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g37n01-el7-gcc10

2 x AMD EPYC 7313 16-Core testing with a Supermicro H12DSU-iN v1.01 (2.1 BIOS) and ASPEED 15GB on CentOS 7.9.2009 via the Phoronix Test Suite.

Test Systems:

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Processor: 2 x AMD EPYC 7313 16-Core @ 3.00GHz (32 Cores / 64 Threads), Motherboard: Supermicro H12DSU-iN v1.01 (2.1 BIOS), Chipset: AMD Starship/Matisse, Memory: 252GB, Disk: 1920GB Micron_7300_MTFDHBE1T9TDF, Graphics: ASPEED 15GB, Network: 2 x Intel X710 for 10GBASE-T

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

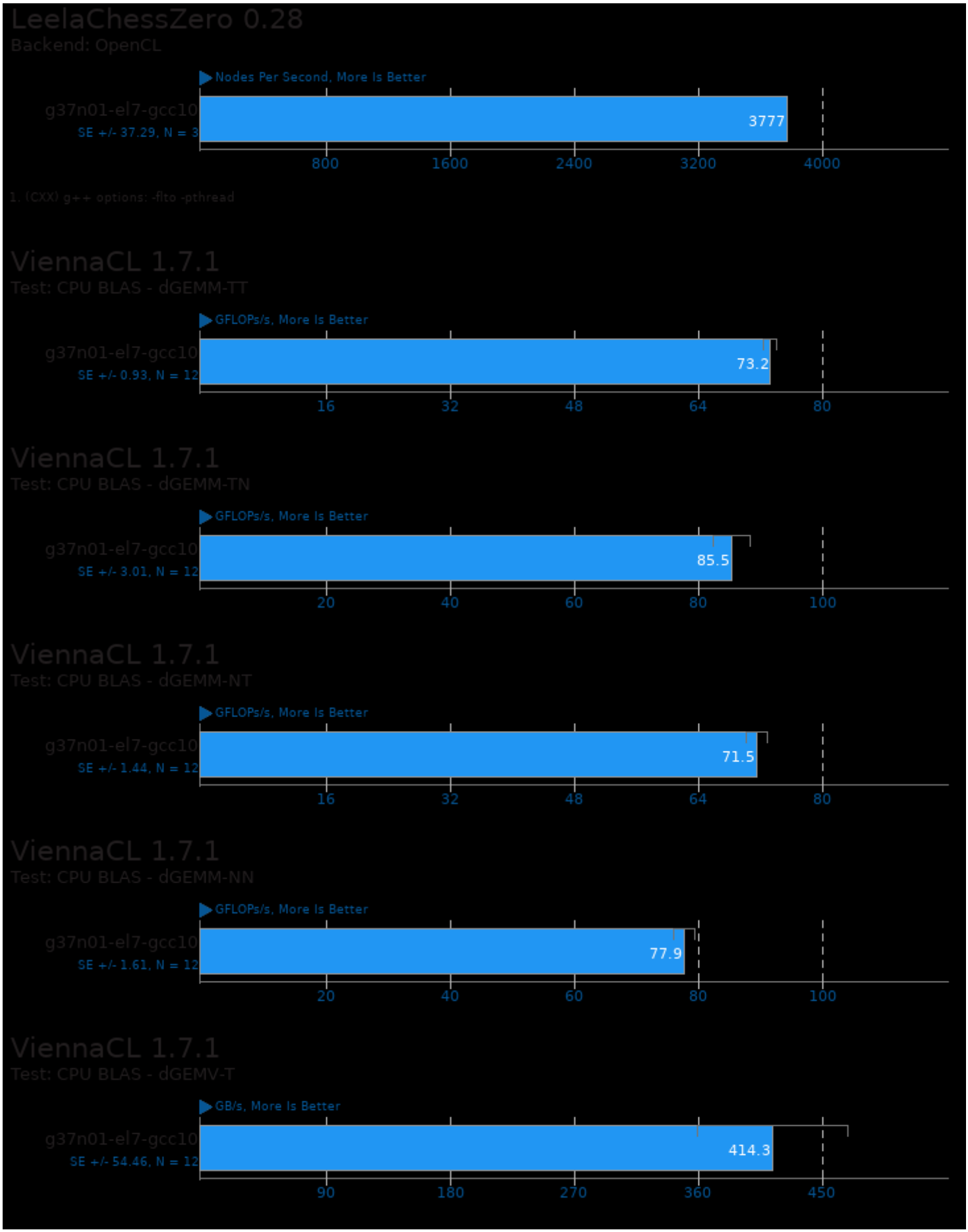
Kernel Notes: Transparent Huge Pages: always
Compiler Notes: --build=x86_64-redhat-linux --disable-libmpx --disable-libunwind-exceptions --enable-__cxa_atexit --enable-bootstrap --enable-checking=release --enable-gnu-indirect-function --enable-gnu-unique-object --enable-initfini-array --enable-languages=c,c++,fortran,lto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

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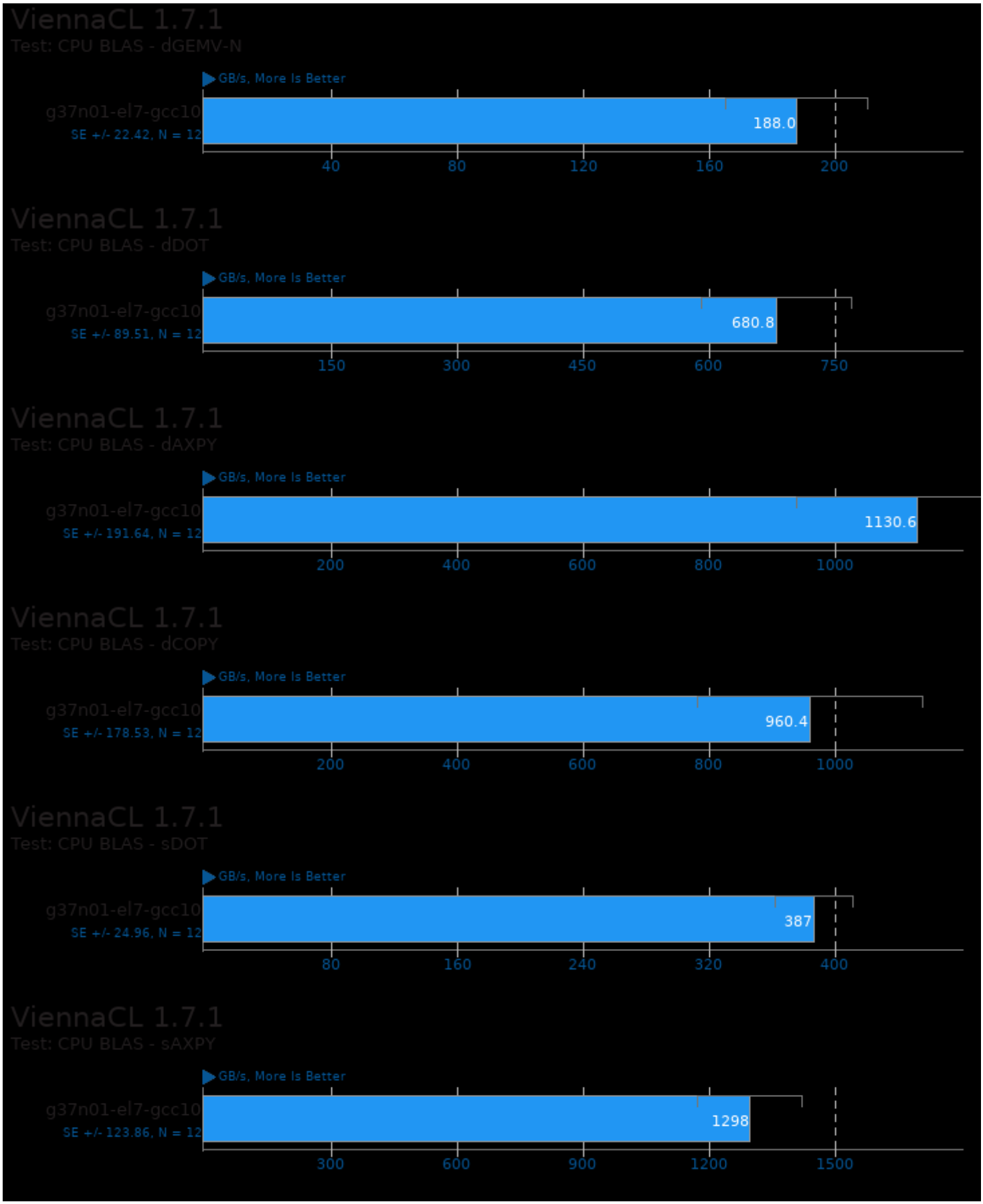
Processor Notes: Scaling Governor: acpi-cpufreq conservative (Boost: Enabled) - CPU Microcode: 0xa00111d
Python Notes: Python 2.7.5 + Python 3.6.8
Security Notes: itlb_multihit: Not affected + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec_store_bypass: Mitigation of SSB disabled 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: always-on RSB filling + srbds: Not affected + tsx_async_abort: Not affected

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LeelaChessZero - OpenCL (Nodes/s)	3777
Standard Deviation	1.7%
ViennaCL - CPU BLAS - dGEMM-TT (GFLOPs/s)	73.2
Standard Deviation	4.4%
ViennaCL - CPU BLAS - dGEMM-TN (GFLOPs/s)	85.5
Standard Deviation	12.2%
ViennaCL - CPU BLAS - dGEMM-NT (GFLOPs/s)	71.5
Standard Deviation	7%
ViennaCL - CPU BLAS - dGEMM-NN (GFLOPs/s)	77.9
Standard Deviation	7.1%
ViennaCL - CPU BLAS - dGEMV-T (GB/s)	414.3
Standard Deviation	45.5%
ViennaCL - CPU BLAS - dGEMV-N (GB/s)	188.0
Standard Deviation	41.3%
ViennaCL - CPU BLAS - dDOT (GB/s)	680.8
Standard Deviation	45.5%
ViennaCL - CPU BLAS - dAXPY (GB/s)	1131
Standard Deviation	58.7%
ViennaCL - CPU BLAS - dCOPY (GB/s)	960.4
Standard Deviation	64.4%
ViennaCL - CPU BLAS - sDOT (GB/s)	387
Standard Deviation	22.3%
ViennaCL - CPU BLAS - sAXPY (GB/s)	1298
Standard Deviation	33%
ViennaCL - CPU BLAS - sCOPY (GB/s)	907.3
Standard Deviation	33.1%
Hashcat - SHA-512 (H/s)	1724580000
Standard Deviation	4.4%
Hashcat - T.R.X (H/s)	493933
Standard Deviation	0.2%
Hashcat - SHA1 (H/s)	14686466667
Standard Deviation	0.6%
Hashcat - MD5 (H/s)	43520133333
Standard Deviation	0.7%
Hashcat - 7-Zip (H/s)	653533
Standard Deviation	0.1%
NeatBench - GPU (FPS)	36.8
Standard Deviation	0.2%

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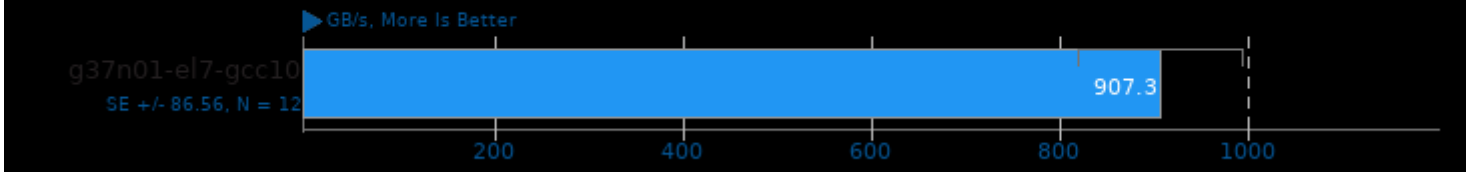
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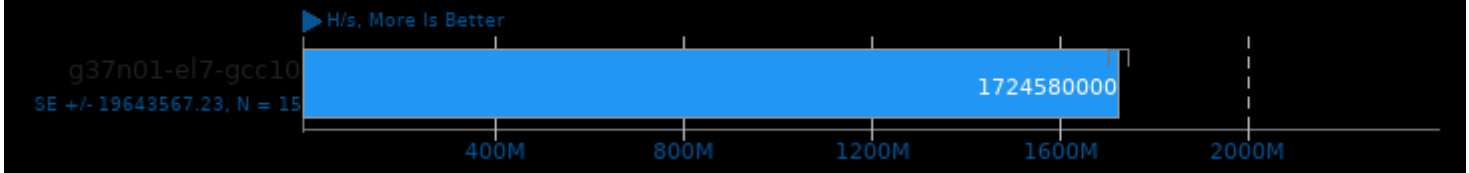
ViennaCL 1.7.1

Test: CPU BLAS - sCOPY



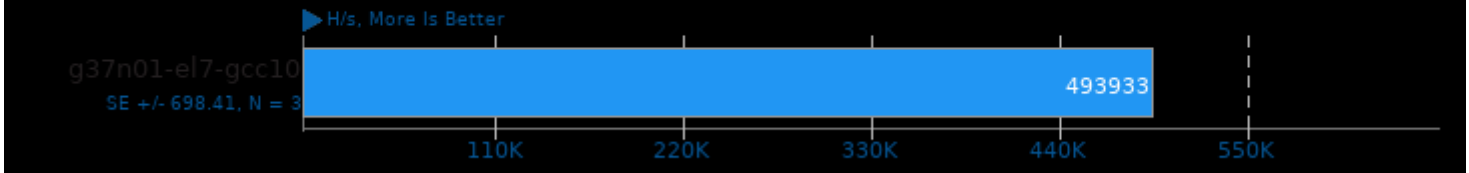
Hashcat 6.1.1

Benchmark: SHA-512



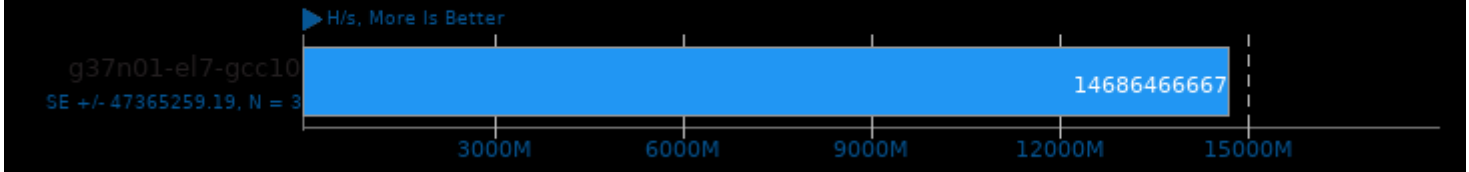
Hashcat 6.1.1

Benchmark: TrueCrypt RIPEMD160 + XTS



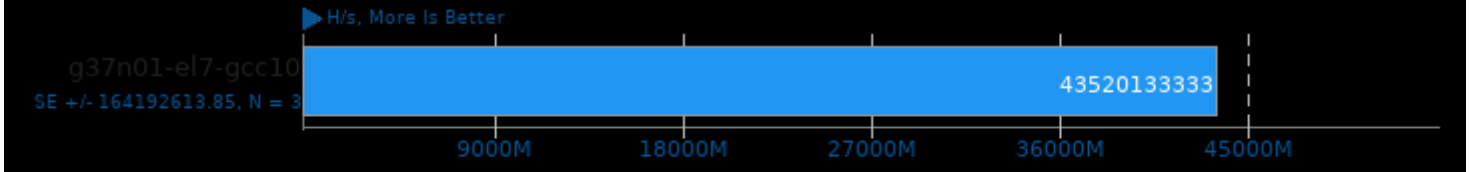
Hashcat 6.1.1

Benchmark: SHA1



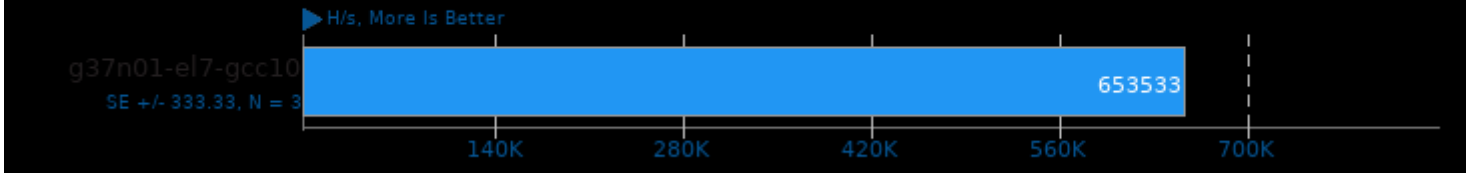
Hashcat 6.1.1

Benchmark: MD5

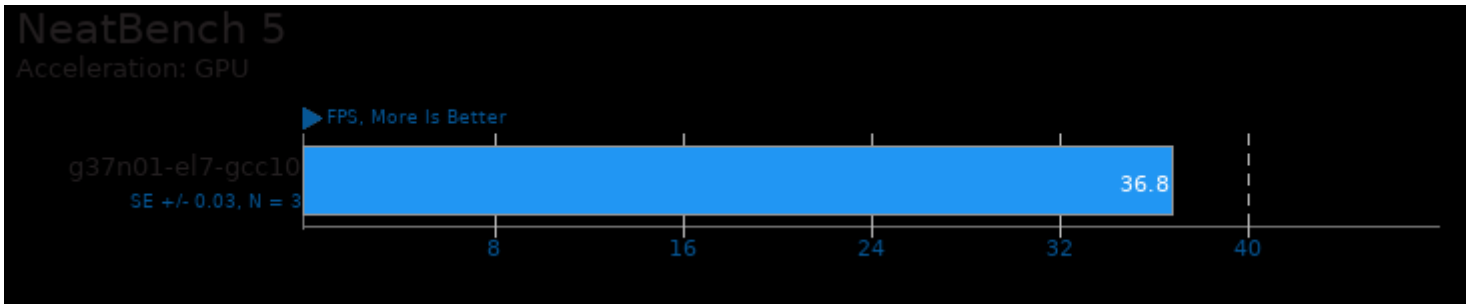


Hashcat 6.1.1

Benchmark: 7-Zip



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