8301038
Python Notes: Python 2.7.5 + Python 3.6.8
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/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of Full AMD retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + srbds: Not affected + tsx_async_abort: Not affected

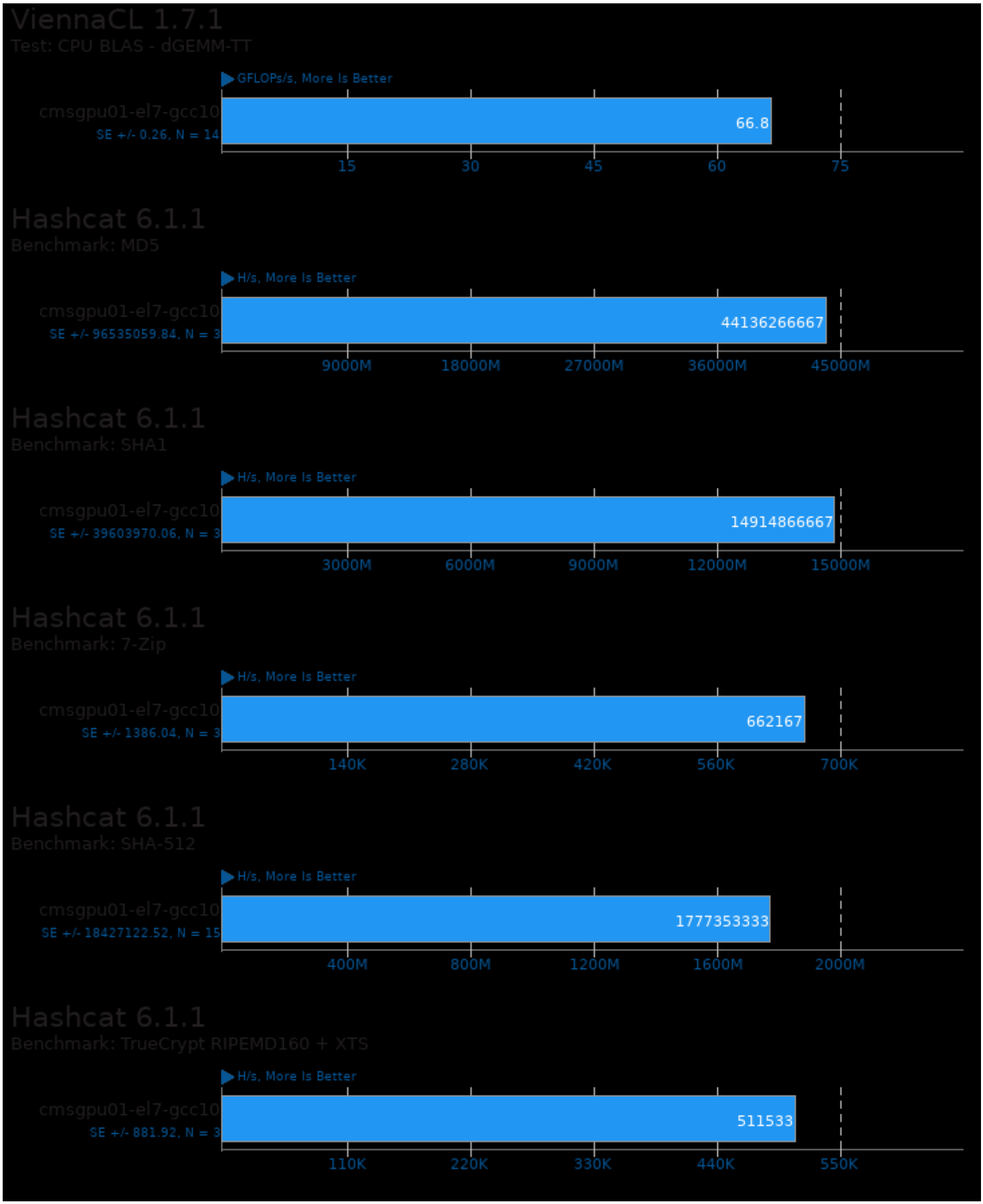
	cmsgpu01-el7-gcc10
NeatBench - GPU (FPS)	39.6
Standard Deviation	2.4%
ViennaCL - CPU BLAS - sCOPY (GB/s)	938
Standard Deviation	13.2%
ViennaCL - CPU BLAS - sAXPY (GB/s)	1233
Standard Deviation	15.1%
ViennaCL - CPU BLAS - sDOT (GB/s)	371
Standard Deviation	3.2%
ViennaCL - CPU BLAS - dCOPY (GB/s)	145
Standard Deviation	10.7%
ViennaCL - CPU BLAS - dAXPY (GB/s)	226
Standard Deviation	3.7%
ViennaCL - CPU BLAS - dDOT (GB/s)	218
Standard Deviation	5.1%
ViennaCL - CPU BLAS - dGEMV-N (GB/s)	231
Standard Deviation	10.9%
ViennaCL - CPU BLAS - dGEMV-T (GB/s)	386
Standard Deviation	1.1%
ViennaCL - CPU BLAS - dGEMM-NN (GFLOPs/s)	66.6
Standard Deviation	1%
ViennaCL - CPU BLAS - dGEMM-NT (GFLOPs/s)	58.2
Standard Deviation	1.4%
ViennaCL - CPU BLAS - dGEMM-TN (GFLOPs/s)	73.2
Standard Deviation	1.1%
ViennaCL - CPU BLAS - dGEMM-TT (GFLOPs/s)	66.8
Standard Deviation	1.5%
Hashcat - MD5 (H/s)	44136266667
Standard Deviation	0.4%
Hashcat - SHA1 (H/s)	14914866667
Standard Deviation	0.5%
Hashcat - 7-Zip (H/s)	662167
Standard Deviation	0.4%
Hashcat - SHA-512 (H/s)	1777353333
Standard Deviation	4%
Hashcat - T.R.X (H/s)	511533
Standard Deviation	0.3%
LeelaChessZero - OpenCL (Nodes/s)	5345
Standard Deviation	0.4%

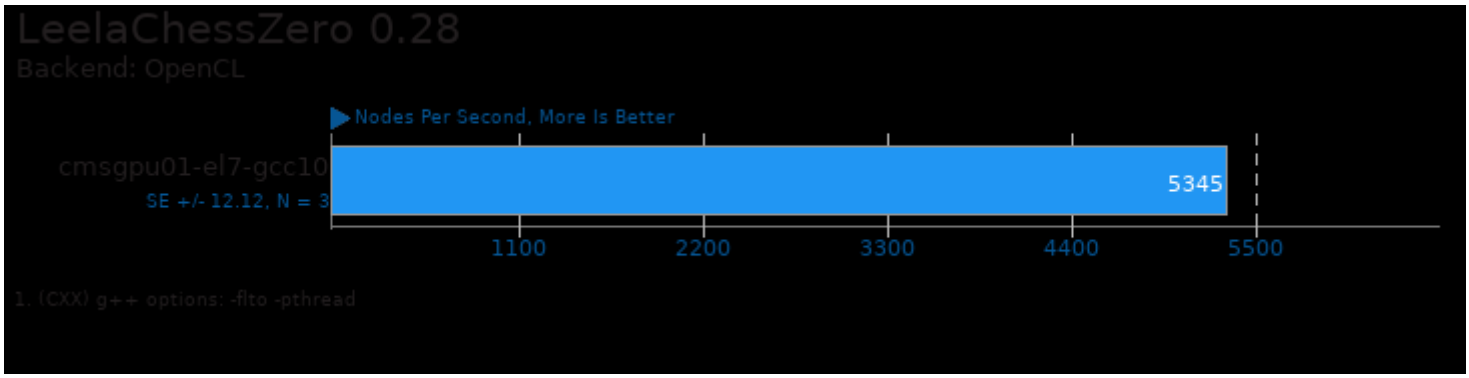
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ViennaCL 1.7.1
Test: CPU BLAS - dDOT
GB/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 2.89, N = 15
218
50
100
150
200
250
ViennaCL 1.7.1
Test: CPU BLAS - dGEMV-N
GB/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 6.51, N = 15
231
50
100
150
200
250
ViennaCL 1.7.1
Test: CPU BLAS - dGEMV-T
GB/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 1.12, N = 15
386
80
160
240
320
400
ViennaCL 1.7.1
Test: CPU BLAS - dGEMM-NN
GFLOPs/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 0.18, N = 15
66.6
15
30
45
60
75
ViennaCL 1.7.1
Test: CPU BLAS - dGEMM-NT
GFLOPs/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 0.21, N = 15
58.2
13
26
39
52
65
ViennaCL 1.7.1
Test: CPU BLAS - dGEMM-TN
GFLOPs/s, More Is Better
cmsgpu01-el7-gcc10
SE +/- 0.20, N = 15
73.2
16
32
48
64
80

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This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 06:30.