### Hardware

**CPU Name:** Intel Xeon Platinum 8280  
**Max MHz:** 4000  
**Nominal:** 2700  
**Enabled:** 112 cores, 4 chips  
**Orderable:** 1,2,3,4 chips  
**Cache L1:** 32 KB I + 32 KB D on chip per core  
**L2:** 1 MB I+D on chip per core  
**L3:** 38.5 MB I+D on chip per chip  
**Memory:** 384 GB (24 x 16 GB 2Rx8 PC4-2933V-R)  
**Storage:** 1 x 960 GB SATA SSD  
**Other:** None

**Software**

**Operating System:** Red Hat Enterprise Linux release 8.2 (Ootpa)  
**Compiler:** C/C++: Version 19.1.1.217 of Intel C/C++ Compiler Build 20200306 for Linux;  
**Fortran:** Version 19.1.1.217 of Intel Fortran Compiler Build 20200306 for Linux  
**Parallel:** Yes  
**Firmware:** Version 2.00.33 released Aug-2019 BIOS  
**System State:** Run level 3 (multi-user)  
**Base Pointers:** 64-bit  
**Peak Pointers:** 64-bit  
**Power Management:** BIOS set to prefer performance at the cost of additional power usage

**Memory:** 384 GB (24 x 16 GB 2Rx8 PC4-2933V-R)  
**Storage:** 1 x 960 GB SATA SSD  
**Other:** None

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<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
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<td>625.x264_s</td>
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<td>631.deepsjeng_s</td>
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<td>657.xz_s</td>
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</table>

**Hardware Availability:** Jun-2019  
**Software Availability:** Apr-2020

---

**New H3C Technologies Co., Ltd.**  
**H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)**  
**CPU2017 License:** 9066  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Tested by:** New H3C Technologies Co., Ltd.  
**Test Date:** Sep-2020  
**Hardware Availability:** Jun-2019  
**Software Availability:** Apr-2020

---

**Software**

**Operating System:** Red Hat Enterprise Linux release 8.2 (Ootpa)  
**Compiler:** C/C++: Version 19.1.1.217 of Intel C/C++ Compiler Build 20200306 for Linux;  
**Fortran:** Version 19.1.1.217 of Intel Fortran Compiler Build 20200306 for Linux  
**Parallel:** Yes  
**Firmware:** Version 2.00.33 released Aug-2019 BIOS  
**System State:** Run level 3 (multi-user)  
**Base Pointers:** 64-bit  
**Peak Pointers:** 64-bit  
**Power Management:** BIOS set to prefer performance at the cost of additional power usage

---

**Software**

**Operating System:** Red Hat Enterprise Linux release 8.2 (Ootpa)  
**Compiler:** C/C++: Version 19.1.1.217 of Intel C/C++ Compiler Build 20200306 for Linux;  
**Fortran:** Version 19.1.1.217 of Intel Fortran Compiler Build 20200306 for Linux  
**Parallel:** Yes  
**Firmware:** Version 2.00.33 released Aug-2019 BIOS  
**System State:** Run level 3 (multi-user)  
**Base Pointers:** 64-bit  
**Peak Pointers:** 64-bit  
**Power Management:** BIOS set to prefer performance at the cost of additional power usage

---

**Software**

**Operating System:** Red Hat Enterprise Linux release 8.2 (Ootpa)  
**Compiler:** C/C++: Version 19.1.1.217 of Intel C/C++ Compiler Build 20200306 for Linux;  
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**Peak Pointers:** 64-bit  
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New H3C Technologies Co., Ltd.  
H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)

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<td>246</td>
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</tbody>
</table>

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

Compiler Notes
The inconsistent Compiler version information under Compiler Version section is due to a discrepancy in Intel Compiler. The correct version of C/C++ compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux
The correct version of Fortran compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux

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"
MALLOCONF = "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)
General Notes (Continued)

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

Platform Notes

BIOS Settings:
Set Hyper Threading to Disabled
Set Patrol Scrub to Disabled
Set IMC Interleaving to 2-way Interleave

Sysinfo program /home/speccpu/bin/sysinfo
Rev: r6365 of 2019-08-21 295195f888a3d7ed16e46a485a0011
running on localhost.localdomain Sat Sep 26 18:09:44 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) Platinum 8280 CPU @ 2.70GHz
   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:
   Architecture: x86_64
   CPU op-mode(s): 32-bit, 64-bit
   Byte Order: Little Endian
   CPU(s): 112

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

H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)

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

Test Date: Sep-2020
Hardware Availability: Jun-2019
Software Availability: Apr-2020

SPECspeed®2017_int_base = 11.3
SPECspeed®2017_int_peak = 11.6

Platform Notes (Continued)

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
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Platinum 8280 CPU @ 2.70GHz
Stepping: 7
CPU MHz: 1000.015
CPU max MHz: 4000.0000
CPU min MHz: 1000.0000
BogoMIPS: 5400.00
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 mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdelgb rdtscp
lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
aperfmpref perf pctlmuldq dtc64 monitor ds cpl vmx smx est tm sse3 sdbg fma cx16
taxp 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 cdp_l3
invpcid_single intel_pmm ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi
flexpriority ept vpid fsgsbase tsc_adjust bna1 hle avx2 smep bmi2 erms invpcid rtm
cq mpx rdr_a avx512f avx512dq rdseed adx smap clflushopt clwb intel_pt avx512cd
avx512bw avx512vl xsaveopt xsaves xgetbv1 xsavec xsaveopt xsaves 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_64ne md_clear flush_l1d arch_capabilities

/logo
/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)
nodes 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: 95067 MB
node 0 free: 94495 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

(Continued on next page)
Platform Notes (Continued)

node 1 size: 96761 MB
node 1 free: 95286 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: 96734 MB
node 2 free: 96510 MB
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: 96761 MB
node 3 free: 96606 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
MemTotal:       394573112 kB
HugePages_Total:       0
Hugepagesize:       2048 kB

From /etc/*release* /etc/*version*
    os-release:
      NAME="Red Hat Enterprise Linux"
      VERSION="8.2 (Ootpa)"
      ID="rhel"
      ID_LIKE="fedora"
      VERSION_ID="8.2"
      PLATFORM_ID="platform:el8"
      PRETTY_NAME="Red Hat Enterprise Linux 8.2 (Ootpa)"
      ANSI_COLOR="0;31"
    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:

    itlb_multihit:                  KVM: Mitigation: Split huge pages
    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 Bypass disabled

(Continued on next page)
### Platform Notes (Continued)

CVE-2017-5753 (Spectre variant 1):
Mitigation: usercopy/swapgs barriers and __user pointer sanitization

CVE-2017-5715 (Spectre variant 2):
Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling

tsx_async_abort:
Mitigation: Clear CPU buffers; SMT disabled

run-level 3 Sep 26 18:08

SPEC is set to: /home/speccpu

Filesystem | Type           | Size  | Used | Avail | Use% | Mounted on
--|---------------|-------|------|-------|------|------------
/dev/mapper/rhel-home | xfs   | 839G  | 145G | 695G  | 18% | /home

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

Product Family: Rack

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 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

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

Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1
NextGen Build 20200304
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

<table>
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<tr>
<th></th>
<th>600.perlbench_s(peak)</th>
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<tbody>
<tr>
<td>C</td>
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</tr>
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</table>

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.1.1.217 Build 20200306

(Continued on next page)
New H3C Technologies Co., Ltd.
H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)

**SPEC CPU®2017 Integer Speed Result**

| SPECspeed®2017_int_base = 11.3 | SPECspeed®2017_int_peak = 11.6 |

---

**CPU2017 License:** 9066
**Test Sponsor:** New H3C Technologies Co., Ltd.
**Test Date:** Sep-2020
**Hardware Availability:** Jun-2019
**Tested by:** New H3C Technologies Co., Ltd.
**Software Availability:** Apr-2020

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**Compiler Version Notes (Continued)**

Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

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<tr>
<th>Base Compiler Invocation</th>
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<tbody>
<tr>
<td><strong>C benchmarks:</strong></td>
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<td>icc</td>
</tr>
<tr>
<td><strong>C++ benchmarks:</strong></td>
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<td>icpc</td>
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</tbody>
</table>

(Continued on next page)
New H3C Technologies Co., Ltd.
H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)

CPU2017 License: 9066
Test Sponsor: New H3C Technologies Co., Ltd.
Tested by: New H3C Technologies Co., Ltd.
Test Date: Sep-2020
Hardware Availability: Jun-2019
Software Availability: Apr-2020

Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Base Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
602.gcc_s: -DSPEC_LP64
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:
-m64 -qnextgen -std=c11
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs
-xCORE-AVX512 -O3 -ffast-math -flto -mfpmath=sse -funroll-loops
-fuse-ld=gold -qopt-mem-layout-trans=4 -fopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

C++ benchmarks:
-m64 -qnextgen -Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto -mfpmath=sse
-funroll-loops -fuse-ld=gold -qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2020.1.217/linux/compiler/lib/intel64_lin
-lqkmalloc

Fortran benchmarks:
-m64 -Wl,-plugin-opt=-x86-branches-within-32B-boundaries -xCORE-AVX512
-O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-mbranches-within-32B-boundaries
**SPEC CPU®2017 Integer Speed Result**

New H3C Technologies Co., Ltd. | SPECspeed®2017_int_base = 11.3
H3C UniServer R6900 G3 (Intel Xeon Platinum 8280) | SPECspeed®2017_int_peak = 11.6

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<td>Jun-2019</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Apr-2020</td>
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</table>

**Peak Compiler Invocation**

- C benchmarks: icc
- C++ benchmarks: icpc
- Fortran benchmarks: ifort

**Peak Portability Flags**

- 600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
- 602.gcc_s: -DSPEC_LP64(*) -DSPEC_LP64
- 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

(*) Indicates a portability flag that was found in a non-portability variable.

**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 -qnextgen -std=c11 -fuse-ld=gold
  - -Wl,-plugin-opt=-x86-branches-within-32B-boundaries
  - -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
  - -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

(Continued on next page)
New H3C Technologies Co., Ltd.
H3C UniServer R6900 G3 (Intel Xeon Platinum 8280)

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

Test Date: Sep-2020
Hardware Availability: Jun-2019
Software Availability: Apr-2020

Peak Optimization Flags (Continued)

605.mcf_s: basepeak = yes

625.x264_s: -m64 -qnextgen -std=c11
-W1,-plugin-opt=-x86-branches-within-32B-boundaries
-W1,-z,muldefs -xCORE-AVX512 -flto -O3 -ffast-math
-fuse-ld=gold -qopt-mem-layout-trans=4 -fno-alias
-L/usr/local/jemalloc64-5.0.1.1/lib -ljemalloc

657.xz_s: basepeak = yes

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
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/Intel-ic19.1u1-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/New_H3C-Platform-Settings-V1.4-CLX-RevB.xml

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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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