



SPEC CPU®2017 Integer Rate Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

Fujitsu

PRIMEQUEST 3800E2, Intel Xeon Platinum 8268, 2.90GHz

SPECrate®2017_int_base = 1210

SPECrate®2017_int_peak = Not Run

CPU2017 License: 19

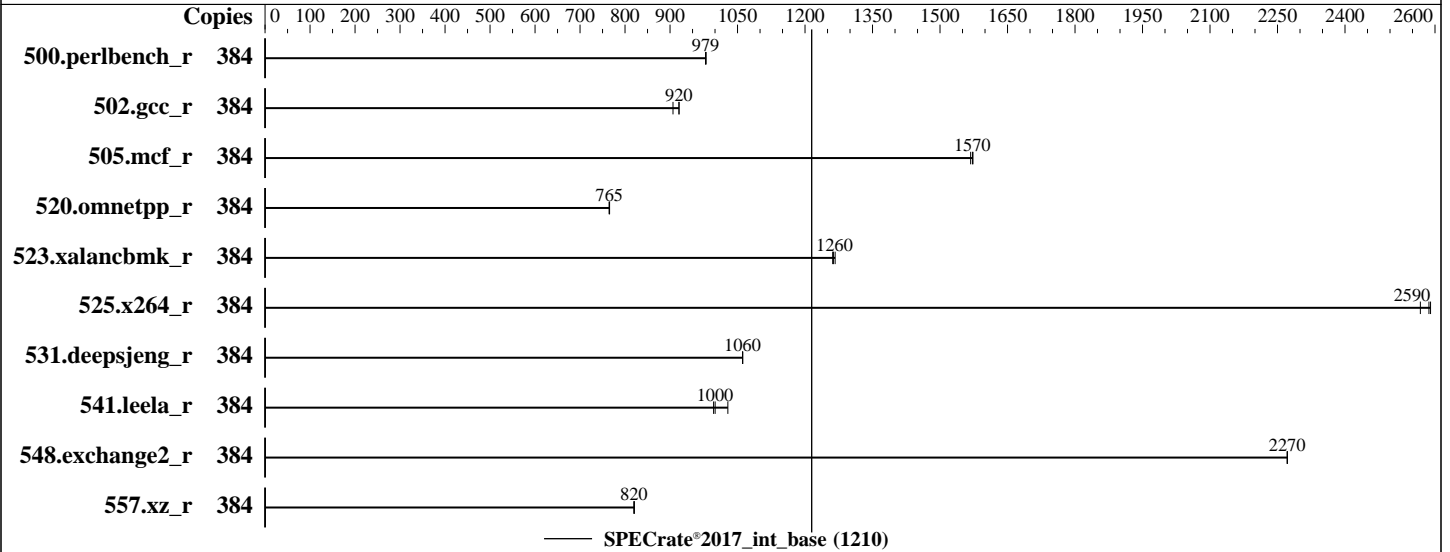
Test Sponsor: Fujitsu

Tested by: Fujitsu

Test Date: Jul-2019

Hardware Availability: Apr-2019

Software Availability: Feb-2019



Hardware

CPU Name: Intel Xeon Platinum 8268
 Max MHz: 3900
 Nominal: 2900
 Enabled: 192 cores, 8 chips, 2 threads/core
 Orderable: 2,4,6,8 chips
 Cache L1: 32 KB I + 32 KB D on chip per core
 L2: 1 MB I+D on chip per core
 L3: 35.75 MB I+D on chip per chip
 Other: None
 Memory: 3 TB (96 x 32 GB 2Rx4 PC4-2933Y-R)
 Storage: 1 x SAS HDD, 600GB, 10.5K RPM, SAS HDD
 Other: None

Software

OS: SUSE Linux Enterprise Server 15 4.12.14-25.28-default
 Compiler: C/C++: Version 19.0.1.144 of Intel C/C++ Compiler for Linux;
 Fortran: Version 19.0.1.144 of Intel Fortran Compiler for Linux
 Parallel: No
 Firmware: PRIMEQUEST 3800E2 Unified Firmware Version PB19043, Released Jun-2019
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: None
 Power Management: --



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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	384	625	979	624	980	624	979									
502.gcc_r	384	591	920	591	920	600	907									
505.mcf_r	384	394	1570	396	1570	395	1570									
520.omnetpp_r	384	658	765	659	765	658	766									
523.xalancbmk_r	384	321	1260	321	1260	320	1270									
525.x264_r	384	260	2590	262	2570	260	2590									
531.deepsjeng_r	384	414	1060	415	1060	415	1060									
541.leela_r	384	638	997	636	1000	618	1030									
548.exchange2_r	384	443	2270	443	2270	443	2270									
557.xz_r	384	506	820	506	820	505	821									

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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"
Kernel Boot Parameter set with : nohz_full=1-383

General Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/Benchmark/speccpu2017-int/lib/intel64"

Binaries compiled on a system with 1x Intel Core i9-7900X CPU + 32GB RAM
memory using Redhat Enterprise Linux 7.5

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.

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General Notes (Continued)

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:

```
DCU Streamer Prefetcher = Disabled
DDR4 Write Data CRC Protection = Disabled
HWPM Support = Native Mode with no legacy
Stale AtoS = Enabled
Sub Numa Clustering = Enabled
Uncore Frequency Scaling = Disabled
UPI Link L0p = Disabled
XPT Prefetch = Enabled
Fan Control = Full
Sysinfo program /home/Benchmark/speccpu2017-int/bin/sysinfo
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9
running on linux-8r5c Thu Jul 4 15:04:40 2019
```

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 8268 CPU @ 2.90GHz
 8 "physical id"s (chips)
384 "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 : 24
siblings : 48
physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
physical 1: cores 0 1 2 3 4 5 6 9 10 11 12 13 16 17 18 19 20 22 24 25 26 27 28 29
physical 2: cores 0 1 2 3 4 5 6 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
physical 3: cores 0 1 2 3 4 5 6 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
physical 4: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 22 25 26 27 28 29
physical 5: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
physical 6: cores 0 1 2 3 4 5 6 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
physical 7: cores 0 1 2 3 4 5 6 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29
```

From lscpu:

```
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 384
On-line CPU(s) list: 0-383
```

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Platform Notes (Continued)

```

Thread(s) per core: 2
Core(s) per socket: 24
Socket(s): 8
NUMA node(s): 16
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Platinum 8268 CPU @ 2.90GHz
Stepping: 6
CPU MHz: 2900.000
CPU max MHz: 3900.0000
CPU min MHz: 1200.0000
BogoMIPS: 5800.00
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 36608K
NUMA node0 CPU(s): 0-3,7-9,13-15,19,20,192-195,199-201,205-207,211,212
NUMA node1 CPU(s): 4-6,10-12,16-18,21-23,196-198,202-204,208-210,213-215
NUMA node2 CPU(s): 24-27,31,32,36-38,42-44,216-219,223,224,228-230,234-236
NUMA node3 CPU(s): 28-30,33-35,39-41,45-47,220-222,225-227,231-233,237-239
NUMA node4 CPU(s): 48-51,55,56,60-62,66-68,240-243,247,248,252-254,258-260
NUMA node5 CPU(s): 52-54,57-59,63-65,69-71,244-246,249-251,255-257,261-263
NUMA node6 CPU(s): 72-75,79,80,84-86,90-92,264-267,271,272,276-278,282-284
NUMA node7 CPU(s): 76-78,81-83,87-89,93-95,268-270,273-275,279-281,285-287
NUMA node8 CPU(s): 96-99,103-105,109-111,115,116,288-291,295-297,301-303,307,308
NUMA node9 CPU(s): 100-102,106-108,112-114,117-119,292-294,298-300,304-306,309-311
NUMA node10 CPU(s): 120-123,127-129,133-135,139,140,312-315,319-321,325-327,331,332
NUMA node11 CPU(s): 124-126,130-132,136-138,141-143,316-318,322-324,328-330,333-335
NUMA node12 CPU(s): 144-147,151,152,156-158,162-164,336-339,343,344,348-350,354-356
NUMA node13 CPU(s): 148-150,153-155,159-161,165-167,340-342,345-347,351-353,357-359
NUMA node14 CPU(s): 168-171,175,176,180-182,186-188,360-363,367,368,372-374,378-380
NUMA node15 CPU(s): 172-174,177-179,183-185,189-191,364-366,369-371,375-377,381-383
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
aperfmpperf 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_l3 cdp_l3
invpcid_single intel_ppin ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi
flexpriority ept vpid fsgsbase tsc_adjust bmil 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 cqm_llc cqm_occup_llc cqm_mbm_total
cqm_mbm_local dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req pku
ospke avx512_vnni flush_lld arch_capabilities

```

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Platform Notes (Continued)

```
/proc/cpuinfo cache data
cache size : 36608 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 13 14 15 19 20 192 193 194 195 199 200 201 205 206 207 211
212
node 0 size: 192268 MB
node 0 free: 191725 MB
node 1 cpus: 4 5 6 10 11 12 16 17 18 21 22 23 196 197 198 202 203 204 208 209 210 213
214 215
node 1 size: 193529 MB
node 1 free: 193244 MB
node 2 cpus: 24 25 26 27 31 32 36 37 38 42 43 44 216 217 218 219 223 224 228 229 230
234 235 236
node 2 size: 193529 MB
node 2 free: 193207 MB
node 3 cpus: 28 29 30 33 34 35 39 40 41 45 46 47 220 221 222 225 226 227 231 232 233
237 238 239
node 3 size: 193529 MB
node 3 free: 193283 MB
node 4 cpus: 48 49 50 51 55 56 60 61 62 66 67 68 240 241 242 243 247 248 252 253 254
258 259 260
node 4 size: 193529 MB
node 4 free: 193347 MB
node 5 cpus: 52 53 54 57 58 59 63 64 65 69 70 71 244 245 246 249 250 251 255 256 257
261 262 263
node 5 size: 193529 MB
node 5 free: 193356 MB
node 6 cpus: 72 73 74 75 79 80 84 85 86 90 91 92 264 265 266 267 271 272 276 277 278
282 283 284
node 6 size: 193529 MB
node 6 free: 193356 MB
node 7 cpus: 76 77 78 81 82 83 87 88 89 93 94 95 268 269 270 273 274 275 279 280 281
285 286 287
node 7 size: 193529 MB
node 7 free: 193049 MB
node 8 cpus: 96 97 98 99 103 104 105 109 110 111 115 116 288 289 290 291 295 296 297
301 302 303 307 308
node 8 size: 193500 MB
node 8 free: 193313 MB
node 9 cpus: 100 101 102 106 107 108 112 113 114 117 118 119 292 293 294 298 299 300
304 305 306 309 310 311
node 9 size: 193529 MB
node 9 free: 193347 MB
node 10 cpus: 120 121 122 123 127 128 129 133 134 135 139 140 312 313 314 315 319 320
```

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Platform Notes (Continued)

```

321 325 326 327 331 332
node 10 size: 193529 MB
node 10 free: 193360 MB
node 11 cpus: 124 125 126 130 131 132 136 137 138 141 142 143 316 317 318 322 323 324
328 329 330 333 334 335
node 11 size: 193529 MB
node 11 free: 193358 MB
node 12 cpus: 144 145 146 147 151 152 156 157 158 162 163 164 336 337 338 339 343 344
348 349 350 354 355 356
node 12 size: 193529 MB
node 12 free: 193290 MB
node 13 cpus: 148 149 150 153 154 155 159 160 161 165 166 167 340 341 342 345 346 347
351 352 353 357 358 359
node 13 size: 193529 MB
node 13 free: 193173 MB
node 14 cpus: 168 169 170 171 175 176 180 181 182 186 187 188 360 361 362 363 367 368
372 373 374 378 379 380
node 14 size: 193529 MB
node 14 free: 193273 MB
node 15 cpus: 172 173 174 177 178 179 183 184 185 189 190 191 364 365 366 369 370 371
375 376 377 381 382 383
node 15 size: 193326 MB
node 15 free: 193107 MB
node distances:
node  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15
 0: 10 11 20 20 20 20 28 28 28 28 28 28 20 20 28 28
 1: 11 10 20 20 20 20 28 28 28 28 28 28 20 20 28 28
 2: 20 20 10 11 28 28 20 20 28 28 20 20 28 28 28 28
 3: 20 20 11 10 28 28 20 20 28 28 20 20 28 28 28 28
 4: 20 20 28 28 10 11 20 20 20 20 28 28 28 28 28 28
 5: 20 20 28 28 11 10 20 20 20 20 28 28 28 28 28 28
 6: 28 28 20 20 20 20 10 11 28 28 28 28 28 28 20 20
 7: 28 28 20 20 20 20 11 10 28 28 28 28 28 28 20 20
 8: 28 28 28 28 20 20 28 28 10 11 20 20 20 20 28 28
 9: 28 28 28 28 20 20 28 28 11 10 20 20 20 20 28 28
10: 28 28 20 20 28 28 28 28 20 20 10 11 28 28 20 20
11: 28 28 20 20 28 28 28 28 20 20 11 10 28 28 20 20
12: 20 20 28 28 28 28 28 28 20 20 28 28 10 11 20 20
13: 20 20 28 28 28 28 28 28 20 20 28 28 11 10 20 20
14: 28 28 28 28 28 28 20 20 28 28 20 20 20 20 10 11
15: 28 28 28 28 28 28 20 20 28 28 20 20 20 20 11 10

```

```

From /proc/meminfo
MemTotal: 3169263432 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

```

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Platform Notes (Continued)

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

```
os-release:
  NAME="SLES"
  VERSION="15"
  VERSION_ID="15"
  PRETTY_NAME="SUSE Linux Enterprise Server 15"
  ID="sles"
  ID_LIKE="suse"
  ANSI_COLOR="0;32"
  CPE_NAME="cpe:/o:suse:sles:15"
```

```
uname -a:
Linux linux-8r5c 4.12.14-25.28-default #1 SMP Wed Jan 16 20:00:47 UTC 2019 (dd6077c)
x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

```
CVE-2017-5754 (Meltdown):          Not affected
CVE-2017-5753 (Spectre variant 1): Mitigation: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced IBRS, IBPB: conditional, RSB
filling
```

run-level 3 Jul 4 14:56

```
SPEC is set to: /home/Benchmark/speccpu2017-int
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda3       xfs   142G   35G  107G  25% /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 FUJITSU V1.0.0.0 R1.16.0 for D3858-B1x          04/24/2019
Memory:
 68x Micron 36ASF4G72PZ-2G9E2 32 GB 2 rank 2933
 28x Samsung M393A4K40CB2-CVF 32 GB 2 rank 2933
```

(End of data from sysinfo program)

Compiler Version Notes

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

Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,

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Compiler Version Notes (Continued)

Version 19.0.1.144 Build 20181018
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.

=====
C++ | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
| 541.leela_r(base)
=====

Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.1.144 Build 20181018
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.

=====
Fortran | 548.exchange2_r(base)
=====

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
64, Version 19.0.1.144 Build 20181018
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:
icc -m64 -std=c11

C++ benchmarks:
icpc -m64

Fortran benchmarks:
ifort -m64

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
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64

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Base Portability Flags (Continued)

557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=4  
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64  
-lqkmalloc
```

C++ benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=4  
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64  
-lqkmalloc
```

Fortran benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte  
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64  
-lqkmalloc
```

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

<http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.2019-04-02.html>
<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-CSL-RevE.html>

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

<http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.2019-04-02.xml>
<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-CSL-RevE.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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