**SPEC CPU®2017 Integer Speed Result**

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

H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

**SPECspeed®2017_int_base = 12.4**

**SPECspeed®2017_int_peak = 12.8**

---

**Threads**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>112</td>
<td>11.2</td>
<td>8.63</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>112</td>
<td>11.2</td>
<td>20.2</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>112</td>
<td>20.2</td>
<td></td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>112</td>
<td>6.39</td>
<td>18.1</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>112</td>
<td>15.1</td>
<td></td>
</tr>
<tr>
<td>625.x264_s</td>
<td>112</td>
<td>5.41</td>
<td></td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>112</td>
<td>18.5</td>
<td></td>
</tr>
<tr>
<td>641.leela_s</td>
<td>112</td>
<td>18.8</td>
<td></td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>112</td>
<td>27.6</td>
<td></td>
</tr>
<tr>
<td>657.xz_s</td>
<td>112</td>
<td>27.6</td>
<td></td>
</tr>
</tbody>
</table>

---

**Hardware**

- **CPU Name:** Intel Xeon Platinum 8380H
- **Max MHz:** 4300
- **Nominal:** 2900
- **Enabled:** 112 cores, 4 chips
- **Orderable:** 1,2,3,4 chips
- **Cache L1:** 32 KB I + 32 KB D on chip per core
- **Cache L2:** 1 MB I+D on chip per core
- **Cache L3:** 38.5 MB I+D on chip per chip
- **Memory:** 768 GB (48 x 16 GB 2Rx8 PC4-3200V-R)
- **Storage:** 1 x 1.0 TB SATA SSD
- **Other:** None

---

**Software**

- **OS:** Red Hat Enterprise Linux release 8.2 (Ootpa) 4.18.0-193.el8.x86_64
- **Compiler:** C/C++: Version 2021.1 of Intel oneAPI DPC++/C++
- **Parallel:** Yes
- **File System:** xfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 64-bit
- **Other:** jemalloc memory allocator V5.0.1
- **Power Management:** BIOS set to prefer performance at the cost of additional power usage.
## SPEC CPU®2017 Integer Speed Result

### New H3C Technologies Co., Ltd.

H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

---

**CPU2017 License:** 9066  
**Test Date:** Jun-2021  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Tested by:** New H3C Technologies Co., Ltd.

**Hardware Availability:** Sep-2020  
**Software Availability:** Dec-2020  

### 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>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>600.perlbench_s</td>
<td>112</td>
<td>246</td>
<td>7.23</td>
<td><strong>245</strong></td>
<td><strong>7.24</strong></td>
<td>244</td>
<td>7.28</td>
<td><strong>206</strong></td>
<td>8.63</td>
<td><strong>206</strong></td>
<td>8.63</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>112</td>
<td>357</td>
<td>11.2</td>
<td><strong>356</strong></td>
<td><strong>11.2</strong></td>
<td>356</td>
<td>11.2</td>
<td><strong>341</strong></td>
<td>11.7</td>
<td><strong>340</strong></td>
<td>11.7</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>112</td>
<td>149</td>
<td>10.9</td>
<td><strong>146</strong></td>
<td><strong>11.2</strong></td>
<td>145</td>
<td>11.2</td>
<td><strong>146</strong></td>
<td>11.2</td>
<td><strong>145</strong></td>
<td>11.2</td>
</tr>
<tr>
<td>623.xalancmk_s</td>
<td>112</td>
<td>94.0</td>
<td>15.1</td>
<td><strong>93.8</strong></td>
<td><strong>15.1</strong></td>
<td>93.8</td>
<td>15.1</td>
<td><strong>93.8</strong></td>
<td><strong>15.1</strong></td>
<td>93.8</td>
<td>15.1</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>112</td>
<td>97.7</td>
<td>18.1</td>
<td><strong>97.5</strong></td>
<td><strong>18.1</strong></td>
<td>97.3</td>
<td>18.1</td>
<td><strong>94.1</strong></td>
<td><strong>18.8</strong></td>
<td>93.8</td>
<td>18.8</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>112</td>
<td>225</td>
<td>6.38</td>
<td><strong>224</strong></td>
<td><strong>6.39</strong></td>
<td>224</td>
<td>6.40</td>
<td><strong>224</strong></td>
<td><strong>6.39</strong></td>
<td>224</td>
<td><strong>6.39</strong></td>
</tr>
<tr>
<td>641.leela_s</td>
<td>112</td>
<td>315</td>
<td>5.41</td>
<td><strong>315</strong></td>
<td><strong>5.41</strong></td>
<td>315</td>
<td>5.41</td>
<td>315</td>
<td>5.42</td>
<td><strong>315</strong></td>
<td><strong>5.41</strong></td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>112</td>
<td>159</td>
<td>18.5</td>
<td><strong>159</strong></td>
<td><strong>18.5</strong></td>
<td>159</td>
<td>18.5</td>
<td><strong>159</strong></td>
<td><strong>18.5</strong></td>
<td>159</td>
<td><strong>18.5</strong></td>
</tr>
<tr>
<td>657.xz_s</td>
<td>112</td>
<td><strong>224</strong></td>
<td>27.6</td>
<td><strong>224</strong></td>
<td><strong>27.6</strong></td>
<td>224</td>
<td>27.6</td>
<td>224</td>
<td>27.6</td>
<td>224</td>
<td>27.6</td>
</tr>
</tbody>
</table>

---

**SPECspeed®2017_int_base = 12.4**  
**SPECspeed®2017_int_peak = 12.8**

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,scatter"
- LD_LIBRARY_PATH = "/home/speccpu/lib/intel64:/home/speccpu/je5.0.1-64"
- MALLOC_CONF = "retain:true"
- OMP_STACKSIZE = "192M"

### General Notes

Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB RAM  
memory using Redhat Enterprise Linux 8.0  
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
```
jemalloc, a general purpose malloc implementation  
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

(Continued on next page)
New H3C Technologies Co., Ltd. | SPECspeed®2017_int_base = 12.4
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H) | SPECspeed®2017_int_peak = 12.8

CPU2017 License: 9066 | Test Date: Jun-2021
Test Sponsor: New H3C Technologies Co., Ltd. | Hardware Availability: Sep-2020
Tested by: New H3C Technologies Co., Ltd. | Software Availability: Dec-2020

General Notes (Continued)


Platform Notes

BIOS Settings:
Set Hyper-Threading to Disabled
Set Power Performance Tuning to BIOS Controls EPB
Set Energy Performance BIAS to Performance
Set Patrol Scrub to Disabled

Sysinfo program /home/speccpu/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e6a6a6f64d
running on localhost.localdomain Wed Jun 2 09:26:28 2021

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) Platinum 8380H CPU @ 2.90GHz
  4 "physical id"s (chips)
  112 "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 : 28
siblings : 28
  physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  physical 2: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  physical 3: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30

From lscpu from util-linux 2.32.1:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 112
On-line CPU(s) list: 0-111
Thread(s) per core: 1
Core(s) per socket: 28
Socket(s): 4
NUMA node(s): 4
Vendor ID: GenuineIntel

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

**SPEC CPU®2017 Integer Speed Result**

**New H3C Technologies Co., Ltd.**  
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

**SPECspeed®2017_int_base = 12.4**  
**SPECspeed®2017_int_peak = 12.8**

**CPU2017 License:** 9066  
**Test Date:** Jun-2021  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Tested by:** New H3C Technologies Co., Ltd.  
**Hardware Availability:** Sep-2020  
**Software Availability:** Dec-2020  

---

**Platform Notes (Continued)**

CPU family: 6  
Model: 85  
Model name: Intel(R) Xeon(R) Platinum 8380H CPU @ 2.90GHz  
Stepping: 11  
CPU MHz: 1061.742  
CPU max MHz: 4300.0000  
CPU min MHz: 1000.0000  
BogoMIPS: 5800.00  
Virtualization: VT-x  
L1d cache: 32K  
L1i cache: 32K  
L2 cache: 1024K  
L3 cache: 39424K  
NUMA node0 CPU(s): 0-27  
NUMA node1 CPU(s): 28-55  
NUMA node2 CPU(s): 56-83  
NUMA node3 CPU(s): 84-111  
Flags: fpu vme de pse tsc msr pae mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 dcp_l3 invpcid_single intel_pmm ssbd mba ibrs ibpb ibrs_enhanced tpr_shadow vnmi flexpriority ept vpd fp专心 tsc_adjust bmi1 hle avx2 smep bmi2  2ms invpcid rtm cqm mpx rdt_a avx512f avx512dq rdseed adx smap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occupa llc cqm_mbm_total cqm_mbm_local avx512_bf16 dtherm ida arat pin pts hwp hwp_act_window hwp_epp hwp_pkg_req pku ospke avx512_vnni md_clear flush_l1d arch_capabilities

/proc/cpuinfo cache data  
`cache size : 39424 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 18 19 20 21 22 23 24 25 26 27  
node 0 size: 191854 MB  
node 0 free: 191311 MB  
node 1 cpus: 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55  
node 1 size: 193529 MB  
node 1 free: 193275 MB  
node 2 cpus: 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83  
node 2 size: 193529 MB  
node 2 free: 191150 MB

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

| SPECspeed\textsuperscript{\copyright}2017_int_base | 12.4 |
| SPECspeed\textsuperscript{\copyright}2017_int_peak | 12.8 |

CPU2017 License: 9066  
Test Date: Jun-2021  
Test Sponsor: New H3C Technologies Co., Ltd.  
Hardware Availability: Sep-2020  
Tested by: New H3C Technologies Co., Ltd.  
Software Availability: Dec-2020

### Platform Notes (Continued)

node 3 cpus: 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111  
node 3 size: 193501 MB  
node 3 free: 193250 MB  
node distances:  
node 0 1 2 3  
0: 10 20 20 20  
1: 20 10 20 20  
2: 20 20 10 20  
3: 20 20 20 10  
From /proc/meminfo  
MemTotal: 790953852 kB  
HugePages_Total: 0  
Hugepagesize: 2048 kB  
/sbin/tuned-adm active  
Current active profile: throughput-performance  
/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has performance  
From /etc/*release* /etc/*version*  
os-release:  
NAME=\textquoteleft Red Hat Enterprise Linux\textquoteright  
VERSION=\textquoteleft 8.2 (Ootpa)\textquoteright  
ID=\textquoteleft rhel\textquoteright  
ID\_LIKE=\textquoteleft fedora\textquoteright  
VERSION\_ID=\textquoteleft 8.2\textquoteright  
PLATFORM\_ID=\textquoteleft platform:el8\textquoteright  
PRETTY\_NAME=\textquoteleft Red Hat Enterprise Linux 8.2 (Ootpa)\textquoteright  
ANSI\_COLOR=\textquoteleft 0;31\textquoteright  
redhat-release: Red Hat Enterprise Linux release 8.2 (Ootpa)  
system-release: Red Hat Enterprise Linux release 8.2 (Ootpa)  
system-release-cpe: cpe:/o:redhat:enterprise_linux:8.2:ga  
uname -a:  
Linux localhost.localdomain 4.18.0-193.el8.x86_64 #1 SMP Fri Mar 27 14:35:58 UTC 2020  
x86_64 x86_64 x86_64 GNU/Linux  
Kernel self-reported vulnerability status:  
CVE-2018-12207 (iTLB Multihit): Not affected  
CVE-2018-3620 (L1 Terminal Fault): Not affected  
Microarchitectural Data Sampling: Not affected  
CVE-2017-5754 (Meltdown): Not affected  
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store  

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

H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

**SPEC CPU®2017 Integer Speed Result**

| SPECspeed®2017_int_base = 12.4 | SPECspeed®2017_int_peak = 12.8 |

**CPU2017 License:** 9066

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

**Test Date:** Jun-2021

**Hardware Availability:** Sep-2020

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

**Software Availability:** Dec-2020

---

### Platform Notes (Continued)

- **Bypass disabled via prctl and seccomp**
- **Mitigation:** usercopy/swapsgs barriers and __user pointer sanitization
- **Mitigation:** Enhanced IBRS, IBPB: conditional, RSB filling
- **CVE-2017-5753 (Spectre variant 1):**
- **Mitigation:** usercopy/swapsgs barriers and __user pointer sanitization
- **CVE-2017-5715 (Spectre variant 2):**
- **CVE-2020-0543 (Special Register Buffer Data Sampling):** No status reported
- **CVE-2019-11135 (TSX Asynchronous Abort):** Not affected

---

**run-level 3 Jun 2 09:22**

**SPEC is set to:** /home/speccpu

- **Filesystem**:
  - Type: xfs
  - Size: 876G
  - Used: 203G
  - Avail: 674G
  - Use%: 24%
  - Mounted on /home

**From /sys/devices/virtual/dmi/id**

- **Product Family:** SYSTEM_FAMILY

**Additional information from dmidecode 3.2 follows.** 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.

**Memory:**

- 48x Micron 18ASF2G72PDZ-3G2E1 16 GB 2 rank 3200

**BIOS:**

- **BIOS Vendor:** American Megatrends International, LLC.
- **BIOS Version:** 5.15
- **BIOS Date:** 03/01/2021
- **BIOS Revision:** 5.19

(End of data from sysinfo program)

---

### Compiler Version Notes

```
C       | 600.perlbench_s(peak)
```

```
Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
```

```
C       | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)
```

(Continued on next page)
New H3C Technologies Co., Ltd.  SPEC CPU®2017 Integer Speed Result
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

| SPECspeed®2017_int_base = 12.4 |
| SPECspeed®2017_int_peak = 12.8 |

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

Test Date: Jun-2021
Hardware Availability: Sep-2020
Software Availability: Dec-2020

Compiler Version Notes (Continued)

<table>
<thead>
<tr>
<th>625.x264_s(base, peak) 657.xz_s(base, peak)</th>
</tr>
</thead>
</table>
| Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |

<table>
<thead>
<tr>
<th>C 600.perlbench_s(peak)</th>
</tr>
</thead>
</table>
| Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R)
  64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |

<table>
<thead>
<tr>
<th>C 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)</th>
</tr>
</thead>
</table>
| Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |

<table>
<thead>
<tr>
<th>C++ 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak)</th>
</tr>
</thead>
</table>
| Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
  Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |

<table>
<thead>
<tr>
<th>Fortran 648.exchange2_s(base, peak)</th>
</tr>
</thead>
</table>
| Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on
  Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |

Base Compiler Invocation

C benchmarks:
icx
### SPEC CPU®2017 Integer Speed Result

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

H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.4</td>
<td>12.8</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9066  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Tested by:** New H3C Technologies Co., Ltd.  
**Test Date:** Jun-2021  
**Hardware Availability:** Sep-2020  
**Software Availability:** Dec-2020

---

### Base Compiler Invocation (Continued)

**C++ benchmarks:**  
icpx

**Fortran benchmarks:**  
ifort

---

### Base Portability Flags

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbmk_s</td>
<td>-DSPEC_LP64 -DSPEC_LINUX_X64</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>-DSPEC_LP64 -DSPEC_LINUX</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>-DSPEC_LP64</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>-DSPEC_LP64</td>
</tr>
</tbody>
</table>

---

### Base Optimization Flags

**C benchmarks:**  

**C++ benchmarks:**  

**Fortran benchmarks:**  
-m64 -xCORE-AVX512 -O3 -ipo -no-prec-div -qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte -auto -mbranches-within-32B-boundaries
New H3C Technologies Co., Ltd. | SPECspeed®2017_int_base = 12.4
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H) | SPECspeed®2017_int_peak = 12.8

CPU2017 License: 9066 | Test Date: Jun-2021
Test Sponsor: New H3C Technologies Co., Ltd. | Hardware Availability: Sep-2020
Tested by: New H3C Technologies Co., Ltd. | Software Availability: Dec-2020

**Peak Compiler Invocation**

C benchmarks (except as noted below):
```
icx
600.perlbench_s: icc
```

C++ benchmarks:
```
icpx
```

Fortran benchmarks:
```
ifort
```

**Peak Portability Flags**

Same as Base Portability Flags

**Peak Optimization Flags**

C benchmarks:
```
600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)
-xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -fno-strict-overflow
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

602.gcc_s: -m64 -std=c11 -Wl,-z,muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX512 -flto
-Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

605.mcf_s: basepeak = yes

625.x264_s: -DSPEC_OPENMP -fiopenmp -std=c11 -m64 -Wl,-z,muldefs
-xCORE-AVX512 -flto -O3 -ffast-math
-qopt-mem-layout-trans=4 -fno-alias
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

657.xz_s: basepeak = yes
```
New H3C Technologies Co., Ltd.
H3C UniServer R6900 G5 (Intel Xeon Platinum 8380H)

Copyright 2017-2021 Standard Performance Evaluation Corporation

SPECspeed®2017_int_base = 12.4
SPECspeed®2017_int_peak = 12.8

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

Test Date: Jun-2021
Hardware Availability: Sep-2020
Software Availability: Dec-2020

Peak Optimization Flags (Continued)

C++ benchmarks:
620.omnetpp_s: basepeak = yes
623.xalancbmk_s: basepeak = yes
631.deepsjeng_s: basepeak = yes
641.leela_s: basepeak = yes

Fortran benchmarks:
648.exchange2_s: basepeak = yes

The flags files that were used to format this result can be browsed at

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/New_H3C-Platform-Settings-V1.0-CPX-RevC.xml

SPEC CPU and SPECspeed are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU®2017 v1.1.8 on 2021-06-01 21:26:28-0400.
Report generated on 2021-06-22 17:02:06 by CPU2017 PDF formatter v6442.
Originally published on 2021-06-22.