



# SPEC® CPU2017 Integer Rate Result

Copyright 2017-2018 Standard Performance Evaluation Corporation

## Lenovo Global Technology

ThinkSystem SR950  
(2.00 GHz, Intel Xeon Platinum 8153)

SPECrate2017\_int\_base = 564

SPECrate2017\_int\_peak = 604

CPU2017 License: 9017

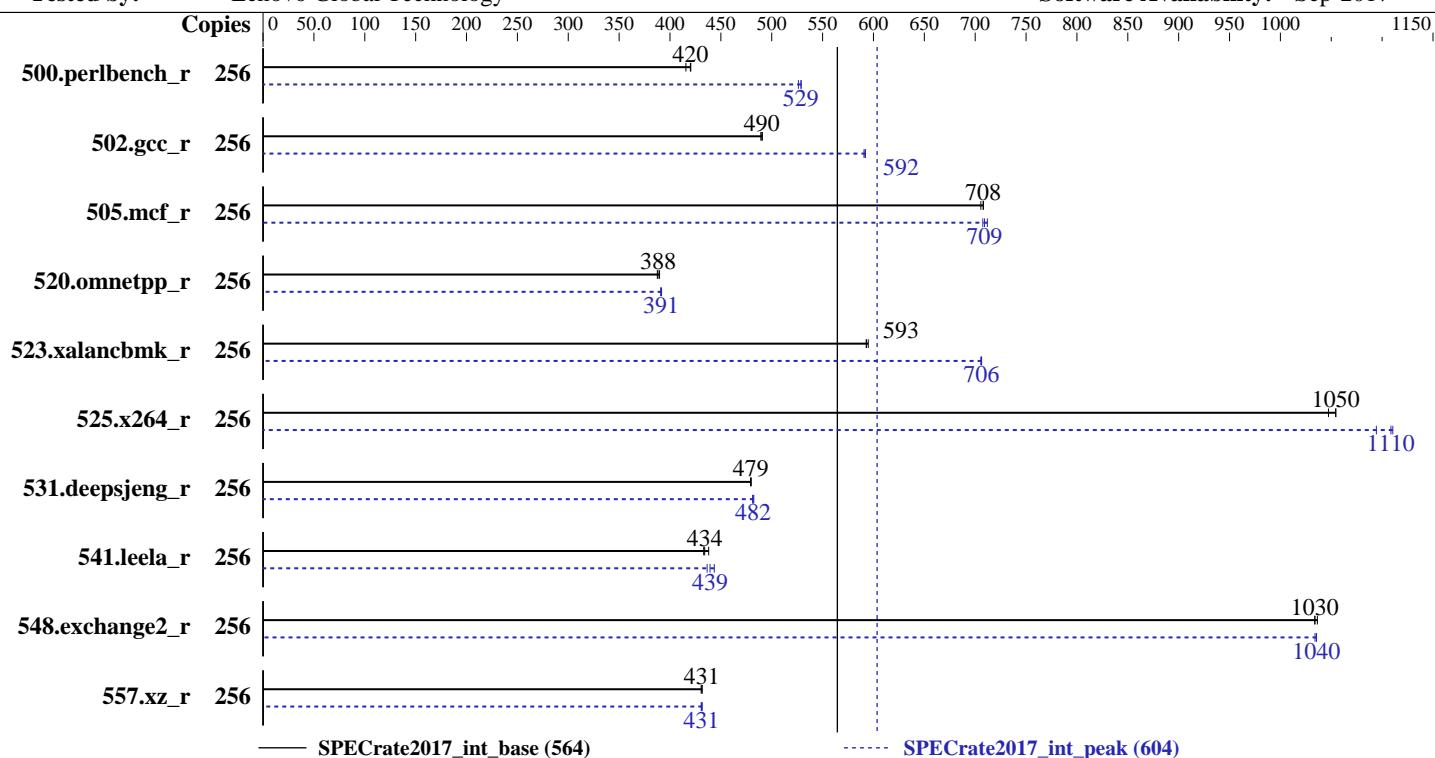
Test Date: Jan-2018

Test Sponsor: Lenovo Global Technology

Hardware Availability: Sep-2017

Tested by: Lenovo Global Technology

Software Availability: Sep-2017



— SPECrate2017\_int\_base (564)

— SPECrate2017\_int\_peak (604)

### Hardware

CPU Name: Intel Xeon Platinum 8153  
Max MHz.: 2800  
Nominal: 2000  
Enabled: 128 cores, 8 chips, 2 threads/core  
Orderable: 2,4,8 chips  
Cache L1: 32 KB I + 32 KB D on chip per core  
L2: 1 MB I+D on chip per core  
L3: 22 MB I+D on chip per chip  
Other: None  
Memory: 3 TB (96 x 32 GB 2Rx4 PC4-2666V-R)  
Storage: 800 GB tmpfs  
Other: None

### Software

OS: SUSE Linux Enterprise Server 12 SP2 (x86\_64)  
Compiler: Kernel 4.4.21-69-default  
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: Lenovo BIOS Version PSE105X 1.00 released Aug-2017  
File System: tmpfs  
System State: Run level 3 (multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 32/64-bit  
Other: jemalloc: jemalloc memory allocator library V5.0.1



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## Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	256	981	416	969	420	<b>970</b>	<b>420</b>	256	770	529	<b>771</b>	<b>529</b>	775	526		
502.gcc_r	256	741	489	<b>739</b>	<b>490</b>	739	491	256	614	591	<b>613</b>	<b>592</b>	612	592		
505.mcf_r	256	<b>584</b>	<b>708</b>	584	708	586	706	256	585	707	<b>583</b>	<b>709</b>	581	712		
520.omnetpp_r	256	<b>865</b>	<b>388</b>	867	388	862	390	256	<b>858</b>	<b>391</b>	859	391	857	392		
523.xalancbmk_r	256	456	593	<b>456</b>	<b>593</b>	454	595	256	<b>383</b>	<b>706</b>	383	706	383	706		
525.x264_r	256	<b>425</b>	<b>1050</b>	425	1050	428	1050	256	410	1090	<b>404</b>	<b>1110</b>	404	1110		
531.deepsjeng_r	256	612	479	<b>612</b>	<b>479</b>	611	480	256	610	481	<b>609</b>	<b>482</b>	608	482		
541.leela_r	256	979	433	968	438	<b>977</b>	<b>434</b>	256	<b>965</b>	<b>439</b>	971	437	956	444		
548.exchange2_r	256	647	1040	649	1030	<b>649</b>	<b>1030</b>	256	<b>648</b>	<b>1040</b>	649	1030	648	1040		
557.xz_r	256	<b>641</b>	<b>431</b>	642	431	641	432	256	640	432	642	431	<b>642</b>	<b>431</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"

Tmpfs filesystem can be set with:

```
mount -t tmpfs -o size=800g tmpfs /home
```

Process tuning setting:

```
echo 50000 > /proc/sys/kernel/sched_cfs_bandwidth_slice_us
echo 240000000 > /proc/sys/kernel/sched_latency_ns
echo 5000000 > /proc/sys/kernel/sched_migration_cost_ns
echo 100000000 > /proc/sys/kernel/sched_min_granularity_ns
echo 150000000 > /proc/sys/kernel/sched_wakeup_granularity_ns
```

## General Notes

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

LD\_LIBRARY\_PATH = "/home/cpu2017.1.0.2.ic18.0/lib/ia32:/home/cpu2017.1.0.2.ic18.0/lib/intel64"

LD\_LIBRARY\_PATH = "\$LD\_LIBRARY\_PATH:/home/cpu2017.1.0.2.ic18.0/je5.0.1-32:/home/cpu2017.1.0.2.ic18.0/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:

(Continued on next page)



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## General Notes (Continued)

sync; echo 3 > /proc/sys/vm/drop\_caches  
runcpu command invoked through numactl i.e.:  
numactl --interleave=all runcpu <etc>  
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  
<https://github.com/jemalloc/jemalloc/releases>  
No: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)  
is mitigated in the system as tested and documented.  
No: 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.  
No: 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.  
This benchmark result is intended to provide perspective on  
past performance using the historical hardware and/or  
software described on this result page.  
The system as described on this result page was formerly  
generally available. At the time of this publication, it may  
not be shipping, and/or may not be supported, and/or may fail  
to meet other tests of General Availability described in the  
SPEC OSG Policy document, <http://www.spec.org/osg/policy.html>  
This measured result may not be representative of the result  
that would be measured were this benchmark run with hardware  
and software available as of the publication date.

## Platform Notes

BIOS configuration:

Choose Operating Mode set to Maximum Performance

SNC set to Enable

DCU Streamer Prefetcher set to Disable

MONITOR/MWAIT set to Enable

Execute Disable Bit set to Disable

Trusted Execution Technology set to Enable

Per Core Pstate set to Disable

XPT Prefetcher set to Enable

Stale AtoS set to Enable

LLC Deadline Alloc set to Enable

Sysinfo program /home/cpu2017.1.0.2.ic18.0/bin/sysinfo

Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f  
running on linux-boxi Thu Jan 4 21:06:32 2018

SUT (System Under Test) info as seen by some common utilities.

For more information on this section, see

(Continued on next page)



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## Platform Notes (Continued)

<https://www.spec.org/cpu2017/Docs/config.html#sysinfo>

```
From /proc/cpuinfo
model name : Intel(R) Xeon(R) Platinum 8153 CPU @ 2.00GHz
  8 "physical id"s (chips)
  256 "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 : 16
  siblings   : 32
  physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 2: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 3: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 4: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 5: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 6: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
  physical 7: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
```

From lscpu:

```
Architecture:           x86_64
CPU op-mode(s):        32-bit, 64-bit
Byte Order:            Little Endian
CPU(s):                256
On-line CPU(s) list:  0-255
Thread(s) per core:   2
Core(s) per socket:   16
Socket(s):             8
NUMA node(s):          16
Vendor ID:             GenuineIntel
CPU family:            6
Model:                 85
Model name:            Intel(R) Xeon(R) Platinum 8153 CPU @ 2.00GHz
Stepping:               4
CPU MHz:                1995.299
BogoMIPS:              3990.59
Virtualization:        VT-x
L1d cache:              32K
L1i cache:              32K
L2 cache:                1024K
L3 cache:                22528K
NUMA node0 CPU(s):     0-3,8-11,128-131,136-139
NUMA node1 CPU(s):     4-7,12-15,132-135,140-143
NUMA node2 CPU(s):     16-19,24-27,144-147,152-155
NUMA node3 CPU(s):     20-23,28-31,148-151,156-159
NUMA node4 CPU(s):     32-35,40-43,160-163,168-171
NUMA node5 CPU(s):     36-39,44-47,164-167,172-175
```

(Continued on next page)



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## Platform Notes (Continued)

NUMA node6 CPU(s): 48-51,56-59,176-179,184-187  
NUMA node7 CPU(s): 52-55,60-63,180-183,188-191  
NUMA node8 CPU(s): 64-67,72-75,192-195,200-203  
NUMA node9 CPU(s): 68-71,76-79,196-199,204-207  
NUMA node10 CPU(s): 80-83,88-91,208-211,216-219  
NUMA node11 CPU(s): 84-87,92-95,212-215,220-223  
NUMA node12 CPU(s): 96-99,104-107,224-227,232-235  
NUMA node13 CPU(s): 100-103,108-111,228-231,236-239  
NUMA node14 CPU(s): 112-115,120-123,240-243,248-251  
NUMA node15 CPU(s): 116-119,124-127,244-247,252-255  
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 erms invpcid rtm cqm mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt xgetbv1 cqm\_llc cqm\_occup\_llc

/proc/cpuinfo cache data  
cache size : 22528 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 8 9 10 11 128 129 130 131 136 137 138 139  
node 0 size: 192984 MB  
node 0 free: 192422 MB  
node 1 cpus: 4 5 6 7 12 13 14 15 132 133 134 135 140 141 142 143  
node 1 size: 193528 MB  
node 1 free: 193015 MB  
node 2 cpus: 16 17 18 19 24 25 26 27 144 145 146 147 152 153 154 155  
node 2 size: 193528 MB  
node 2 free: 193038 MB  
node 3 cpus: 20 21 22 23 28 29 30 31 148 149 150 151 156 157 158 159  
node 3 size: 193528 MB  
node 3 free: 188007 MB  
node 4 cpus: 32 33 34 35 40 41 42 43 160 161 162 163 168 169 170 171  
node 4 size: 193528 MB  
node 4 free: 193017 MB  
node 5 cpus: 36 37 38 39 44 45 46 47 164 165 166 167 172 173 174 175  
node 5 size: 193528 MB  
node 5 free: 184547 MB  
node 6 cpus: 48 49 50 51 56 57 58 59 176 177 178 179 184 185 186 187  
node 6 size: 193528 MB  
node 6 free: 193047 MB

(Continued on next page)



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### Platform Notes (Continued)

```
node 7 cpus: 52 53 54 55 60 61 62 63 180 181 182 183 188 189 190 191
node 7 size: 193528 MB
node 7 free: 193040 MB
node 8 cpus: 64 65 66 67 72 73 74 75 192 193 194 195 200 201 202 203
node 8 size: 193528 MB
node 8 free: 193056 MB
node 9 cpus: 68 69 70 71 76 77 78 79 196 197 198 199 204 205 206 207
node 9 size: 193528 MB
node 9 free: 193043 MB
node 10 cpus: 80 81 82 83 88 89 90 91 208 209 210 211 216 217 218 219
node 10 size: 193528 MB
node 10 free: 193023 MB
node 11 cpus: 84 85 86 87 92 93 94 95 212 213 214 215 220 221 222 223
node 11 size: 193528 MB
node 11 free: 192992 MB
node 12 cpus: 96 97 98 99 104 105 106 107 224 225 226 227 232 233 234 235
node 12 size: 193528 MB
node 12 free: 192953 MB
node 13 cpus: 100 101 102 103 108 109 110 111 228 229 230 231 236 237 238 239
node 13 size: 193528 MB
node 13 free: 192858 MB
node 14 cpus: 112 113 114 115 120 121 122 123 240 241 242 243 248 249 250 251
node 14 size: 193528 MB
node 14 free: 193046 MB
node 15 cpus: 116 117 118 119 124 125 126 127 244 245 246 247 252 253 254 255
node 15 size: 193523 MB
node 15 free: 193042 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

(Continued on next page)



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## Platform Notes (Continued)

```
MemTotal: 3170207908 kB
HugePages_Total: 0
Hugepagesize: 2048 kB
```

```
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-boxi 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 3 Jan 4 21:02
```

```
SPEC is set to: /home/cpu2017.1.0.2.ic18.0
Filesystem      Type  Size  Used Avail Use% Mounted on
tmpfs          tmpfs  800G   11G  790G    2% /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 -[PSE105X-1.00]- 08/17/2017

Memory:

96x Samsung M393A4K40BB2-CTD 32 GB 2 rank 2666

(End of data from sysinfo program)

## Compiler Version Notes

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

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## Compiler Version Notes (Continued)

icc (ICC) 18.0.0 20170811

Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

=====

CC 500.perlbench\_r(peak) 502.gcc\_r(peak)

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.

=====

CXXC 520.omnetpp\_r(peak) 523.xalancbmk\_r(peak) 531.deepsjeng\_r(peak)  
541.leela\_r(peak)

icpc (ICC) 18.0.0 20170811

Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

=====

FC 548.exchange2\_r(base, peak)

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:

fort



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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=3 -L/usr/local/je5.0.1-64/lib -ljemalloc
```

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
```

Fortran benchmarks:

```
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte
-L/usr/local/je5.0.1-64/lib -ljemalloc
```

## Base Other Flags

C benchmarks:

```
-m64 -std=c11
```

C++ benchmarks:

```
-m64
```

Fortran benchmarks:

```
-m64
```



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## Peak Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

## Peak Portability Flags

500.perlbench\_r: -DSPEC\_LP64 -DSPEC\_LINUX\_X64  
502.gcc\_r: -D\_FILE\_OFFSET\_BITS=64  
505.mcf\_r: -DSPEC\_LP64  
520.omnetpp\_r: -DSPEC\_LP64  
523.xalancbmk\_r: -D\_FILE\_OFFSET\_BITS=64 -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

## Peak Optimization Flags

C benchmarks:

500.perlbench\_r: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3  
-fno-strict-overflow -L/usr/local/je5.0.1-64/lib  
-ljemalloc

502.gcc\_r: -L/opt/intel/compilers\_and\_libraries\_2018/linux/lib/ia32  
-Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3  
-L/usr/local/je5.0.1-32/lib -ljemalloc

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

525.x264\_r: -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -fno-alias

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Test Sponsor: Lenovo Global Technology

Hardware Availability: Sep-2017

Tested by: Lenovo Global Technology

Software Availability: Sep-2017

## Peak Optimization Flags (Continued)

525.x264\_r (continued):

-L/usr/local/je5.0.1-64/lib -ljemalloc

557.xz\_r: Same as 505.mcf\_r

C++ benchmarks:

520.omnetpp\_r: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3  
-L/usr/local/je5.0.1-64/lib -ljemalloc

523.xalancbmk\_r: -L/opt/intel/compilers\_and\_libraries\_2018/linux/lib/ia32  
-Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=3  
-L/usr/local/je5.0.1-32/lib -ljemalloc

531.deepsjeng\_r: Same as 520.omnetpp\_r

541.leela\_r: Same as 520.omnetpp\_r

Fortran benchmarks:

-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte  
-L/usr/local/je5.0.1-64/lib -ljemalloc

## Peak Other Flags

C benchmarks (except as noted below):

-m64 -std=c11

502.gcc\_r: -m32 -std=c11

C++ benchmarks (except as noted below):

-m64

523.xalancbmk\_r: -m32

Fortran benchmarks:

-m64

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>

<http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECCpu2017-Flags-V1.2-SKL-A.html>



# SPEC CPU2017 Integer Rate Result

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## Lenovo Global Technology

ThinkSystem SR950  
(2.00 GHz, Intel Xeon Platinum 8153)

SPECrate2017\_int\_base = 564

SPECrate2017\_int\_peak = 604

CPU2017 License: 9017

Test Date: Jan-2018

Test Sponsor: Lenovo Global Technology

Hardware Availability: Sep-2017

Tested by: Lenovo Global Technology

Software Availability: Sep-2017

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/Lenovo-Platform-SPECcpu2017-Flags-V1.2-SKL-A.xml>

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