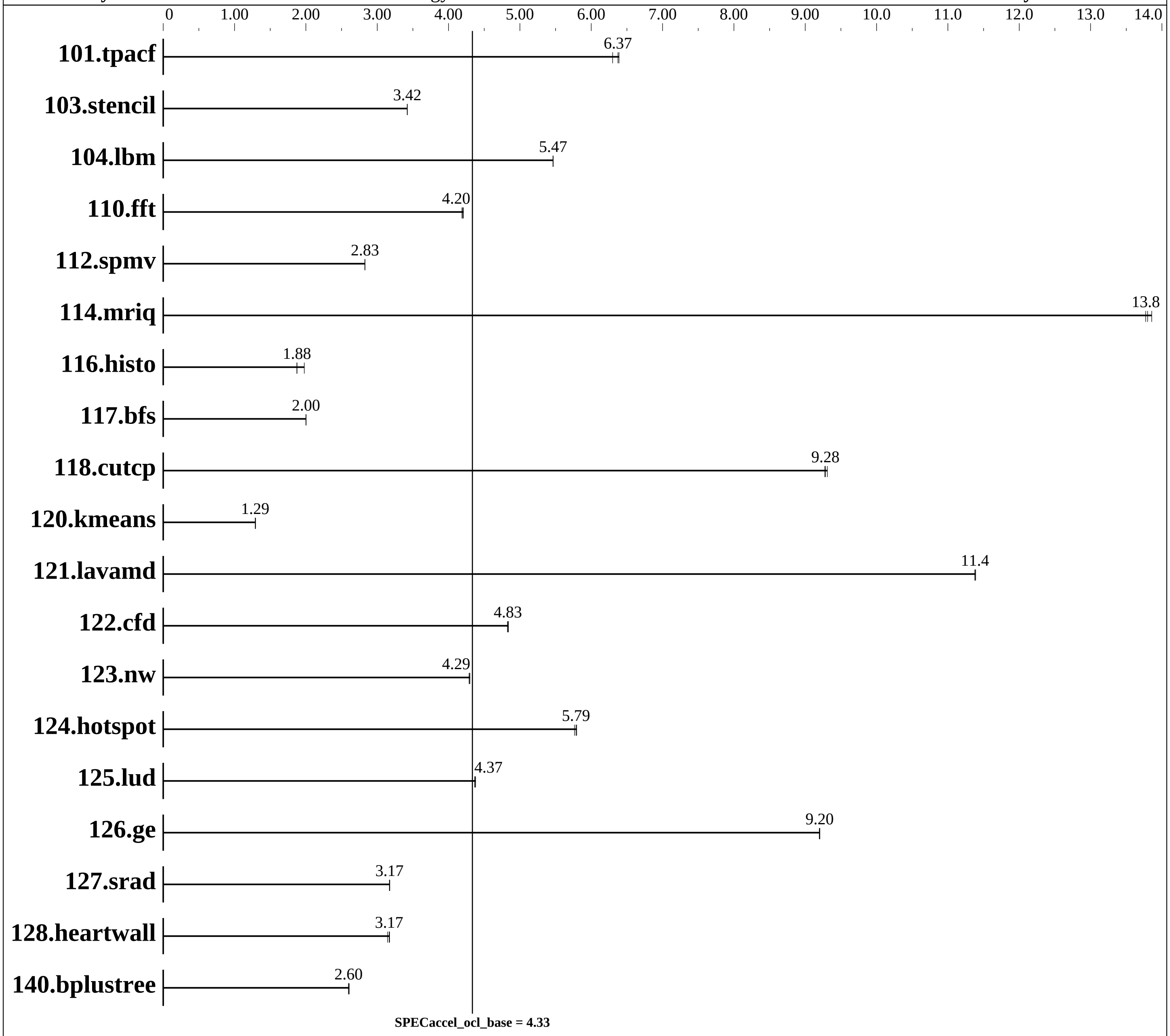
SPEC ACCEL™ OCL Result

Harsper Co.,LTD
NVIDIA GeForce GTX 1080
MG140-G1

SPECaccel_ocl_peak = Not Run

SPECaccel_ocl_base = 4.33

ACCEL license:	HPG068A	**Test date:**	May-2019
Test sponsor:	Harsper Co.,LTD	**Hardware Availability:**	Nov 2018
Tested by:	Telecommunications Technology Association	**Software Availability:**	Nov 2018



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Hardware

CPU Name:	Intel Xeon Silver 4110
CPU Characteristics:	Intel Turbo Boost Technology off. Hyper-threading on.
CPU MHz:	2100
CPU MHz Maximum:	2100
FPU:	integrated
CPU(s) enabled:	8 cores, 1 chip, 8 cores/chip, 2 threads/core
CPU(s) orderable:	1
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	1 MB I+D on chip per core
L3 Cache:	11 MB I+D on chip per chip
Other Cache:	None
Memory:	64 GB (4 x 16 GB 2Rx8 PC4-2666V-R)
Disk Subsystem:	1 x 250GB WDC WDS250G2B0B SATA 2 x 250GB SAMSUNG MZ7WD480HAGM-00003 RAID1
Other Hardware:	--

Accelerator

Accel Model Name:	GeForce GTX 1080
Accel Vendor:	NVIDIA
Accel Name:	NVIDIA GeForce GTX 1080
Type of Accel:	GPU
Accel Connection:	PCIe 3.0 16x
Does Accel Use ECC:	No
Accel Description:	NVIDIA GeForce GTX 1080, 2560 CUDA cores, 1556 MHz 8.0 GiB GDDR5 RAM
Accel Driver:	NVIDIA Driver Version 418.56

Software

Operating System:	CentOS Linux release 7.6.1810 (Core) 3.10.0-957.el7.x86_64
Compiler:	GCC version 4.8.5 20150623
File System:	xfs
System State:	Multi-user, run level 3
Other Software:	NVIDIA CUDA 10.1

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Results Table

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
101.tpacf	17.0	6.30	**16.8**	**6.37**	16.7	6.39						
103.stencil	**36.5**	**3.42**	36.5	3.42	36.5	3.42						
104.lbm	**20.5**	**5.47**	20.5	5.47	20.5	5.46						
110.fft	26.5	4.19	**26.4**	**4.20**	26.4	4.21						
112.spmv	52.0	2.83	**52.0**	**2.83**	52.0	2.83						
114.mriq	7.91	13.8	**7.90**	**13.8**	7.87	13.9						
116.histo	**60.8**	**1.88**	60.8	1.87	57.6	1.98						
117.bfs	**58.4**	**2.00**	58.5	2.00	58.4	2.00						
118.cutcp	10.7	9.27	**10.7**	**9.28**	10.6	9.31						
120.kmeans	**77.5**	**1.29**	77.6	1.29	77.2	1.29						
121.lavamd	9.57	11.4	9.58	11.4	**9.58**	**11.4**						
122.cfd	26.0	4.84	26.1	4.83	**26.1**	**4.83**						
123.nw	26.8	4.29	**26.8**	**4.29**	26.7	4.30						
124.hotspot	19.7	5.80	19.8	5.77	**19.7**	**5.79**						
125.lud	27.2	4.38	27.3	4.37	**27.2**	**4.37**						
126.ge	**16.8**	**9.20**	16.8	9.21	16.9	9.20						
127.srad	35.9	3.18	36.0	3.17	**35.9**	**3.17**						
128.heartwall	33.4	3.17	33.7	3.15	**33.5**	**3.17**						
140.bplustree	41.4	2.61	41.6	2.60	**41.5**	**2.60**						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

```
Sysinfo program /HPG/accel/Docs/sysinfo
$Rev: 6965 $ $Date:: 2015-04-21 #$ c05a7f14b1b1765e3fe1df68447e8a35
running on harsper Mon May 27 14:51:17 2019

This section contains SUT (System Under Test) info as seen by
some common utilities.  To remove or add to this section, see:
  http://www.spec.org/accel/Docs/config.html#sysinfo

From /proc/cpuinfo
   model name : Intel(R) Xeon(R) Silver 4110 CPU @ 2.10GHz
      1 "physical id"s (chips)
      16 "processors"
   cores, siblings (Caution: counting these is hw and system dependent.  The
   following excerpts from /proc/cpuinfo might not be reliable.  Use with
   caution.)
```

Continued on next page

Platform Notes (Continued)

```
      cpu cores : 8
      siblings  : 16
      physical 0: cores 0 1 2 3 4 5 6 7
   cache size : 11264 KB

From /proc/meminfo
   MemTotal:       65398344 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB

From /etc/*release* /etc/*version*
   centos-release: CentOS Linux release 7.6.1810 (Core)
   centos-release-upstream: Derived from Red Hat Enterprise Linux 7.6 (Source)
   os-release:
      NAME="CentOS Linux"
      VERSION="7 (Core)"
      ID="centos"
      ID_LIKE="rhel fedora"
      VERSION_ID="7"
      PRETTY_NAME="CentOS Linux 7 (Core)"
      ANSI_COLOR="0;31"
      CPE_NAME="cpe:/o:centos:centos:7"
   redhat-release: CentOS Linux release 7.6.1810 (Core)
   system-release: CentOS Linux release 7.6.1810 (Core)
   system-release-cpe: cpe:/o:centos:centos:7

uname -a:
   Linux harsper 3.10.0-957.el7.x86_64 #1 SMP Thu Nov 8 23:39:32 UTC 2018 x86_64
   x86_64 x86_64 GNU/Linux

run-level 3 May 14 12:57

SPEC is set to: /HPG/accel
   Filesystem              Type  Size  Used Avail Use% Mounted on
   /dev/mapper/centos-root xfs    50G   24G   27G  47% /
Additional information from dmidecode:

   Warning: Use caution when you interpret this section. The 'dmidecode' program
   reads system data which is "intended to allow hardware to be accurately
   determined", but the intent may not be met, as there are frequent changes to
   hardware, firmware, and the "DMTF SMBIOS" standard.

  BIOS American Megatrends Inc. 2.0b 02/26/2018
  Memory:
   2x NO DIMM NO DIMM
   4x Samsung M393A2K43BB1-CTD 16 GB 2 rank 2666 MT/s, configured at 2400 MT/s

(End of data from sysinfo program)
```

Base Runtime Environment

C benchmarks:
```
OpenCL Platform: NVIDIA CUDA, OpenCL 1.2 CUDA 10.1.133
OpenCL Device #0: GeForce GTX 1080, v 418.56
```

C++ benchmarks:
```
OpenCL Platform: NVIDIA CUDA, OpenCL 1.2 CUDA 10.1.133
OpenCL Device #0: GeForce GTX 1080, v 418.56
```

Base Compiler Invocation

C benchmarks:
```
gcc
```

C++ benchmarks:
```
g++
```

Base Portability Flags

116.histo: `-DSPEC_LOCAL_MEMORY_HEADROOM=2`

Base Optimization Flags

C benchmarks:
```
-O2 -I/usr/local/cuda/include -L/usr/local/cuda/lib64 -lOpenCL
```

C++ benchmarks:
```
-O2 -I/usr/local/cuda/include -L/usr/local/cuda/lib64 -lOpenCL
```

The flags file that was used to format this result can be browsed at
https://www.spec.org/accel/flags/gcc_flags.20190605.html

You can also download the XML flags source by saving the following link:
https://www.spec.org/accel/flags/gcc_flags.20190605.xml

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Tested with SPEC ACCEL v1.2.
Report generated on Wed Jun 5 18:50:16 2019 by SPEC ACCEL PS/PDF formatter v1290.
Originally published on 5 June 2019.