

www.phoronix-test-suite.com

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

first_m100_run

--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 + 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: Mitigation of Clear buffers; SMT vulnerable + retbleed: Mitigation of IBRS + spec_store_bypass: Mitigation of SSB disabled via prctl + spectre_v1: Mitigation of usercopy/swapgs barriers and __user pointer sanitization + spectre_v2: Mitigation of IBRS IBPB: conditional RSB filling PBRSB-eIBRS: Not affected + srbds: Not affected + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

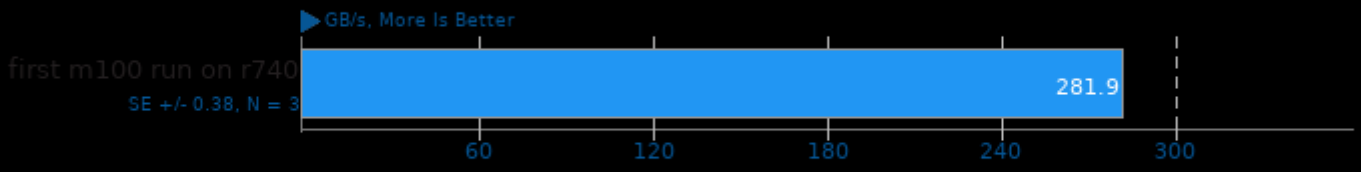
	first m100 run on r740
cl-mem - Copy (GB/s)	281.9
Standard Deviation	0.2%
cl-mem - Read (GB/s)	913.0
Standard Deviation	0.2%
cl-mem - Write (GB/s)	728.0
Standard Deviation	0.1%
clpeak - Kernel Latency (us)	5.57
Standard Deviation	0.9%
clpeak - I.C.I (GIOPS)	10328
Standard Deviation	0.2%
clpeak - S.P.F (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%
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%
Rodinia - OpenCL Myocyte (sec)	40.576
Standard Deviation	98.5%
Rodinia - OpenCL Heartwall (sec)	3.060
Standard Deviation	0.6%
SHOC Scalable HeterOgeneous Computing - OpenCL - Triad (GB/s)	11.8420
Standard Deviation	0.2%
SHOC Scalable HeterOgeneous Computing - OpenCL - FFT SP (GFLOPS)	2802
Standard Deviation	0.1%
SHOC Scalable HeterOgeneous Computing - OpenCL - MD5 Hash (GHash/s)	27.9275
Standard Deviation	0%

first_m100_run

SHOC Scalable HeterOgeneous Computing - OpenCL - Max SP Flops (GFLOPS)	18820013
Standard Deviation	3.2%
SHOC Scalable HeterOgeneous Computing - OpenCL - Bus Speed Download (GB/s)	13.7487
Standard Deviation	0%
SHOC Scalable HeterOgeneous Computing - OpenCL - Bus Speed Readback (GB/s)	13.1374
Standard Deviation	0%
SHOC Scalable HeterOgeneous Computing - OpenCL - T.R.B (GB/s)	696.907
Standard Deviation	0.2%

cl-mem 2017-01-13

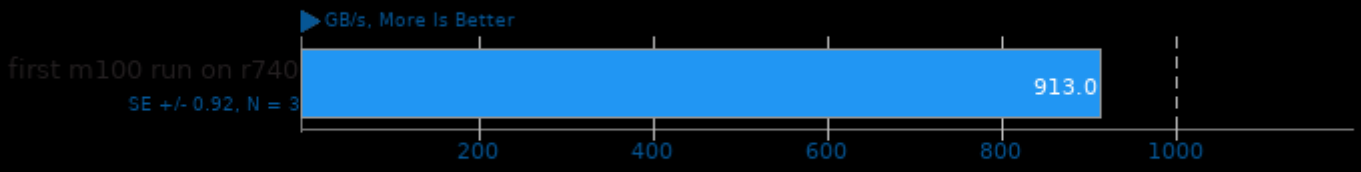
Benchmark: Copy



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

cl-mem 2017-01-13

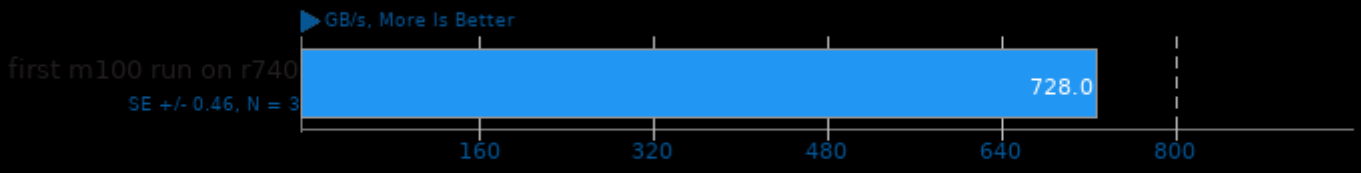
Benchmark: Read



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

cl-mem 2017-01-13

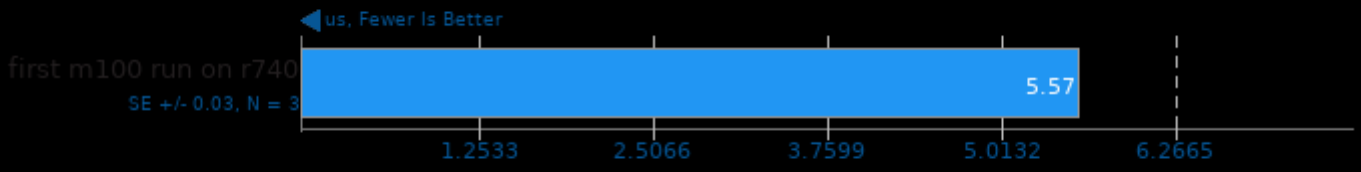
Benchmark: Write



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

clpeak

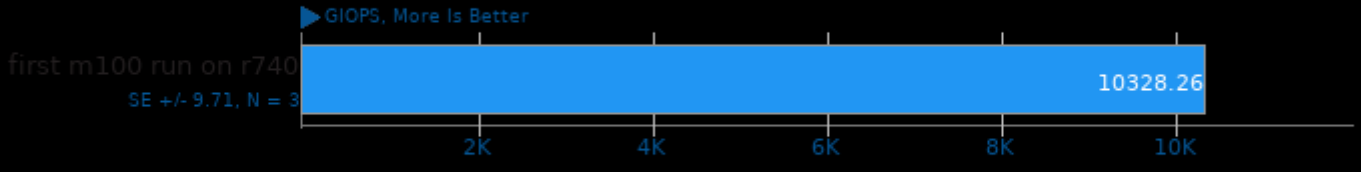
OpenCL Test: Kernel Latency



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

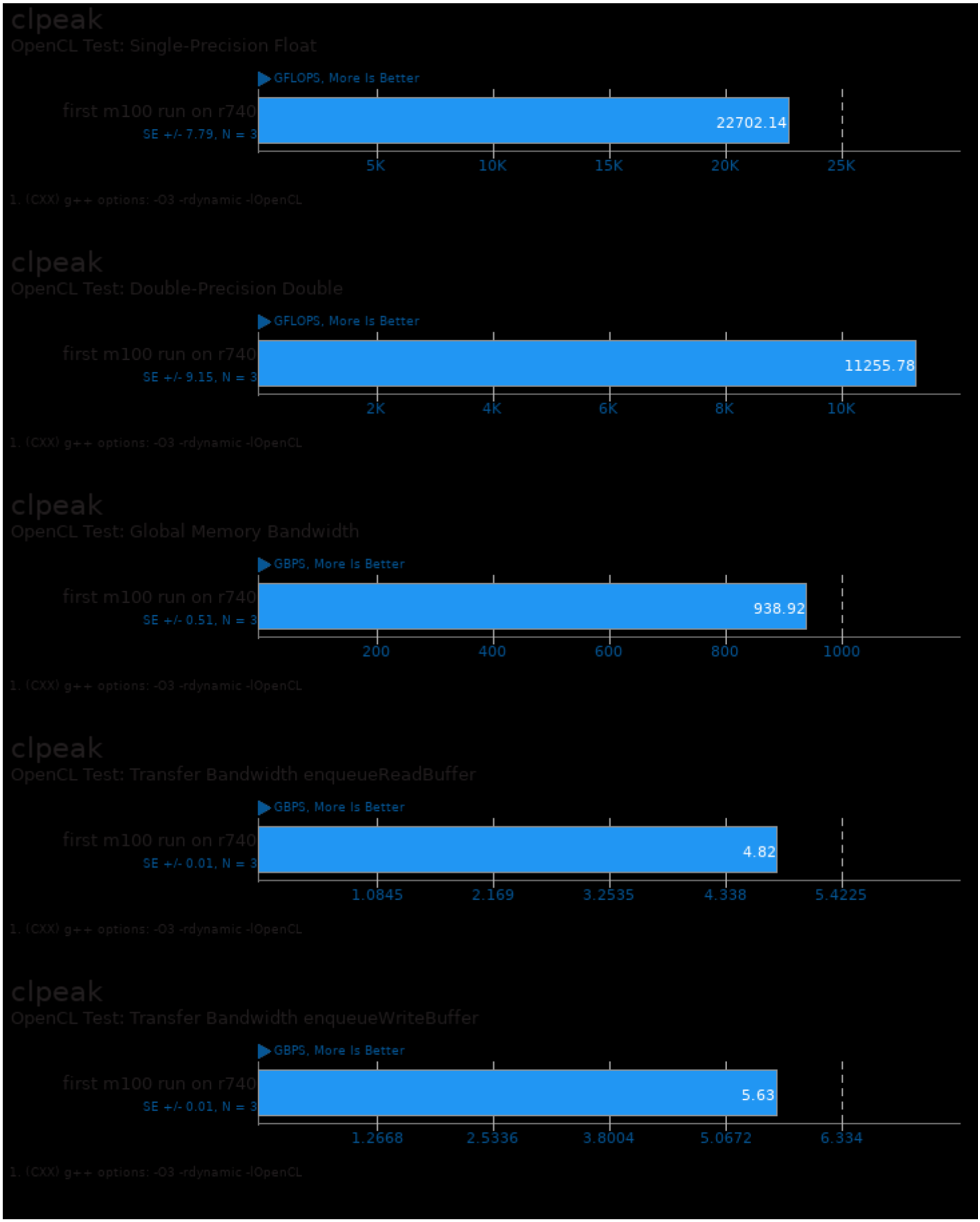
clpeak

OpenCL Test: Integer Compute INT

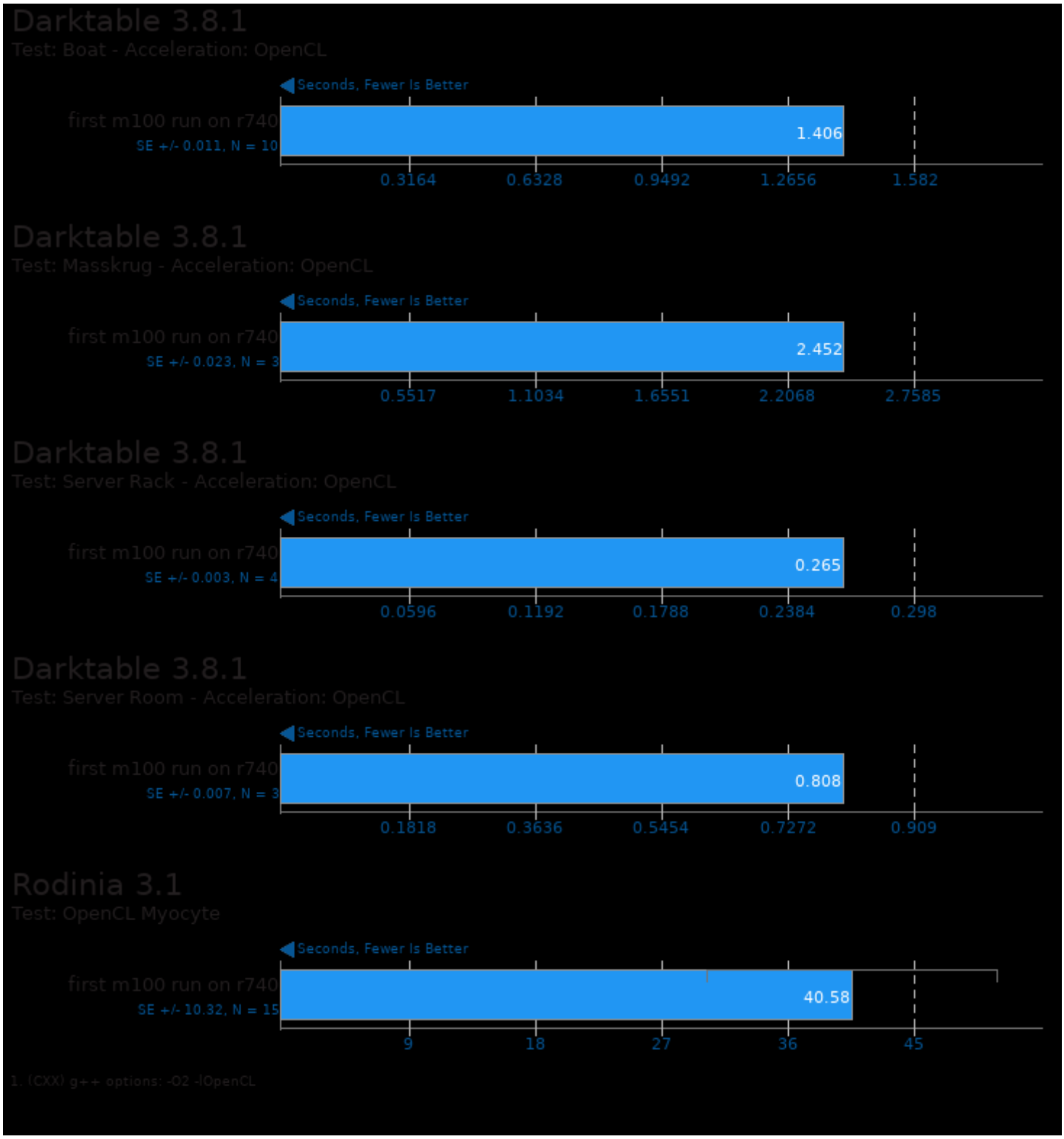


1. (CXX) g++ options: -O3 -rdynamic -lOpenCL

first_m100_run

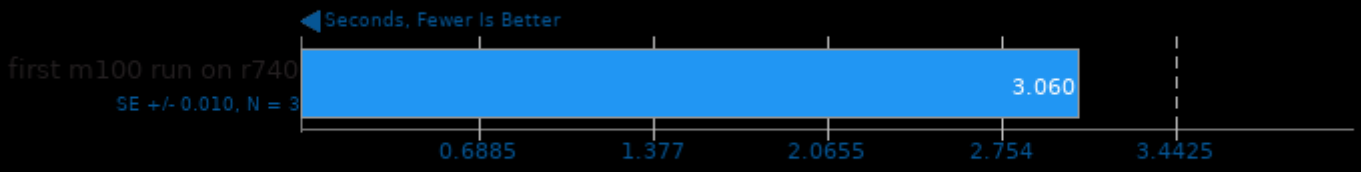


first_m100_run



Rodinia 3.1

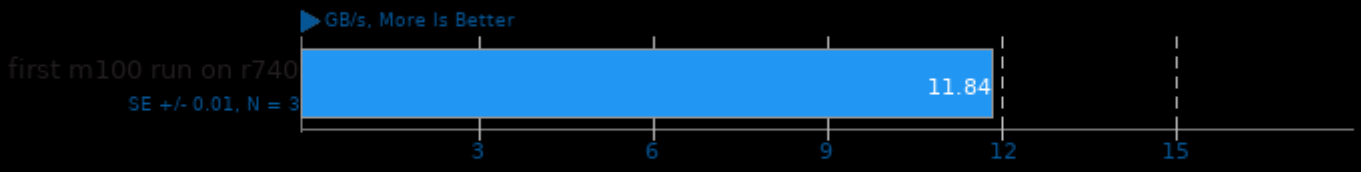
Test: OpenCL Heartwall



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

SHOC Scalable HeterOgeneous Computing 2020-04-17

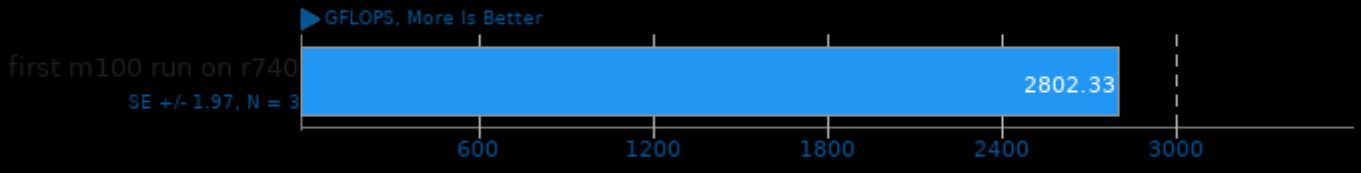
Target: OpenCL - Benchmark: Triad



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable HeterOgeneous Computing 2020-04-17

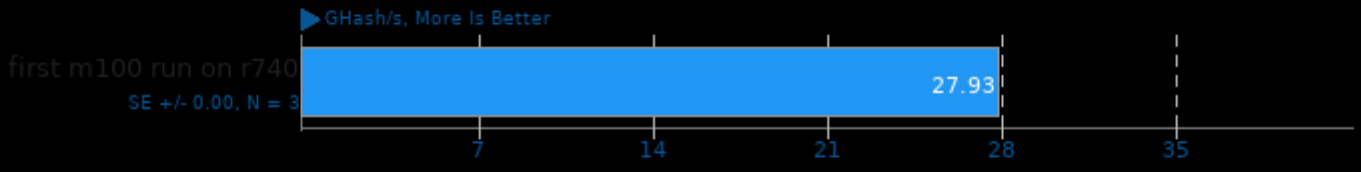
Target: OpenCL - Benchmark: FFT SP



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable HeterOgeneous Computing 2020-04-17

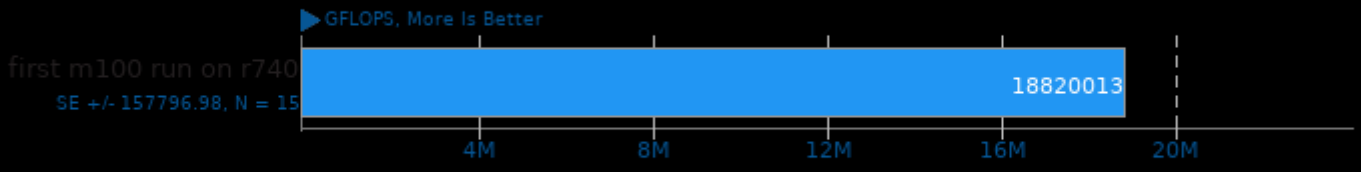
Target: OpenCL - Benchmark: MD5 Hash



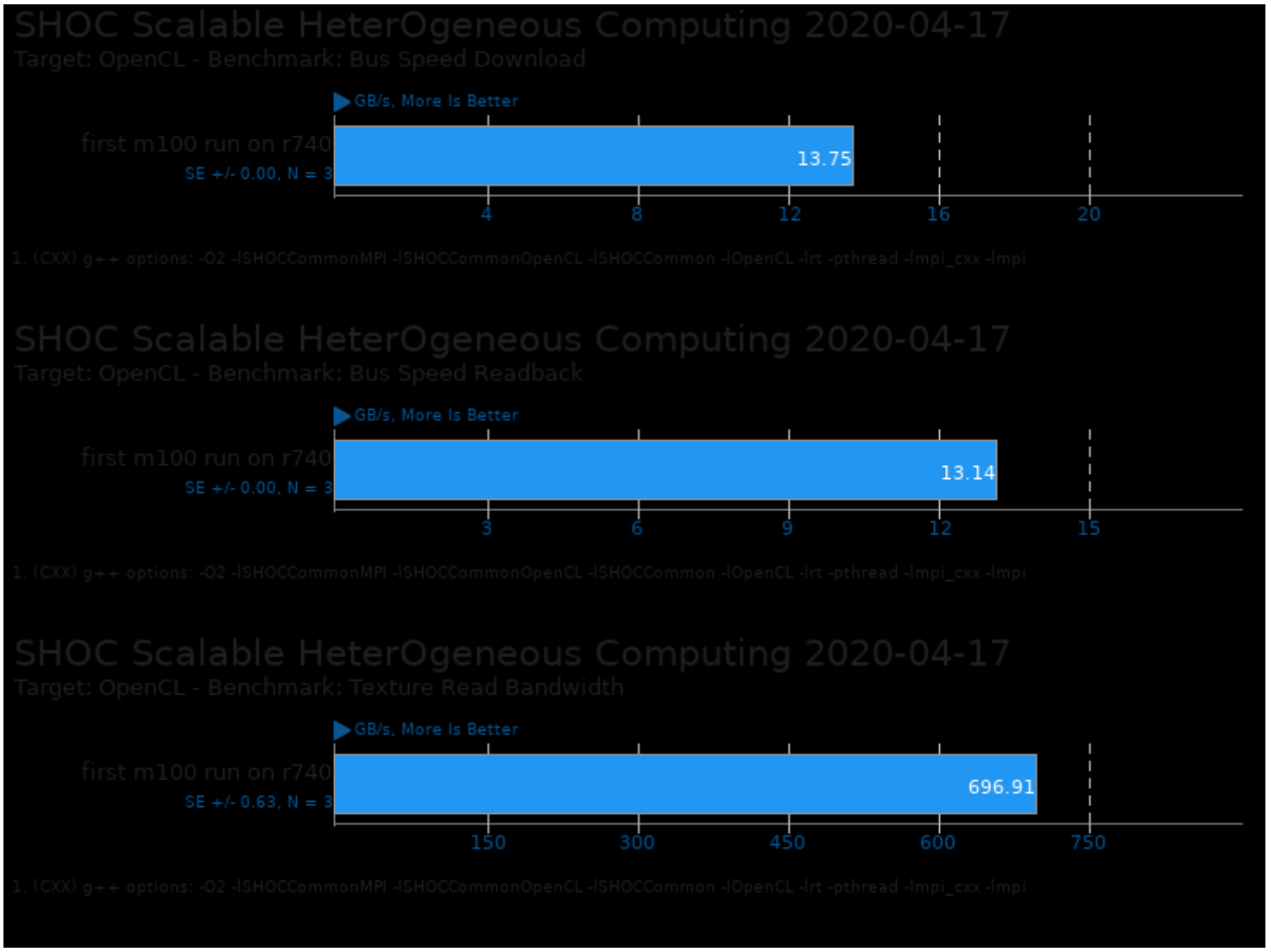
1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi

SHOC Scalable HeterOgeneous Computing 2020-04-17

Target: OpenCL - Benchmark: Max SP Flops



1. (CXX) g++ options: -O2 -lSHOCCommonMPI -lSHOCCommonOpenCL -lSHOCCommon -lOpenCL -lrt -pthread -lmpi_cxx -lmpi



This file was automatically generated via the Phoronix Test Suite benchmarking software on Thursday, 28 March 2024 06:25.