New H3C Technologies Co., Ltd.  
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)  

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

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

<table>
<thead>
<tr>
<th>Threads</th>
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<th>SPECspeed®2017_int_peak (12.2)</th>
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<tbody>
<tr>
<td>600.perlbench_s 72</td>
<td>72</td>
<td>8.28</td>
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<tr>
<td>602.gcc_s 72</td>
<td>72</td>
<td>10.9</td>
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<tr>
<td>605.mcf_s 72</td>
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<td>17.2</td>
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<tr>
<td>620.omnetpp_s 72</td>
<td>72</td>
<td>11.9</td>
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<tr>
<td>623.xalancbmk_s 72</td>
<td>72</td>
<td>13.6</td>
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<tr>
<td>625.x264_s 72</td>
<td>72</td>
<td>17.1</td>
</tr>
<tr>
<td>631.deepsjeng_s 72</td>
<td>72</td>
<td>5.93</td>
</tr>
<tr>
<td>641.leela_s 72</td>
<td>72</td>
<td>4.85</td>
</tr>
<tr>
<td>648.exchange2_s 72</td>
<td>72</td>
<td>19.3</td>
</tr>
<tr>
<td>657.xz_s 72</td>
<td>72</td>
<td>24.3</td>
</tr>
</tbody>
</table>

**Hardware**
- CPU Name: Intel Xeon Platinum 8360Y  
- Max MHz: 3500  
- Nominal: 2400  
- Enabled: 72 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: 54 MB I+D on chip per chip  
- Other: None  
- Memory: 512 GB (16 x 32 GB 2Rx4 PC4-3200V-R)  
- Storage: 1 x 480GB SATA SSD  
- Other: None

**Software**
- OS: Red Hat Enterprise Linux release 8.2 (Ootpa)  
- 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 5.34 released Sep-2021 BIOS  
- File System: xfs  
- System State: Run level 5  
- Base Pointers: 64-bit  
- Peak Pointers: 64-bit  
- Other: jemalloc memory allocator V5.0.1  
- Power Management: BIOS and OS set to prefer performance at the cost of additional power usage.
## Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
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<tr>
<td>625.x264_s</td>
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<td>657.xz_s</td>
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<td>24.3</td>
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</tbody>
</table>

**SPECspeed®2017_int_base = 11.9**

**SPECspeed®2017_int_peak = 12.2**

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.
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

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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: Oct-2021
Hardware Availability: Sep-2020
Software Availability: Jan-2021

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/spec/cpu/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
running on localhost.localdomain Wed Oct 20 09:50:02 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 8360Y CPU @ 2.40GHz
  2 "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 : 36
siblings : 36
  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 28 29 30 31 32 33 34 35
  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 28 29 30 31 32 33 34 35

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): 72
On-line CPU(s) list: 0-71
Thread(s) per core: 1
Core(s) per socket: 36
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 106
Model name: Intel(R) Xeon(R) Platinum 8360Y CPU @ 2.40GHz
Stepping: 6

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)  

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Hardware Availability: Sep-2020  
Software Availability: Jan-2021

Platform Notes (Continued)

<table>
<thead>
<tr>
<th>CPU MHz:</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CPU max MHz:</td>
<td>3500.0000</td>
</tr>
<tr>
<td>CPU min MHz:</td>
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</tr>
<tr>
<td>BogoMIPS:</td>
<td>4800.00</td>
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<tr>
<td>Virtualization:</td>
<td>VT-x</td>
</tr>
<tr>
<td>L1d cache:</td>
<td>48K</td>
</tr>
<tr>
<td>L1i cache:</td>
<td>32K</td>
</tr>
<tr>
<td>L2 cache:</td>
<td>1280K</td>
</tr>
<tr>
<td>L3 cache:</td>
<td>55296K</td>
</tr>
<tr>
<td>NUMA node0 CPU(s):</td>
<td>0-35</td>
</tr>
<tr>
<td>NUMA node1 CPU(s):</td>
<td>36-71</td>
</tr>
<tr>
<td>Flags:</td>
<td>fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_13 invpcid_single ssbd mbx ibp btpb stibp ibrs_enhanced tpr_shadow vni flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2  erms invpcid rtm cdt_a avx512f avx512dq rsseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha ni avx512bw avx512vl xsaveopt xsaves xsavec xsaveopt xsaves cqm lhc cqm_occu llc cqm_mb envm total cqm_mb_local wboinvvd dtherm ida arat pln pts hwp hwp act window hwp epp hwp_pkg_req avx512vbi umip pku ospe avx512_vbmi2 gfni vaes vpcmldq avx512_vnni avx512_bitalg tme avx512_vpopcntdq la57 rdpid md_clear pconfig flush lld arch_capabilities</td>
</tr>
</tbody>
</table>

/proc/cpuinfo cache data  
cache size : 55296 KB

From numactl --hardware  
WARNING: a numactl 'node' might or might not correspond to a physical chip.  
available: 2 nodes (0-1)  
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  
28 29 30 31 32 33 34 35  
node 0 size: 257346 MB  
node 0 free: 254808 MB  
node 1 cpus: 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60  
61 62 63 64 65 66 67 68 69 70 71  
node 1 size: 258037 MB  
node 1 free: 257353 MB  
node distances:  
node 0 1  
0: 10 20  
1: 20 10  

From /proc/meminfo  
MemTotal: 527753280 KB

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

<table>
<thead>
<tr>
<th>HugePages_Total:</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hugepagesize:</td>
<td>2048 kB</td>
</tr>
</tbody>
</table>

/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="8.2 (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:

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

run-level 5 Oct 19 21:15

SPEC is set to: /home/speccpu

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

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

H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base</th>
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**CPU2017 License:** 9066

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

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

**Test Date:** Oct-2021

**Hardware Availability:** Sep-2020

**Software Availability:** Jan-2021

### Platform Notes (Continued)

<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>
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</thead>
<tbody>
<tr>
<td>/dev/mapper/rhel-home</td>
<td>xfs</td>
<td>392G</td>
<td>19G</td>
<td>374G</td>
<td>5%</td>
<td>/home</td>
</tr>
</tbody>
</table>

From /sys/devices/virtual/dmi/id

- **Vendor:** New H3C Technologies Co., Ltd.
- **Product:** H3C UniServer R4900 G5
- **Product Family:** Rack
- **Serial:** 210235A2RAH212000011

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:**
  - 15x Hynix HMA84GR7DJR4N-XN 32 GB 2 rank 3200
  - 1x Micron 36ASF4G72PZ-3G2E7 32 GB 2 rank 3200
  - 16x NO DIMM NO DIMM

- **BIOS:**
  - BIOS Vendor: American Megatrends International, LLC.
  - BIOS Version: 5.34
  - BIOS Date: 09/11/2021
  - 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.
---
```

(Continued on next page)
New H3C Technologies Co., Ltd.
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

SPEC CPU®2017 Integer Speed Result
Copyright 2017-2021 Standard Performance Evaluation Corporation

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New H3C Technologies Co., Ltd.
8360Y
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

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

Test Date: Oct-2021
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Compiler Version Notes (Continued)

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<th>Compiler</th>
<th>Base Compiler Invocation</th>
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<tr>
<td>C</td>
<td>icx</td>
</tr>
<tr>
<td>C++</td>
<td>icpx</td>
</tr>
<tr>
<td>Fortran</td>
<td>ifort</td>
</tr>
</tbody>
</table>

Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

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

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H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

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</table>

**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:**
- -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

(Continued on next page)
## New H3C Technologies Co., Ltd.
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y)

| 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: Oct-2021 |
| Hardware Availability: Sep-2020 |
| Software Availability: Jan-2021 |

### Peak Compiler Invocation (Continued)

**Fortran benchmarks:**

```plaintext
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

**C++ benchmarks:**

620.omnetpp_s: basepeak = yes

623.xalancbmk_s: basepeak = yes

631.deepsjeng_s: basepeak = yes

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R4900 G5 (Intel Xeon Platinum 8360Y) 

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<tr>
<th>SPECspeed®2017_int_base</th>
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Test Sponsor: New H3C Technologies Co., Ltd.  
Tested by: New H3C Technologies Co., Ltd.  
Test Date: Oct-2021  
Hardware Availability: Sep-2020  
Software Availability: Jan-2021

Peak Optimization Flags (Continued)

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-RevD.xml

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