



first_m100_run

2 x Intel Xeon Gold 6132 testing with a Dell PowerEdge R740 [0M27WY] (2.14.2 BIOS) and Matrox G200eW3 32GB on AlmaLinux 8.7 via the Phoronix Test Suite.

Test Systems:

first m100 run on r740

Processor: 2 x Intel Xeon Gold 6132 (28 Cores / 56 Threads), Motherboard: Dell PowerEdge R740 [0M27WY] (2.14.2 BIOS), Chipset: Intel Sky Lake-E DMI3 Registers, Memory: 12 x 16 GB DDR4-2666MT/s M393A2K43BB1-CTD, Disk: 240GB INTEL SSDSC2KB24, Graphics: Matrox G200eW3 32GB, Monitor: DELL U2412M, Network: 4 x Intel X710 for 10GbE SFP+

OS: AlmaLinux 8.7, Kernel: 4.18.0-425.3.1.el8.x86_64 (x86_64), Display Server: X Server 1.20.11, OpenCL: OpenCL 2.1 AMD-APP (3486.0), Compiler: GCC 8.5.0 20210514, File-System: xfs, Screen Resolution: 1920x1200

Kernel Notes: Transparent Huge Pages: always

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

--enable-offload-targets=nvptx-none --enable-plugin --enable-shared --enable-threads=posix --mandir=/usr/share/man --with-arch_32=x86-64 --with-gcc-major-version-only
 --with-isl --with-linker-hash-style=gnu --with-tune=generic --without-cuda-driver
 Processor Notes: CPU Microcode: 0x2006e05
 Python Notes: Python 2.7.18 + Python 3.6.8
 Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 11tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + mmio_stale_data: Mitigation of Clear buffers; SMT vulnerable + retbleed: Mitigation of IBRS + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swaps barriers and __user pointer sanitization + spectre_v2: Mitigation of IBRS IBPB: conditional RSB filling PBRSE-elBRS: Not affected + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

first m100 run on r740

SHOC Scalable Heterogeneous Computing - OpenCL - Triad (GB/s) 11.8420

Standard Deviation 0.2%

SHOC Scalable Heterogeneous Computing - OpenCL - FFT SP 2802

(GFLOPS)

Standard Deviation 0.1%

SHOC Scalable Heterogeneous Computing - OpenCL - MD5 Hash 27.9275

(GHash/s)

Standard Deviation 0%

SHOC Scalable Heterogeneous Computing - OpenCL - Max SP 18820013

Flops (GFLOPS)

Standard Deviation 3.2%

SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed 13.7487

Download (GB/s)

Standard Deviation 0%

SHOC Scalable Heterogeneous Computing - OpenCL - Bus Speed 13.1374

Readback (GB/s)

Standard Deviation 0%

SHOC Scalable Heterogeneous Computing - OpenCL - T.R.B (GB/s) 696.907

Standard Deviation 0.2%

cl-mem - Copy (GB/s) 281.9

Standard Deviation 0.2%

cl-mem - Read (GB/s) 913.0

Standard Deviation 0.2%

cl-mem - Write (GB/s) 728.0

Standard Deviation 0.1%

Rodinia - OpenCL Myocyte (sec) 40.576

Standard Deviation 98.5%

Rodinia - OpenCL Heartwall (sec) 3.060

Standard Deviation 0.6%

Darktable - Boat - OpenCL (sec) 1.406

Standard Deviation 2.4%

Darktable - Masskrug - OpenCL (sec) 2.452

Standard Deviation 1.6%

Darktable - Server Rack - OpenCL (sec) 0.265

Standard Deviation 2.2%

Darktable - Server Room - OpenCL (sec) 0.808

Standard Deviation 1.5%

clpeak - Kernel Latency (us) 5.57

Standard Deviation 0.9%

clpeak - I.C.I (GIOPS) 10328

Standard Deviation 0.2%

clpeak - S.P.F (GFLOPS) 22702
Standard Deviation 0.1%

clpeak - D.P.D (GFLOPS) 11256
Standard Deviation 0.1%

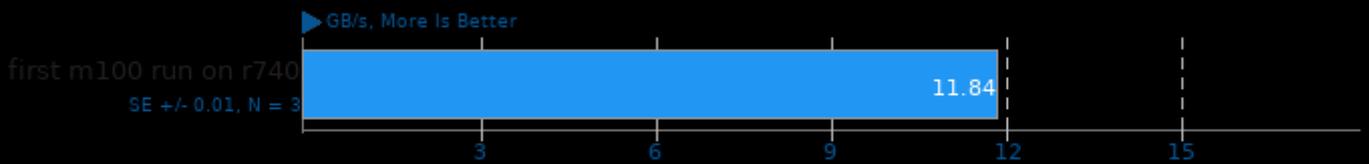
clpeak - G.M.B (GBPS) 938.92
Standard Deviation 0.1%

clpeak - T.B.e (GBPS) 4.82
Standard Deviation 0.3%

clpeak - T.B.e (GBPS) 5.63
Standard Deviation 0.3%

SHOC Scalable Heterogeneous Computing 2020-04-17

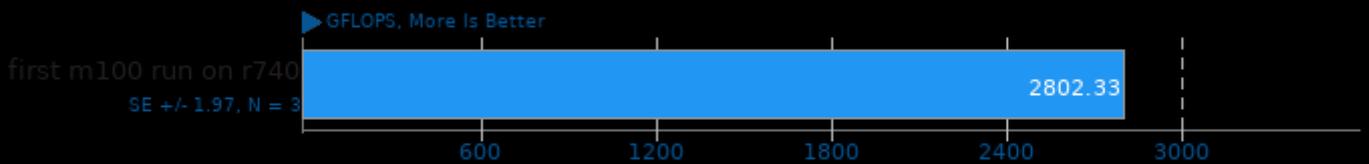
Target: OpenCL - Benchmark: Triad



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

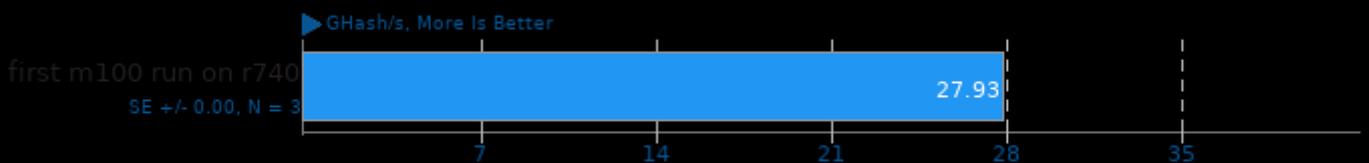
Target: OpenCL - Benchmark: FFT SP



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

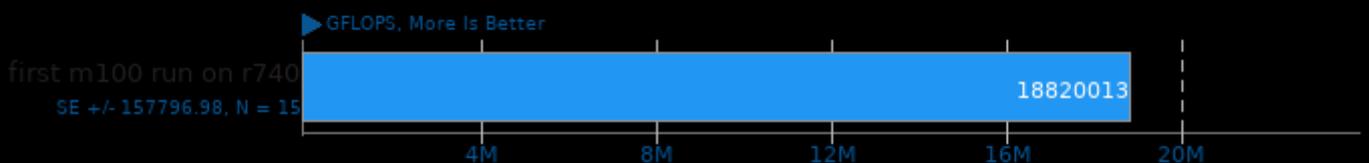
Target: OpenCL - Benchmark: MD5 Hash



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

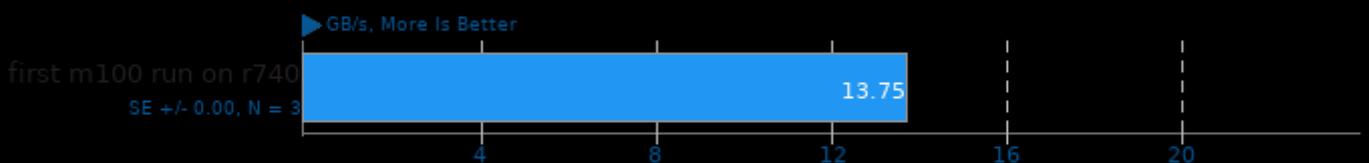
Target: OpenCL - Benchmark: Max SP Flops



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

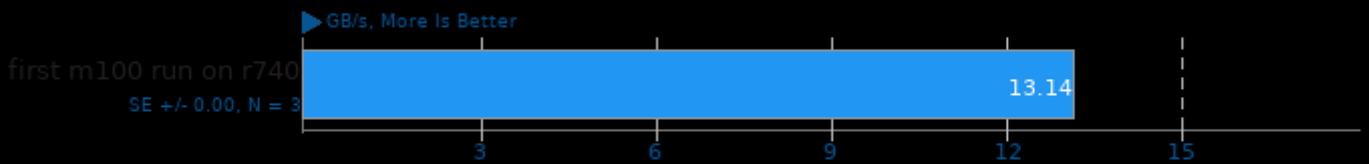
Target: OpenCL - Benchmark: Bus Speed Download



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

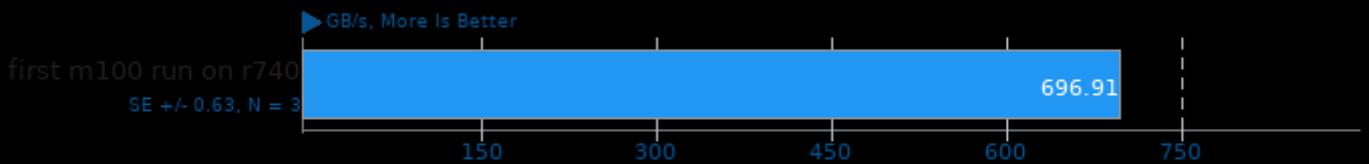
Target: OpenCL - Benchmark: Bus Speed Readback



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable Heterogeneous Computing 2020-04-17

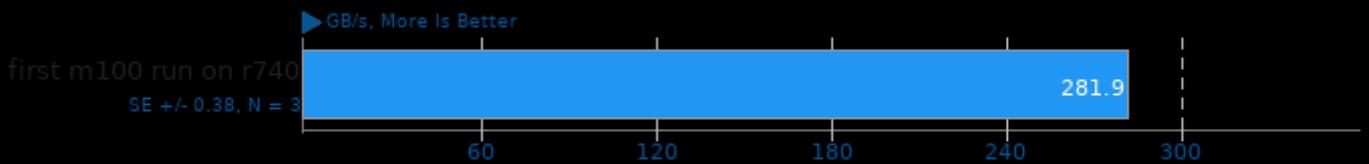
Target: OpenCL - Benchmark: Texture Read Bandwidth



1. (CXX) g++ options: -O2 -ISHOCCommonMPI -ISHOCCommonOpenCL -ISHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

cl-mem 2017-01-13

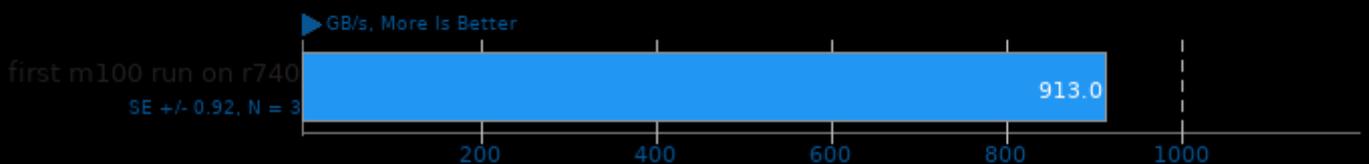
Benchmark: Copy



1. (CC) gcc options: -O2 -fno -lOpenCL

cl-mem 2017-01-13

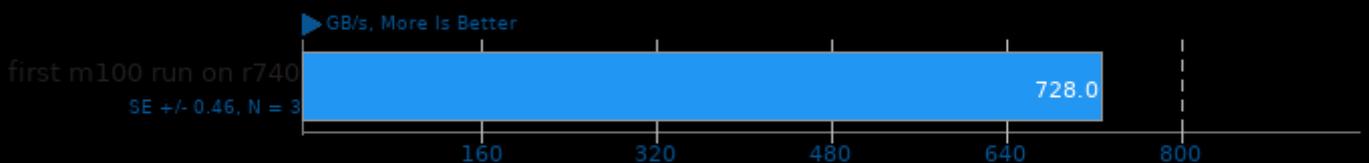
Benchmark: Read



1. (CC) gcc options: -O2 -fno -lOpenCL

cl-mem 2017-01-13

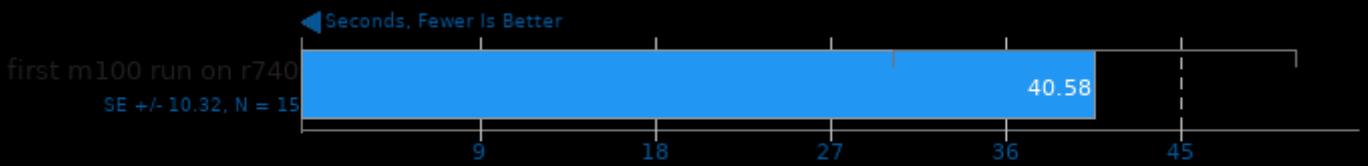
Benchmark: Write



1. (CC) gcc options: -O2 -fno -lOpenCL

Rodinia 3.1

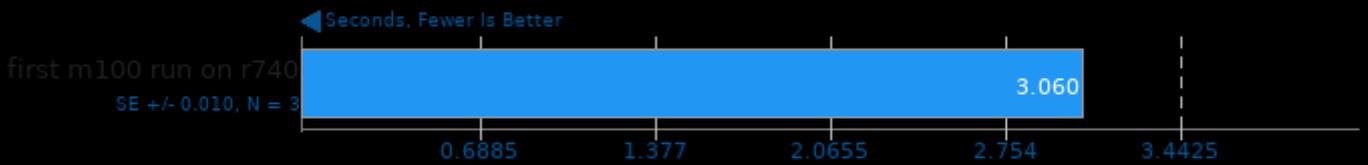
Test: OpenCL Myocyte



1. (CXX) g++ options: -O2 -fOpenCL

Rodinia 3.1

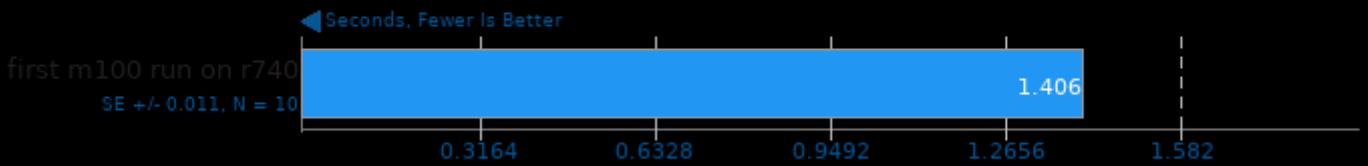
Test: OpenCL Heartwall



1. (CXX) g++ options: -O2 -fOpenCL

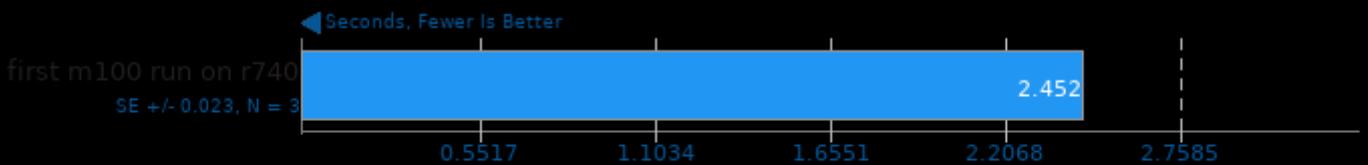
Darktable 3.8.1

Test: Boat - Acceleration: OpenCL



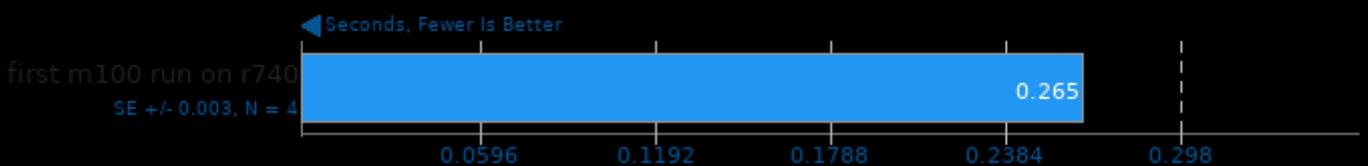
Darktable 3.8.1

Test: Masskrug - Acceleration: OpenCL



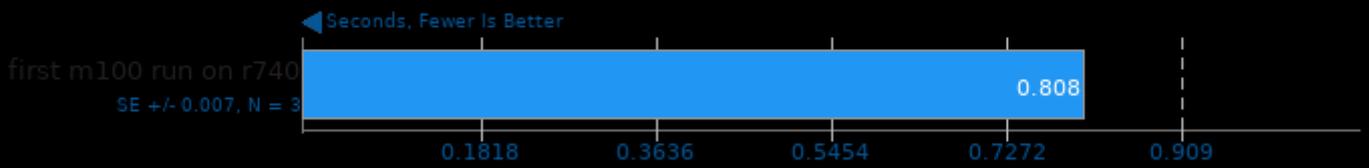
Darktable 3.8.1

Test: Server Rack - Acceleration: OpenCL



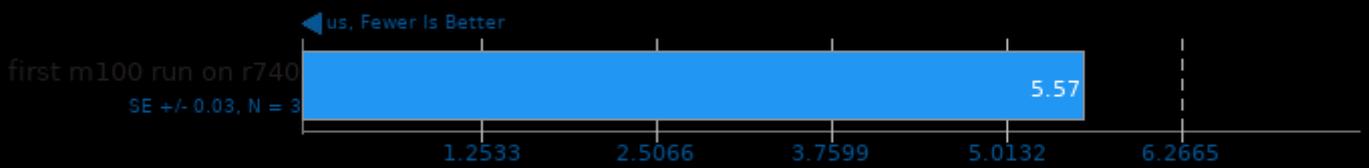
Darktable 3.8.1

Test: Server Room - Acceleration: OpenCL



clpeak

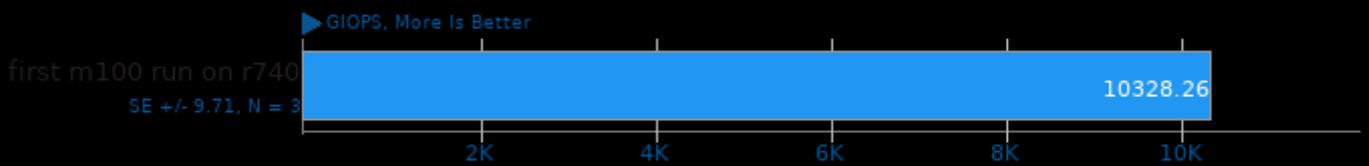
OpenCL Test: Kernel Latency



1. (CXX) g++ options: -O3 -rdynamic -lOpenCL

clpeak

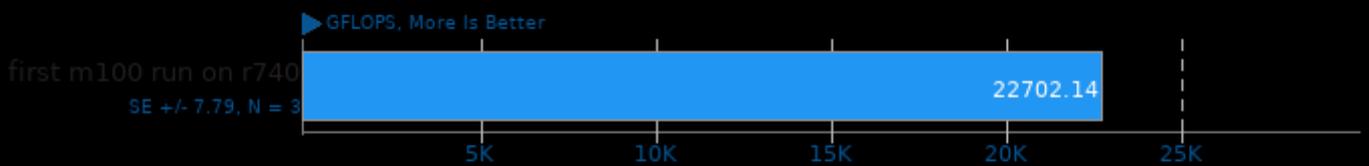
OpenCL Test: Integer Compute INT



1. (CXX) g++ options: -O3 -rdynamic -lOpenCL

clpeak

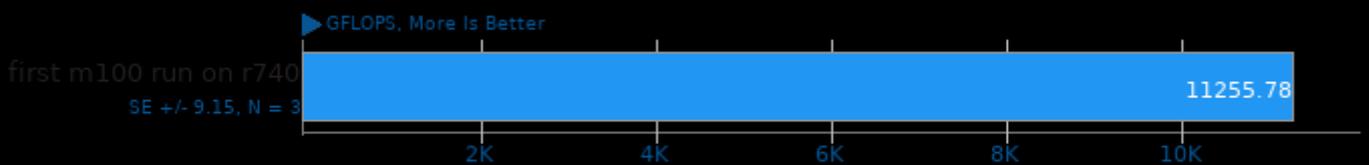
OpenCL Test: Single-Precision Float



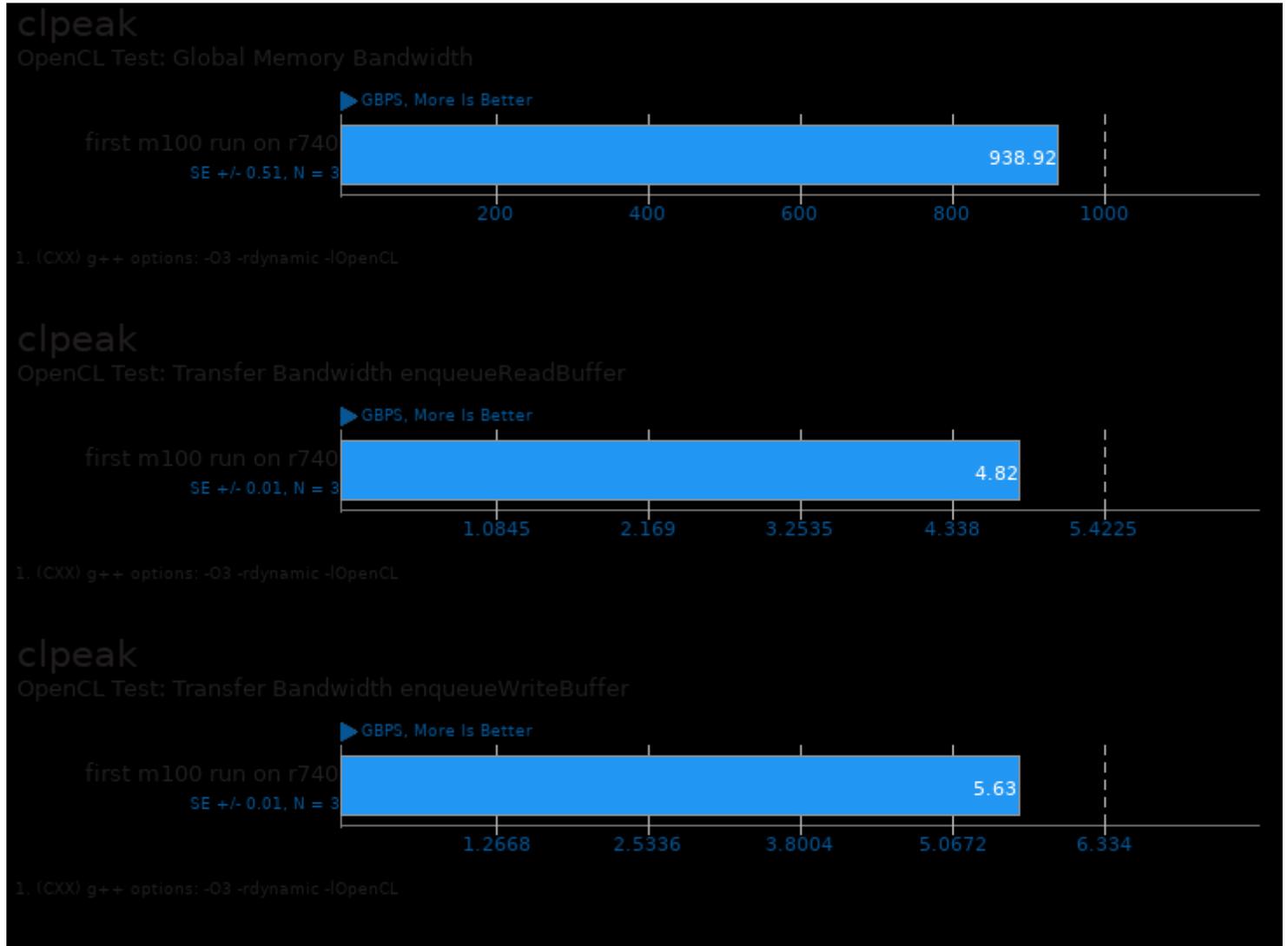
1. (CXX) g++ options: -O3 -rdynamic -lOpenCL

clpeak

OpenCL Test: Double-Precision Double



1. (CXX) g++ options: -O3 -rdynamic -lOpenCL



This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 02:06.