**SPEC CPU®2017 Integer Speed Result**

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

H3C UniServer B5700 G5 (Intel Xeon Gold 6330)

**SPECspeed®2017_int_peak = 10.9**

**SPECspeed®2017_int_base = 10.7**

<table>
<thead>
<tr>
<th>CPU2017 License: 9066</th>
<th>Test Date: Jun-2021</th>
</tr>
</thead>
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**Test Sponsor:** New H3C Technologies Co., Ltd.

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

**Hardware**

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017_int_base (10.7)</th>
<th>SPECspeed®2017_int_peak (10.9)</th>
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<tbody>
<tr>
<td>600.perlbench_s 56</td>
<td>7.32</td>
<td>10.9</td>
</tr>
<tr>
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<td>9.96</td>
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<td>605.mcf_s 56</td>
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</tr>
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<td>11.9</td>
<td>15.2</td>
</tr>
<tr>
<td>623.xalancbmk_s 56</td>
<td>13.9</td>
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</tr>
<tr>
<td>625.x264_s 56</td>
<td>15.2</td>
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<td>5.29</td>
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<td>4.30</td>
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<tr>
<td>657.xz_s 56</td>
<td>21.6</td>
<td></td>
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</table>

**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 5.23 released Apr-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 |

**CPU Name:** Intel Xeon Gold 6330

| Max MHz: 3100 |
| Nominal: 2000 |
| 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:** 512 GB (16 x 32 GB 2Rx4 PC4-3200V-R, running at 2933)

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

**Other:** None
New H3C Technologies Co., Ltd.  
H3C UniServer B5700 G5 (Intel Xeon Gold 6330)

SPECspeed®2017_int_base = 10.7
SPECspeed®2017_int_peak = 10.9

Results Table

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<tr>
<th>Benchmark</th>
<th>Threads</th>
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<td>10.8</td>
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<td>11.0</td>
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<td>287</td>
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<td>286</td>
<td>21.6</td>
</tr>
</tbody>
</table>

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
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)
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SPEC CPU®2017 Integer Speed Result

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SPECspeed®2017_int_base = 10.7
SPECspeed®2017_int_peak = 10.9

CPU2017 License: 9066
Test Date: Jun-2021
Test Sponsor: New H3C Technologies Co., Ltd.
Hardware Availability: Apr-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 Fri Jun 25 17:49:31 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 6330 CPU @ 2.00GHz
  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 6330 CPU @ 2.00GHz
Stepping: 6
CPU MHz: 800.844
CPU max MHz: 3100.0000

(Continued on next page)
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Platform Notes (Continued)

CPU min MHz: 800.0000
BogoMIPS: 4000.00
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 rdtscp
lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
aperfmpref pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16
xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movb popcnt tsc_deadline_timer aes xsave
avx f16c rdrand lahf_lm abnm 3dnowprefetch cpuid_fault epb cat_l3 invpcid_single
intel_pni ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept
vpid ept_ad fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 ibrm invpcid ogp cmx8b rdseed
avx2 sse4_2 x2apic movb popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abnm
3dnowprefetch cpuid_fault epb cat_l3 invpcid_single intel_pni ssbd mba ibrs ibpb stibp
ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 hle
avx2 smep bmi2 ibrm invpcid ogp cmx8b rdseed

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
node 0 size: 245934 MB
node 0 free: 256461 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: 246323 MB
node 1 free: 257461 MB
node distances:
node 0 1
0: 10 20
1: 20 10

From /proc/meminfo
MemTotal: 527746964 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

(Continued on next page)
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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): 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): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

run-level 3 Jun 25 17:46

SPEC is set to: /home/speccpu
    Filesystem      Type  Size  Used  Avail Use% Mounted on
    /dev/mapper/rhel-home xfs 1.7T  92G  1.6T  6% /home

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New H3C Technologies Co., Ltd. H3C UniServer B5700 G5 (Intel Xeon Gold 6330) SPEC CPU®2017 Integer Speed Result

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<thead>
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**Hardware Availability:** Apr-2021

**Software Availability:** Dec-2020

**Platform Notes (Continued)**

From /sys/devices/virtual/dmi/id

Vendor: New H3C Technologies Co., Ltd.
Product: B5700 G5
Product Family: Rack
Serial: 210235A3W9H212000011

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 HMA84GR7DJR4N-XN 32 GB 2 rank 3200, configured at 2933
16x NO DIMM NO DIMM

BIOS:
- BIOS Vendor: American Megatrends International, LLC.
- BIOS Version: 5.23
- BIOS Date: 04/23/2021
- BIOS Revision: 5.21

(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
```

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**Compiler Version Notes (Continued)**  
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

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<tr>
<th>Fortran</th>
<th>648.exchange2_s(base, peak)</th>
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Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000  
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<td>C benchmarks: icx</td>
</tr>
<tr>
<td>C++ benchmarks: icpx</td>
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<tr>
<td>Fortran benchmarks: ifort</td>
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<th><strong>Base Portability Flags</strong></th>
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<td>600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64</td>
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## Base Portability Flags (Continued)

- 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.leea_s: -DSPEC_LP64
- 648.exchange2_s: -DSPEC_LP64
- 657.xz_s: -DSPEC_LP64

## Base Optimization Flags

**C benchmarks:**

- -DSPEC_OPENMP  
- -std=c11  
- -m64  
- -fopenmp  
- -Wl,-z,muldefs  
- -xCORE-AVX512  
- -O3  
- -ffast-math  
- -flto  
- -mfpmath=sse  
- -funroll-loops  
- -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  
- -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  
- -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 B5700 G5 (Intel Xeon Gold 6330)  

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 10.7</th>
<th>SPECspeed®2017_int_peak = 10.9</th>
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<tr>
<td><strong>CPU2017 License:</strong> 9066</td>
<td><strong>Test Date:</strong> Jun-2021</td>
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<td><strong>Tested by:</strong> New H3C Technologies Co., Ltd.</td>
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</tbody>
</table>

### 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

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 B5700 G5 (Intel Xeon Gold 6330)**

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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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