



720_R32_4_4

ARMv8 rev 0 testing with a Jetson-AGX and NVIDIA Tegra Xavier on Ubuntu 18.04 via the Phoronix Test Suite.

Test Systems:

eMMC

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=glibc --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Disk Notes: CFQ / data=ordered,relatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: tegra_cpufreq_schedutil

USB 3.0_inno

USB 2.0

SD Card innodisk

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA TEGRA, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=glibc --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Disk Notes: CFQ / data=ordered,relatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: tegra_cpufreq_schedutil

mSATA

Typc C

LPDDR4

CPU Stress

CUDA Nbody

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 63GB M.2 (S80) 3MG2-P + 62GB Ultra USB 3.0 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: PHL 247E6, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=glibc --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Processor Notes: Scaling Governor: tegra_cpufreq_schedutil

Graphics Test

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 63GB M.2 (S80) 3MG2-P + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 3840x2160

Kernel Notes: Transparent Huge Pages: always

Processor Notes: Scaling Governor: tegra_cpufreq_schedutil

Python Notes: Python 2.7.17 + Python 3.6.9

M.2 M SSD

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 256GB PLEXTOR PX-256M9PeGN + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Disk Notes: none / data=ordered,relatime,rw / Block Size: 4096

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 1

LAN 1 run 2

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 1 run 3

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

LAN 2

LAN 3

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2, Graphics: NVIDIA Tegra Xavier, Monitor: EDIIG0219, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

WLAN AC8265

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210 + Intel 8265 / 8275

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Compiler Notes: --build=aarch64-linux-gnu --disable-libquadmath --disable-libquadmath-support --disable-werror --enable-bootstrap --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-fix-cortex-a53-843419 --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-nls --enable-plugin --enable-shared --enable-threads=posix --host=aarch64-linux-gnu --program-prefix=aarch64-linux-gnu- --target=aarch64-linux-gnu --with-default-libstdcxx-abi=new --with-gcc-major-version-only -v

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

RS232UART

Processor: ARMv8 rev 0 @ 2.27GHz (8 Cores), Motherboard: Jetson-AGX, Memory: 16GB, Disk: 62GB Ultra USB 3.0 + 31GB HBG4a2 + 15GB i-TF, Graphics: NVIDIA Tegra Xavier, Monitor: B287K, Network: 2 x Intel I210

OS: Ubuntu 18.04, Kernel: 4.9.140-tegra (aarch64), Desktop: Unity 7.5.0, Display Server: X Server 1.19.6, Display Driver: NVIDIA 32.4.4, OpenGL: 4.6.0, Vulkan: 1.2.131, Compiler: GCC 7.5.0 + CUDA 10.2, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: always

Processor Notes: Scaling Governor: tegra_cpufreq schedutil

eMM	USB	USB	SD	mSA	Type	LPD	CPU	CUD	Grap	M.2	LAN	LAN	LAN	LAN	LAN	WLA	RS23
C	3.0_i	2.0	Card	TA	c C	DR4	Stres	A	hics	M	1	1	run	2	3	N	2UA
	nno		inno				s	Nbo	Test	SSD		2	3			AC8	RT
			disk					dy								265	

CUDA	51.53
Mini-Nbody	2
- Original	
((NBody^2)/	
s)	
Standard	0.1%
Deviation	
CUDA	53.29
Mini-Nbody	6
- Cache	
Blocking	
((NBody^2)/	
s)	
Standard	0%
Deviation	
CUDA	53.36
Mini-Nbody	0
- Loop	
Unrolling	
((NBody^2)/	
s)	
Standard	0%
Deviation	
CUDA	53.00
Mini-Nbody	7
- SOA Data	
Layout	
((NBody^2)/	
s)	
Standard	0.2%
Deviation	
CUDA	53.23
Mini-Nbody	1
- F.D.T.Z	
((NBody^2)/	
s)	
Standard	0.2%
Deviation	
Stress-NG -	1192
Crypto	
(Bogo	
Ops/s)	
Standard	1.1%
Deviation	

Stress-NG -	6418
Forking	
(Bogo	
Ops/s)	
Standard	0.9%
Deviation	
Stress-NG -	904.9
CPU Stress	7
(Bogo	
Ops/s)	
Standard	2.4%
Deviation	
Stress-NG -	1243
Matrix Math	5
(Bogo	
Ops/s)	
Standard	0.1%
Deviation	
Stress-NG -	4910
Vector	1
Math (Bogo	
Ops/s)	
Standard	0.4%
Deviation	
Stress-NG -	3232
Memory	
Copying	
(Bogo	
Ops/s)	
Standard	0.6%
Deviation	
Stress-NG -	2443
G.C.S.F	14
(Bogo	
Ops/s)	
Standard	2.9%
Deviation	
Stress-NG -	37.99
G.Q.D.S	
(Bogo	
Ops/s)	
Standard	10.2%
Deviation	

Flexible IO	4123	2470	7243	1410	5190	7720	8806
Tester -	1	0		0	0	0	7
Seq Read -							
Linux AIO -							
No - Yes -							
4KB (IOPS)							
Normalized	46.82	28.05	8.22%	16.01	58.93	87.66	100%
	%	%		%	%	%	
Standard	3.9%	0.4%	0.4%			0.2%	0.3%
Deviation							
Flexible IO	34	12	3	9	50	98	243
Tester -							
Seq Read -							
Linux AIO -							
No - Yes -							
8MB (IOPS)							
Normalized	13.99	4.94%	1.23%	3.7%	20.58	40.33	100%
	%				%	%	
Standard	3.3%						15.4%
Deviation							
Flexible IO	2413	6219	6362	5911	2160	6530	6296
Tester -	3				0	0	0
Seq Write -							
Linux AIO -							
No - Yes -							
4KB (IOPS)							
Normalized	36.96	9.52%	9.74%	9.05%	33.08	100%	96.42
	%				%		%
Standard	1.5%	2.9%	1.1%	3.8%		0.9%	4.6%
Deviation							
Flexible IO	13	2	3	5	9	32	32
Tester -							
Seq Write -							
Linux AIO -							
No - Yes -							
8MB (IOPS)							
Normalized	40.63	6.25%	9.38%	15.63	28.13	100%	100%
	%			%	%		
Standard	4.3%						
Deviation							
Flexible IO	161	96.5	28.3	54.8	203	301	344
Tester -							
Seq Read -							
Linux AIO -							
No - Yes -							
4KB (MB/s)							
Normalized	46.8%	28.05	8.23%	15.93	59.01	87.5%	100%
	%	%		%	%		
Standard	4%	0.3%	0.4%	1.2%		0.2%	0.3%
Deviation							

Flexible IO	302	121	52.7	102	427	816	1973
Tester -							
Seq Read -							
Linux AIO -							
No - Yes -							
8MB (MB/s)							
Normalized	15.31	6.13%	2.67%	5.17%	21.64	41.36	100%
%							
Standard	2.4%		1.3%			0.1%	15.2%
Deviation							
Flexible IO	94.0	24.3	24.9	23.1	84.4	255	246
Tester -							
Seq Write -							
Linux AIO -							
No - Yes -							
4KB (MB/s)							
Normalized	36.86	9.53%	9.76%	9.06%	33.1%	100%	96.47
%							%
Standard	2.1%	2.9%	1%	3.8%	0.1%	0.8%	4.4%
Deviation							
Flexible IO	135	38.3	48.8	65.9	103	285	285
Tester -							
Seq Write -							
Linux AIO -							
No - Yes -							
8MB (MB/s)							
Normalized	47.37	13.44	17.12	23.12	36.14	100%	100%
%		%	%	%	%		
Standard	1.1%	2.3%	0.8%	1.2%		0.4%	0.5%
Deviation							
Stream -							7043
Copy							9
Standard							0.8%
Deviation							
Stream -							7083
Scale							1
(MB/s)							
Standard							0.8%
Deviation							
Stream -							6330
Triad							1
Standard							0.6%
Deviation							
Stream -							6239
Add (MB/s)							5
Standard							0.7%
Deviation							

iPerf -		95.7	100	100	100	100.0
192.168.1.5						
- 5201 - 10						
Seconds -						
UDP -						
100Mbit						
Objective -						
1 (Mbits/s)						
Normalized		95.7%	100%	100%	100%	100%
Standard		0%				0.1%
Deviation						
iPerf -		95.7	95.7	949	956	956
192.168.1.5						124.4
- 5201 - 10						
Seconds -						
UDP -						
1000Mbit						
Objective -						
1 (Mbits/s)						
Normalized		10.01	10.01	99.27	100%	100%
		%	%	%		
Standard		0%	0%	0.2%		8.3%
Deviation						
GLmark2 -	6638					
800 x 600						
(Score)						
GLmark2 -	5177					
1024 x 768						
(Score)						
GLmark2 -	3732					
1280 x 1024						
(Score)						
GLmark2 -	2952					
1600 x 1200						
(Score)						
GLmark2 -	2716					
1920 x 1080						
(Score)						
GLmark2 -	2378					
1920 x 1200						
(Score)						
GLmark2 -	1639					
2560 x 1440						
(Score)						
GLmark2 -	832					
3840 x 2160						
(Score)						

Serial Loopback Test

/dev/ttyS2, /dev/ttyTHS0, /dev/ttyTHS1, /dev/ttyTHS4



CUDA Mini-Nbody 2015-11-10

Test: Original



CUDA Mini-Nbody 2015-11-10

Test: Cache Blocking



CUDA Mini-Nbody 2015-11-10

Test: Loop Unrolling



CUDA Mini-Nbody 2015-11-10

Test: SOA Data Layout



CUDA Mini-Nbody 2015-11-10

Test: Flush Denormals To Zero



Stress-NG 0.11.07

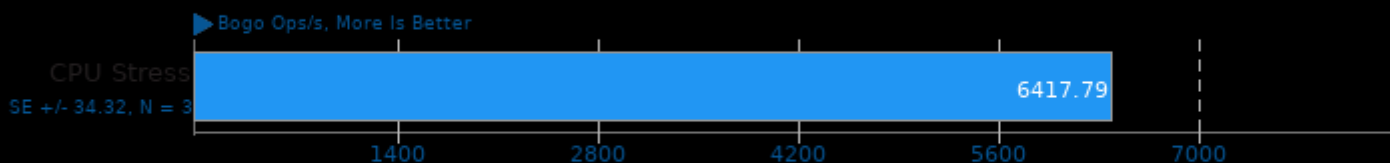
Test: Crypto



1, (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: Forking



1, (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

Test: CPU Stress



1, (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

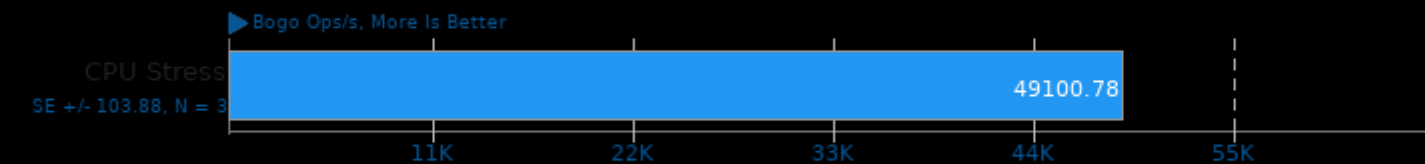
Test: Matrix Math



1, (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

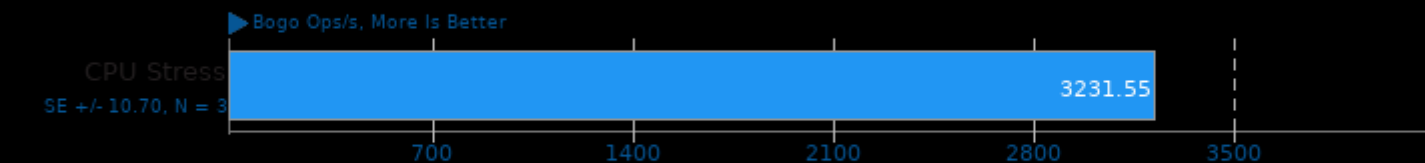
Test: Vector Math



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

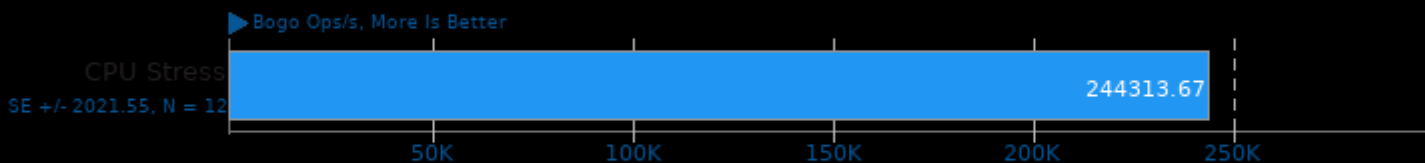
Test: Memory Copying



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

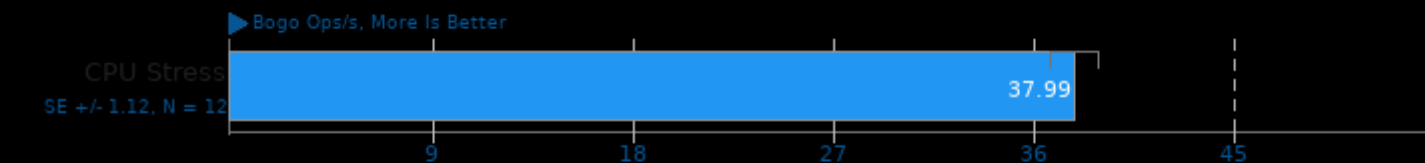
Test: Glibc C String Functions



1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc

Stress-NG 0.11.07

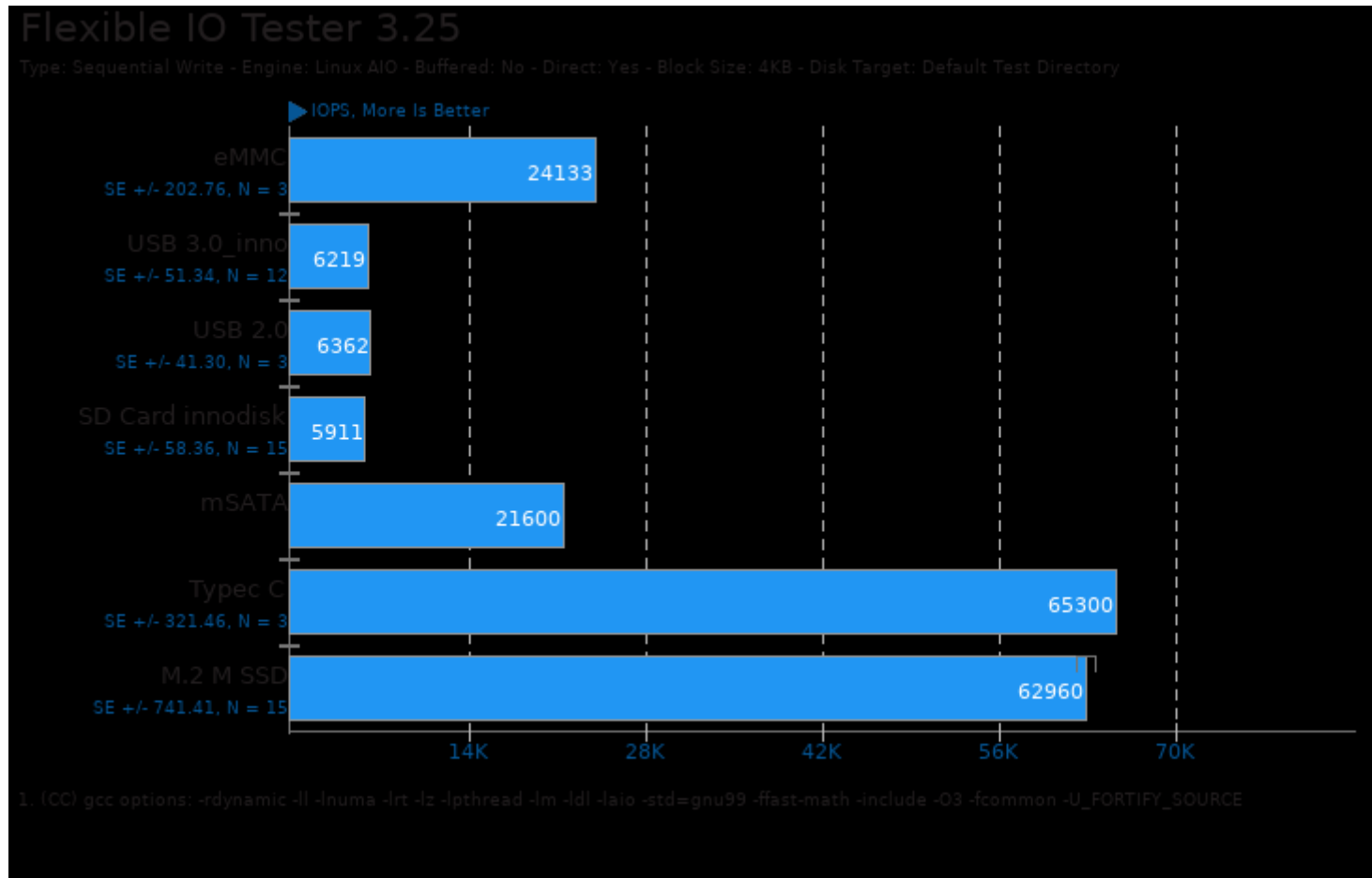
Test: Glibc Qsort Data Sorting

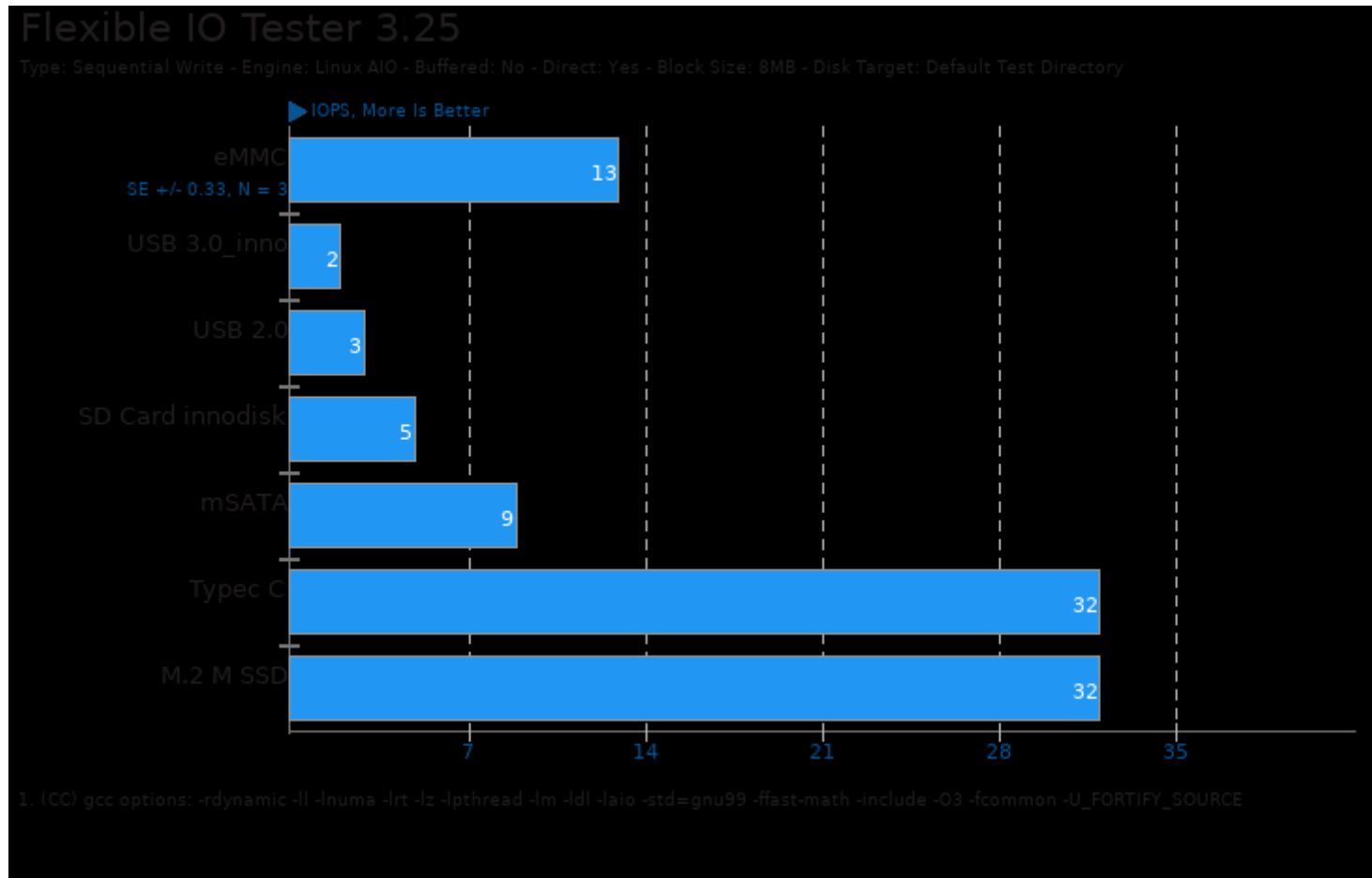


1. (CC) gcc options: -O2 -std=gnu99 -lm -laio -lcrypt -lrt -lz -ldl -lpthread -lc



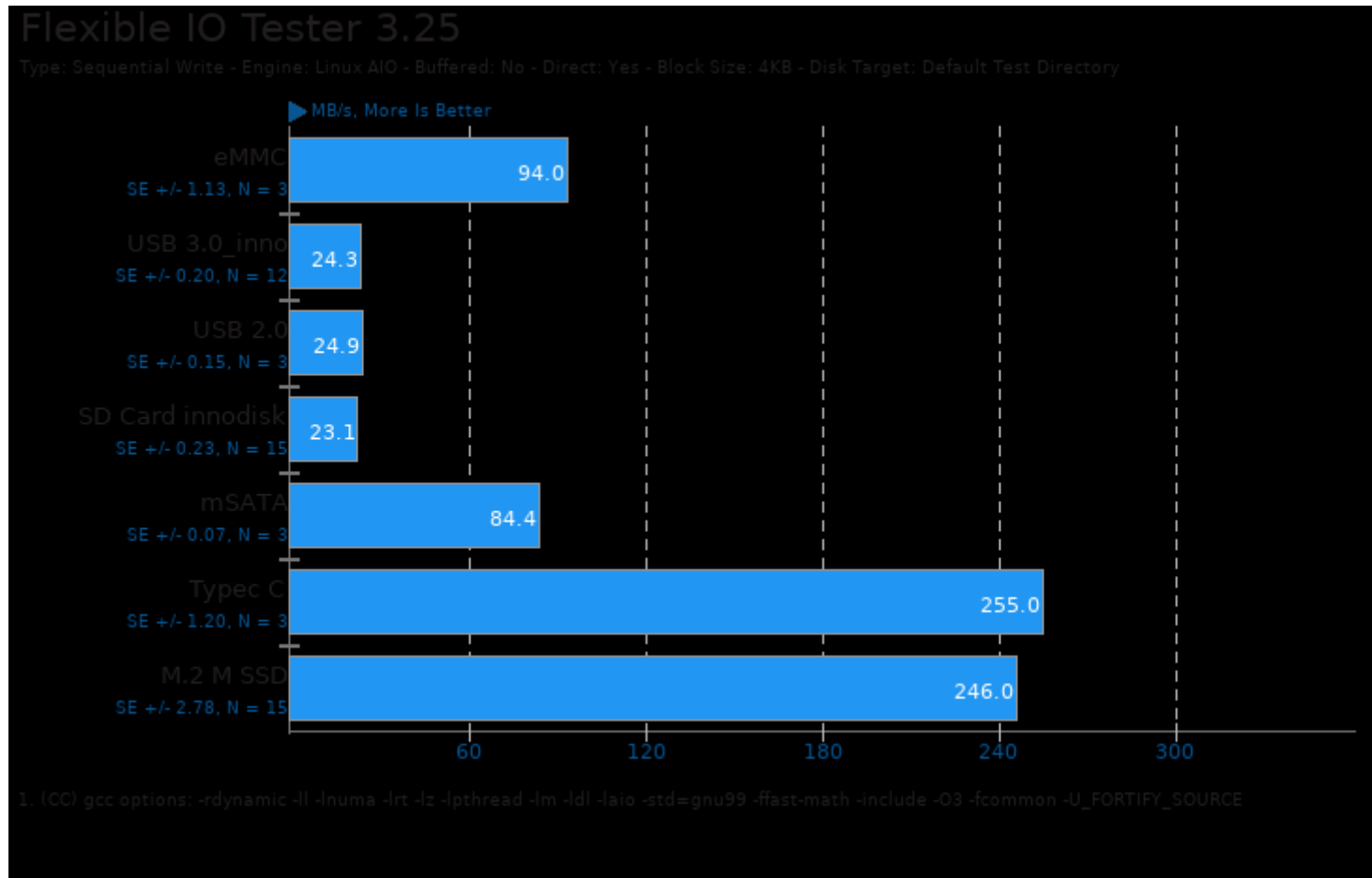






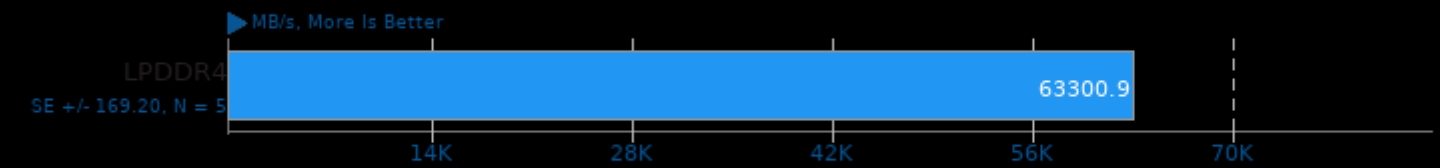






Stream 2013-01-17

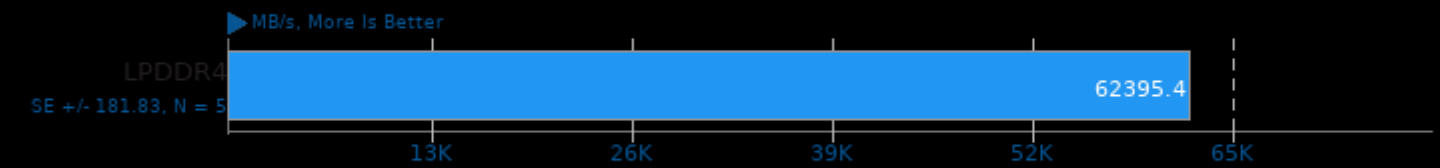
Type: Triad



1. (CC) gcc options: -O3 -march=native -fopenmp

Stream 2013-01-17

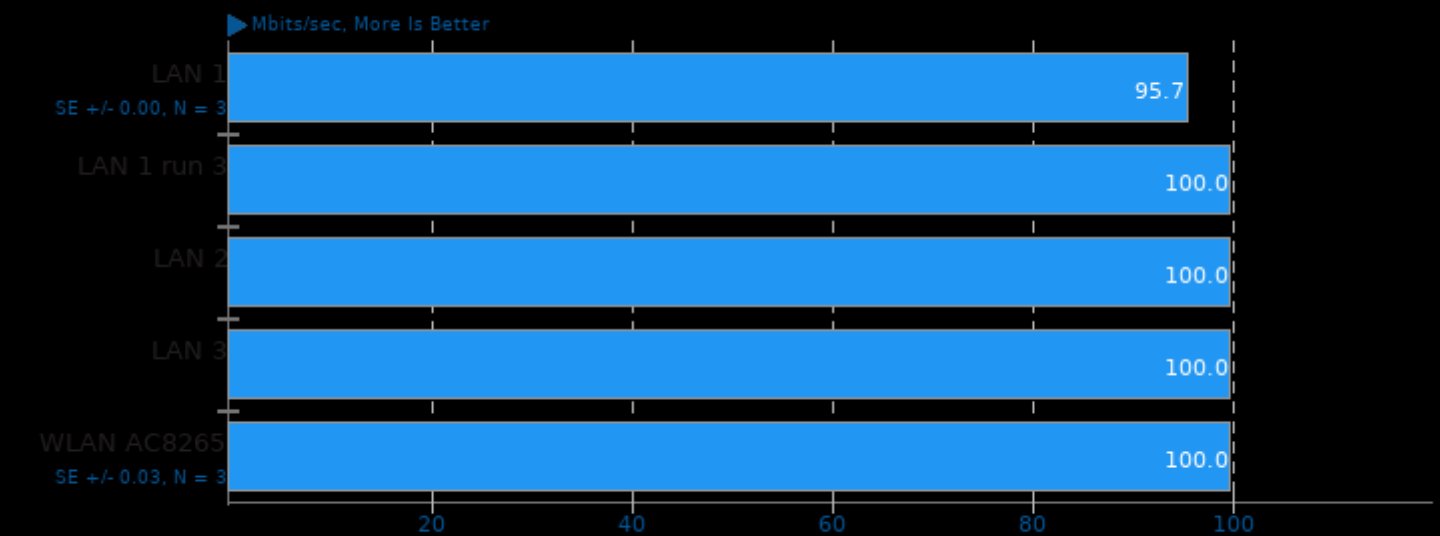
Type: Add



1. (CC) gcc options: -O3 -march=native -fopenmp

iPerf 3.7

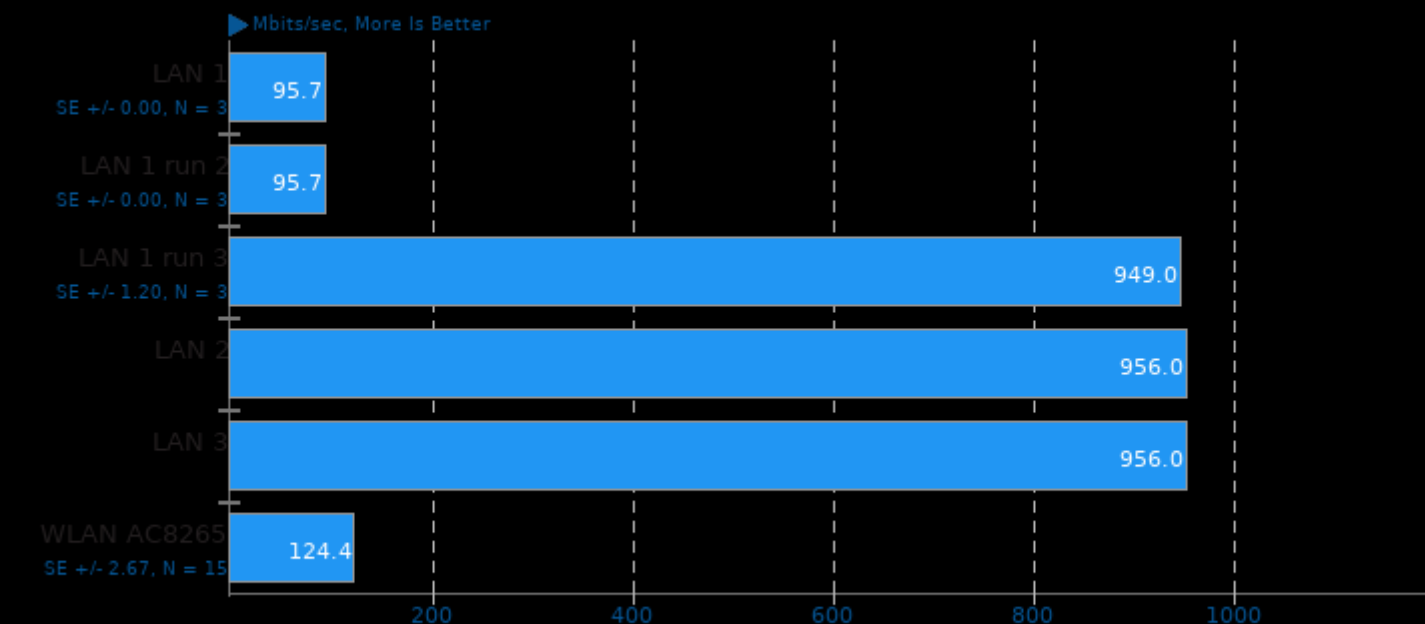
Server Address: 192.168.1.5 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 100Mbit Objective - Parallel: 1



1. (CC) gcc options: -O3 -march=native -lm

iPerf 3.7

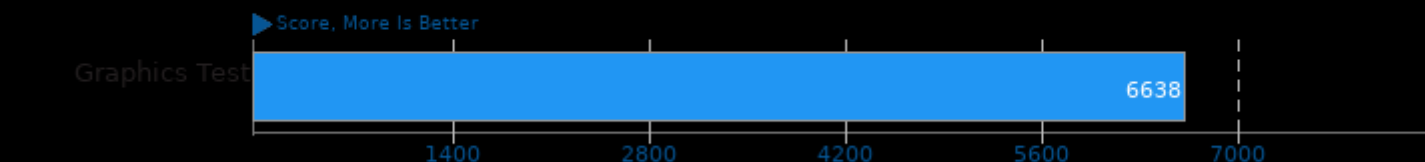
Server Address: 192.168.1.5 - Server Port: 5201 - Duration: 10 Seconds - Test: UDP - 1000Mbit Objective - Parallel: 1



1. (CC) gcc options: -O3 -march=native -lm

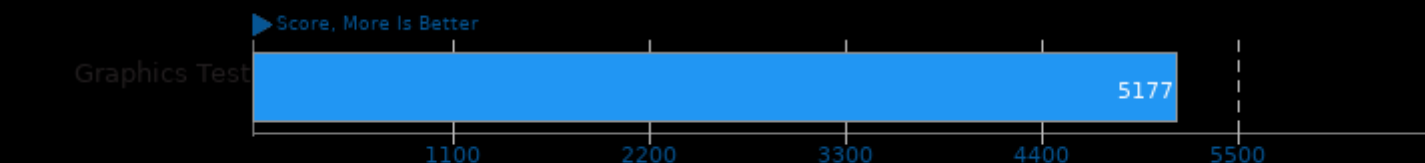
GLmark2 2020.04

Resolution: 800 x 600



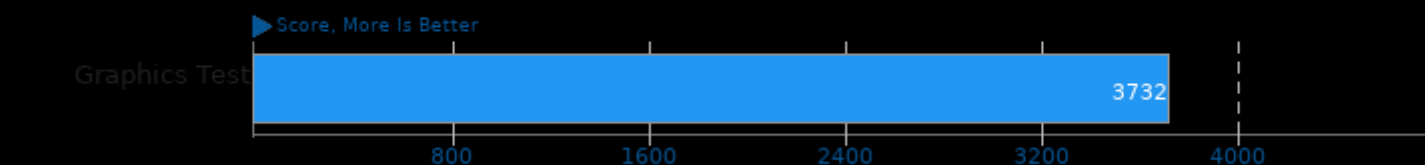
GLmark2 2020.04

Resolution: 1024 x 768



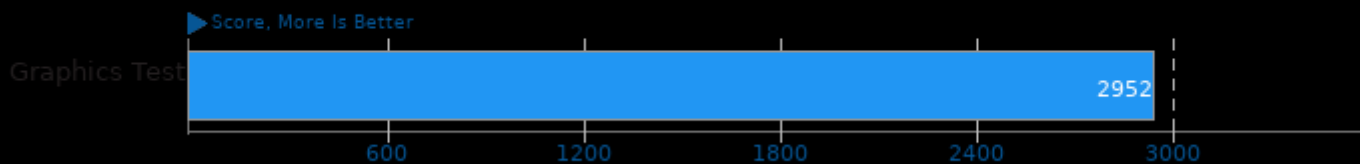
GLmark2 2020.04

Resolution: 1280 x 1024



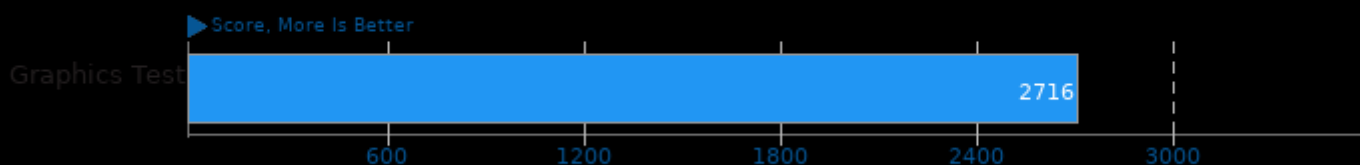
GLmark2 2020.04

Resolution: 1600 x 1200



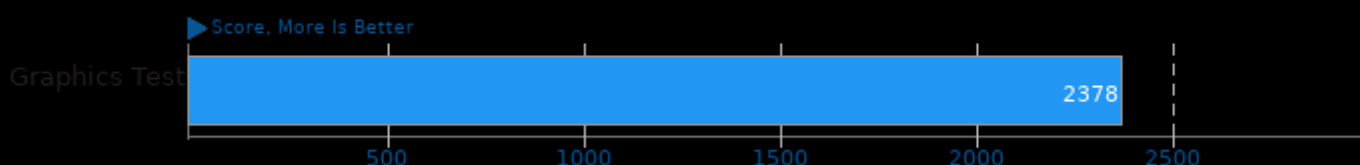
GLmark2 2020.04

Resolution: 1920 x 1080



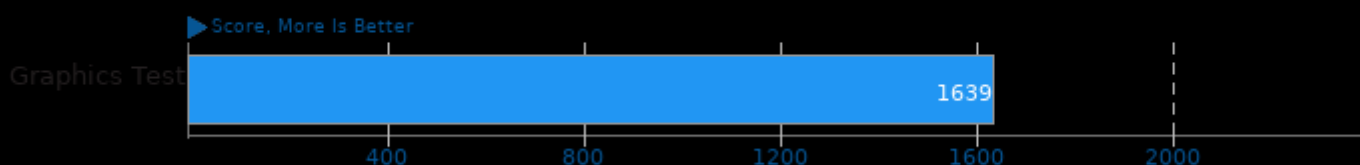
GLmark2 2020.04

Resolution: 1920 x 1200



GLmark2 2020.04

Resolution: 2560 x 1440



GLmark2 2020.04

Resolution: 3840 x 2160



This file was automatically generated via the Phoronix Test Suite benchmarking software on Monday, 23 December 2024 06:26.