## New H3C Technologies Co., Ltd.

**H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)**

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 11.6</th>
<th>SPECspeed®2017_int_peak = 11.8</th>
</tr>
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<tbody>
<tr>
<td>CPU2017 License: 9066</td>
<td>Test Date: Aug-2021</td>
</tr>
<tr>
<td>Test Sponsor: New H3C Technologies Co., Ltd.</td>
<td>Hardware Availability: Jun-2021</td>
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<tr>
<td>Tested by: New H3C Technologies Co., Ltd.</td>
<td>Software Availability: Dec-2020</td>
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</table>

### Performance Results

<table>
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<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
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<tr>
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<td>48</td>
<td>8.11</td>
<td>10.7</td>
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<td>48</td>
<td>11.1</td>
<td>19.7</td>
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<tr>
<td>605.mcf_s</td>
<td>48</td>
<td>11.5</td>
<td>16.6</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>48</td>
<td>13.2</td>
<td>17.3</td>
</tr>
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</tr>
<tr>
<td>648.exchange2_s</td>
<td>48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>657.xz_s</td>
<td>48</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Hardware

- **CPU Name**: Intel Xeon Gold 5318Y
- **Max MHz**: 3400
- **Nominal**: 2100
- **Enabled**: 48 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**: 36 MB I+D on chip per chip
- **Other**: None
- **Memory**: 1 TB (16 x 64 GB 2Rx4 PC4-32000AA-R, running at 2933)
- **Storage**: 1.0 TB SSD NVME
- **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++ 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
## 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

---

### Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Base Seconds</th>
<th>Ratio</th>
<th>Base Seconds</th>
<th>Ratio</th>
<th>Base Seconds</th>
<th>Ratio</th>
<th>Peak Seconds</th>
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<th>Ratio</th>
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<td>48</td>
<td>253</td>
<td>7.02</td>
<td>253</td>
<td>7.03</td>
<td>251</td>
<td>7.06</td>
<td>48</td>
<td>219</td>
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<td>602.gcc_s</td>
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<td>371</td>
<td>10.7</td>
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<td>372</td>
<td>10.7</td>
<td>48</td>
<td>360</td>
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<td>605.mcf_s</td>
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<td>248</td>
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(Continued on next page)
New H3C Technologies Co., Ltd. SPECspec®2017_int_base = 11.6
H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y) SPECspec®2017_int_peak = 11.8

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

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 Fri Jun 22 07:18:09 2018

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 5318Y CPU @ 2.10GHz
      2 "physical id"s (chips)
      48 "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 : 24
      siblings : 24
      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
      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

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): 48
   On-line CPU(s) list: 0-47
   Thread(s) per core: 1
   Core(s) per socket: 24
   Socket(s): 2
   NUMA node(s): 2
   Vendor ID: GenuineIntel
   CPU family: 6
   Model: 106
   Model name: Intel(R) Xeon(R) Gold 5318Y CPU @ 2.10GHz
   Stepping: 6
   CPU MHz: 1680.733
   CPU max MHz: 3400.0000
   CPU min MHz: 800.0000
   BogoMIPS: 4200.00

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New H3C Technologies Co., Ltd.

H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

**SPECspeed®2017_int_base = 11.6**

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<td>Jun-2021</td>
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<td>Software Availability:</td>
<td>Dec-2020</td>
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</table>

**Platform Notes (Continued)**

Virtualization: VT-x
L1d cache: 48K
L1i cache: 32K
L2 cache: 1280K
L3 cache: 36864K
NUMA node0 CPU(s): 0-23
NUMA node1 CPU(s): 24-47
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 xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtrr pdcm pclid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_13 invpcid_single ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid fsgsbse tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqm rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha ni avx512bw avx512vl xsaveopt xsavec xsave vpid cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local wbnoinvd dtc sched ica rcat plnr pts hwlp act_window hwlp epp hwlp_pkg_req avx512vmbi umip pkus ospeavx512 vbmi2 gfnv vais vpcmldqavx512 vnine avx512 bitalg tme avx512 vpopcndtq la57 rdpid md_clear pconfi g flush lld arch_capabilities

```
/proc/cpuinfo cache data
  cache size : 36864 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
  node 0 size: 515679 MB
  node 0 free: 514337 MB
  node 1 cpus: 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
  node 1 size: 516060 MB
  node 1 free: 515531 MB
  node distances:
    node 0 1
    0: 10 12
    1: 10 20

From /proc/meminfo
  MemTotal: 1056501908 kB
  HugePages_Total: 0
  Hugepagesize: 2048 kB

/sbin/tuned-adm active
  Current active profile: throughput-performance

(Continued on next page)
New H3C Technologies Co., Ltd.  SPEC CPU®2017 Integer Speed Result
H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

SPECspeed®2017_int_base = 11.6
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Platform Notes (Continued)

/platforms/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"
IDLIKE="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

SPEC is set to: /home/speccpu

Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs 876G 18G 858G 3% /home

From /sys/devices/virtual/dmi/id
Vendor: New H3C Technologies Co., Ltd.
Product: UniServer R5300 G5
Product Family: Rack

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

New H3C Technologies Co., Ltd.

H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

Copyright 2017-2021 Standard Performance Evaluation Corporation

SPECspeed®2017_int_base = 11.6
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Platform Notes (Continued)

Serial: 210235A3WGH213000015

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:
16x Hynix HMAA8GR7CJR4N-XN 64 GB 2 rank 3200, configured at 2933
16x NO DIMM NO DIMM

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

==============================================================================
<table>
<thead>
<tr>
<th>600.perlbench_s(peak)</th>
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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.
==============================================================================

==============================================================================
| 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.

==============================================================================
| 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
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==============================================================================

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H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

CPU2017 License: 9066
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Compiler Version Notes (Continued)

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113
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<th>Fortran</th>
<th>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

C++ benchmarks:
- icpx

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
# SPEC CPU®2017 Integer Speed Result

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

**H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)**

| SPECspeed®2017_int_base = 11.6 | SPECspeed®2017_int_peak = 11.8 |

| 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 |

## Base Portability Flags (Continued)

- 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 -fipenmp -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/
-1qkmalloc

**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
New H3C Technologies Co., Ltd.  
H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

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

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

600.perlbench_s: -Wl, -z, multdefs -prof-gen(pass 1) -prof-use(pass 2)  
-xCORE-AVX512 -ipo -03 -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, multdefs -fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX512 -flto  
-Ofast(pass 1) -03 -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, multdefs  
-xCORE-AVX512 -flto -03 -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

641.leela_s: basepeak = yes

Fortran benchmarks:

648.exchange2_s: basepeak = yes
**SPEC CPU®2017 Integer Speed Result**

New H3C Technologies Co., Ltd.  
H3C UniServer R5300 G5 (Intel Xeon Gold 5318Y)

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<tr>
<td>SPECspeed®2017_int_peak</td>
<td>11.8</td>
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- **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:

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