## Lenovo Global Technology

**ThinkSystem SD530**  
*(2.10 GHz, Intel Xeon Platinum 8160T)*

### SPECspeed2017 Integers Results

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>SPECspeed2017_int_base</th>
<th>SPECspeed2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>perlbench_s</td>
<td>48</td>
<td>7.15</td>
<td>9.19</td>
</tr>
<tr>
<td>gcc_s</td>
<td>48</td>
<td>9.31</td>
<td>9.57</td>
</tr>
<tr>
<td>mcf_s</td>
<td>48</td>
<td>10.9</td>
<td>11.1</td>
</tr>
<tr>
<td>omnetpp_s</td>
<td>48</td>
<td>7.95</td>
<td>8.00</td>
</tr>
<tr>
<td>xalancbmk_s</td>
<td>48</td>
<td>9.47</td>
<td>9.47</td>
</tr>
<tr>
<td>x264_s</td>
<td>48</td>
<td>11.8</td>
<td>11.8</td>
</tr>
<tr>
<td>deepsjeng_s</td>
<td>48</td>
<td>5.03</td>
<td>5.03</td>
</tr>
<tr>
<td>leela_s</td>
<td>48</td>
<td>4.33</td>
<td>4.35</td>
</tr>
<tr>
<td>exchange2_s</td>
<td>48</td>
<td>13.3</td>
<td>13.4</td>
</tr>
<tr>
<td>xz_s</td>
<td>48</td>
<td>22.4</td>
<td>22.6</td>
</tr>
</tbody>
</table>

### Software

- **OS**: SUSE Linux Enterprise Server 12 SP2 (x86_64)  
  - Kernel 4.4.121-92.80-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**: Yes
- **Firmware**: Lenovo BIOS Version TEE123N 1.40 released Jun-2018  
  - File System: xfs
- **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

### Hardware

- **CPU Name**: Intel Xeon Platinum 8160T  
  - Max MHz.: 3700  
  - Nominal: 2100
- **Enabled**: 48 cores, 2 chips  
  - 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: 33 MB I+D on chip per chip
- **Other**: None
- **Memory**: 384 GB (12 x 32 GB 2Rx4 PC4-2666V-R)  
  - Storage: 1 x 800 GB SAS SSD  
  - Other: None
SPEC CPU2017 Integer Speed Result

Lenovo Global Technology
ThinkSystem SD530
(2.10 GHz, Intel Xeon Platinum 8160T)

Copyright 2017-2018 Standard Performance Evaluation Corporation

Lenovo Global Technology

SPECspeed2017_int_base = 8.95
SPECspeed2017_int_peak = 9.19

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>605.mcf_s</td>
<td>48</td>
<td>434</td>
<td>10.9</td>
<td>429</td>
<td>11.0</td>
<td>436</td>
<td>10.8</td>
<td>48</td>
<td>431</td>
<td>11.0</td>
<td>424</td>
<td>11.1</td>
<td>422</td>
<td>11.2</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>48</td>
<td>218</td>
<td>7.47</td>
<td>225</td>
<td>7.26</td>
<td>230</td>
<td>7.11</td>
<td>48</td>
<td>233</td>
<td>7.00</td>
<td>231</td>
<td>7.05</td>
<td>229</td>
<td>7.13</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>48</td>
<td>149</td>
<td>11.9</td>
<td>149</td>
<td>11.8</td>
<td>149</td>
<td>11.8</td>
<td>48</td>
<td>149</td>
<td>11.8</td>
<td>149</td>
<td>11.8</td>
<td>149</td>
<td>11.8</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>48</td>
<td>285</td>
<td>5.03</td>
<td>285</td>
<td>5.03</td>
<td>285</td>
<td>5.03</td>
<td>48</td>
<td>286</td>
<td>5.01</td>
<td>287</td>
<td>5.00</td>
<td>287</td>
<td>5.00</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>48</td>
<td>394</td>
<td>4.33</td>
<td>394</td>
<td>4.33</td>
<td>394</td>
<td>4.33</td>
<td>48</td>
<td>392</td>
<td>4.35</td>
<td>392</td>
<td>4.35</td>
<td>392</td>
<td>4.35</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>48</td>
<td>221</td>
<td>13.3</td>
<td>220</td>
<td>13.3</td>
<td>221</td>
<td>13.3</td>
<td>48</td>
<td>220</td>
<td>13.4</td>
<td>219</td>
<td>13.4</td>
<td>220</td>
<td>13.4</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>48</td>
<td>277</td>
<td>22.3</td>
<td>276</td>
<td>22.4</td>
<td>276</td>
<td>22.4</td>
<td>48</td>
<td>275</td>
<td>22.4</td>
<td>274</td>
<td>22.6</td>
<td>274</td>
<td>22.6</td>
</tr>
</tbody>
</table>

SPECspeed2017_int_base = 8.95
SPECspeed2017_int_peak = 9.19

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

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/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"
OMP_STACKSIZE = "192M"

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
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
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) 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.
## SPEC CPU2017 Integer Speed Result

**Lenovo Global Technology**  
ThinkSystem SD530  
(2.10 GHz, Intel Xeon Platinum 8160T)

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>SPECspeed2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.95</td>
<td>9.19</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9017  
**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology  
**Test Date:** Aug-2018  
**Hardware Availability:** Aug-2017  
**Software Availability:** May-2018

### Platform Notes

- BIOS configuration:  
  - Choose Operating Mode set to Custom Mode  
  - CPU P-state Control set to None  
  - C-States set to Legacy  
  - C1 Enhanced Mode set to Disable  
  - Energy Efficient Turbo set to Disable  
  - Platform Controlled Type set to Maximum Performance  
  - Page Policy set to Adaptive  
  - Hyper-Threading set to Disable  
  - LLC dead line alloc set to Disable  
  - Stall A to S set to Disable  
- Sysinfo program `/home/cpu2017.1.0.2.ic18.0/bin/sysinfo`  
  Rev: r5797 of 2017-06-14  
  96c45e4568ad54c135fd618bcc091c0f  
  running on linux-6zlr Mon Aug 6 09:37:31 2018

For SUT (System Under Test) info as seen by some common utilities, see  
[https://www.spec.org/cpu2017/Docs/config.html#sysinfo](https://www.spec.org/cpu2017/Docs/config.html#sysinfo)

From `/proc/cpuinfo`

- model name: Intel(R) Xeon(R) Platinum 8160T CPU @ 2.10GHz  
- 2 "physical id"s (chips)  
- 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: 24  
  - siblings: 24  
  - physical 0: cores 0 1 2 3 4 5 8 9 10 11 12 13 16 17 18 19 20 21 24 25 26 27 28 29  
  - physical 1: cores 0 1 2 3 4 5 8 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): 48  
- On-line CPU(s) list: 0-47  
- Thread(s) per core: 1  
- Core(s) per socket: 24  
- Socket(s): 2  
- NUMA node(s): 2  
- Vendor ID: GenuineIntel  
- CPU family: 6  
- Model: 85  
- Model name: Intel(R) Xeon(R) Platinum 8160T CPU @ 2.10GHz  
- Stepping: 4  
- CPU MHz: 2095.073  
- BogoMIPS: 4190.14

(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530
(2.10 GHz, Intel Xeon Platinum 8160T)

**SPEC CPU2017 Integer Speed Result**

| CPU2017 License | Lenovo Global Technology
| Test Sponsor    | Lenovo Global Technology
| Tested by       | Lenovo Global Technology

**SPECspeed2017_int_base** = 8.95
**SPECspeed2017_int_peak** = 9.19

**Platform Notes (Continued)**

- **Virtualization:** VT-x
- **L1d cache:** 32K
- **L1i cache:** 32K
- **L2 cache:** 1024K
- **L3 cache:** 33792K
- **NUMA node0 CPU(s):** 0-23
- **NUMA node1 CPU(s):** 24-47
- **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 nop1 xtopology nonstop_tsc aperfmperf 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 invpcid_single pln pts dtc therm intel_pt rsb_ctxsw spec_ctrl stibp ssbd retpoline kaiser tpr_shadow vmmi flexpriority ept vpid fsgsbase tsc_adjust bml1 hle avx2 smep bmi2 erms invpcid rtm cmp mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 cqm_llc cqm_occup_llc

```
/proc/cpuinfo cache data
  cache size : 33792 KB
```

From `numactl --hardware`

- **Available:** 2 nodes (0-1)
- **Node 0 CPUs:** 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
- **Node 0 Size:** 193105 MB
- **Node 0 Free:** 192584 MB
- **Node 1 CPUs:** 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47
- **Node 1 Size:** 193500 MB
- **Node 1 Free:** 193008 MB
- **Node Distances:**
  - Node 0: 10 21
  - Node 1: 21 10

From `/proc/meminfo`

- **MemTotal:** 395885232 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.

(Continued on next page)
# SPEC CPU2017 Integer Speed Result

## Lenovo Global Technology

ThinkSystem SD530  
(2.10 GHz, Intel Xeon Platinum 8160T)

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>8.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.19</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9017  
**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology

### Platform Notes (Continued)

```ini
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"
```

```bash
uname -a:
Linux linux-6zlr 4.4.121-92.80-default #1 SMP Mon May 21 14:40:10 UTC 2018 (2afdd00)  
x86_64 x86_64 x86_64 GNU/Linux
```

### Compiler Version Notes

```c
== CC 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base, peak) 657.xz_s(base) ==
```

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

```c
== CC 600.perlbench_s(peak) 602.gcc_s(peak) 605.mcf_s(peak) 657.xz_s(peak) ==
```

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

(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530
(2.10 GHz, Intel Xeon Platinum 8160T)

SPEC CPU2017 Integer Speed Result

Copyright 2017-2018 Standard Performance Evaluation Corporation

Lenovo Global Technology

SPECspeed2017_int_base = 8.95
SPECspeed2017_int_peak = 9.19

CPU2017 License: 9017
Test Sponsor: Lenovo Global Technology
Tested by: Lenovo Global Technology

Test Date: Aug-2018
Hardware Availability: Aug-2017
Software Availability: May-2018

Compiler Version Notes (Continued)

==============================================================================
CXXC 620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)
641.leela_s(base)
==============================================================================
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

==============================================================================
CXXC 620.omnetpp_s(peak) 623.xalancbmk_s(peak) 631.deepsjeng_s(peak)
641.leela_s(peak)
==============================================================================
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

==============================================================================
FC 648.exchange2_s(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:
ifort

Base Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
602.gcc_s: -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalancbmk_s: -DSPEC_LP64 -DSPEC_LINUX
625.x264_s: -DSPEC_LP64

(Continued on next page)
Lenovo Global Technology

ThinkSystem SD530
(2.10 GHz, Intel Xeon Platinum 8160T)

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>8.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.19</td>
</tr>
</tbody>
</table>

CPU2017 License: 9017
Test Sponsor: Lenovo Global Technology
Test Date: Aug-2018
Hardware Availability: Aug-2017
Tested by: Lenovo Global Technology
Software Availability: May-2018

Base Portability Flags (Continued)

631.deepsjeng_s: -DSPEC_LP64
641.leela_s: -DSPEC_LP64
648.exchange2_s: -DSPEC_LP64
657.xz_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
-\(L/\text{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/\text{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/\text{usr/local/je5.0.1-64/lib} \ -ljemalloc

Base Other Flags

C benchmarks:
-\(m64 \ -std=c11

C++ benchmarks:
-\(m64

Fortran benchmarks:
-\(m64

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

(Continued on next page)
## Lenovo Global Technology

**ThinkSystem SD530**  
(2.10 GHz, Intel Xeon Platinum 8160T)

<table>
<thead>
<tr>
<th>CPU2017 License</th>
<th>Lenovo Global Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Date</td>
<td>Aug-2018</td>
</tr>
<tr>
<td>Hardware Availability</td>
<td>Aug-2017</td>
</tr>
<tr>
<td>Software Availability</td>
<td>May-2018</td>
</tr>
</tbody>
</table>

### SPEC CPU2017 Integer Speed Result

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>8.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.19</td>
</tr>
</tbody>
</table>

---

### Peak Compiler Invocation (Continued)

**Fortran benchmarks:**

ifort

---

### Peak Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64  
602.gcc_s: -DSPEC_LP64  
605.mcf_s: -DSPEC_LP64  
620.omnetpp_s: -DSPEC_LP64  
623.xalancbmk_s: -D_FILE_OFFSET_BITS=64 -DSPEC_LINUX  
625.x264_s: -DSPEC_LP64  
631.deepsjeng_s: -DSPEC_LP64  
641.leela_s: -DSPEC_LP64  
648.exchange2_s: -DSPEC_LP64  
657.xz_s: -DSPEC_LP64

---

### Peak Optimization Flags

**C benchmarks:**

600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -02  
-xCORE-AVX512 -qopt-mem-layout-trans=3 -ipo -03  
-no-prec-div -DSPEC_SUPPRESS_OPENMP -qopenmp  
-DSPEC_OPENMP -fno-strict-overflow  
-L/usr/local/je5.0.1-64/lib -ljemalloc

602.gcc_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -02  
-xCORE-AVX512 -qopt-mem-layout-trans=3 -ipo -03  
-no-prec-div -DSPEC_SUPPRESS_OPENMP -qopenmp  
-DSPEC_OPENMP -L/usr/local/je5.0.1-64/lib -ljemalloc

605.mcf_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -03 -no-prec-div -qopt-mem-layout-trans=3  
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP  
-L/usr/local/je5.0.1-64/lib -ljemalloc

625.x264_s: -Wl,-z,muldefs -xCORE-AVX512 -ipo -03 -no-prec-div  
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP  
-L/usr/local/je5.0.1-64/lib -ljemalloc

657.xz_s: Same as 602.gcc_s

(Continued on next page)
**Lenovo Global Technology**

ThinkSystem SD530  
(2.10 GHz, Intel Xeon Platinum 8160T)

<table>
<thead>
<tr>
<th>Test Sponsor:</th>
<th>Lenovo Global Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tested by:</td>
<td>Lenovo Global Technology</td>
</tr>
</tbody>
</table>

**SPEC CPU2017 Integer Speed Result**

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>8.95</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.19</td>
</tr>
</tbody>
</table>

CPU2017 License: 9017  
Test Date: Aug-2018  
Hardware Availability: Aug-2017  
Software Availability: May-2018

### Peak Optimization Flags (Continued)

**C++ benchmarks:**

```plaintext
620.omnetpp_s: -Wl,-z, muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -o3 -no-prec-div -qopt-mem-layout-trans=3  
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP  
-L/usr/local/je5.0.1-64/lib -ljemalloc
```

```plaintext
623.xalancbmk_s: -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  
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP  
-L/usr/local/je5.0.1-32/lib -ljemalloc
```

631.deepsjeng_s: Same as 620.omnetpp_s

641.leela_s: Same as 620.omnetpp_s

**Fortran benchmarks:**

```plaintext
-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
```

### Fortran benchmarks:

```plaintext
-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:**

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

**C++ benchmarks (except as noted below):**

```plaintext
-m64
```

623.xalancbmk_s: -m32

**Fortran benchmarks:**

```plaintext
-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/Intel-ic18.0-official-linux64.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/Intel-ic18.0-official-linux64.xml)
### Lenovo Global Technology

**ThinkSystem SD530**  
*(2.10 GHz, Intel Xeon Platinum 8160T)*

<table>
<thead>
<tr>
<th>SPEC CPU2017 Integer Speed Result</th>
<th>Lenovo Global Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SPECspeed2017_int_base</strong> = 8.95</td>
<td>Lenovo Global Technology</td>
</tr>
<tr>
<td><strong>SPECspeed2017_int_peak</strong> = 9.19</td>
<td>Lenovo Global Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPU2017 License: 9017</th>
<th>Test Date: Aug-2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor: Lenovo Global Technology</td>
<td>Hardware Availability: Aug-2017</td>
</tr>
<tr>
<td>Tested by: Lenovo Global Technology</td>
<td>Software Availability: May-2018</td>
</tr>
</tbody>
</table>

SPEC is a registered trademark of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU2017 v1.0.2 on 2018-08-05 21:37:30-0400.  
Report generated on 2018-10-31 18:23:00 by CPU2017 PDF formatter v6067.  
Originally published on 2018-09-04.