Huawei 1288H V5 (Intel Xeon Gold 6144)

<table>
<thead>
<tr>
<th>Test Date:</th>
<th>Jul-2018</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

CPU Name: Intel Xeon Gold 6144
Max MHz.: 4200
Nominal: 3500
Enabled: 16 cores, 2 chips
Orderable: 1,2 chips
Cache L1: 32 KB I + 32 KB D on chip per core
L2: 1 MB I+D on chip per core
L3: 24.75 MB I+D on chip per chip
Other: None
Memory: 384 GB (24 x 16 GB 2Rx8 PC4-2666V-R)
Storage: 1 x 1200 GB SAS, 10000 RPM
Other: None

OS: Red Hat Enterprise Linux Server release 7.4 (Maipo)
Compiler: C/C++: Version 18.0.0.128 of Intel C/C++ Compiler for Linux;
Fortran: Version 18.0.0.128 of Intel Fortran Compiler for Linux
Parallel: Yes
Firmware: Version 0.62 Released Mar-2018
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other: None

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Huawei

Huawei 1288H V5 (Intel Xeon Gold 6144)

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<th>SPECspeed2017_fp_base</th>
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CPU2017 License: 3175
Test Sponsor: Huawei
Tested by: Huawei

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603.bwaves_s 16
607.cactuBSSN_s 16
619.lbm_s 16
621.wrf_s 16
627.cam4_s 16
628.pop2_s 16
638.imagick_s 16
644.nab_s 16
649.fotonik3d_s 16
654.roms_s 16

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Hardware

Software
Huawei
Huawei 1288H V5 (Intel Xeon Gold 6144)

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Results Table

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<td>628.pop2_s</td>
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<td>644.nab_s</td>
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<td>654.roms_s</td>
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<td>114</td>
<td>140</td>
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</tbody>
</table>

SPECspeed2017_fp_base = 88.9
SPECspeed2017_fp_peak = 91.1

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

General Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,compact"
OMP_STACKSIZE = "192M"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM
memory using Redhat Enterprise Linux 7.4
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
Yes: 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.

Platform Notes

BIOS configuration:
Power Policy Set to Load Balance
Hyper-Threading Set to Disable

(Continued on next page)
Huawei

Huawei 1288H V5 (Intel Xeon Gold 6144)

**SPECspeed2017_fp_base** = 88.9

**SPECspeed2017_fp_peak** = 91.1

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**Platform Notes (Continued)**

XPT Prefetch Set to Enabled
Sysinfo program /spec2017/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bccc091c0f
running on localhost.localdomain Tue Jul 10 19:37:36 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 6144 CPU @ 3.50GHz
  2 "physical id"s (chips)
  16 "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 : 8
siblings : 8
physical 0: cores 0 1 2 3 10 11 24 27
physical 1: cores 0 4 5 6 16 19 20 22

From lscpu:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 16
On-line CPU(s) list: 0-15
Thread(s) per core: 1
Core(s) per socket: 8
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Gold 6144 CPU @ 3.50GHz
Stepping: 4
CPU MHz: 3501.000
CPU max MHz: 3501.0000
CPU min MHz: 1200.0000
BogoMIPS: 7000.00
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 25344K
NUMA node0 CPU(s): 0-7
NUMA node1 CPU(s): 8-15
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov

(Continued on next page)
## SPEC CPU2017 Floating Point Speed Result

### Huawei

**Huawei 1288H V5 (Intel Xeon Gold 6144)**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<td>SPECspeed2017_fp_peak</td>
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**CPU2017 License:** 3175  
**Test Sponsor:** Huawei  
**Test Date:** Jul-2018  
**Hardware Availability:** Jul-2017  
**Tested by:** Huawei  
**Software Availability:** Jan-2018

---

### Platform Notes (Continued)

```
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
aperfmperf eagerfp pro pchmulqdq dtes64 monitor ds CPL vmx smx est tm2 sse4 fma
cx16 xptr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
xsave avx f16c rdrand lahf_lm abm 3dnowprefetch epb cat_13 cdp_13 invpcid_single
integrated pt spec cctrl ibp support tpr_shadow vnumi flexpriority ept vpid ftsgbase
rtc_adjust bni btl he avx2 smep bmi2 3rms invpcid rtm cqm mpx rdt_a avx512f avx512dq
rdseed adx mriet clflushopt clwb avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1
cqm_l1c cqm_occup_l1c cqm_mbm_total cqm_mbm_local dtherm ida arat pln pts
```

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
node 0 size: 194741 MB
node 0 free: 188672 MB
node 1 cpus: 8 9 10 11 12 13 14 15
node 1 size: 196608 MB
node 1 free: 191014 MB
node distances:
node   0   1
0:  10  21
1:  21  10
```

From `/proc/meminfo`

```
MemTotal:       394174996 kB
HugePages_Total:       0
Hugepagesize:       2048 kB
```

From `/etc/*release* /etc/*version*

```
NAME="Red Hat Enterprise Linux Server"
VERSION="7.4 (Maipo)"
ID="rhel"
ID_LIKE="fedora"
VARIANT="Server"
VARIANT_ID="server"
VERSION_ID="7.4"
PRETTY_NAME="Red Hat Enterprise Linux Server 7.4 (Maipo)"
redhat-release: Red Hat Enterprise Linux Server release 7.4 (Maipo)
system-release: Red Hat Enterprise Linux Server release 7.4 (Maipo)
system-release-cpe: cpe:/o:redhat:enterprise_linux:7.4:ga:server
```

```
uname -a:
```

(Continued on next page)
Huawei
Huawei 1288H V5 (Intel Xeon Gold 6144)

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Platform Notes (Continued)

Linux localhost.localdomain 3.10.0-693.11.6.el7.x86_64 #1 SMP Thu Dec 28 14:23:39 EST 2017 x86_64 x86_64 x86_64 GNU/Linux

run-level 3 Jul 9 12:16

SPEC is set to: /spec2017
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/rhel-root xfs 1.8T 34G 1.8T 2%/

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.
BIOS INSYDE Corp. 0.62 03/26/2018
Memory:
24x Samsung M393A2K43BB1-CTD 16 GB 2 rank 2666

(End of data from sysinfo program)

Compiler Version Notes

========================================================================================================
CC 619.lbm_s(base) 638.imagick_s(base, peak) 644.nab_s(base, peak)
========================================================================================================
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
========================================================================================================

CC 619.lbm_s(peak)
========================================================================================================
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
========================================================================================================

========================================================================================================
FC 607.cactuBSSN_s(base)
========================================================================================================
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
(Continued on next page)
Huawei

Huawei 1288H V5 (Intel Xeon Gold 6144)

**SPEC CPU2017 Floating Point Speed Result**

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**Test Date:** Jul-2018

**Test Sponsor:** Huawei

**Hardware Availability:** Jul-2017

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**Compiler Version Notes (Continued)**

```plaintext
FC  607.cactuBSSN_s(peak)
```

```text
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

```plaintext
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

```plaintext
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

---

```plaintext
FC  603.bwaves_s(base) 649.fotonik3d_s(base) 654.roms_s(base)
```

```plaintext
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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```plaintext
FC  603.bwaves_s(peak) 649.fotonik3d_s(peak) 654.roms_s(peak)
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```plaintext
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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```plaintext
CC  621.wrf_s(base) 627.cam4_s(base, peak) 628.pop2_s(base)
```

```plaintext
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

```plaintext
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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```plaintext
CC  621.wrf_s(peak) 628.pop2_s(peak)
```

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ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
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```plaintext
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Huawei 1288H V5 (Intel Xeon Gold 6144)

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Base Compiler Invocation

C benchmarks:
icc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
ifort icc

Benchmarks using Fortran, C, and C++:
icpc icc ifort

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:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP

Fortran benchmarks:
-DSPEC_OPENMP -xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=3 -qopenmp
-nostandard-realloc-lhs -align array32byte

Benchmarks using both Fortran and C:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
-nostandard-realloc-lhs -align array32byte

(Continued on next page)
**Huawei**

**Huawei 1288H V5 (Intel Xeon Gold 6144)**

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**Base Optimization Flags (Continued)**

Benchmarks using Fortran, C, and C++:

-xCORE-AVX2
-ipo
-o3
-no-prec-div
-qopt-prefetch
-ffinite-math-only
-qopt-mem-layout-trans=3
-qopenmp
-DSPEC_OPENMP
-nostandard-realloc-lhs
-align array32byte

**Base Other Flags**

C benchmarks:

- m64
- std=c11

Fortran benchmarks:

- m64

Benchmarks using both Fortran and C:

- m64
- std=c11

Benchmarks using Fortran, C, and C++:

- m64
- std=c11

**Peak Compiler Invocation**

C benchmarks:

- icc

Fortran benchmarks:

- ifort

Benchmarks using both Fortran and C:

- ifort
- icc

Benchmarks using Fortran, C, and C++:

- icpc
- icc
- ifort

**Peak Portability Flags**

Same as Base Portability Flags
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### Peak Optimization Flags

**C benchmarks:**

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<th>Flags</th>
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<tr>
<td>619.lbm_s</td>
<td>-prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX2 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP</td>
</tr>
<tr>
<td>638.imagick_s</td>
<td>basepeak = yes</td>
</tr>
<tr>
<td>644.nab_s</td>
<td>-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP</td>
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**Fortran benchmarks:**

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<td>603.bwaves_s</td>
<td>-prof-gen(pass 1) -prof-use(pass 2) -DSPEC_SUPPRESS_OPENMP -DSPEC_OPENMP -O2 -xCORE-AVX2 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3 -qopenmp -nostandard-realloc-lhs -align array32byte</td>
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<tr>
<td>649.fotonik3d_s</td>
<td>basepeak = yes</td>
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<tr>
<td>654.roms_s</td>
<td>Same as 603.bwaves_s</td>
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**Benchmarks using both Fortran and C:**

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<td>621.wrf_s</td>
<td>-prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX2 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte</td>
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<tr>
<td>627.cam4_s</td>
<td>basepeak = yes</td>
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<td>628.pop2_s</td>
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<thead>
<tr>
<th>Benchmark</th>
<th>Flags</th>
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<td>-prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX2 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP -nostandard-realloc-lhs -align array32byte</td>
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Huawei

Huawei 1288H V5 (Intel Xeon Gold 6144)

**SPEC speed2017_fp_peak = 91.1**

**SPEC speed2017_fp_base = 88.9**

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<td>Software Availability:</td>
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**Peak Other Flags**

C benchmarks:
- `-m64 -std=c11`

Fortran benchmarks:
- `-m64`

Benchmarks using both Fortran and C:
- `-m64 -std=c11`

Benchmarks using Fortran, C, and C++:
- `-m64 -std=c11`

The flags files that were used to format this result can be browsed at

http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.html


You can also download the XML flags sources by saving the following links:

http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.xml

http://www.spec.org/cpu2017/flags/Huawei-Platform-Settings-SKL-V1.9-revC.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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