New H3C Technologies Co., Ltd. | SPECspeed®2017_fp_base = 186
H3C UniServer R6900 G3 (Intel Xeon Gold 6240) | SPECspeed®2017_fp_peak = 187

<table>
<thead>
<tr>
<th>CPU2017 License: 9066</th>
<th>Test Date: Aug-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor: New H3C Technologies Co., Ltd.</td>
<td>Hardware Availability: Mar-2019</td>
</tr>
<tr>
<td>Tested by: New H3C Technologies Co., Ltd.</td>
<td>Software Availability: May-2019</td>
</tr>
</tbody>
</table>

| Threads | Threads | 0 | 20 | 40 | 60 | 80 | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400 | 440 | 480 | 520 | 560 | 600 | 640 | 680 | 720 | 760 | 800 | 840 | 880 | 920 | 960 | 1000 |
|---------|---------|---|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 603.bwaves_s | 607.cactuBSSN_s | 619.lbm_s | 621.wrf_s | 627.cam4_s | 628.pop2_s | 638.imagick_s | 644.nab_s | 649.fotonik3d_s | 654.roms_s |
| 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| SPECspeed®2017_fp_base (186) | SPECspeed®2017_fp_peak (187) |

<table>
<thead>
<tr>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name: Intel Xeon Gold 6240</td>
</tr>
<tr>
<td>Max MHz: 3900</td>
</tr>
<tr>
<td>Nominal: 2600</td>
</tr>
<tr>
<td>Enabled: 72 cores, 4 chips</td>
</tr>
<tr>
<td>Orderable: 1,2,3,4 chips</td>
</tr>
<tr>
<td>Cache L1: 32 KB I + 32 KB D on chip per core</td>
</tr>
<tr>
<td>L2: 1 MB I+D on chip per core</td>
</tr>
<tr>
<td>L3: 24.75 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other: None</td>
</tr>
<tr>
<td>Memory: 384 GB (24 x 16 GB 2Rx8 PC4-2933V-R)</td>
</tr>
<tr>
<td>Storage: 1 x 960 GB SATA SSD</td>
</tr>
<tr>
<td>Other: None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS: Red Hat Enterprise Linux Server release 7.6 (Maipo) 3.10.0-957.el7.x86_64</td>
</tr>
<tr>
<td>Compiler: C/C++: Version 19.0.4.227 of Intel C/C++ Compiler Build 20190416 for Linux; Fortran: Version 19.0.4.227 of Intel Fortran Compiler Build 20190416 for Linux</td>
</tr>
<tr>
<td>Parallel: Yes</td>
</tr>
<tr>
<td>Firmware: Version 2.00.33 released Aug-2019 BIOS</td>
</tr>
<tr>
<td>File System: xfs</td>
</tr>
<tr>
<td>System State: Run level 3 (multi-user)</td>
</tr>
<tr>
<td>Base Pointers: 64-bit</td>
</tr>
<tr>
<td>Peak Pointers: 64-bit</td>
</tr>
<tr>
<td>Other: None</td>
</tr>
<tr>
<td>Power Management: BIOS set to prefer performance at the cost of additional power usage</td>
</tr>
</tbody>
</table>
New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G3 (Intel Xeon Gold 6240)

CPU2017 License: 9066  
Test Sponsor: New H3C Technologies Co., Ltd.  
Tested by: New H3C Technologies Co., Ltd.

Test Date: Aug-2020  
Hardware Availability: Mar-2019  
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Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>603.bwaves_s</td>
<td>72</td>
<td>70.3</td>
<td>839</td>
<td>70.9</td>
<td>833</td>
<td>69.9</td>
<td>844</td>
<td>72</td>
<td>71.1</td>
<td>830</td>
<td>70.6</td>
<td>835</td>
<td>71.8</td>
<td>822</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>72</td>
<td>79.5</td>
<td>210</td>
<td>79.4</td>
<td>210</td>
<td>80.4</td>
<td>207</td>
<td>72</td>
<td>79.8</td>
<td>209</td>
<td>79.3</td>
<td>210</td>
<td>79.6</td>
<td>209</td>
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<tr>
<td>619.lbm_s</td>
<td>72</td>
<td>34.9</td>
<td>150</td>
<td>35.1</td>
<td>149</td>
<td>35.0</td>
<td>150</td>
<td>72</td>
<td>35.4</td>
<td>148</td>
<td>35.2</td>
<td>149</td>
<td>34.5</td>
<td>152</td>
</tr>
<tr>
<td>621.wrf_s</td>
<td>72</td>
<td>94.7</td>
<td>140</td>
<td>95.2</td>
<td>139</td>
<td>94.7</td>
<td>140</td>
<td>72</td>
<td>95.3</td>
<td>139</td>
<td>95.9</td>
<td>138</td>
<td>96.8</td>
<td>137</td>
</tr>
<tr>
<td>627.cam4_s</td>
<td>72</td>
<td>63.0</td>
<td>141</td>
<td>63.1</td>
<td>141</td>
<td>62.6</td>
<td>142</td>
<td>72</td>
<td>63.8</td>
<td>139</td>
<td>62.9</td>
<td>141</td>
<td>62.2</td>
<td>142</td>
</tr>
<tr>
<td>628.pop2_s</td>
<td>72</td>
<td>191</td>
<td>62.0</td>
<td>187</td>
<td>63.5</td>
<td>188</td>
<td>63.3</td>
<td>72</td>
<td>185</td>
<td>64.2</td>
<td>188</td>
<td>63.3</td>
<td>193</td>
<td>61.5</td>
</tr>
<tr>
<td>638.imagick_s</td>
<td>72</td>
<td>73.1</td>
<td>197</td>
<td>74.0</td>
<td>195</td>
<td>72.3</td>
<td>200</td>
<td>72</td>
<td>70.3</td>
<td>205</td>
<td>74.3</td>
<td>194</td>
<td>70.9</td>
<td>204</td>
</tr>
<tr>
<td>644.nab_s</td>
<td>72</td>
<td>48.2</td>
<td>363</td>
<td>48.1</td>
<td>363</td>
<td>48.1</td>
<td>363</td>
<td>72</td>
<td>48.1</td>
<td>363</td>
<td>48.1</td>
<td>363</td>
<td>48.2</td>
<td>362</td>
</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>72</td>
<td>80.8</td>
<td>113</td>
<td>79.0</td>
<td>115</td>
<td>81.2</td>
<td>112</td>
<td>72</td>
<td>80.2</td>
<td>114</td>
<td>81.0</td>
<td>113</td>
<td>79.6</td>
<td>114</td>
</tr>
<tr>
<td>654.roms_s</td>
<td>72</td>
<td>81.4</td>
<td>193</td>
<td>86.1</td>
<td>183</td>
<td>83.1</td>
<td>189</td>
<td>72</td>
<td>81.2</td>
<td>194</td>
<td>81.4</td>
<td>193</td>
<td>85.3</td>
<td>185</td>
</tr>
</tbody>
</table>

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

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,compact"
LD_LIBRARY_PATH = "/home/speccpu/lib/intel64"
OMP_STACKSIZE = "192M"

General Notes

Binaries compiled on a system with 1x Intel Core i9-7900X CPU + 32GB RAM memory using Redhat Enterprise Linux 7.5

NA: 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.

Transparent Huge Pages enabled by default
Prior to runcpu invocation
Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches
### SPEC CPU®2017 Floating Point Speed Result

New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G3 (Intel Xeon Gold 6240)

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base</th>
<th>SPECspeed®2017_fp_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>186</td>
<td>187</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9066  
**Test Date:** Aug-2020  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Hardware Availability:** Mar-2019  
**Tested by:** New H3C Technologies Co., Ltd.  
**Software Availability:** May-2019

### Platform Notes

**BIOS settings:**
- Set Hyper Threading to Disabled
- Set SNC to Disabled
- Set IMC Interleaving to 2-way Interleave
- Set Patrol Scrub to Disabled

**Sysinfo program /home/spec/cpu/bin/sysinfo**  
Rev: r6365 of 2019-08-21 295195f888a3d7edble6e46a485a0011  
running on localhost.localdomain Thu Aug 27 14:41:56 2020

**SUT (System Under Test) info as seen by some common utilities.**
For more information on this section, see  
https://www.spec.org/cpu2017/Docs/config.html#sysinfo

From /proc/cpuinfo
- **model name:** Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz
- 4 "physical id"s (chips)
- 72 "processors"
- cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
  - 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
  - physical 2: cores 0 1 2 3 4 8 9 10 11 16 17 18 19 20 24 25 26 27
  - physical 3: cores 0 1 2 3 4 8 9 10 11 16 17 18 19 20 24 25 26 27

From lscpu:
- **Architecture:** x86_64
- **CPU op-mode(s):** 32-bit, 64-bit
- **Byte Order:** Little Endian
- **CPU(s):** 72
- **On-line CPU(s) list:** 0-71
- **Thread(s) per core:** 1
- **Core(s) per socket:** 18
- **Socket(s):** 4
- **NUMA node(s):** 4
- **Vendor ID:** GenuineIntel
- **CPU family:** 6
- **Model:** 85
- **Model name:** Intel(R) Xeon(R) Gold 6240 CPU @ 2.60GHz
- **Stepping:** 7
- **CPU MHz:** 1907.629
- **CPU max MHz:** 3900.0000
- **CPU min MHz:** 1000.0000
- **BogoMIPS:** 5200.00
- **Virtualization:** VT-x

(Continued on next page)
New H3C Technologies Co., Ltd.

H3C UniServer R6900 G3 (Intel Xeon Gold 6240)

**SPECspeed®2017_fp_base = 186**

**SPECspeed®2017_fp_peak = 187**

---

**CPU2017 License:** 9066

**Test Sponsor:** New H3C Technologies Co., Ltd.

**Test Date:** Aug-2020

**Hardware Availability:** Mar-2019

**Tested by:** New H3C Technologies Co., Ltd.

**Software Availability:** May-2019

---

**Platform Notes (Continued)**

L1d cache: 32K

L1i cache: 32K

L2 cache: 1024K

L3 cache: 25344K

NUMA node0 CPU(s): 0-17

NUMA node1 CPU(s): 18-35

NUMA node2 CPU(s): 36-53

NUMA node3 CPU(s): 54-71

Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov

pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdкомпонент tsc

lm constant_tsc art arch_perfmon pebs bts rep_good nop1 xtopology nonstop_tsc

aperfmon perf eagercpu pni pclmulqdq dtes64 monitor ds cpl vmx smx est tm2 ssse3 sdbg

fma cx16 xtrp pdcmt pdci dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes

xsve avx f16c rdrand lahf_lm abm 3dnowprefetch epb cat_l3 cdp_l3 intel_pinn

intel_pt ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vmxi flexpriority ept

vpid fsgsbase tsc_adjust bml1 hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a

avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt

xsavex xgetbv1 cqm_llc cqm_occup_llc cqm_mbb_total cqm_mbb_local dtherm ida arat pln

pts hwp hwp_act_window hwp_epp hwp_pkg_req pku ospke avx512_vnni spec_ctrl

intel_stibp flush_l1d arch_capabilities

/pro filepath

cache size : 25344 KB

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

available: 4 nodes (0-3)

node 0 cpus: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17

node 0 size: 96919 MB

node 0 free: 91268 MB

node 1 cpus: 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35

node 1 size: 98304 MB

node 1 free: 95122 MB

node 2 cpus: 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53

node 2 size: 98304 MB

node 2 free: 94967 MB

node 3 cpus: 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71

node 3 size: 98304 MB

node 3 free: 93372 MB

node distances:

node 0 1 2 3

0: 10 21 21 21

1: 21 10 21 21

2: 21 21 10 21

3: 21 21 21 10

From /proc/meminfo

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G3 (Intel Xeon Gold 6240)

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base</th>
<th>186</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_fp_peak</td>
<td>187</td>
</tr>
</tbody>
</table>

CPU2017 License: 9066  
Test Sponsor: New H3C Technologies Co., Ltd.  
Test Date: Aug-2020  
Hardware Availability: Mar-2019  
Tested by: New H3C Technologies Co., Ltd.  
Software Availability: May-2019

Platform Notes (Continued)

MemTotal: 394622384 kB  
HugePages_Total: 0  
Hugepagesize: 2048 kB

From /etc/*release* /etc/*version*

```
NAME="Red Hat Enterprise Linux Server"
VERSION="7.6 (Maipo)"
ID="rhel"
ID_LIKE="fedora"
VARIANT="Server"
VARIANT_ID="server"
VERSION_ID="7.6"
PRETTY_NAME="Red Hat Enterprise Linux Server 7.6 (Maipo)"
redhat-release: Red Hat Enterprise Linux Server release 7.6 (Maipo)
```

```
system-release: Red Hat Enterprise Linux Server release 7.6 (Maipo)
```

```
uname -a:
Linux localhost.localdomain 3.10.0-957.el7.x86_64 #1 SMP Thu Oct 4 20:48:51 UTC 2018
x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

```
CVE-2018-3620 (L1 Terminal Fault): Not affected
Microarchitectural Data Sampling: No status reported
CVE-2017-5754 (Meltdown): Not affected
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2017-5753 (Spectre variant 1): Mitigation: Load fences, __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced IBRS
```

run-level 3 Aug 27 10:08

SPEC is set to: /home/speccpu

```
<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/rhel-home</td>
<td>xfs</td>
<td>839G</td>
<td>26G</td>
<td>813G</td>
<td>4%</td>
<td>/home</td>
</tr>
</tbody>
</table>
```

From /sys/devices/virtual/dmi/id

```
BIOS: American Megatrends Inc. 2.00.33 08/22/2019
Vendor: New H3C Technologies Co., Ltd.
Product: H3C UniServer R6900 G3
Serial: 210235A3T0H204000004
```

Additional information from dmidecode follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G3 (Intel Xeon Gold 6240)

SPECspeed®2017_fp_base = 186
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Test Date: Aug-2020  
Hardware Availability: Mar-2019
Software Availability: May-2019

Platform Notes (Continued)

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.

Memory:
24x Micron 18ASF2G72PDZ-2G9E1 16 GB 2 rank 2933
24x NO DIMM NO DIMM

(End of data from sysinfo program)

Compiler Version Notes

C

619.lbm_s(base, peak) 638.imagick_s(base, peak)
644.nab_s(base, peak)

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

C++, C, Fortran

607.cactuBSSN_s(base, peak)

Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
64, Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

Fortran

603.bwaves_s(base, peak) 649.fotonik3d_s(base, peak)
654.roms_s(base, peak)

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
64, Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

Fortran, C

621.wrf_s(base, peak) 627.cam4_s(base, peak)
628.pop2_s(base, peak)

(Continued on next page)
SPEC CPU®2017 Floating Point Speed Result
Copyright 2017-2020 Standard Performance Evaluation Corporation

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Compiler Version Notes (Continued)

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:
icc -m64 -std=c11

Fortran benchmarks:
ifort -m64

Benchmarks using both Fortran and C:
ifort -m64 icc -m64 -std=c11

Benchmarks using Fortran, C, and C++:
icpc -m64 icc -m64 -std=c11 ifort -m64

Base Portability Flags

603.bwaves_s: -DSPEC_LP64
607.cactuBSSN_s: -DSPEC_LP64
619.lbm_s: -DSPEC_LP64
621.wrf_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
627.cam4_s: -DSPEC_LP64 -DSPEC_CASE_FLAG
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian -assume byterecl
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64
649.fotonik3d_s: -DSPEC_LP64
654.roms_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP

(Continued on next page)
Base Optimization Flags (Continued)

Fortran benchmarks:
-DSPEC_OPENMP -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp
-nostandard-realloc-lhs

Benchmarks using both Fortran and C:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
-nostandard-realloc-lhs

Benchmarks using Fortran, C, and C++:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
-nostandard-realloc-lhs

Peak Compiler Invocation

C benchmarks:
icc -m64 -std=c11

Fortran benchmarks:
ifort -m64

Benchmarks using both Fortran and C:
ifort -m64 icc -m64 -std=c11

Benchmarks using Fortran, C, and C++:
icpc -m64 icc -m64 -std=c11 ifort -m64

Peak Portability Flags
Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
New H3C Technologies Co., Ltd.  SPECspeed®2017_fp_base = 186
H3C UniServer R6900 G3 (Intel Xeon Gold 6240)  SPECspeed®2017_fp_peak = 187

CPU2017 License: 9066
Test Sponsor: New H3C Technologies Co., Ltd.
Test Date: Aug-2020
Hardware Availability: Mar-2019
Tested by: New H3C Technologies Co., Ltd.
Software Availability: May-2019

Peak Optimization Flags (Continued)

Fortran benchmarks:

603.bwaves_s: -prof-gen(pass 1) -prof-use(pass 2) -DSPEC_SUPPRESS_OPENMP
-DSPEC_OPENMP -O2 -xCORE-AVX512 -gopt-prefetch -ipo -O3
-ffinite-math-only -no-prec-div -gopt-mem-layout-trans=4
-qopenmp -nstandard-realloc-lhs
649.fotonik3d_s: Same as 603.bwaves_s
654.roms_s: -DSPEC_OPENMP -xCORE-AVX512 -ipo -O3 -no-prec-div
-gopt-prefetch -ffinite-math-only -gopt-mem-layout-trans=4
-qopenmp -nstandard-realloc-lhs

Benchmarks using both Fortran and C:

621.wrf_s: -prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX512
-gopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div
-gopt-mem-layout-trans=4 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -nstandard-realloc-lhs
627.cam4_s: -xCORE-AVX512 -ipo -O3 -no-prec-div -gopt-prefetch
-ffinite-math-only -gopt-mem-layout-trans=4 -qopenmp
-DSPEC_OPENMP -nstandard-realloc-lhs
628.pop2_s: Same as 621.wrf_s

Benchmarks using Fortran, C, and C++:

-xCORE-AVX512 -ipo -O3 -no-prec-div -gopt-prefetch
-ffinite-math-only -gopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
-nstandard-realloc-lhs

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/New_H3C-Platform-Settings-V1.4-CLX-RevB.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/New_H3C-Platform-Settings-V1.4-CLX-RevB.xml
# SPEC CPU®2017 Floating Point Speed Result

**New H3C Technologies Co., Ltd.**

**H3C UniServer R6900 G3 (Intel Xeon Gold 6240)**

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

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