Lenovo Global Technology

ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 12.3</th>
<th>SPECspeed®2017_int_peak = 12.6</th>
</tr>
</thead>
</table>

**CPU2017 License:** 9017

**Test Sponsor:** Lenovo Global Technology

**Tested by:** Lenovo Global Technology

**Test Date:** Jun-2020

**Hardware Availability:** Mar-2020

**Software Availability:** Apr-2020

---

### Software

- **OS:** SUSE Linux Enterprise Server 15 SP1 (x86_64)
- **Kernel:** 4.12.14-195-default
- **Compiler:**
  - C/C++: Version 19.1.1.217 of Intel C/C++
  - Fortran: Version 19.1.1.217 of Intel Fortran
- **Parallel:** Yes
- **Firmware:** Lenovo BIOS Version ISE115D 2.10 released Apr-2020
- **File System:** xfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 64-bit
- **Other:** jemalloc memory allocator V5.0.1
- **Power Management:** BIOS set to prefer performance at the cost of additional power usage

---

### Hardware

- **CPU Name:** Intel Xeon E-2246G
- **Max MHz:** 4800
- **Nominal:** 3600
- **Enabled:** 6 cores, 1 chip
- **Orderable:** 1 chip
- **Cache L1:** 32 KB I+32 KB D on chip per core
- **L2:** 256 KB I+D on chip per core
- **L3:** 12 MB I+D on chip per chip
- **Other:** None
- **Memory:** 128 GB (4 x 32 GB 2Rx4 PC4-2666V-E)
- **Storage:** 1 x 960 GB SATA SSD
- **Other:** None

---

### Threads

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>7.77</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>9.37</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>8.82</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>12.7</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>7.37</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>5.90</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>16.9</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>20.2</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>20.8</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>12.1</td>
</tr>
</tbody>
</table>

---

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>7.77</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>9.37</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>8.82</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>12.7</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>7.37</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>5.90</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>16.9</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>20.2</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>20.8</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>12.1</td>
</tr>
</tbody>
</table>
Lenovo Global Technology
ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

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

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>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>6</td>
<td>228</td>
<td>7.77</td>
<td>227</td>
<td>7.81</td>
<td>228</td>
<td>7.77</td>
<td>227</td>
<td>7.81</td>
<td>228</td>
<td>7.77</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>6</td>
<td>314</td>
<td>12.7</td>
<td>314</td>
<td>12.7</td>
<td>314</td>
<td>12.7</td>
<td>314</td>
<td>12.7</td>
<td>314</td>
<td>12.7</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>6</td>
<td>199</td>
<td>23.7</td>
<td>199</td>
<td>23.7</td>
<td>199</td>
<td>23.7</td>
<td>199</td>
<td>23.7</td>
<td>199</td>
<td>23.7</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>6</td>
<td>185</td>
<td>8.82</td>
<td>186</td>
<td>8.78</td>
<td>184</td>
<td>8.89</td>
<td>186</td>
<td>8.78</td>
<td>184</td>
<td>8.89</td>
</tr>
<tr>
<td>623.xalanchmk_s</td>
<td>6</td>
<td>83.5</td>
<td>17.0</td>
<td>83.8</td>
<td>16.9</td>
<td>84.6</td>
<td>16.8</td>
<td>83.5</td>
<td>17.0</td>
<td>83.8</td>
<td>16.9</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>6</td>
<td>87.3</td>
<td>20.2</td>
<td>87.3</td>
<td>20.2</td>
<td>87.2</td>
<td>20.2</td>
<td>84.3</td>
<td>20.9</td>
<td>84.2</td>
<td>21.0</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>6</td>
<td>195</td>
<td>7.36</td>
<td>194</td>
<td>7.37</td>
<td>194</td>
<td>7.38</td>
<td>195</td>
<td>7.36</td>
<td>194</td>
<td>7.37</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>6</td>
<td>142</td>
<td>20.4</td>
<td>142</td>
<td>20.4</td>
<td>142</td>
<td>20.8</td>
<td>142</td>
<td>20.8</td>
<td>142</td>
<td>20.8</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>6</td>
<td>510</td>
<td>12.1</td>
<td>510</td>
<td>12.1</td>
<td>510</td>
<td>12.1</td>
<td>510</td>
<td>12.1</td>
<td>510</td>
<td>12.1</td>
</tr>
</tbody>
</table>

Compiler Notes

The inconsistent Compiler version information under Compiler Version section is due to a discrepancy in Intel Compiler. The correct version of C/C++ compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux
The correct version of Fortran compiler is: Version 19.1.1.217 Build 20200306 Compiler for Linux

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu2017-1.1.0-ic19.1.1/lib/intel64:/home/cpu2017-1.1.0-ic19.1.1/j
e5.0.1-64"
MALLOCONF = "retain=true"
OMP_STACKSIZE = "192M"

General Notes

Binaries compiled on a system with 1x Intel Core i9–7980XE CPU + 64GB RAM memory using Redhat Enterprise Linux 8.0
Transparent Huge Pages enabled by default
Prior to runcpu invocation
Filesystem page cache synced and cleared with:

(Continued on next page)
Lenovo Global Technology
ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

**SPECspeed®2017_int_base** = 12.3
**SPECspeed®2017_int_peak** = 12.6

<table>
<thead>
<tr>
<th>CPU2017 License</th>
<th>Lenovo Global Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor:</td>
<td>Lenovo Global Technology</td>
</tr>
<tr>
<td>Tested by:</td>
<td>Lenovo Global Technology</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Jun-2020</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Mar-2020</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Apr-2020</td>
</tr>
</tbody>
</table>

**General Notes (Continued)**

```
sync; echo 3> /proc/sys/vm/drop_caches
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.
```

**Platform Notes**

BIOS configuration:
Choose Operating Mode set to Maximum Performance
Hyper-Threading set to Disable

Sysinfo program /home/cpu2017-1.1.0-ic19.1.1/bin/sysinfo
Rev: r6365 of 2019-08-21 295195f888a3d7ed1e6e6a485a0011
running on linux-bfbk Wed Jun 17 17:47:47 2020

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) E-2246G CPU @ 3.60GHz
  1 "physical id"s (chips)
    6 "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 : 6
    siblings : 6
    physical 0: cores 0 1 2 3 4 5
```

From lscpu:
```
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
Address sizes: 39 bits physical, 48 bits virtual
CPU(s): 6
On-line CPU(s) list: 0-5
Thread(s) per core: 1
Core(s) per socket: 6
Socket(s): 1
NUMA node(s): 1

(Continued on next page)
Lenovo Global Technology

ThinkSystem ST250  
(3.60 GHz, Intel Xeon E-2246G)  

**SPEC CPU®2017 Integer Speed Result**  
Copyright 2017-2020 Standard Performance Evaluation Corporation

**Lenovo Global Technology**

**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology

**SPECspeed®2017_int_base = 12.3**  
**SPECspeed®2017_int_peak = 12.6**

---

**Platform Notes (Continued)**

Vendor ID:    GenuineIntel  
CPU family:  6  
Model:  158  
Model name: Intel(R) Xeon(R) E-2246G CPU @ 3.60GHz  
Stepping:  10  
CPU MHz:  3600.000  
CPU max MHz:  4800.0000  
CPU min MHz:  800.0000  
BogoMIPS:  7200.00  
Virtualization: VT-x  
L1d cache:  32K  
L1i cache:  32K  
L2 cache:  256K  
L3 cache:  12288K  
NUMA node0 CPU(s):  0-5  
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 pdelgb rdtscp  
lm constant_tsc art arch_perfmon pebs bts rep_good nopl pmx smx est tm2 ssse3  
sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer  
aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb invpcid_single  
pti ssbd ibrs stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust  
bmi1 hle avx2 smep bmi2 erms invpcid rtm mpx rdseed adx smap clflushopt intel_pt  
xsaveopt xsaves xsavec xgetbv1 xsave xsetbv1 xsaveopt xparameters dtherm ida arat pln pts hwp hwp_notify hwp_act_window  
hwp_epp md_clear flush_l1d

/proc/cpuinfo cache data  
cache size : 12288 KB

From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a physical chip.  
available: 1 nodes (0)  
node 0 cpus: 0 1 2 3 4 5  
node 0 size: 128865 MB  
node 0 free: 128260 MB  
node distances:  
node 0  
0: 10

From /proc/meminfo  
MemTotal: 131958628 kB  
HugePages_Total: 0  
Hugepagesize: 2048 kB

From /etc/*release* /etc/*version*  
**os-release:**  
NAME="SLES"

(Continued on next page)
Lenovo Global Technology

ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

| SPECspeed®2017_int_base = 12.3 |
| SPECspeed®2017_int_peak = 12.6 |

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

Platform Notes (Continued)

VERSION="15-SP1"
VERSION_ID="15.1"
PRETTY_NAME="SUSE Linux Enterprise Server 15 SP1"
ID="sles"
ID_LIKE="suse"
ANSI_COLOR="0;32"
CPE_NAME="cpe:/o:suse:sles:15:sp1"

uname -a:
Linux linux-bfbk 4.12.14-195-default #1 SMP Tue May 7 10:55:11 UTC 2019 (8fba516)
x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

CVE-2018-3620 (L1 Terminal Fault): Mitigation: PTE Inversion; VMX: conditional cache flushes, SMT disabled
Microarchitectural Data Sampling: Mitigation: Clear CPU buffers; SMT disabled
CVE-2017-5754 (Meltdown): Mitigation: PTI
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2017-5753 (Spectre variant 1): Mitigation: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Indirect Branch Restricted Speculation, IBPB: conditional, IBRS_FW, RSB filling

run-level 3 Jun 17 17:46

SPEC is set to: /home/cpu2017-1.1.0-ic19.1.1

From /sys/devices/virtual/dmi/id
BIOS: Lenovo -[ISE115D-2.10]- 04/24/2020
Vendor: Lenovo
Product: ThinkSystem ST250 -[7Y45CT00WW]-
Product Family: ThinkSystem
Serial: 1234567890

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.
Memory:
4x SK Hynix HMAA4GU7AJR8N-VK 32767 MB 2 rank 2666

(End of data from sysinfo program)
# Lenovo Global Technology

## Lenovo Global Technology

**ThinkSystem ST250**

**CPU2017 License:** 9017

**Test Sponsor:** Lenovo Global Technology

**Tested by:** Lenovo Global Technology

**CPU2017 License:** 9017

**Test Date:** Jun-2020

**Hardware Availability:** Mar-2020

**Software Availability:** Apr-2020

## Compiler Version Notes

<table>
<thead>
<tr>
<th></th>
<th>600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak)</th>
</tr>
</thead>
</table>
|   | Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1 NextGen Build 20200304
|   | Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
| C | 600.perlbench_s(peak) |
| Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.1.1.217 Build 20200306 |
| Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |
| C | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak) |
| Intel(R) C Compiler for applications running on Intel(R) 64, Version 2021.1 NextGen Build 20200304 |
| Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |
| C++ | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak) 641.leela_s(base, peak) |
| Intel(R) C++ Compiler for applications running on Intel(R) 64, Version 2021.1 NextGen Build 20200304 |
| Copyright (C) 1985-2020 Intel Corporation. All rights reserved. |
| Fortran | 648.exchange2_s(base, peak) |
| Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R) |

(Continued on next page)
Lenovo Global Technology
ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

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

**Test Date:** Jun-2020
**Hardware Availability:** Mar-2020
**Software Availability:** Apr-2020

---

**Compiler Version Notes (Continued)**

64, Version 19.1.1.217 Build 20200306
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

---

**Base Compiler Invocation**

C benchmarks:

```bash
icc
```

C++ benchmarks:

```bash
icpc
```

Fortran benchmarks:

```bash
ifort
```

---

**Base Portability Flags**

```bash
600.perlbench_s: -DSPEC_LP64
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
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:

```bash
-m64 -gnextgen -std=c11
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs
-xCORE-AVX2 -O3 -ffast-math -flto -mfpmath=sse -funroll-loops
-fuse-ld=gold -qopt-mem-layout-trans=4 -fopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

C++ benchmarks:

```bash
-m64 -gnextgen -Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -flto -mfpmath=sse
-funroll-loops -fuse-ld=gold -qopt-mem-layout-trans=4
```

(Continued on next page)
SPEC CPU®2017 Integer Speed Result

Lenovo Global Technology
ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 12.3</th>
<th>Test Date: Jun-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_int_peak = 12.6</td>
<td>Hardware Availability: Mar-2020</td>
</tr>
</tbody>
</table>

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

Base Optimization Flags (Continued)

C++ benchmarks (continued):
-LL/usr/local/IntelCompiler19/compilers_and_libraries_2020.1.217/linux/compiler/lib/intel64_lin
-lqkmalloc

Fortran benchmarks:
-m64 -Wl,-plugin-opt=-x86-branches-within-32B-boundaries -xCORE-AVX2
-O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-mbranches-within-32B-boundaries

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Peak Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
602.gcc_s: -DSPEC_LP64(* -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalancbmk_s: -DSPEC_LP64 -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

(*) Indicates a portability flag that was found in a non-portability variable.

Peak Optimization Flags

C benchmarks:

(Continued on next page)
Lenovo Global Technology
ThinkSystem ST250
(3.60 GHz, Intel Xeon E-2246G)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 12.3</th>
<th>SPECspeed®2017_int_peak = 12.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU2017 License: 9017</td>
<td>Test Date: Jun-2020</td>
</tr>
<tr>
<td>Test Sponsor: Lenovo Global Technology</td>
<td>Hardware Availability: Mar-2020</td>
</tr>
<tr>
<td>Tested by: Lenovo Global Technology</td>
<td>Software Availability: Apr-2020</td>
</tr>
</tbody>
</table>

### Peak Optimization Flags (Continued)

600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)
-xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -fno-strict-overflow
-mbranches-within-32B-boundaries
-\(L\)/usr/local/jemalloc64-5.0.1/lib -ljemalloc

602.gcc_s: -m64 -qnextgen -std=c11 -fuse-ld=gold
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2 -flto
-Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4
-\(L\)/usr/local/jemalloc64-5.0.1/lib -ljemalloc

605.mcf_s: basepeak = yes

625.x264_s: -m64 -qnextgen -std=c11
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -xCORE-AVX2 -flto -O3 -ffast-math
-fuse-ld=gold -qopt-mem-layout-trans=4 -fno-alias
-\(L\)/usr/local/jemalloc64-5.0.1/lib -ljemalloc

657.xz_s: basepeak = yes

C++ benchmarks:

620.omnetpp_s: basepeak = yes

623.xalancbmk_s: basepeak = yes

631.deepsjeng_s: basepeak = yes

641.leela_s: basepeak = yes

Fortran benchmarks:

648.exchange2_s: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-SKL-J.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Intel-ic19.1u1-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-SKL-J.xml
<table>
<thead>
<tr>
<th>Lenovo Global Technology</th>
<th>SPECspeed\textsuperscript{®}2017_int_base = 12.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ThinkSystem ST250</td>
<td>SPECspeed\textsuperscript{®}2017_int_peak = 12.6</td>
</tr>
<tr>
<td>(3.60 GHz, Intel Xeon E-2246G)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CPU2017 License:</th>
<th>9017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor:</td>
<td>Lenovo Global Technology</td>
</tr>
<tr>
<td>Tested by:</td>
<td>Lenovo Global Technology</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Jun-2020</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Mar-2020</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Apr-2020</td>
</tr>
</tbody>
</table>

SPEC CPU and SPECspeed are registered trademarks 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 CPU\textsuperscript{*}2017 v1.1.0 on 2020-06-17 05:47:47-0400.
Report generated on 2020-07-07 14:34:17 by CPU2017 PDF formatter v6255.
Originally published on 2020-07-07.