



# SPEC CPU®2017 Floating Point Rate Result

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**Huawei**

(Test Sponsor: China Academy of Information and Communications Technology)

**Huawei 2288H V5 (Intel Xeon Silver 4214R)**

CPU2017 License: 6177

**Test Sponsor:** China Academy of Information and Communications Technology  
**Tested by:** China Academy of Information and Communications Technology

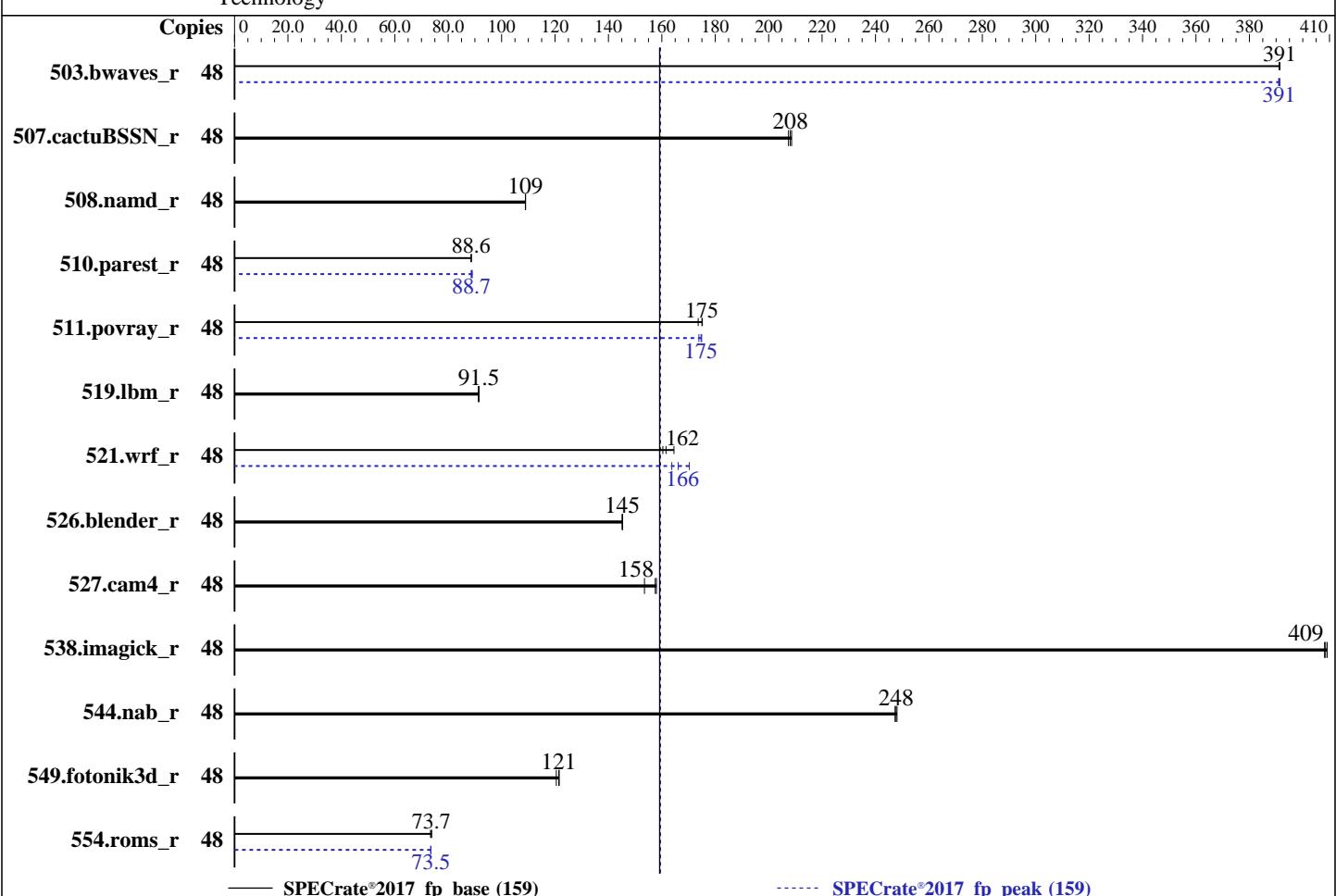
**SPECrate®2017\_fp\_base = 159**

**SPECrate®2017\_fp\_peak = 159**

**Test Date:** Jul-2020

**Hardware Availability:** Mar-2020

**Software Availability:** Apr-2020



## Hardware

CPU Name: Intel Xeon Silver 4214R  
Max MHz: 3500  
Nominal: 2400  
Enabled: 24 cores, 2 chips, 2 threads/core  
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: 16.5 MB I+D on chip per chip  
Other: None  
Memory: 768 GB (24 x 32 GB 2Rx4 PC4-2933Y-R, running at 2400)  
Storage: 1 x 800 GB SAS SSD  
Other: None

OS:

SUSE Linux Enterprise Server 12 SP4 (x86\_64)

Kernel 4.12.14-94.41-default

Compiler:  
C/C++: Version 19.1.1.217 of Intel C/C++ Compiler for Linux;  
Fortran: Version 19.1.1.217 of Intel Fortran Compiler for Linux

Parallel:

No

Firmware:

Version 6.83 released Jun-2019

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

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## Software (Continued)

Power Management: BIOS set to prefer performance at the cost of additional power usage.

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r	48	1230	391	1231	391	<b>1230</b>	<b>391</b>	48	1230	391	<b>1231</b>	<b>391</b>	1231	391
507.cactuBSSN_r	48	293	207	291	209	<b>292</b>	<b>208</b>	48	293	207	291	209	<b>292</b>	<b>208</b>
508.namd_r	48	418	109	<b>419</b>	<b>109</b>	419	109	48	418	109	<b>419</b>	<b>109</b>	419	109
510.parest_r	48	<b>1417</b>	<b>88.6</b>	1417	88.6	1417	88.6	48	<b>1415</b>	<b>88.7</b>	1417	88.6	<b>1410</b>	89.0
511.povray_r	48	646	174	640	175	<b>640</b>	<b>175</b>	48	645	174	<b>642</b>	<b>175</b>	641	175
519.lbm_r	48	<b>553</b>	<b>91.5</b>	554	91.3	553	91.5	48	<b>553</b>	<b>91.5</b>	554	91.3	<b>553</b>	91.5
521.wrf_r	48	670	160	653	165	<b>666</b>	<b>162</b>	48	<b>647</b>	<b>166</b>	631	170	<b>657</b>	164
526.blender_r	48	504	145	<b>503</b>	<b>145</b>	503	145	48	504	145	<b>503</b>	<b>145</b>	503	145
527.cam4_r	48	531	158	547	154	<b>533</b>	<b>158</b>	48	531	158	547	154	<b>533</b>	<b>158</b>
538.imagick_r	48	292	408	292	409	<b>292</b>	<b>409</b>	48	292	408	292	409	<b>292</b>	<b>409</b>
544.nab_r	48	326	248	327	247	<b>326</b>	<b>248</b>	48	326	248	327	247	<b>326</b>	<b>248</b>
549.fotonik3d_r	48	<b>1541</b>	<b>121</b>	1552	120	1539	122	48	<b>1541</b>	<b>121</b>	1552	120	<b>1539</b>	122
554.roms_r	48	1034	73.8	<b>1035</b>	<b>73.7</b>	1039	73.4	48	<b>1038</b>	<b>73.5</b>	1038	73.5	<b>1037</b>	73.5

**SPECrate®2017\_fp\_base = 159**

**SPECrate®2017\_fp\_peak = 159**

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Compiler Notes

The inconsistent Compiler version information under Compiler Version section is due to a discrepancy in Intel Compiler. The correct version of C/C++ compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux The correct version of Fortran compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux SPEC has learned that this result, which used an evaluation compiler, was submitted contrary to the compiler license terms.

Intel has granted a one-time waiver for this result.

## Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

## Operating System Notes

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



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## Environment Variables Notes

Environment variables set by runcpu before the start of the run:

```
LD_LIBRARY_PATH =
    "/opt/intel/compilers_and_libraries_2020.1.217/linux/compiler/lib/intel6
     4:/usr/local/jemalloc64-5.0.1"
MALLOC_CONF = "retain:true"
```

## General Notes

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
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
```

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  
sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

## Platform Notes

BIOS configuration:

Power Policy Set to Performance

SNC Set to Enabled

IMC Interleaving Set to 1-way Interleave

XPT Prefetch Set to Enabled

Sysinfo program /spec2017/bin/sysinfo

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on linux-r48i Wed Jul 22 23:24:58 2020

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) Silver 4214R CPU @ 2.40GHz
        2 "physical id"s (chips)
```

(Continued on next page)



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## Platform Notes (Continued)

```
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 : 12
siblings   : 24
physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13
physical 1: cores 0 1 2 3 4 5 8 9 10 11 12 13
```

From lscpu:

```
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:   2
Core(s) per socket:   12
Socket(s):            2
NUMA node(s):          4
Vendor ID:             GenuineIntel
CPU family:            6
Model:                 85
Model name:            Intel(R) Xeon(R) Silver 4214R CPU @ 2.40GHz
Stepping:              7
CPU MHz:               2400.000
CPU max MHz:          3500.0000
CPU min MHz:          1000.0000
BogoMIPS:              4800.00
Virtualization:       VT-x
L1d cache:             32K
L1i cache:             32K
L2 cache:              1024K
L3 cache:              16896K
NUMA node0 CPU(s):    0-2,6-8,24-26,30-32
NUMA node1 CPU(s):    3-5,9-11,27-29,33-35
NUMA node2 CPU(s):    12-14,18-20,36-38,42-44
NUMA node3 CPU(s):    15-17,21-23,39-41,45-47
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 xtopology nonstop_tsc cpuid
                      aperfmpfperf pni pclmulqdq dtes64 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_l3 cdp_l3 invpcid_single ssbd
                      mba ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmi1
                      hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a avx512f avx512dq rdseed adx smap
                      clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves
```

(Continued on next page)



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## Platform Notes (Continued)

```
cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local dtherm ida arat pln pts pku ospke  
avx512_vnni flush_lld arch_capabilities
```

```
/proc/cpuinfo cache data  
cache size : 16896 KB
```

```
From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a physical chip.
```

```
available: 4 nodes (0-3)  
node 0 cpus: 0 1 2 6 7 8 24 25 26 30 31 32  
node 0 size: 191975 MB  
node 0 free: 191192 MB  
node 1 cpus: 3 4 5 9 10 11 27 28 29 33 34 35  
node 1 size: 193533 MB  
node 1 free: 192910 MB  
node 2 cpus: 12 13 14 18 19 20 36 37 38 42 43 44  
node 2 size: 193533 MB  
node 2 free: 192909 MB  
node 3 cpus: 15 16 17 21 22 23 39 40 41 45 46 47  
node 3 size: 193295 MB  
node 3 free: 192707 MB  
node distances:  
node 0 1 2 3  
 0: 10 11 21 21  
 1: 11 10 21 21  
 2: 21 21 10 11  
 3: 21 21 11 10
```

```
From /proc/meminfo  
MemTotal: 790872868 kB  
HugePages_Total: 0  
Hugepagesize: 2048 kB
```

```
From /etc/*release* /etc/*version*  
SuSE-release:  
  SUSE Linux Enterprise Server 12 (x86_64)  
  VERSION = 12  
  PATCHLEVEL = 4  
  # This file is deprecated and will be removed in a future service pack or release.  
  # Please check /etc/os-release for details about this release.  
os-release:  
  NAME="SLES"  
  VERSION="12-SP4"  
  VERSION_ID="12.4"  
  PRETTY_NAME="SUSE Linux Enterprise Server 12 SP4"
```

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## Platform Notes (Continued)

```
ID="sles"  
ANSI_COLOR="0;32"  
CPE_NAME="cpe:/o:suse:sles:12:sp4"
```

```
uname -a:  
Linux linux-r48i 4.12.14-94.41-default #1 SMP Wed Oct 31 12:25:04 UTC 2018 (3090901)  
x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

CVE-2018-3620 (L1 Terminal Fault):	Not affected
Microarchitectural Data Sampling:	No status reported
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: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2):	Mitigation: Indirect Branch Restricted Speculation, IBPB, IBRS_FW

run-level 3 Jul 22 12:03

SPEC is set to: /spec2017

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda3	xfs	730G	119G	612G	17%	/

```
From /sys/devices/virtual/dmi/id  
BIOS: INSYDE Corp. 6.83 06/29/2019  
Vendor: Huawei  
Product: 2288H V5  
Product Family: Purley  
Serial: Huawei
```

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.

Memory:

24x Samsung M393A4K40CB2-CVF 32 GB 2 rank 2933, configured at 2400

(End of data from sysinfo program)



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## Compiler Version Notes

=====

C | 519.lbm\_r(base, peak) 538.imagick\_r(base, peak)  
| 544.nab\_r(base, peak)

=====

Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1  
NextGen Build 20200304  
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

=====

C++ | 508.namd\_r(base, peak) 510.parest\_r(base, peak)

=====

Intel(R) C++ Compiler for applications running on Intel(R) 64, Version 2021.1  
NextGen Build 20200304  
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

=====

C++, C | 511.povray\_r(base, peak) 526.blender\_r(base, peak)

=====

Intel(R) C++ Compiler for applications running on Intel(R) 64, Version 2021.1  
NextGen Build 20200304

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Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1  
NextGen Build 20200304

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=====

C++, C, Fortran | 507.cactusBSSN\_r(base, peak)

=====

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NextGen Build 20200304

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Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1  
NextGen Build 20200304

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Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
64, Version 19.1.1.217 Build 20200306

Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

ifort: NOTE: The evaluation period for this product ends on 30-jul-2020 UTC.

=====

Fortran | 503.bwaves\_r(base, peak) 549.fotonik3d\_r(base, peak)

=====

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## Compiler Version Notes (Continued)

| 554.roms\_r(base, peak)

-----  
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
64, Version 19.1.1.217 Build 20200306

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ifort: NOTE: The evaluation period for this product ends on 30-jul-2020 UTC.

=====

Fortran, C | 521.wrf\_r(base) 527.cam4\_r(base, peak)

-----  
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
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=====

Fortran, C | 521.wrf\_r(peak)

-----  
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
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Intel(R) C Compiler for applications running on Intel(R) 64,  
Version 19.1.1.217 Build 20200306

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icc: NOTE: The evaluation period for this product ends on 30-jul-2020 UTC.

=====

Fortran, C | 521.wrf\_r(base) 527.cam4\_r(base, peak)

-----  
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
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## Compiler Version Notes (Continued)

=====

Fortran, C | 521.wrf\_r(peak)

=====

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.1.1.217 Build 20200306

Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

ifort: NOTE: The evaluation period for this product ends on 30-jul-2020 UTC.

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.1.1.217 Build 20200306

Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

icc: NOTE: The evaluation period for this product ends on 30-jul-2020 UTC.

=====

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

ifort icc

Benchmarks using both C and C++:

icpc icc

Benchmarks using Fortran, C, and C++:

icpc icc ifort

## Base Portability Flags

503.bwaves\_r: -DSPEC\_LP64

507.cactusBSSN\_r: -DSPEC\_LP64

508.namd\_r: -DSPEC\_LP64

510.parest\_r: -DSPEC\_LP64

511.povray\_r: -DSPEC\_LP64

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## Base Portability Flags (Continued)

```
519.lbm_r: -DSPEC_LP64
521.wrf_r: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
526.blender_r: -DSPEC_LP64 -DSPEC_LINUX -funsigned-char
527.cam4_r: -DSPEC_LP64 -DSPEC_CASE_FLAG
538.imagick_r: -DSPEC_LP64
544.nab_r: -DSPEC_LP64
549.fotonik3d_r: -DSPEC_LP64
554.roms_r: -DSPEC_LP64
```

## Base Optimization Flags

C benchmarks:

```
-m64 -qnextgen -std=c11
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs
-fuse-ld=gold -xCORE-AVX512 -Ofast -ffast-math -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -L/usr/local/jemalloc64-5.0.1/
-ljemalloc
```

C++ benchmarks:

```
-m64 -qnextgen -Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -fuse-ld=gold -xCORE-AVX512 -Ofast -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc64-5.0.1/ -ljemalloc
```

Fortran benchmarks:

```
-m64 -Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs
-fuse-ld=gold -xCORE-AVX512 -O3 -ipo -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-multiple-gather-scatter-by-shuffles
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte
-auto -mbranches-within-32B-boundaries -L/usr/local/jemalloc64-5.0.1/
-ljemalloc
```

Benchmarks using both Fortran and C:

```
-m64 -qnextgen -std=c11
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs
-fuse-ld=gold -xCORE-AVX512 -Ofast -ffast-math -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -O3 -ipo -no-prec-div
-qopt-prefetch -ffinite-math-only
-qopt-multiple-gather-scatter-by-shuffles -nostandard-realloc-lhs
-align array32byte -auto -mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/ -ljemalloc
```

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# SPEC CPU®2017 Floating Point Rate Result

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**Huawei**

(Test Sponsor: China Academy of Information and Communications Technology)

**Huawei 2288H V5 (Intel Xeon Silver 4214R)**

**SPECrate®2017\_fp\_base = 159**

**SPECrate®2017\_fp\_peak = 159**

**CPU2017 License:** 6177

**Test Sponsor:** China Academy of Information and Communications Technology

**Tested by:** China Academy of Information and Communications Technology

**Test Date:** Jul-2020

**Hardware Availability:** Mar-2020

**Software Availability:** Apr-2020

## Base Optimization Flags (Continued)

Benchmarks using both C and C++:

```
-m64 -qnextgen -std=c11  
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs  
-fuse-ld=gold -xCORE-AVX512 -Ofast -ffast-math -festo -mfpmath=sse  
-funroll-loops -qopt-mem-layout-trans=4 -L/usr/local/jemalloc64-5.0.1/  
-ljemalloc
```

Benchmarks using Fortran, C, and C++:

```
-m64 -qnextgen -std=c11  
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs  
-fuse-ld=gold -xCORE-AVX512 -Ofast -ffast-math -festo -mfpmath=sse  
-funroll-loops -qopt-mem-layout-trans=4 -O3 -ipo -no-prec-div  
-qopt-prefetch -ffinite-math-only  
-qopt-multiple-gather-scatter-by-shuffles -nostandard-realloc-lhs  
-align array32byte -auto -mbranches-within-32B-boundaries  
-L/usr/local/jemalloc64-5.0.1/ -ljemalloc
```

## Peak Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

ifort icc

Benchmarks using both C and C++:

icpc icc

Benchmarks using Fortran, C, and C++:

icpc icc ifort



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## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

519.lbm\_r: basepeak = yes

538.imagick\_r: basepeak = yes

544.nab\_r: basepeak = yes

C++ benchmarks:

508.namd\_r: basepeak = yes

510.parest\_r: -m64 -qnextgen  
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries  
-Wl,-z,muldefs -fuse-ld=gold -xCORE-AVX512 -Ofast  
-ffast-math -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -L/usr/local/jemalloc64-5.0.1/  
-ljemalloc

Fortran benchmarks:

503.bwaves\_r: -m64 -Wl,-plugin-opt=-x86-branches-within-32B-boundaries  
-Wl,-z,muldefs -fuse-ld=gold -xCORE-AVX512 -O3 -ipo  
-no-prec-div -qopt-prefetch -ffinite-math-only  
-qopt-multiple-gather-scatter-by-shuffles  
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs  
-align array32byte -auto -mbranches-within-32B-boundaries  
-L/usr/local/jemalloc64-5.0.1/ -ljemalloc

549.fotonik3d\_r: basepeak = yes

554.roms\_r: Same as 503.bwaves\_r

Benchmarks using both Fortran and C:

521.wrf\_r: -prof-gen(pass 1) -prof-use(pass 2) -xCORE-AVX512 -O3  
-ipo -no-prec-div -qopt-prefetch -ffinite-math-only  
-qopt-multiple-gather-scatter-by-shuffles

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## Peak Optimization Flags (Continued)

521.wrf\_r (continued):

```
-qopt-mem-layout-trans=4 -mbranches-within-32B-boundaries  
-nostandard-realloc-lhs -align array32byte -auto  
-L/usr/local/jemalloc64-5.0.1/ -ljemalloc
```

527.cam4\_r: basepeak = yes

Benchmarks using both C and C++:

```
511.povray_r: -m64 -qnxtgen -std=c11  
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries  
-Wl,-z,muldefs -fuse-ld=gold -flto -xCORE-AVX512 -Ofast  
-qopt-mem-layout-trans=4 -L/usr/local/jemalloc64-5.0.1/  
-ljemalloc
```

526.blender\_r: basepeak = yes

Benchmarks using Fortran, C, and C++:

507.cactuBSSN\_r: basepeak = yes

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

[http://www.spec.org/cpu2017/flags/Intel-ic19.lul-official-linux64\\_revB.html](http://www.spec.org/cpu2017/flags/Intel-ic19.lul-official-linux64_revB.html)  
<http://www.spec.org/cpu2017/flags/CAICT-Platform-Settings-V1.0.2020-08-21.html>

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

[http://www.spec.org/cpu2017/flags/Intel-ic19.lul-official-linux64\\_revB.xml](http://www.spec.org/cpu2017/flags/Intel-ic19.lul-official-linux64_revB.xml)  
<http://www.spec.org/cpu2017/flags/CAICT-Platform-Settings-V1.0.2020-08-21.xml>

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