New H3C Technologies Co., Ltd.

H3C UniServer R4900 G6 (Intel Xeon Gold 6438N)

| SPECspeed®2017_fp_base | 302 |
| SPECspeed®2017_fp_peak | Not Run |

CPU2017 License: 9066  
Test Date: Mar-2023  
Test Sponsor: New H3C Technologies Co., Ltd.  
Hardware Availability: Jan-2023  
Tested by: New H3C Technologies Co., Ltd.  
Software Availability: Aug-2022

### Hardware

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017_fp_base (302)</th>
</tr>
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<tbody>
<tr>
<td>0</td>
<td>50</td>
</tr>
<tr>
<td>603.bwaves_s</td>
<td>64</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>64</td>
</tr>
<tr>
<td>619.lbm_s</td>
<td>64</td>
</tr>
<tr>
<td>621.wrf_s</td>
<td>64</td>
</tr>
<tr>
<td>627.cam4_s</td>
<td>64</td>
</tr>
<tr>
<td>628.pop2_s</td>
<td>64</td>
</tr>
<tr>
<td>638.imagick_s</td>
<td>64</td>
</tr>
<tr>
<td>644.nab_s</td>
<td>64</td>
</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>64</td>
</tr>
<tr>
<td>654.roms_s</td>
<td>64</td>
</tr>
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</table>

### Software

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base (302)</th>
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<tbody>
<tr>
<td>Threads</td>
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<tr>
<td>---------</td>
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<tr>
<td>0</td>
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<tr>
<td>603.bwaves_s</td>
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<td>607.cactuBSSN_s</td>
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</tr>
<tr>
<td>649.fotonik3d_s</td>
</tr>
<tr>
<td>654.roms_s</td>
</tr>
</tbody>
</table>

---

**CPU Name:** Intel Xeon Gold 6438N  
**Max MHz:** 3600  
**Nominal:** 2000  
**Enabled:** 64 cores, 2 chips  
**Orderable:** 1.2 chips  
**Cache L1:** 32 KB I + 48 KB D on chip per core  
**L2:** 2 MB I+D on chip per core  
**L3:** 60 MB I+D on chip per chip  
**Other:** None  
**Memory:** 1 TB (16 x 64 GB 2Rx8 PC5-4800B-R, running at 4000)  
**Storage:** 1 x 960GB SATA SSD  
**Other:** None  

**OS:** Red Hat Enterprise Linux 9.0 (Plow)  
**5.14.0-70.22.1.el9_0.x86_64**  
**Compiler:** C/C++, Version 2022.1 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2022.1 of Intel Fortran Compiler for Linux;  
**Parallel:** Yes  
**Firmware:** Version 5.29 released Dec-2022 BIOS  
**File System:** xfs  
**System State:** Run level 3 (multi-user)  
**Base Pointers:** 64-bit  
**Peak Pointers:** Not Applicable  
**Other:** jemalloc memory allocator V5.0.1  
**Power Management:** BIOS and OS set to prefer performance at the cost of additional power usage.
SPEC CPU®2017 Floating Point Speed Result

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Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
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<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
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<td>1090</td>
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<td>42.1</td>
<td>396</td>
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</tr>
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</table>

SPECspeed®2017_fp_base = 302  
SPECspeed®2017_fp_peak = Not Run

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"
tuned-adm profile was set to Throughput-Performance using "tuned-adm profile throughput-performance"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,compact"
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 2x Intel Xeon Platinum 8280M CPU + 384GB 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

(Continued on next page)
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General Notes (Continued)
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

Platform Notes

BIOS Settings:
Set Enable LP [Global] to Single LP
Set Patrol Scrub to Disabled
Set Power Performance Tuning to BIOS Controls EFB
Set ENERGY_PERF_BIAS_CFG_mode to Performance

Sysinfo program /home/speccpu/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Mar 6 23:29:43 2023

SUT (System Under Test) info as seen by some common utilities.

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| 2. w            | 12. Failed units, from systemctl list-units --state=failed |
| 3. Username     | 13. Services, from systemctl list-unit-files |
| 4. ulimit -a    | 14. Linux kernel boot-time arguments, from /proc/cmdline |
| 5. sysinfo process ancestry | 15. cpupower frequency-info |
| 6. /proc/cpuinfo | 16. sysctl |
| 7. lscpu        | 17. /sys/kernel/mm/transparent_hugepage |
| 8. numactl --hardware | 18. /sys/kernel/mm/transparent_hugepage/khugepaged |
| 9. /proc/meminfo | 19. OS release |
| 10. who -r       | 20. Disk information |
| 11. Systemd service manager version: systemd 250 (250-6.el9_0) | 21. /sys/devices/virtual/dmi/id |
| 12. Failed units, from systemctl list-units --state=failed | 22. dmidecode |
| 13. Services, from systemctl list-unit-files | 23. BIOS |

(Continued on next page)
Platform Notes (Continued)

1. `uname -a`

   Linux localhost.localdomain 5.14.0-70.22.1.el9_0.x86_64 #1 SMP PREEMPT Tue Aug 2 10:02:12 EDT 2022 x86_64
   x86_64 x86_64 GNU/Linux

2. `w`

   23:29:43 up  1:46,  2 users,  load average:  5.44,  5.83,  3.48
   USER    TTY        LOGIN@   IDLE   JCPU   PCPU WHAT
   root    tty1      21:44    1:44m  0.82s  0.00s -bash
   h3c      pts/0     21:44    1:45m  0.01s  0.01s sshd: h3c [priv]

3. Username

   From environment variable $USER: root

4. `ulimit -a`

   real-time non-blocking time (microseconds, -R) unlimited
   core file size (blocks, -c) 0
   data seg size (kbytes, -d) unlimited
   scheduling priority (-e) 0
   file size (blocks, -f) unlimited
   pending signals (-i) 4124781
   max locked memory (kbytes, -l) 64
   max memory size (kbytes, -m) unlimited
   open files (-n) 1024
   pipe size (512 bytes, -p) 8
   POSIX message queues (bytes, -q) 819200
   real-time priority (-r) 0
   stack size (kbytes, -s) unlimited
   cpu time (seconds, -t) unlimited
   max user processes (-u) 4124781
   virtual memory (kbytes, -v) unlimited
   file locks (-x) unlimited

5. `sysinfo process ancestry`

   /usr/lib/systemd/systemd rhgb --switched-root --system --deserialize 31
   login -- root
   -bash
   -bash
   runcpu --nobuild --action validate --define default-platform-flags -c
   ic2022.1-lin-core-avx512-speed-20220316.cfg --define cores=64 --tune base -o all --define drop_caches
   fpspeed
   runcpu --nobuild --action validate --define default-platform-flags --configfile
   ic2022.1-lin-core-avx512-speed-20220316.cfg --define cores=64 --tune base --output_format all --define
   drop_caches --nopower --runmode speed --tune base --size refspeed fpspeed --nopreenv --note-preenv

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Platform Notes (Continued)

--logfile $SPEC/tmp/CPU2017.003/templogs/preenv.fpspeed.003.0.log --lognum 003.0 --from_runcpu 2
speccperl $SPEC/bin/sysinfo
$SPEC = /home/speccpu

------------------------------------------------------------
6. /proc/cpuinfo
model name : Intel(R) Xeon(R) Gold 6438N
vendor_id : GenuineIntel
cpu family : 6
model : 143
stepping : 7
microcode : 0x2b000111
bugs : spectre_v1 spectre_v2 spec_store_bypass swapgs
cpu cores : 32
siblings : 32
2 physical ids (chips)
64 processors (hardware threads)
physical id 0: core ids 0-31
physical id 1: core ids 0-31
physical id 0: apicids
0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62
physical id 1: apicids
Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

------------------------------------------------------------
7. lscpu

From lscpu from util-linux 2.37.4:
Architecture: x86_64
CPU ope-mode(s): 32-bit, 64-bit
Address sizes: 52 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 64
On-line CPU(s) list: 0-63
Vendor ID: GenuineIntel
BIOS Vendor ID: Intel(R) Corporation
Model name: Intel(R) Xeon(R) Gold 6438N
BIOS Model name: Intel(R) Xeon(R) Gold 6438N
CPU family: 6
Model: 143
Thread(s) per core: 1
Core(s) per socket: 32
Socket(s): 2
Stepping: 7

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SPEC CPU®2017 Floating Point Speed Result
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Platform Notes (Continued)

CPU max MHz: 3600.0000
CPU min MHz: 800.0000
BogoMIPS: 4000.00

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 pdpe1gb rdtscp
lm constant_tsc art arch_perfmon pebs bts rep_good nopl apic ndx 
nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor
ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr 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_13 cat_12 cdp_13
invpcid_single intel_pni cdp_12 ssbd mba ibrs ibb ibs ibrs_enabled
ptr_shadow vmni flexpriority ept vpid ept_ad fsbg_base tsc_adjust bni avx2
smep bmi2 erness invpcid cqm mtd_a avx512f avx512dq rdseed adx smack
avx512ifma clflushopt clwb intel_pt avx512cd sha ni avx512bw avx512vl
xsaveopt xsavec xgetbv1 xsave avx512 vector_size cmov lbx lo vbnae
lclassic pclmulqdq vclwb intel_test_deactivate asid_remap

Virtualization: VT-x
L1d cache: 3 MIB (64 instances)
L1i cache: 2 MIB (64 instances)
L2 cache: 128 MIB (64 instances)
L3 cache: 120 MIB (2 instances)

NUMA node(s): 2
NUMA node0 CPU(s): 0-31
NUMA node1 CPU(s): 32-63

Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Me-downt: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy.swapgs barriers and _user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
Vulnerability Srbds: Not affected
Vulnerability Txs async abort: Not affected

From lscpu --cache:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ONE-SIZE</th>
<th>ALL-SIZE</th>
<th>WAYS</th>
<th>TYPE</th>
<th>LEVEL</th>
<th>SETS</th>
<th>PHY-LINE</th>
<th>COHERENCY-SIZE</th>
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<td>L1d</td>
<td>48K</td>
<td>3M</td>
<td>12</td>
<td>Data</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L1i</td>
<td>32K</td>
<td>2M</td>
<td>8</td>
<td>Instruction</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L2</td>
<td>2M</td>
<td>128M</td>
<td>16</td>
<td>Unified</td>
<td>2</td>
<td>2048</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L3</td>
<td>60M</td>
<td>120M</td>
<td>15</td>
<td>Unified</td>
<td>3</td>
<td>65536</td>
<td>1</td>
<td>64</td>
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</tbody>
</table>

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8. numactl --hardware
   NOTE: a numactl 'node' might or might not correspond to a physical chip.
   available: 2 nodes (0-1)
   node 0 cpus: 0-31
   node 0 size: 515214 MB
   node 0 free: 509843 MB
   node 1 cpus: 32-63
   node 1 size: 516041 MB
   node 1 free: 515400 MB
   node distances:
   node 0 1
   0: 10 21
   1: 21 10

9. /proc/meminfo
   MemTotal: 1056006024 kB

10. who -r
    run-level 3 Mar 6 21:43

11. Systemd service manager version: systemd 250 (250-6.el9_0)
    Default Target Status
    multi-user degraded

12. Failed units, from systemctl list-units --state=failed
    UNIT LOAD ACTIVE SUB DESCRIPTION
    * dnf-makecache.service loaded failed failed dnf makecache

13. Services, from systemctl list-unit-files
    STATE UNIT FILES
    enabled ModemManager NetworkManager NetworkManager-dispatcher NetworkManager-wait-online accounts-daemon atd auditd avahi-daemon bluetooth chronyd crond cups dbus-broker firewalld gdm getty8 insights-client-boot irqbalance iscsi iscsi-onboot kdump libstoragemgmt low-memory-monitor lvm2-monitor mcelog mdmonitor microcode multipathd nis-domainname nvmefc-boot-connections ostree-remount power-profiles-daemon qemu-guest-agent rhsmcertd rsyslog rtkit-daemon selinux-autorelabel mark smartd sshd ssd switcheroo-control systemd-network-generator udisks2 upower vgauthd vmtoolsd
    enabled-runtime systemd-remount-fs

(Continued on next page)
Platform Notes (Continued)

podman-restart psacct ras-mc-ctl rasdaemon riscd rhcd rhsm rhsm-facts rpmdb-rebuild
serial-getty@ speech-dispatcherd sshd-keygen@ systemd-boot-check-no-failures
systemd-pstore systemd-sysext wpa_supplicant

indirect

-----------------------------
14. Linux kernel boot-time arguments, from /proc/cmdline

BOOT_IMAGE=(hd0,gpt2)/vmlinuz-5.14.0-70.22.1.el9_0.x86_64
root=/dev/mapper/rhel-root
ro

---

15. cpupower frequency-info

analyzing CPU 0:
current policy: frequency should be within 800 MHz and 3.60 GHz.
The governor "performance" may decide which speed to use
within this range.

boost state support:
Supported: yes
Active: yes

---

16. sysctl

kernel.numa_balancing 1
kernel.randomize_va_space 2
vm.compaction_proactiveness 20
vm.dirty_background_bytes 0
vm.dirty_background_ratio 10
vm.dirty_bytes 0
vm.dirty_expire_centisecs 3000
vm.dirty_ratio 20
vm.dirty_writeback_centisecs 500
vm.dirtytime_expire_seconds 43200
vm.extrfrag_threshold 500
vm.min_unmapped_ratio 1
vm.nr_hugepages 0
vm.nr_hugepages_mempolicy 0
vm.nr_overcommit_hugepages 0
vm.swappiness 60
vm.watermark_boost_factor 15000
vm.watermark_scale_factor 10

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**SPECspeed®2017_fp_base** = 302

**SPECspeed®2017_fp_peak** = Not Run

### Platform Notes (Continued)

```
vm.zone_reclaim_mode 0

17. /sys/kernel/mm/transparent_hugepage
   defrag always defer defer+madvise [madvise] never
   enabled [always] madvise never
   hpage_pmd_size 2097152
   shmem_enabled always within_size advise [never] deny force

18. /sys/kernel/mm/transparent_hugepage/khugepaged
    alloc_sleep_millisecs 60000
    defrag 1
    max_ptes_none 511
    max_ptes_shared 256
    max_ptes_swap 64
    pages_to_scan 4096
    scan_sleep_millisecs 10000

19. OS release
    From /etc/*-release /etc/*-version
    os-release Red Hat Enterprise Linux 9.0 (Plow)
    redhat-release Red Hat Enterprise Linux release 9.0 (Plow)
    system-release Red Hat Enterprise Linux release 9.0 (Plow)

20. Disk information
    SPEC is set to: /home/speccpu
    Filesystem Type Size Used Avail Use% Mounted on
    /dev/mapper/rhel-home xfs 819G 31G 789G 4% /home

21. /sys/devices/virtual/dmi/id
    Vendor: New H3C Technologies Co., Ltd.
    Product: H3C UniServer R4900 G6 Ultra
    Product Family: Rack
    Serial: 210235A4CJ4900060001

22. dmidecode
    Additional information from dmidecode 3.3 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:
    14x Hynix HMCG94AEBRA102N 64 GB 2 rank 4800
```

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

H3C UniServer R4900 G6 (Intel Xeon Gold 6438N)

**SPEC CPU®2017 Floating Point Speed Result**  
Copyright 2017-2023 Standard Performance Evaluation Corporation

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base</th>
<th>SPECspeed®2017_fp_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>302</td>
<td>Not Run</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9066  
**Test Sponsor:** New H3C Technologies Co., Ltd.  
**Test Date:** Mar-2023  
**Hardware Availability:** Jan-2023  
**Tested by:** New H3C Technologies Co., Ltd.  
**Software Availability:** Aug-2022

**Platform Notes (Continued)**

2x Hynix HMCG94AEBRA109N 64 GB 2 rank 4800

23. BIOS  
(This section combines info from /sys/devices and dmidecode.)

- BIOS Vendor: American Megatrends International, LLC.
- BIOS Version: 6.00.08
- BIOS Date: 01/09/2023
- BIOS Revision: 5.29

**Compiler Version Notes**

```
C               | 619.lbm_s(base) 638.imagick_s(base) 644.nab_s(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,  
Version 2022.1.0 Build 20220316  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

```
C++, C, Fortran | 607.cactuBSSN_s(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,  
Version 2022.1.0 Build 20220316  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version  
2022.1.0 Build 20220316  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

```
Fortran         | 603.bwaves_s(base) 649.fotonik3d_s(base) 654.roms_s(base)
------------------------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version  
2022.1.0 Build 20220316  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

```
Fortran, C      | 621.wrf_s(base) 627.cam4_s(base) 628.pop2_s(base)
------------------------------------------------------------------------------
```

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R4900 G6 (Intel Xeon Gold 6438N)  

| SPECspeed®2017_fp_base = 302 | SPECspeed®2017_fp_peak = Not Run |

**Compiler Version Notes (Continued)**

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2022.1.0 Build 20220316  
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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2022.1.0 Build 20220316  
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.

---

**Base Compiler Invocation**

C benchmarks:  
icx

Fortran benchmarks:  
ifx

Benchmarks using both Fortran and C:  
ifx icx

Benchmarks using Fortran, C, and C++:  
icpx icx ifx

---

**Base Portability Flags**

603.bwaves_s: -DSPEC_LP64  
607.cactuBSSN_s: -DSPEC_LP64  
619.lbm_s: -DSPEC_LP64  
621.wrf_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian  
627.cam4_s: -DSPEC_LP64 -DSPEC_CASE_FLAG  
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian  
-assume byterecl  
638.imagick_s: -DSPEC_LP64  
644.nab_s: -DSPEC_LP64  
649.fotonik3d_s: -DSPEC_LP64  
654.roms_s: -DSPEC_LP64

---

**Base Optimization Flags**

C benchmarks:  
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -flto  
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp

(Continued on next page)
New H3C Technologies Co., Ltd.  
H3C UniServer R4900 G6 (Intel Xeon Gold 6438N)

SPECspeed®2017_fp_base = 302  
SPECspeed®2017_fp_peak = Not Run

CPU2017 License: 9066  
Test Sponsor: New H3C Technologies Co., Ltd.  
Test Date: Mar-2023

Tested by: New H3C Technologies Co., Ltd.  
Hardware Availability: Jan-2023  
Software Availability: Aug-2022

Base Optimization Flags (Continued)

C benchmarks (continued):
-DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Fortran benchmarks:
-m64 -Wl,-z,muldefs -DSPEC_OPENMP -xCORE-AVX512 -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using both Fortran and C:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using Fortran, C, and C++:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

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/New_H3C-Platform-Settings-V1.0-SPR-RevA.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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