## SPEC CPU®2017 Integer Speed Result

### New H3C Technologies Co., Ltd.

**H3C UniServer B5700 G5 (Intel Xeon Gold 6348)**

**SPECspeed®2017_int_base = 11.9**

**SPECspeed®2017_int_peak = 12.2**

**CPU2017 License:** 9066

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

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

**Test Date:** Aug-2021

**Hardware Availability:** Jun-2021

**Software Availability:** Dec-2020

### Threads

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>8.29</td>
<td>12.2</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>11.0</td>
<td></td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>11.4</td>
<td></td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>12.0</td>
<td></td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td></td>
<td></td>
</tr>
<tr>
<td>625.x264_s</td>
<td>17.1</td>
<td></td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>5.94</td>
<td></td>
</tr>
<tr>
<td>641.leela_s</td>
<td>4.85</td>
<td></td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td></td>
<td>19.3</td>
</tr>
<tr>
<td>657.xz_s</td>
<td></td>
<td>23.8</td>
</tr>
</tbody>
</table>

### Hardware

**CPU Name:** Intel Xeon Gold 6348

**Max MHz:** 3500

**Nominal:** 2600

**Enabled:** 56 cores, 2 chips

**Orderable:** 1.2 Chips

**Cache L1:** 32 KB I + 48 KB D on chip per core

**L2:** 1.25 MB I+D on chip per core

**L3:** 42 MB I+D on chip per chip

**Other:** None

**Memory:** 1 TB (16 x 64 GB 2Rx4 PC4-3200AA-R)

**Storage:** 1 x 1.92 TB SATA SSD

**Other:** None

### Software

**OS:** Red Hat Enterprise Linux release 8.3 (Ootpa) 4.18.0-240.el8.x86_64

**Compiler:**
- C/C++: Version 2021.1 of Intel oneAPI DPC++/C++ Compiler Build 20201113 for Linux;
- Fortran: Version 2021.1 of Intel Fortran Compiler Classic Build 20201112 for Linux;
- C/C++: Version 2021.1 of Intel C/C++ Compiler Classic Build 20201112 for Linux

**Parallel:** Yes

**Firmware:** Version 5.27 released Jun-2021 BIOS

**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
New H3C Technologies Co., Ltd.  
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)  

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

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>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbmch_s</td>
<td>56</td>
<td>246</td>
<td>7.22</td>
<td><strong>248</strong></td>
<td><strong>7.16</strong></td>
<td>249</td>
<td>7.14</td>
<td>56</td>
<td>214</td>
<td><strong>8.29</strong></td>
<td>214</td>
<td><strong>8.29</strong></td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>56</td>
<td>361</td>
<td>11.0</td>
<td>365</td>
<td>10.9</td>
<td><strong>363</strong></td>
<td><strong>11.0</strong></td>
<td>56</td>
<td>351</td>
<td>11.4</td>
<td>349</td>
<td>11.4</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>56</td>
<td>234</td>
<td>20.1</td>
<td>237</td>
<td>19.9</td>
<td><strong>236</strong></td>
<td><strong>20.0</strong></td>
<td>56</td>
<td>234</td>
<td>20.1</td>
<td>237</td>
<td>19.9</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>56</td>
<td>135</td>
<td>12.0</td>
<td>135</td>
<td>12.1</td>
<td>141</td>
<td>11.6</td>
<td>56</td>
<td><strong>135</strong></td>
<td><strong>12.0</strong></td>
<td>135</td>
<td>12.1</td>
</tr>
<tr>
<td>623.xalanchmk_s</td>
<td>56</td>
<td>104</td>
<td>13.6</td>
<td><strong>105</strong></td>
<td><strong>13.6</strong></td>
<td>106</td>
<td>13.4</td>
<td>56</td>
<td>104</td>
<td>13.6</td>
<td><strong>105</strong></td>
<td><strong>13.6</strong></td>
</tr>
<tr>
<td>625.x264_s</td>
<td>56</td>
<td>103</td>
<td><strong>17.1</strong></td>
<td>103</td>
<td>17.1</td>
<td>103</td>
<td>17.2</td>
<td>56</td>
<td>98.6</td>
<td>17.9</td>
<td><strong>98.7</strong></td>
<td>17.9</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>56</td>
<td>241</td>
<td>5.94</td>
<td>241</td>
<td>5.93</td>
<td><strong>241</strong></td>
<td><strong>5.94</strong></td>
<td>56</td>
<td>241</td>
<td>5.94</td>
<td>241</td>
<td>5.93</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>56</td>
<td>351</td>
<td>4.86</td>
<td>352</td>
<td>4.85</td>
<td><strong>352</strong></td>
<td><strong>4.85</strong></td>
<td>56</td>
<td>351</td>
<td>4.86</td>
<td>352</td>
<td>4.85</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>56</td>
<td><strong>152</strong></td>
<td><strong>19.3</strong></td>
<td>152</td>
<td>19.4</td>
<td>152</td>
<td>19.3</td>
<td>56</td>
<td><strong>152</strong></td>
<td><strong>19.3</strong></td>
<td>152</td>
<td>19.4</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>56</td>
<td><strong>259</strong></td>
<td><strong>23.8</strong></td>
<td>259</td>
<td>23.8</td>
<td>259</td>
<td>23.8</td>
<td>56</td>
<td><strong>259</strong></td>
<td><strong>23.8</strong></td>
<td>259</td>
<td>23.8</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,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
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
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.
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.
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

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

General Notes (Continued)

Platform Notes

BIOS Settings:
Set Hyper-Threading to disabled
Set Patrol Scrub to disabled

Sysinfo program /home/speccpu/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acaf64d
running on localhost.localdomain Mon Aug 30 19:51:51 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) Gold 6348 CPU @ 2.60GHz
2 "physical id"s (chips)
56 "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 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27
physical 1: cores 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

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): 56
On-line CPU(s) list: 0-55
Thread(s) per core: 1
Core(s) per socket: 28
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 106
Model name: Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz
Stepping: 6
CPU MHz: 1644.041
CPU max MHz: 3500.0000

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

**SPEC CPU®2017 Integer Speed Result**

**SPECspeed®2017_int_base = 11.9**  
**SPECspeed®2017_int_peak = 12.2**

<table>
<thead>
<tr>
<th>CPU2017 License:</th>
<th>9066</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor:</td>
<td>New H3C Technologies Co., Ltd.</td>
</tr>
<tr>
<td>Tested by:</td>
<td>New H3C Technologies Co., Ltd.</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Aug-2021</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Jun-2021</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Dec-2020</td>
</tr>
</tbody>
</table>

**Platform Notes (Continued)**

- **CPU min MHz:** 800.0000
- **BogoMIPS:** 5200.00
- **Virtualization:** VT-x
- **L1d cache:** 48K
- **L1i cache:** 32K
- **L2 cache:** 1280K
- **L3 cache:** 43008K
- **NUMA node0 CPU(s):** 0-27
- **NUMA node1 CPU(s):** 28-55
- **Flags:** fpu vme de pse tsc msr pae mce cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtsscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xturbation nonstop_tsc cpuid aperfmperf pm pmlinux pmlinux_mm ioapic smp cmov pres scaling cpuid arch_capabilities

/proc/cpuinfo cache data

```
cache size : 43008 KB
```

From numactl --hardware

```
WARNING: a numactl 'node' might or might not correspond to a physical chip.
available: 2 nodes (0-1)
note 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: 491582 MB
node 0 free: 513260 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
node 1 size: 491774 MB
node 1 free: 512984 MB
node distances:
node 0 1
0: 10 20
1: 20 10
```

From /proc/meminfo

```
MemTotal: 1056228660 kB
HugePages_Total: 0
Hugepagesize: 2048 kB
```

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

| SPECspeed®2017_int_base | 11.9 |
| SPECspeed®2017_int_peak | 12.2 |

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

Platform Notes (Continued)

```
/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="Red Hat Enterprise Linux"
    VERSION="8.3 (Ootpa)"
    ID="rhel"
    ID_LIKE="fedora"
    VERSION_ID="8.3"
    PLATFORM_ID="platform:el8"
    PRETTY_NAME="Red Hat Enterprise Linux 8.3 (Ootpa)"
    ANSI_COLOR="0;31"
redhat-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
system-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
system-release-cpe: cpe:/o:redhat:enterprise_linux:8.3:ga

uname -a:
  Linux localhost.localdomain 4.18.0-240.el8.x86_64 #1 SMP Wed Sep 23 05:13:10 EDT 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): Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2018-3639 (Speculative Store Bypass): Mitigation: usercopy/swaps barriers and __user pointer sanitization
CVE-2017-5753 (Spectre variant 1): Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
CVE-2017-5715 (Spectre variant 2): Not affected
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

SPEC is set to: /home/speccpu
Files
  Filesystem Type Size Used Avail Use% Mounted on
  /dev/mapper/rhel-home xfs 1.7T 125G 1.6T 8% /home

From /sys/devices/virtual/dmi/id
```

(Continued on next page)
SPEC CPU®2017 Integer Speed Result
Copyright 2017-2021 Standard Performance Evaluation Corporation

New H3C Technologies Co., Ltd.
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

SPECspeed®2017_int_base = 11.9
SPECspeed®2017_int_peak = 12.2

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

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

Platform Notes (Continued)

Vendor: New H3C Technologies Co., Ltd.
Product: B5700 G5
Product Family: Rack
Serial: 210235A3W9H212000013

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 SMI BIOS" standard.

Memory:
16x NO DIMM NO DIMM
16x Samsung M393A8G40BB4-CWE 64 GB 2 rank 3200

BIOS:
BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 5.27
BIOS Date: 06/07/2021
BIOS Revision: 5.22

(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)
         | 625.x264_s(base, peak) 657.xz_s(base, peak)
==============================================================================

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.
==============================================================================

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.

(Continued on next page)
New H3C Technologies Co., Ltd.
H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

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

 SPECspeed®2017_int_base = 11.9
 SPECspeed®2017_int_peak = 12.2

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

Compiler Version Notes (Continued)

C
600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)
625.x264_s(base, peak) 657.xz_s(base, peak)

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.

C++
620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak)
631.deepsjeng_s(base, peak) 641.leela_s(base, peak)

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.

Fortran
648.exchange2_s(base, peak)

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

C++ benchmarks:
icpx

Fortran benchmarks:
ifort

Base Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
602.gcc_s: -DSPEC_LP64

(Continued on next page)
## SPEC CPU®2017 Integer Speed Result

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

**H3C UniServer B5700 G5 (Intel Xeon Gold 6348)**

<table>
<thead>
<tr>
<th><strong>SPECspeed®2017_int_base</strong></th>
<th>11.9</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECspeed®2017_int_peak</strong></td>
<td>12.2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>CPU2017 License:</strong></th>
<th>9066</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test Sponsor:</strong></td>
<td>New H3C Technologies Co., Ltd.</td>
</tr>
<tr>
<td><strong>Tested by:</strong></td>
<td>New H3C Technologies Co., Ltd.</td>
</tr>
<tr>
<td><strong>Test Date:</strong></td>
<td>Aug-2021</td>
</tr>
<tr>
<td><strong>Hardware Availability:</strong></td>
<td>Jun-2021</td>
</tr>
<tr>
<td><strong>Software Availability:</strong></td>
<td>Dec-2020</td>
</tr>
</tbody>
</table>

### Base Portability Flags (Continued)

- 605.mcf_s: -DSPEC_LP64
- 620.omnetpp_s: -DSPEC_LP64
- 623.xalancbmk_s: -DSPEC_LP64 -DSPEC_LINUX
- 625.x264_s: -DSPEC_LP64
- 631.deepsjeng_s: -DSPEC_LP64
- 641.leela_s: -DSPEC_LP64
- 648.exchange2_s: -DSPEC_LP64
- 657.xz_s: -DSPEC_LP64

### Base Optimization Flags

**C benchmarks:**
- -DSPEC_OPENMP -std=c11 -m64 -fiopenmp -Wl,-z,muldefs -xCORE-AVX512
- -O3 -ffast-math -flto -mfpmath=sse -funroll-loops
- -qopt-mem-layout-trans=4 -mbranches-within-32B-boundaries
- -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

**C++ benchmarks:**
- -DSPEC_OPENMP -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
- -flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
- -mbranches-within-32B-boundaries
- -L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin/
  -lqkmalloc

**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

### Peak Compiler Invocation

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

**C++ benchmarks:**
- icpx

**Fortran benchmarks:**
- ifort
## SPEC CPU®2017 Integer Speed Result

New H3C Technologies Co., Ltd.

H3C UniServer B5700 G5 (Intel Xeon Gold 6348)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 11.9</th>
<th>SPECspeed®2017_int_peak = 12.2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>CPU2017 License: 9066</th>
<th>Test Date: Aug-2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor: New H3C Technologies Co., Ltd.</td>
<td>Hardware Availability: Jun-2021</td>
</tr>
<tr>
<td>Tested by: New H3C Technologies Co., Ltd.</td>
<td>Software Availability: Dec-2020</td>
</tr>
</tbody>
</table>

### Peak Portability Flags
Same as Base Portability Flags

### Peak Optimization Flags

#### C benchmarks:

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td><code>-Wl,-z,muldefs, -prof-gen(pass 1) -prof-use(pass 2)</code></td>
</tr>
<tr>
<td></td>
<td><code>-xCORE-AVX512 -ipo -O3 -no-prec-div</code></td>
</tr>
<tr>
<td></td>
<td><code>-qopt-mem-layout-trans=4 -fno-strict-overflow</code></td>
</tr>
<tr>
<td></td>
<td><code>-mbranches-within-32B-boundaries</code></td>
</tr>
<tr>
<td></td>
<td><code>-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>602.gcc_s</td>
<td><code>-m64</code></td>
</tr>
<tr>
<td></td>
<td><code>-std=c11 -Wl,-z,muldefs -fprofile-generate(pass 1)</code></td>
</tr>
<tr>
<td></td>
<td><code>-fprofile-use=default.profdata(pass 2) -xCORE-AVX512 -flto</code></td>
</tr>
<tr>
<td></td>
<td><code>-Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4</code></td>
</tr>
<tr>
<td></td>
<td><code>-mbranches-within-32B-boundaries</code></td>
</tr>
<tr>
<td></td>
<td><code>-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc</code></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>605.mcf_s</td>
<td>basepeak = yes</td>
</tr>
</tbody>
</table>

#### C++ benchmarks:

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>620.omnetpp_s</td>
<td>basepeak = yes</td>
</tr>
</tbody>
</table>

#### Fortran benchmarks:

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
</tr>
</thead>
<tbody>
<tr>
<td>648.exchange2_s</td>
<td>basepeak = yes</td>
</tr>
</tbody>
</table>
# SPEC CPU®2017 Integer Speed Result

<table>
<thead>
<tr>
<th>New H3C Technologies Co., Ltd.</th>
<th>SPECspeed®2017_int_base = 11.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>H3C UniServer B5700 G5 (Intel Xeon Gold 6348)</td>
<td>SPECspeed®2017_int_peak = 12.2</td>
</tr>
</tbody>
</table>

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

**Test Date:** Aug-2021  
**Hardware Availability:** Jun-2021  
**Software Availability:** Dec-2020

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-RevD.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 2021-08-30 19:51:51-0400.  
Report generated on 2021-09-14 19:20:29 by CPU2017 PDF formatter v6442.  
Originally published on 2021-09-14.