



# SPEC® CPU2017 Integer Rate Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

## Lenovo Global Technology

ThinkSystem SR950  
(2.40 GHz, Intel Xeon Platinum 8260L)

SPECrate2017\_int\_base = 1140

SPECrate2017\_int\_peak = Not Run

CPU2017 License: 9017

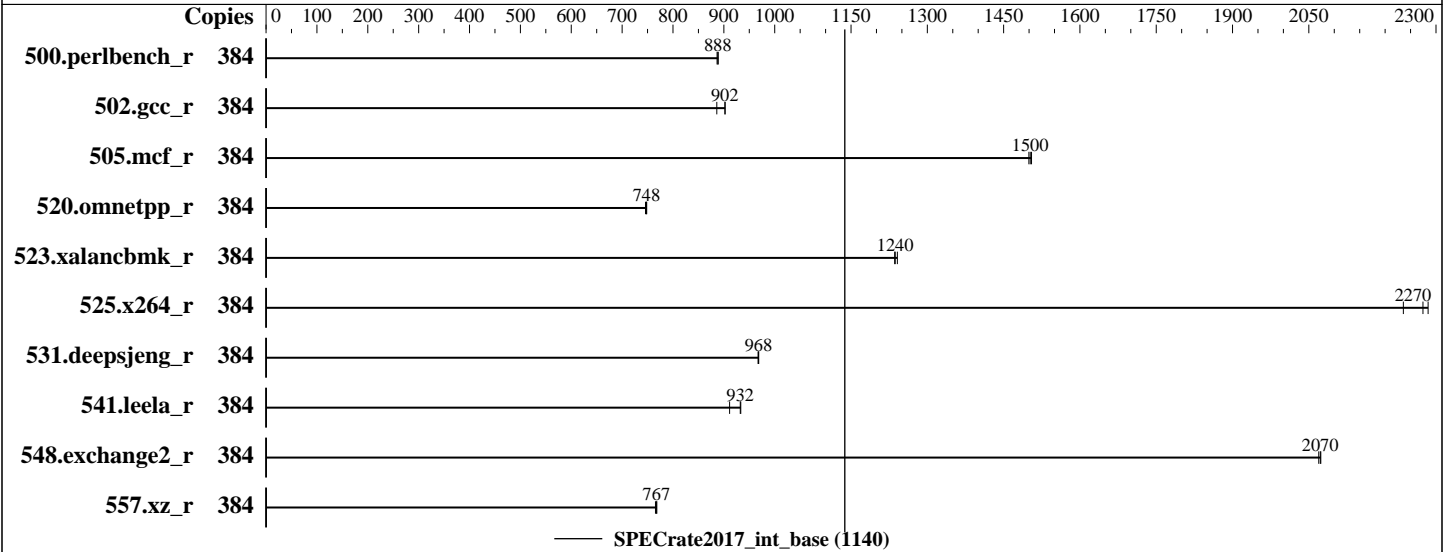
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Apr-2019

Hardware Availability: Apr-2019

Software Availability: Dec-2018



### Hardware

CPU Name: Intel Xeon Platinum 8260L  
 Max MHz.: 3900  
 Nominal: 2400  
 Enabled: 192 cores, 8 chips, 2 threads/core  
 Orderable: 2,3,4,6,8 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: 960 GB tmpfs  
 Other: None

### Software

OS: SUSE Linux Enterprise Server 12 SP4 (x86\_64)  
 Kernel 4.12.14-94.41-default  
 Compiler: C/C++: Version 19.0.1.144 of Intel C/C++  
 Compiler Build 20181018 for Linux;  
 Fortran: Version 19.0.1.144 of Intel Fortran  
 Compiler Build 20181018 for Linux  
 Parallel: No  
 Firmware: Lenovo BIOS Version PSE121C 1.50 released Jan-2019  
 File System: tmpfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other: None



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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	689	887	688	889	<b>688</b>	<b>888</b>							
502.gcc_r	384	614	886	<b>603</b>	<b>902</b>	602	903							
505.mcf_r	384	<b>413</b>	<b>1500</b>	412	1500	414	1500							
520.omnetpp_r	384	675	746	<b>674</b>	<b>748</b>	673	748							
523.xalancbmk_r	384	327	1240	328	1240	<b>328</b>	<b>1240</b>							
525.x264_r	384	294	2280	<b>296</b>	<b>2270</b>	301	2240							
531.deepsjeng_r	384	455	967	<b>455</b>	<b>968</b>	454	968							
541.leela_r	384	<b>682</b>	<b>932</b>	698	911	681	933							
548.exchange2_r	384	485	2070	486	2070	<b>485</b>	<b>2070</b>							
557.xz_r	384	542	766	<b>540</b>	<b>767</b>	540	768							

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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"  
Tmpfs filesystem can be set with:  
mount -t tmpfs -o size=960g tmpfs /home

## General Notes

Environment variables set by runcpu before the start of the run:  
LD\_LIBRARY\_PATH = "/home/cpu2017-1.0.5-ic19.0u1/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>

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)

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### General Notes (Continued)

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.  
Yes: The test sponsor attests, as of date of publication, that CVE-2018-3640 (Spectre variant 3a) is mitigated in the system as tested and documented.  
Yes: The test sponsor attests, as of date of publication, that CVE-2018-3639 (Spectre variant 4) is mitigated in the system as tested and documented.

### Platform Notes

BIOS configuration:  
Choose Operating Mode set to Maximum Performance  
Trusted Execution Technology set to Enable  
DCU Streamer Prefetcher set to Disable  
SNC set to Enable  
Patrol Scrub set to Disable  
Stale AtoS set to Enable  
Sysinfo program /home/cpu2017-1.0.5-ic19.0u1/bin/sysinfo  
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9  
running on sles12sp4 Sun Apr 28 07:56:07 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 8260L CPU @ 2.40GHz  
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 8 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29  
physical 2: 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 3: 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 4: 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 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 5 6 8 9 10 11 12 13 16 17 18 19 20 21 22 25 26 27 28 29

From lscpu:  
Architecture: x86\_64  
CPU op-mode(s): 32-bit, 64-bit  
Byte Order: Little Endian

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### Platform Notes (Continued)

```

CPU(s): 384
On-line CPU(s) list: 0-383
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 8260L CPU @ 2.40GHz
Stepping: 6
CPU MHz: 2400.000
CPU max MHz: 3900.0000
CPU min MHz: 1000.0000
BogoMIPS: 4800.00
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): 48-51,55-57,61-63,67,68,240-243,247-249,253-255,259,260
NUMA node5 CPU(s): 52-54,58-60,64-66,69-71,244-246,250-252,256-258,261-263
NUMA node6 CPU(s): 72-75,79-81,85-87,91,92,264-267,271-273,277-279,283,284
NUMA node7 CPU(s): 76-78,82-84,88-90,93-95,268-270,274-276,280-282,285-287
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): 168-171,174-176,180-182,187,188,360-363,366-368,372-374,379,380
NUMA node15 CPU(s): 172,173,177-179,183-186,189-191,364,365,369-371,375-378,381-383
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 ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm

```

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pcid dca sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx fl6c  
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 bml  
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 pku ospke  
avx512\_vnni flush\_lld arch\_capabilities

```
/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: 193120 MB

node 0 free: 192297 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: 193530 MB

node 1 free: 192854 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: 193530 MB

node 2 free: 192894 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: 193530 MB

node 3 free: 192892 MB

node 4 cpus: 48 49 50 51 55 56 57 61 62 63 67 68 240 241 242 243 247 248 249 253 254 255 259 260

node 4 size: 193530 MB

node 4 free: 179914 MB

node 5 cpus: 52 53 54 58 59 60 64 65 66 69 70 71 244 245 246 250 251 252 256 257 258 261 262 263

node 5 size: 193530 MB

node 5 free: 192904 MB

node 6 cpus: 72 73 74 75 79 80 81 85 86 87 91 92 264 265 266 267 271 272 273 277 278 279 283 284

node 6 size: 193530 MB

node 6 free: 192902 MB

node 7 cpus: 76 77 78 82 83 84 88 89 90 93 94 95 268 269 270 274 275 276 280 281 282 285 286 287

node 7 size: 193530 MB

node 7 free: 192901 MB

node 8 cpus: 96 97 98 99 103 104 105 109 110 111 115 116 288 289 290 291 295 296 297

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### Platform Notes (Continued)

```

301 302 303 307 308
node 8 size: 193530 MB
node 8 free: 192894 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: 193530 MB
node 9 free: 192902 MB
node 10 cpus: 120 121 122 123 127 128 129 133 134 135 139 140 312 313 314 315 319 320
321 325 326 327 331 332
node 10 size: 193530 MB
node 10 free: 192898 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: 193530 MB
node 11 free: 192899 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: 193530 MB
node 12 free: 192891 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: 193530 MB
node 13 free: 192899 MB
node 14 cpus: 168 169 170 171 174 175 176 180 181 182 187 188 360 361 362 363 366 367
368 372 373 374 379 380
node 14 size: 193530 MB
node 14 free: 192896 MB
node 15 cpus: 172 173 177 178 179 183 184 185 186 189 190 191 364 365 369 370 371 375
376 377 378 381 382 383
node 15 size: 193499 MB
node 15 free: 192872 MB
node distances:
node  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15
 0:  10 11 21 21 31 31 21 21 21 21 31 31 31 31 31 31
 1:  11 10 21 21 31 31 21 21 21 21 31 31 31 31 31 31
 2:  21 21 10 11 21 21 31 31 31 31 21 21 31 31 31 31
 3:  21 21 11 10 21 21 31 31 31 31 21 21 31 31 31 31
 4:  31 31 21 21 10 11 21 21 31 31 31 31 21 21 31 31
 5:  31 31 21 21 11 10 21 21 31 31 31 31 21 21 31 31
 6:  21 21 31 31 21 21 10 11 31 31 31 31 31 31 21 21
 7:  21 21 31 31 21 21 11 10 31 31 31 31 31 31 21 21
 8:  21 21 31 31 31 31 31 31 10 11 21 21 21 21 31 31
 9:  21 21 31 31 31 31 31 31 11 10 21 21 21 21 31 31
10:  31 31 21 21 31 31 31 31 21 21 10 11 31 31 21 21
11:  31 31 21 21 31 31 31 31 21 21 11 10 31 31 21 21
12:  31 31 31 31 21 21 31 31 21 21 31 31 10 11 21 21
13:  31 31 31 31 21 21 31 31 21 21 31 31 11 10 21 21

```

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### Platform Notes (Continued)

14:	31	31	31	31	31	31	21	21	31	31	21	21	21	10	11
15:	31	31	31	31	31	31	21	21	31	31	21	21	21	11	10

From /proc/meminfo

MemTotal: 3170352920 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"

ID="sles"

ANSI\_COLOR="0;32"

CPE\_NAME="cpe:/o:suse:sles:12:sp4"

uname -a:

Linux sles12sp4 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-2017-5754 (Meltdown): Not affected

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 Apr 28 03:23

SPEC is set to: /home/cpu2017-1.0.5-ic19.0u1

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
tmpfs	tmpfs	960G	8.3G	952G	1%	/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 Lenovo -[PSE121C-1.50]- 01/16/2019

Memory:

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## Platform Notes (Continued)

96x Samsung M393A4K40CB2-CVF 32 GB 2 rank 2933

(End of data from sysinfo program)

## Compiler Version Notes

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

=====  
CXXC 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.

=====  
FC 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





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## 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
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
-lqkmallo
```

### 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
-lqkmallo
```

### 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
-lqkmallo
```

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/Lenovo-Platform-SPECcpu2017-Flags-V1.2-CLX-A.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/Lenovo-Platform-SPECcpu2017-Flags-V1.2-CLX-A.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 v1.0.5 on 2019-04-27 19:56:07-0400.

Report generated on 2019-05-15 13:39:01 by CPU2017 PDF formatter v6067.

Originally published on 2019-05-14.