## Lenovo Global Technology

**ThinkSystem SD530**  
(2.90 GHz, Intel Xeon Gold 6226R)

<table>
<thead>
<tr>
<th>Software</th>
<th>Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU2017 License:</strong> 9017</td>
<td><strong>CPU Name:</strong> Intel Xeon Gold 6226R</td>
</tr>
<tr>
<td><strong>Test Sponsor:</strong> Lenovo Global Technology</td>
<td><strong>Max MHz:</strong> 3900</td>
</tr>
<tr>
<td><strong>Tested by:</strong> Lenovo Global Technology</td>
<td><strong>Nominal:</strong> 2900</td>
</tr>
<tr>
<td><strong>CPU2017 License:</strong> 9017</td>
<td><strong>Enabled:</strong> 32 cores, 2 chips, 2 threads/core</td>
</tr>
<tr>
<td><strong>Test Sponsor:</strong> Lenovo Global Technology</td>
<td><strong>Orderable:</strong> 1,2 chips</td>
</tr>
<tr>
<td><strong>Tested by:</strong> Lenovo Global Technology</td>
<td><strong>Cache L1:</strong> 32 KB I + 32 KB D on chip per core</td>
</tr>
<tr>
<td><strong>Hardware Availability:</strong> Mar-2020</td>
<td><strong>L2:</strong> 1 MB I+D on chip per core</td>
</tr>
<tr>
<td><strong>Software Availability:</strong> Sep-2019</td>
<td><strong>L3:</strong> 22 MB I+D on chip per chip</td>
</tr>
<tr>
<td><strong>Test Date:</strong> Mar-2020</td>
<td><strong>Other:</strong> None</td>
</tr>
<tr>
<td><strong>Hardware Availability:</strong> Mar-2020</td>
<td><strong>Memory:</strong> 384 GB (12 x 32 GB 2Rx4 PC4-2933Y-R)</td>
</tr>
<tr>
<td><strong>Software Availability:</strong> Sep-2019</td>
<td><strong>Storage:</strong> 1 x 800 GB SATA SSD</td>
</tr>
<tr>
<td><strong>Power Management:</strong> BIOS set to prefer performance at the cost of additional power usage</td>
<td><strong>Other:</strong> None</td>
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<tr>
<td><strong>CPU2017 License:</strong> 9017</td>
<td><strong>OS:</strong> SUSE Linux Enterprise Server 15 SP1 (x86_64)</td>
</tr>
<tr>
<td><strong>Test Sponsor:</strong> Lenovo Global Technology</td>
<td><strong>Kernel:</strong> 4.12.14-195-default</td>
</tr>
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<td><strong>Tested by:</strong> Lenovo Global Technology</td>
<td><strong>Compiler:</strong> C/C++: Version 19.0.5.281 of Intel</td>
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<td><strong>Hardware Availability:</strong> Mar-2020</td>
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<td><strong>Fortran:</strong> Version 19.0.5.281 of Intel Fortran</td>
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<td><strong>Parallel:</strong> No</td>
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<tr>
<td><strong>Software Availability:</strong> Sep-2019</td>
<td><strong>Firmware:</strong> Lenovo BIOS Version TEE152L 2.51 released Feb-2020 tested as TEE151L 2.51 Jan-2020</td>
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<tr>
<td><strong>Power Management:</strong> BIOS set to prefer performance at the cost of additional power usage</td>
<td><strong>File System:</strong> xfs</td>
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<tr>
<td><strong>System State:</strong> Run level 3 (multi-user)</td>
<td><strong>Base Pointers:</strong> 64-bit</td>
</tr>
<tr>
<td><strong>Peak Pointers:</strong> Not Applicable</td>
<td><strong>Other:</strong> None</td>
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<td><strong>Other:</strong> None</td>
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### SPEC CPU®2017 Integer Rate Result

**SPECrate®2017_int_base = 211**  
**SPECrate®2017_int_peak = Not Run**

**Lenovo Global Technology**  
**Test Sponsor:** Lenovo Global Technology  
**Test Date:** Mar-2020  
**Hardware Availability:** Mar-2020  
**Tested by:** Lenovo Global Technology  
**Software Availability:** Sep-2019

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<td>500.perlbench_r 64</td>
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<td>502.gcc_r 64</td>
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<td>505.mcf_r 64</td>
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<td>520.omnetpp_r 64</td>
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<tr>
<td>523.xalancbmk_r 64</td>
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<tr>
<td>525.x264_r 64</td>
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<td>531.deepsjeng_r 64</td>
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<tr>
<td>541.leela_r 64</td>
</tr>
<tr>
<td>548.exchange2_r 64</td>
</tr>
<tr>
<td>557.xz_r 64</td>
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</table>

### Hardware

**CPU Name:** Intel Xeon Gold 6226R  
**Max MHz:** 3900  
**Enabled:** 32 cores, 2 chips, 2 threads/core  
**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:** 22 MB I+D on chip per chip  
**Other:** None  
**Memory:** 384 GB (12 x 32 GB 2Rx4 PC4-2933Y-R)  
**Storage:** 1 x 800 GB SATA SSD  
**Other:** None

### Software

**OS:** SUSE Linux Enterprise Server 15 SP1 (x86_64)  
**Kernel:** 4.12.14-195-default  
**Compiler:** C/C++: Version 19.0.5.281 of Intel  
**Compiler for Linux:** C/C++  
**Fortran:** Version 19.0.5.281 of Intel Fortran  
**Compiler for Linux:**  
**Parallel:** No  
**Firmware:** Lenovo BIOS Version TEE152L 2.51 released Feb-2020 tested as TEE151L 2.51 Jan-2020  
**File System:** xfs  
**System State:** Run level 3 (multi-user)  
**Base Pointers:** 64-bit  
**Peak Pointers:** Not Applicable  
**Other:** None  
**Power Management:** BIOS set to prefer performance at the cost of additional power usage
## Lenovo Global Technology

**ThinkSystem SD530**  
(2.90 GHz, Intel Xeon Gold 6226R)

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<th>Ratio</th>
<th>Seconds</th>
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<td>154</td>
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<td>535</td>
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<td>548.exchange2_r</td>
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<td>529</td>
<td>131</td>
<td>531</td>
<td>130</td>
<td>528</td>
<td>131</td>
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</tbody>
</table>

**SPECRate®2017_int_base** = 211  
**SPECRate®2017_int_peak** = Not Run

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"

### Environment Variables Notes

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

```
LD_LIBRARY_PATH =  
"/home/cpu2017-1.1.0-ic19.0u5/lib/intel64:/home/cpu2017-1.1.0-ic19.0u5/lib/ia32:/home/cpu2017-1.1.0-ic19.0u5/je5.0.1-32"
```

### 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:
```
sync; echo 3> /proc/sys/vm/drop_caches
```
```
runcpu command invoked through numactl i.e.:
```

(Continued on next page)
Lenovo Global Technology

ThinkSystem SD530
(2.90 GHz, Intel Xeon Gold 6226R)

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

Lenovo Global Technology

SPECRate®2017_int_base = 211
SPECRate®2017_int_peak = Not Run

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

Test Date: Mar-2020
Hardware Availability: Mar-2020
Software Availability: Sep-2019

General Notes (Continued)

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.
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 and then set it to Custom Mode
DCU Streamer Prefetcher set to Disable
MONITOR/MWAIT set to Enable
SNC set to Enable

Sysinfo program /home/cpu2017-1.1.0-ic19.0u5/bin/sysinfo
Rev: r6365 of 2019-08-21 295195f888a3d7ed01e6e46a485a0011
running on linux-yb89 Tue Mar 17 15:09:06 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) Gold 6226R CPU @ 2.90GHz
  2  "physical id"s (chips)
  64  "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

From lscpu:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
Address sizes: 46 bits physical, 48 bits virtual
CPU(s): 64
On-line CPU(s) list: 0-63

(Continued on next page)
SPEC CPU®2017 Integer Rate Result
Copyright 2017-2020 Standard Performance Evaluation Corporation

Lenovo Global Technology
ThinkSystem SD530
(2.90 GHz, Intel Xeon Gold 6226R)

<table>
<thead>
<tr>
<th>CPU2017 License:</th>
<th>9017</th>
<th>Test Date:</th>
<th>Mar-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor:</td>
<td>Lenovo Global Technology</td>
<td>Hardware Availability:</td>
<td>Mar-2020</td>
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<tr>
<td>Tested by:</td>
<td>Lenovo Global Technology</td>
<td>Software Availability:</td>
<td>Sep-2019</td>
</tr>
</tbody>
</table>

SPECrater®2017_int_base = 211
SPECrater®2017_int_peak = Not Run

Platform Notes (Continued)

Thread(s) per core: 2
Core(s) per socket: 16
Socket(s): 2
NUMA node(s): 4
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Gold 6226R CPU @ 2.90GHz
Stepping: 7
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: 22528K
NUMA node0 CPU(s): 0-3,8-11,32-35,40-43
NUMA node1 CPU(s): 4-7,12-15,36-39,44-47
NUMA node2 CPU(s): 16-19,24-27,48-51,56-59
NUMA node3 CPU(s): 20-23,28-31,52-55,60-63
Flags: fpu vme de pse tsc msr pae mce cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtsscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pclid 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_pme ssbd mba ibrs ibpb stibp ibrs_conflict tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpd cmip cpd cmip cr3write pdt_a avx512if avx512pf rdseed adx smap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsaves xsavec xgetbv1 xsavec cqm_llc cqm_occu llc cqm_mbb_total cqm_mbb_local dtherm ida arat pln pts pku ospke avx512_vnni md_clear flush_lld arch_capabilities

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

Available: 4 nodes (0-3)

<table>
<thead>
<tr>
<th>CPU(s)</th>
<th>Free</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>96385 MB</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
<td>96044 MB</td>
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<td>1</td>
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<td>96764 MB</td>
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<tr>
<td>1</td>
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(Continued on next page)
SPEC CPU®2017 Integer Rate Result

Lenovo Global Technology
ThinkSystem SD530
(2.90 GHz, Intel Xeon Gold 6226R)

SPECrare®2017_int_base = 211
SPECrare®2017_int_peak = Not Run

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

Test Date: Mar-2020
Hardware Availability: Mar-2020
Software Availability: Sep-2019

Platform Notes (Continued)

node 2 cpus: 16 17 18 19 24 25 26 27 48 49 50 51 56 57 58 59
node 2 size: 96764 MB
node 2 free: 96380 MB
node 3 cpus: 20 21 22 23 28 29 30 31 52 53 54 55 60 61 62 63
node 3 size: 96734 MB
node 3 free: 96494 MB
node distances:
  node 0 1 2 3
  0: 10 11 21 21
  1: 11 10 21 21
  2: 21 21 10 11
  3: 21 21 11 10

From /proc/meminfo
  MemTotal: 395928896 kB
  HugePages_Total: 0
  Hugepagesize: 2048 kB

From /etc/*release* /etc/*version*
  os-release:
    NAME="SLES"
    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-yb89 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): Not affected
Microarchitectural Data Sampling:
CVE-2017-5754 (Meltdown): Not affected
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: Enhanced IBRS, IBPB: conditional, RSB filling

run-level 3 Mar 17 15:08

SPEC is set to: /home/cpu2017-1.1.0-ic19.0u5

(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530
(2.90 GHz, Intel Xeon Gold 6226R)

SPECrater®2017_int_base = 211
SPECrater®2017_int_peak = Not Run

CPU2017 License: 9017
Test Sponsor: Lenovo Global Technology
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Test Date: Mar-2020
Hardware Availability: Mar-2020
Software Availability: Sep-2019

Platform Notes (Continued)

Filesystem Type Size Used Avail Use% Mounted on
/dev/sda3 xfs 744G 21G 724G 3% /

From /sys/devices/virtual/dmi/id
BIOS: Lenovo -[TEE151L-2.51]- 01/13/2020
Vendor: Lenovo
Product: THINKSYSTEM SD530 -[7X21042000]-
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 SM BIOS" standard.

Memory:
4x NO DIMM NO DIMM
12x Samsung M393A4K40CB2-CVF 32 GB 2 rank 2933

Compiler Version Notes

==============================================================================
<table>
<thead>
<tr>
<th>C</th>
<th>500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)</th>
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|         | NextGen Technology Build 20190729
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<th></th>
<th>Copyright (C) 1985-2019 Intel Corporation. All rights reserved.</th>
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SPECrate\textsuperscript{\textregistered}2017\textsubscript{\textregistered} int\_base = 211
SPECrate\textsuperscript{\textregistered}2017\textsubscript{\textregistered} int\_peak = Not Run

CPU2017 License: 9017
Test Sponsor: Lenovo Global Technology
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Test Date: Mar-2020
Hardware Availability: Mar-2020
Software Availability: Sep-2019

Compiler Version Notes (Continued)

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

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:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -flto
-mfpmath=sse -funroll-loops -qnextgen -fuse-ld=gold
-qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.5.281/linux/compiler/lib/intel64_lin
-lqkmalloc

C++ benchmarks:
-m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -flto -mfpmath=sse
-funroll-loops -qnextgen -fuse-ld=gold -qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.5.281/linux/compiler/lib/intel64_lin
-lqkmalloc

(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530
(2.90 GHz, Intel Xeon Gold 6226R)

SPECrater®2017_int_base = 211
SPECrater®2017_int_peak = Not Run

Base Optimization Flags (Continued)

Fortran benchmarks:
-m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ipo -no-prec-div
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.5.281/linux/compiler/lib/intel64_lin
-lqkmalloc

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-CLX-F.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-CLX-F.xml

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

Tested with SPEC CPU®2017 v1.1.0 on 2020-03-17 03:09:05-0400.
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