**Myoungin Inno**  
(Test Sponsor: Telecommunications Technology Association)

**NVIDIA Tesla V100-PCIE-16GB**  
**GMR2208KS-D140**

**SPECaccelocl_peak = Not Run**  
**SPECaccelocl_base = 10.6**

---

**ACCEL license:** HPG068A        **Test date:** Oct-2020  
**Test sponsor:** Telecommunications Technology Association  
**Tested by:** Telecommunications Technology Association

<table>
<thead>
<tr>
<th>SPEC ACCEL™ OCL Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>101.tpacf</td>
</tr>
<tr>
<td>103.stencil</td>
</tr>
<tr>
<td>104.lbm</td>
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<tr>
<td>110.fft</td>
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<tr>
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(Test Sponsor: Telecommunications Technology Association)

**NVIDIA Tesla V100-PCIE-16GB**  
**GMR2208KS-D140**

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<table>
<thead>
<tr>
<th>Hardware</th>
<th>Accelerator</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCEL license: HPG068A</td>
<td>Test date: Oct-2020</td>
</tr>
<tr>
<td>Test sponsor: Telecommunications Technology Association</td>
<td>Hardware Availability: May 2018</td>
</tr>
<tr>
<td>Tested by: Telecommunications Technology Association</td>
<td>Software Availability: May 2018</td>
</tr>
</tbody>
</table>

**Hardware**
- CPU Name: Intel Xeon Gold 6140
- CPU Characteristics: Hyper-threading off.
- CPU MHz: 2300
- CPU MHz Maximum: 3700
- FPU: --
- CPU(s) enabled: 36 cores, 2 chips, 18 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: 1024 KB I+D on chip per core
- L3 Cache: 24.75 MB I+D on chip per chip
- Other Cache: None
- Memory: 384GB (12 x 32 GB 2Rx4 PC4-2666V-R)
- Disk Subsystem: 2 300GB TOSHIBA AL14SEB030N SAS RAID1
- Other Hardware: --

**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 11.0

**Accelerator**
- Accel Model Name: Tesla V100-PCIE-16GB
- Accel Vendor: NVIDIA Corporation
- Accel Name: NVIDIA Tesla V100-PCIE-16GB
- Type of Accel: GPU
- Accel Connection: PCIe 3.0 16x
- Does Accel Use ECC: Yes
- Accel Description: NVIDIA Tesla V100-PCIE-16GB, 5120 CUDA cores, 1245 MHz, 16GB HBM2 RAM
- Accel Driver: NVIDIA Driver Version 450.51.05
## SPEC ACCEL OCL Result

Myoungin Inno  
(Test Sponsor: Telecommunications Technology Association)

NVIDIA Tesla V100-PCIE-16GB  
GMR2208KS-D140

**SPECaccel_ocl_peak = Not Run**  
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### Results Table

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<tr>
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<th>Ratio</th>
<th>Seconds</th>
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</tbody>
</table>

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

### Platform Notes

Sysinfo program /usr/accel-1.3/Docs/sysinfo  
$Rev: 6965 $ $Date:: 2015-04-21 #$ c05a7f14b1b1765e3fe1df68447e8a35  
running on gmr2208ks-d140 Thu Oct 15 10:08:54 2020

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) Gold 6140 CPU @ 2.30GHz  
2 "physical id"s (chips)  
36 "processors" cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
## SPEC ACCEL OCL Result

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**NVIDIA Tesla V100-PCIE-16GB**  
**GMR2208KS-D140**

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</tbody>
</table>

### SPECaccel_ocl_peak

| SPECaccel_ocl_peak = | Not Run |

| SPECaccel_ocl_base = | 10.6 |

### Platform Notes (Continued)

- **cpu cores**: 18  
- **siblings**: 18  
- **physical 0**: cores 0 1 2 3 4 8 9 10 11 16 17 18 19 20 24 25 26 27  
- **physical 1**: cores 0 1 2 3 4 8 9 10 11 16 17 18 19 20 24 25 26 27  
- **cache size**: 25344 KB

From `/proc/meminfo`

| MemTotal: | 394673500 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 gmr2208ks-d140 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 Oct 12 16:17
```

### SPEC is set to: /usr/accel-1.3

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Type</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/mapper/centos-root</td>
<td>xfs</td>
<td>50G</td>
<td>25G</td>
<td>26G</td>
<td>49%</td>
<td>/</td>
</tr>
</tbody>
</table>

### 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. KM-H620-103B-SA2 02/21/2019  
- **Memory**:
  - 12x NO DIMM NO DIMM  
  - 12x Samsung M393A4K40CB2-CTD 32 GB 2 rank 2666 MT/s

(End of data from sysinfo program)
Myoungin Inno  
(Test Sponsor: Telecommunications Technology Association)

NVIDIA Tesla V100-PCIE-16GB  
GMR2208KS-D140

**SPECaccel_ocl_peak** = Not Run

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**ACCEL license:** HPG068A  
**Test date:** Oct-2020

**Test sponsor:** Telecommunications Technology Association  
**Hardware Availability:** May 2018

**Tested by:** Telecommunications Technology Association  
**Software Availability:** May 2018

---

**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 11.0.197  
OpenCL Device #0: Tesla V100-PCIE-16GB, v 450.51.05

C++ benchmarks:  
OpenCL Platform: NVIDIA CUDA, OpenCL 1.2 CUDA 11.0.197  
OpenCL Device #0: Tesla V100-PCIE-16GB, v 450.51.05

---

**Base Compiler Invocation**

C benchmarks:  
```
gcc
```

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

---

**Base Portability Flags**

```
116.histo: -DSPEC_LOCAL_MEMORY_HEADROOM=2
```

---

**Base Optimization Flags**

C benchmarks:  
```
-02 -I/usr/local/cuda/include -L/usr/local/cuda/lib64 -lOpenCL
```

C++ benchmarks:  
```
-02 -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.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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For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC ACCEL v1.3.
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