



# SPEC® CPU2017 Integer Rate Result

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**Huawei**

**Huawei 8100 V5 (Intel Xeon Platinum 8180)**

**SPECrate2017\_int\_base = 1190**

**SPECrate2017\_int\_peak = Not Run**

**CPU2017 License:** 3175

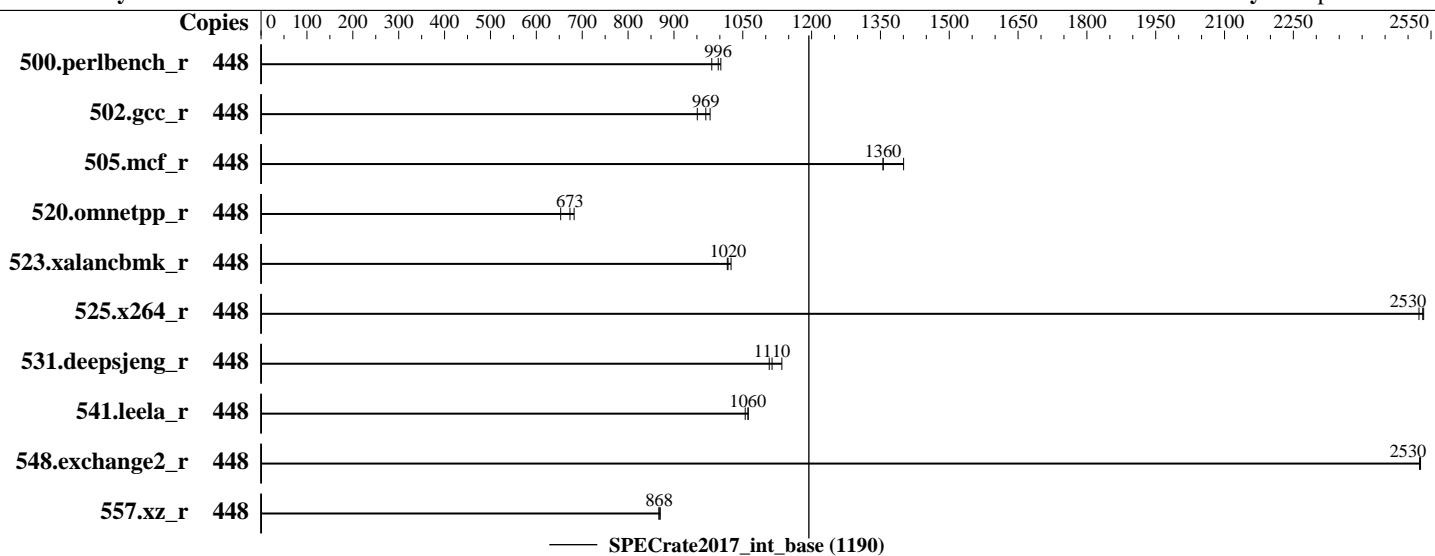
**Test Date:** Nov-2017

**Test Sponsor:** Huawei

**Hardware Availability:** Dec-2017

**Tested by:** Huawei

**Software Availability:** Sep-2017



## Hardware

CPU Name: Intel Xeon Platinum 8180  
 Max MHz.: 3800  
 Nominal: 2500  
 Enabled: 224 cores, 8 chips, 2 threads/core  
 Orderable: 4,8 chips  
 Cache L1: 32 KB I + 32 KB D on chip per core  
 L2: 1 MB I+D on chip per core  
 L3: 38.5 MB I+D on chip per chip  
 Other: None  
 Memory: 1536 GB (48 x 32 GB 2Rx4 PC4-2666V-R)  
 Storage: 2 x 300 GB SAS, 10K RPM  
 Other: None

## Software

OS: SUSE Linux Enterprise Server 12 SP2  
 4.4.21-69-default  
 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: No  
 Firmware: Version 0.65 released Dec-2017  
 File System: ext4  
 System State: Run level 5 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other: jemalloc: jemalloc memory allocator library  
 V5.0.1;  
 jemalloc: configured and built at default for  
 32bit (i686) and 64bit (x86\_64) targets;  
 jemalloc: built with the RedHat Enterprise 7.4,  
 and the system compiler gcc 4.8.5;  
 jemalloc: sources available from jemalloc.net or  
 releases



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## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	448	<b>716</b>	<b>996</b>	712	1000	726	982							
502.gcc_r	448	667	951	648	979	<b>654</b>	<b>969</b>							
505.mcf_r	448	517	1400	<b>534</b>	<b>1360</b>	534	1360							
520.omnetpp_r	448	861	682	<b>873</b>	<b>673</b>	900	653							
523.xalancbmk_r	448	462	1020	<b>465</b>	<b>1020</b>	466	1020							
525.x264_r	448	311	2520	310	2530	<b>310</b>	<b>2530</b>							
531.deepsjeng_r	448	452	1140	<b>461</b>	<b>1110</b>	464	1110							
541.leela_r	448	699	1060	<b>699</b>	<b>1060</b>	703	1060							
548.exchange2_r	448	465	2530	<b>465</b>	<b>2530</b>	464	2530							
557.xz_r	448	556	870	558	867	<b>557</b>	<b>868</b>							

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

## 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"

## General Notes

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

LD\_LIBRARY\_PATH = "/home/speccpu2017/lib/ia32:/home/speccpu2017/lib/intel64"

LD\_LIBRARY\_PATH = "/home/speccpu2017/je5.0.1-32:/home/speccpu2017/je5.0.1-64"

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

runcpu command invoked through numactl i.e.:

numactl --interleave=all runcpu <etc>



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## Platform Notes

BIOS configuration:

Sub NUMA Clusterf"SNCF@set to enabled  
IMC (Integrated memory controller) Interleaving set to 1 way interleave  
Xtended Prediction Table (XPT) Prefetch set to Enable  
Memory Patrol Scrub set to Disable  
Last Level Cache (LLC) Prefetch set to Disable  
Sysinfo program /home/speccpu2017/bin/sysinfo  
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f  
running on linux-s4x9 Thu Dec 7 21:45:43 2017

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) Platinum 8180 CPU @ 2.50GHz
  8 "physical id"s (chips)
  448 "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 : 56
  physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 2: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 3: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 4: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 5: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 6: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
  physical 7: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27
  28 29 30
```

From lscpu:

Architecture:	x86_64
CPU op-mode(s):	32-bit, 64-bit
Byte Order:	Little Endian
CPU(s):	448
On-line CPU(s) list:	0-447
Thread(s) per core:	2
Core(s) per socket:	28

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## Platform Notes (Continued)

Socket(s): 8  
NUMA node(s): 16  
Vendor ID: GenuineIntel  
CPU family: 6  
Model: 85  
Model name: Intel(R) Xeon(R) Platinum 8180 CPU @ 2.50GHz  
Stepping: 4  
CPU MHz: 2501.000  
CPU max MHz: 2501.0000  
CPU min MHz: 1000.0000  
BogoMIPS: 5000.05  
Virtualization: VT-x  
L1d cache: 32K  
L1i cache: 32K  
L2 cache: 1024K  
L3 cache: 39424K  
NUMA node0 CPU(s): 0-3,7-9,14-17,21-23,224-227,231-233,238-241,245-247  
NUMA node1 CPU(s): 4-6,10-13,18-20,24-27,228-230,234-237,242-244,248-251  
NUMA node2 CPU(s): 28-31,35-37,42-45,49-51,252-255,259-261,266-269,273-275  
NUMA node3 CPU(s): 32-34,38-41,46-48,52-55,256-258,262-265,270-272,276-279  
NUMA node4 CPU(s): 56-59,63-65,70-73,77-79,280-283,287-289,294-297,301-303  
NUMA node5 CPU(s): 60-62,66-69,74-76,80-83,284-286,290-293,298-300,304-307  
NUMA node6 CPU(s): 84-87,91-93,98-101,105-107,308-311,315-317,322-325,329-331  
NUMA node7 CPU(s): 88-90,94-97,102-104,108-111,312-314,318-321,326-328,332-335  
NUMA node8 CPU(s): 112-115,119-121,126-129,133-135,336-339,343-345,350-353,357-359  
NUMA node9 CPU(s): 116-118,122-125,130-132,136-139,340-342,346-349,354-356,360-363  
NUMA node10 CPU(s): 140-143,147-149,154-157,161-163,364-367,371-373,378-381,385-387  
NUMA node11 CPU(s): 144-146,150-153,158-160,164-167,368-370,374-377,382-384,388-391  
NUMA node12 CPU(s): 168-171,175-177,182-185,189-191,392-395,399-401,406-409,413-415  
NUMA node13 CPU(s): 172-174,178-181,186-188,192-195,396-398,402-405,410-412,416-419  
NUMA node14 CPU(s): 196-199,203-205,210-213,217-219,420-423,427-429,434-437,441-443  
NUMA node15 CPU(s): 200-202,206-209,214-216,220-223,424-426,430-433,438-440,444-447  
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 aperfmpfperf eagerfpu 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 ida arat epb pln pts dtherm intel\_pt tpr\_shadow vnmi flexpriority ept vpid fsgsbase tsc\_adjust bmi1 hle avx2 smep bmi2

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## Platform Notes (Continued)

```
erms invpcid rtm cqmq mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd  
avx512bw avx512vl xsaveopt xsavec xgetbv1 cqmq_llc cqmq_occup_llc
```

```
/proc/cpuinfo cache data  
cache size : 39424 KB
```

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

```
available: 16 nodes (0-15)  
node 0 cpus: 0 1 2 3 7 8 9 14 15 16 17 21 22 23 224 225 226 227 231 232 233 238 239 240  
241 245 246 247  
node 0 size: 94995 MB  
node 0 free: 94347 MB  
node 1 cpus: 4 5 6 10 11 12 13 18 19 20 24 25 26 27 228 229 230 234 235 236 237 242 243  
244 248 249 250 251  
node 1 size: 96764 MB  
node 1 free: 96348 MB  
node 2 cpus: 28 29 30 31 35 36 37 42 43 44 45 49 50 51 252 253 254 255 259 260 261 266  
267 268 269 273 274 275  
node 2 size: 96764 MB  
node 2 free: 96399 MB  
node 3 cpus: 32 33 34 38 39 40 41 46 47 48 52 53 54 55 256 257 258 262 263 264 265 270  
271 272 276 277 278 279  
node 3 size: 96764 MB  
node 3 free: 96286 MB  
node 4 cpus: 56 57 58 59 63 64 65 70 71 72 73 77 78 79 280 281 282 283 287 288 289 294  
295 296 297 301 302 303  
node 4 size: 96764 MB  
node 4 free: 96402 MB  
node 5 cpus: 60 61 62 66 67 68 69 74 75 76 80 81 82 83 284 285 286 290 291 292 293 298  
299 300 304 305 306 307  
node 5 size: 96764 MB  
node 5 free: 96358 MB  
node 6 cpus: 84 85 86 87 91 92 93 98 99 100 101 105 106 107 308 309 310 311 315 316 317  
322 323 324 325 329 330 331  
node 6 size: 96764 MB  
node 6 free: 96408 MB  
node 7 cpus: 88 89 90 94 95 96 97 102 103 104 108 109 110 111 312 313 314 318 319 320  
321 326 327 328 332 333 334 335  
node 7 size: 96764 MB  
node 7 free: 96418 MB  
node 8 cpus: 112 113 114 115 119 120 121 126 127 128 129 133 134 135 336 337 338 339  
343 344 345 350 351 352 353 357 358 359  
node 8 size: 96764 MB  
node 8 free: 96386 MB  
node 9 cpus: 116 117 118 122 123 124 125 130 131 132 136 137 138 139 340 341 342 346  
347 348 349 354 355 356 360 361 362 363
```

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## Platform Notes (Continued)

```
node 9 size: 96764 MB
node 9 free: 96409 MB
node 10 cpus: 140 141 142 143 147 148 149 154 155 156 157 161 162 163 364 365 366 367
371 372 373 378 379 380 381 385 386 387
node 10 size: 96764 MB
node 10 free: 96421 MB
node 11 cpus: 144 145 146 150 151 152 153 158 159 160 164 165 166 167 368 369 370 374
375 376 377 382 383 384 388 389 390 391
node 11 size: 96764 MB
node 11 free: 96410 MB
node 12 cpus: 168 169 170 171 175 176 177 182 183 184 185 189 190 191 392 393 394 395
399 400 401 406 407 408 409 413 414 415
node 12 size: 96764 MB
node 12 free: 96401 MB
node 13 cpus: 172 173 174 178 179 180 181 186 187 188 192 193 194 195 396 397 398 402
403 404 405 410 411 412 416 417 418 419
node 13 size: 96764 MB
node 13 free: 96385 MB
node 14 cpus: 196 197 198 199 203 204 205 210 211 212 213 217 218 219 420 421 422 423
427 428 429 434 435 436 437 441 442 443
node 14 size: 96764 MB
node 14 free: 96417 MB
node 15 cpus: 200 201 202 206 207 208 209 214 215 216 220 221 222 223 424 425 426 430
431 432 433 438 439 440 444 445 446 447
node 15 size: 96604 MB
node 15 free: 96286 MB
node distances:
node   0   1   2   3   4   5   6   7   8   9   10  11  12  13  14  15
  0: 10  20  20  20  20  20  20  20  20  20  20  20  20  20  20  20
  1: 20  10  20  20  20  20  20  20  20  20  20  20  20  20  20  20
  2: 20  20  10  20  20  20  20  20  20  20  20  20  20  20  20  20
  3: 20  20  20  10  20  20  20  20  20  20  20  20  20  20  20  20
  4: 20  20  20  20  10  20  20  20  20  20  20  20  20  20  20  20
  5: 20  20  20  20  20  10  20  20  20  20  20  20  20  20  20  20
  6: 20  20  20  20  20  20  10  20  20  20  20  20  20  20  20  20
  7: 20  20  20  20  20  20  20  10  20  20  20  20  20  20  20  20
  8: 20  20  20  20  20  20  20  20  10  20  20  20  20  20  20  20
  9: 20  20  20  20  20  20  20  20  20  10  20  20  20  20  20  20
 10: 20  20  20  20  20  20  20  20  20  20  10  20  20  20  20  20
 11: 20  20  20  20  20  20  20  20  20  20  20  10  20  20  20  20
 12: 20  20  20  20  20  20  20  20  20  20  20  20  10  20  20  20
 13: 20  20  20  20  20  20  20  20  20  20  20  20  20  10  20  20
 14: 20  20  20  20  20  20  20  20  20  20  20  20  20  20  10  20
 15: 20  20  20  20  20  20  20  20  20  20  20  20  20  20  20  10
```

From /proc/meminfo

MemTotal: 1583408756 kB

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## Platform Notes (Continued)

HugePages\_Total: 0  
Hugepagesize: 2048 kB

```
/usr/bin/lsb_release -d
SUSE Linux Enterprise Server 12 SP2
```

```
From /etc/*release* /etc/*version*
SuSE-release:
    SUSE Linux Enterprise Server 12 (x86_64)
    VERSION = 12
    PATCHLEVEL = 2
    # 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-SP2"
    VERSION_ID="12.2"
    PRETTY_NAME="SUSE Linux Enterprise Server 12 SP2"
    ID="sles"
    ANSI_COLOR="0;32"
    CPE_NAME="cpe:/o:suse:sles:12:sp2"
```

```
uname -a:
Linux linux-s4x9 4.4.21-69-default #1 SMP Tue Oct 25 10:58:20 UTC 2016 (9464f67)
x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 5 Dec 7 21:43
```

```
SPEC is set to: /home/speccpu2017
Filesystem      Type  Size  Used  Avail Use% Mounted on
/dev/sda4        ext4  1.2T  255G  944G  22%  /home
```

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. 0.65 11/01/2017

Memory:

48x NO DIMM NO DIMM
48x Samsung M393A4K40BB2-CTD 32 GB 2 rank 2666

(End of data from sysinfo program)



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## Compiler Version Notes

```
=====
CC 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base)
    557.xz_r(base)
-----
```

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

```
=====
CXXC 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
    541.leela_r(base)
-----
```

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

```
=====
FC 548.exchange2_r(base)
-----
```

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

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

## Base Portability Flags

500.perlbench\_r: -DSPEC\_LP64 -DSPEC\_LINUX\_X64  
502.gcc\_r: -DSPEC\_LP64  
505.mcf\_r: -DSPEC\_LP64  
520.omnetpp\_r: -DSPEC\_LP64  
523.xalancbmk\_r: -DSPEC\_LP64 -DSPEC\_LINUX  
525.x264\_r: -DSPEC\_LP64  
531.deepsjeng\_r: -DSPEC\_LP64

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## **Base Portability Flags (Continued)**

541.leela\_r: -DSPEC\_LP64  
548.exchange2\_r: -DSPEC\_LP64  
557.xz r: -DSPEC\_LP64

# Base Optimization Flags

C benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc
```

## C++ benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-fopt-mem-layout-trans=3 -L/usr/local/ie5.0.1-64/lib -liemalloc
```

## Fortran benchmarks:

```
-fstrict-enums=1  
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte  
-L/usr/local/ie5.0.1-64/lib -lijemalloc
```

## Base Other Flags

C benchmarks:

-m64 -std=c11

## C++ benchmarks

-m64

## Fortran benchmarks:

-m64

The flags files that were used to format this result can be browsed at [this location](#).

<http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.htm>

<http://www.spec.org/cpu2017/flags/intel-icelake-official-linux3.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-V1.7.xml>



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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

Tested with SPEC CPU2017 v1.0.2 on 2017-12-07 08:45:43-0500.

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