



SPEC ACCEL™ OCL Result

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UNIWIWIDE Technologies

(Test Sponsor: Telecommunications Technology Association)

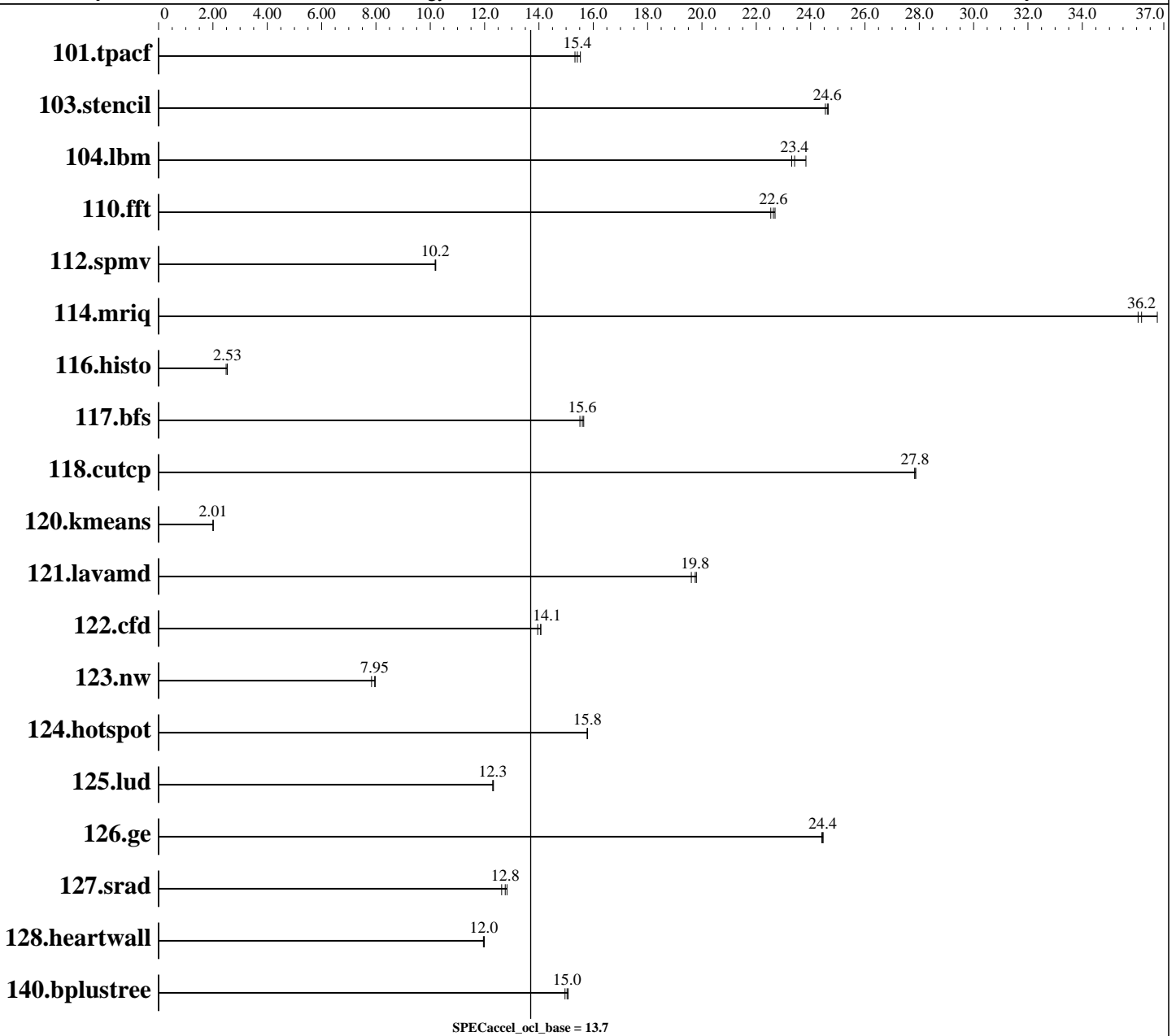
**NVIDIA Tesla A100-PCIE-40GB
RB228H-A100**

SPECaccel_ocl_peak = Not Run

SPECaccel_ocl_base = 13.7

ACCEL license: 068
Test sponsor: Telecommunications Technology Association
Tested by: Telecommunications Technology Association

Test date: Nov-2022
Hardware Availability: May-2020
Software Availability: Oct-2021





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Hardware

CPU Name: Intel Xeon E5-2669 v4
CPU Characteristics: Intel Turbo Boost Technology up to 3.60 GHz
CPU MHz: 2200
CPU MHz Maximum: 3600
FPU: Integrated
CPU(s) enabled: 44 cores, 2 chips, 22 cores/chip, 2 threads/core
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core
L3 Cache: 55 MB I+D on chip per chip
Other Cache: None
Memory: 512 GB (16 x 32 GB 2Rx4 PC4-2400T-R)
Disk Subsystem: 2 x 300 GB SEAGATE ST300MM0048 SAS RAID1
Other Hardware: Fujitsu PRAID EP400i

Accelerator

Accel Model Name: Tesla A100-PCIE-40GB
Accel Vendor: NVIDIA
Accel Name: NVIDIA Tesla A100-PCIE-40GB
Type of Accel: GPU
Accel Connection: PCIe 3.0 16x
Does Accel Use ECC: Yes
Accel Description: NVIDIA Tesla A100-PCIE-40GB
Accel Driver: NVIDIA Driver Version 460.106.00

Software

Operating System: CentOS Linux release 7.9.2009 (Core)
3.10.0-1160.el7.x86_64
Compiler: GCC version 4.8.5 20150623
File System: xfs
System State: Multi-user, run level 3
Other Software: NVIDIA CUDA 11.2



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Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
101.tpacf	6.94	15.4	6.89	15.5	6.98	15.3						
103.stencil	5.07	24.6	5.09	24.5	5.08	24.6						
104.lbm	4.70	23.8	4.81	23.3	4.78	23.4						
110.fft	4.89	22.7	4.91	22.6	4.93	22.5						
112.spmv	14.4	10.2	14.4	10.2	14.4	10.2						
114.mriq	3.02	36.1	2.97	36.8	3.01	36.2						
116.histo	45.1	2.53	45.0	2.53	45.8	2.49						
117.bfs	7.48	15.6	7.50	15.6	7.54	15.5						
118.cutcp	3.56	27.8	3.55	27.9	3.56	27.8						
120.kmeans	49.7	2.01	49.8	2.01	49.9	2.00						
121.lavamd	5.52	19.8	5.56	19.6	5.51	19.8						
122.cfd	8.96	14.1	9.03	14.0	8.96	14.1						
123.nw	14.7	7.84	14.5	7.95	14.4	7.97						
124.hotspot	7.23	15.8	7.22	15.8	7.22	15.8						
125.lud	9.65	12.3	9.67	12.3	9.67	12.3						
126.ge	6.35	24.4	6.34	24.5	6.34	24.4						
127.srad	8.89	12.8	8.93	12.8	9.03	12.6						
128.heartwall	8.84	12.0	8.85	12.0	8.87	12.0						
140.bplustree	7.16	15.1	7.18	15.0	7.22	15.0						

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

Platform Notes

```
Sysinfo program /home/tta0801/accel-1.4/Docs/sysinfo
$Rev: 6965 $ $Date:: 2015-04-21 #$ c05a7f14b1b1765e3fe1df68447e8a35
running on uniwide Wed Nov 16 07:31:11 2022
```

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) CPU E5-2699 v4 @ 2.20GHz
 2 "physical id"s (chips)
 88 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The
following excerpts from /proc/cpuinfo might not be reliable. Use with
caution.)
```

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Platform Notes (Continued)

```

cpu cores : 22
siblings  : 44
physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 16 17 18 19 20 21 24 25 26 27
28
physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 16 17 18 19 20 21 24 25 26 27
28
cache size : 56320 KB

From /proc/meminfo
MemTotal:      528281152 kB
HugePages_Total:      0
Hugepagesize:    2048 kB

From /etc/*release* /etc/*version*
centos-release: CentOS Linux release 7.9.2009 (Core)
centos-release-upstream: Derived from Red Hat Enterprise Linux 7.8 (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 7.9.2009 (Core)
system-release: CentOS Linux release 7.9.2009 (Core)
system-release-cpe: cpe:/o:centos:centos:7

uname -a:
Linux uniwide 3.10.0-1160.el7.x86_64 #1 SMP Mon Oct 19 16:18:59 UTC 2020
x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Nov 14 05:27

SPEC is set to: /home/tta0801/accel-1.4
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/centos-home xfs  224G   20G  204G   9% /home
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.

(End of data from sysinfo program)

```



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General Notes

=====

Spectre and Meltdown

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

Base Runtime Environment

C benchmarks:

OpenCL Platform: NVIDIA CUDA, OpenCL 1.2 CUDA 11.2.162

OpenCL Device #0: A100-PCIE-40GB, v 460.106.00

C++ benchmarks:

OpenCL Platform: NVIDIA CUDA, OpenCL 1.2 CUDA 11.2.162

OpenCL Device #0: A100-PCIE-40GB, v 460.106.00

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



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The flags file that was used to format this result can be browsed at

https://www.spec.org/accel/flags/gcc_flags.20221205.00.html

You can also download the XML flags source by saving the following link:

https://www.spec.org/accel/flags/gcc_flags.20221205.00.xml

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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC ACCEL v1.4.
Report generated on Mon Dec 5 10:45:22 2022 by SPEC ACCEL PS/PDF formatter v1290.
Originally published on 1 December 2022.