# SPEC CPU®2017 Integer Rate Result

## Lenovo Global Technology

ThinkSystem SR250 V2
(3.20 GHz, Intel Xeon E-2388G)

| SPECrate®2017_int_base | 59.2 |
| SPECrate®2017_int_energy_base | 681 |
| SPECrate®2017_int_peak | Not Run |
| SPECrate®2017_int_energy_peak | Not Run |

### Software

- **OS:** Red Hat Enterprise Linux release 8.4 (Ootpa)
  
  Kernel 4.18.0-305.el8.x86_64

- **Compiler:**
  
  C/C++: Version 2021.1 of Intel oneAPI DPC++/C++
  
  Compiler Build 20201113 for Linux;
  
  Fortran: Version 2021.1 of Intel Fortran Compiler
  
  Classic Build 20201112 for Linux;

- **Parallel:** No

- **Firmware:** Lenovo BIOS Version TQE101Q 1.00 released Dec-2021

- **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 balance power and performance

### Hardware

- **CPU Name:** Intel Xeon E-2388G
- **Max MHz:** 5100
- **Nominal:** 3200
- **Enabled:** 8 cores, 1 chip, 2 threads/core
- **Orderable:** 1 chip
- **Cache L1:** 32 KB I + 48 KB D on chip per core
- **L2:** 512 KB I+D on chip per core
- **L3:** 16 MB I+D on chip per chip
- **Other:** None

- **Memory:** 32 GB (2 x 16 GB 2Rx8 PC4-3200AA-E)
- **Storage:** 1 x 960 GB SATA SSD
- **Other:** None

### Power

- **Max. Power (W):** 106.14
- **Idle Power (W):** 37.17
- **Min. Temperature (C):** 21.63
- **Elevation (m):** 43
- **Line Standard:** 220 V / 50 Hz / 1 phase / 3 wires
- **Provisioning:** Line-powered

### Test Details

- **CPU2017 License:** 9017
- **Test Sponsor:** Lenovo Global Technology
- **Tested by:** Lenovo Global Technology
- **Test Date:** Feb-2022
- **Hardware Availability:** Apr-2022
- **Software Availability:** May-2021

### Benchmarks

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
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<td>gcc_r</td>
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SPECrate®2017_int_peak = Not Run
SPECrate®2017_int_energy_peak = Not Run

Power Settings
Management FW: Version 0.90 of TGBT33E
Memory Mode: Normal

Programs Used:
525.x264_r
520.omnetpp_r
505.mcf_r
500.perfbench_r

Voltage Range Used:
300V

Power Analyzer
Power Analyzer: WIN:9888
Hardware Vendor: YOKOGAWA, Inc.
Model: YokogawaWT310E
Serial Number: C3UD17024E
Input Connection: Default
Metrology Institute: CNAS
Calibration By: GRG METROLOGY & TEST (BEIJING) CO., LTD.
Calibration Label: J20211013741A-0002
Calibration Date: 21-Oct-2021
PTDaemon® Version: 1.9.2 (3976349; 2020-12-08)
Setup Description: Connected to PSU1
Current Ranges Used: 1A
Voltage Range Used: 300V

Temperature Meter
Temperature Meter: WIN:9889
Hardware Vendor: Digi International, Inc.
Model: DigiWATCHPORT_H
Serial Number: W62330963
Input Connection: USB
PTDaemon Version: 1.9.2 (3976349; 2020-12-08)
Setup Description: 50 mm in front of SUT main intake

Base Results Table

<table>
<thead>
<tr>
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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes
The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset commands to bind each copy to a specific processor. For details, please see the config file.
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| Tested by:       | Lenovo Global Technology |
| Test Date:       | Feb-2022 |
| Hardware Availability: | Apr-2022 |
| Software Availability: | May-2021 |

## 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 =

MALLOC_CONF = "retain:true"

## General Notes

Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB RAM memory using Red Hat Enterprise Linux 8.1

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
```

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.

## Platform Notes

BIOS configuration:

Choose Operating Mode set to Minimal Power

Sysinfo program /home/cpu2017-1.1.8-ic2021.1-revB/bin/sysinfo

Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acaf64d

running on localhost.localdomain Sun Feb 13 20:54:39 2022

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-2388G CPU @ 3.20GHz
- 1 "physical id"s (chips)
- 16 "processors"

(Continued on next page)
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**Platform Notes (Continued)**

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

```plaintext
cpu cores : 8  
siblings : 16  
physical 0: cores 0 1 2 3 4 5 6 7
```

From lscpu from util-linux 2.32.1:

```plaintext
Architecture:        x86_64  
CPU op-mode(s):      32-bit, 64-bit  
Byte Order:          Little Endian  
CPU(s):              16  
On-line CPU(s) list: 0-15  
Thread(s) per core:  2  
Core(s) per socket:  8  
Socket(s):           1  
NUMA node(s):        1  
Vendor ID:           GenuineIntel  
BIOS Vendor ID:      Intel(R) Corporation  
CPU family:          6  
Model:               167  
Model name:          Intel(R) Xeon(R) E-2388G CPU @ 3.20GHz  
BIOS Model name:     Intel(R) Xeon(R) E-2388G CPU @ 3.20GHz  
Stepping:            1  
CPU MHz:             2772.286  
BogoMIPS:            6384.00  
Virtualization:      VT-x  
L1d cache:           48K  
L1i cache:           32K  
L2 cache:            512K  
L3 cache:            16384K  
NUMA node0 CPU(s):   0-15  
```

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 pdeltgb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmpref tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pclid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3nowprefetch cpuid_fault epb invpcid_single ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority vptp ept_ad fsgsbase tsadj bmill avx2 smep bmi2 erms invpcid mpx avx512f avx512dq rdseed adx smap avx512ifma clflushopt intel_pt avx512cd sha ni avx512bw avx512vl xsaveopt xsaveprec xsaveopt xsaves dtherm arat pln pts avx512vbi umip pku ospke avx512_vbmi2 gfnl vaes vpmcmldq avx512_vnni avx512_bitalg avx512_vpopcntdq rdpid fsgm md_clear flush_l1d arch_capabilities

/proc/cpuinfo cache data

(Continued on next page)
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Platform Notes (Continued)

cache size : 16384 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 6 7 8 9 10 11 12 13 14 15
   node 0 size: 32069 MB
   node 0 free: 31364 MB
   node distances:
      node 0
         0:  10

From /proc/meminfo
   MemTotal:       32838840 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB
/sbin/tuned-adm active
   Current active profile: throughput-performance

From /etc/*release* /etc/*version*
   os-release:
      NAME="Red Hat Enterprise Linux"
      VERSION="8.4 (Ootpa)"
      ID="rhel"
      ID_LIKE="fedora"
      VERSION_ID="8.4"
      PLATFORM_ID="platform:el8"
      PRETTY_NAME="Red Hat Enterprise Linux 8.4 (Ootpa)"
      ANSI_COLOR="0;31"
   redhat-release: Red Hat Enterprise Linux release 8.4 (Ootpa)
   system-release: Red Hat Enterprise Linux release 8.4 (Ootpa)
   system-release-cpe: cpe:/o:redhat:enterprise_linux:8.4:ga

uname -a:
   Linux localhost.localdomain 4.18.0-305.el8.x86_64 #1 SMP Thu Apr 29 08:54:30 EDT 2021
   x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

CVE-2018-12207 (iTLB Multihit): Not affected
CVE-2018-3620 (L1 Terminal Fault): Not affected
Microarchitectural Data Sampling: Not affected
CVE-2017-5754 (Meltdown): Not affected
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store

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Platform Notes (Continued)

CVE-2017-5753 (Spectre variant 1):
Bypass disabled via prctl and seccomp
Mitigation: usercopy/swapgs barriers and __user pointer sanitization

CVE-2017-5715 (Spectre variant 2):
Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling

CVE-2020-0543 (Special Register Buffer Data Sampling):
Not affected

CVE-2019-11135 (TSX Asynchronous Abort):
Not affected

run-level 3 Feb 13 20:32

SPEC is set to: /home/cpu2017-1.1.8-ic2021.1-revB
Filesystem Type Size Used Avail Use% Mounted on
/dev/sda4 xfs 790G 103G 688G 13% /home

From /sys/devices/virtual/dmi/id
Vendor: Lenovo
Product: ThinkSystem SR250 V2
Product Family: ThinkSystem
Serial: 1234567890

Additional information from dmidecode 3.2 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:
2x SK Hynix HMA82GU7DJR8N-XN 16 GB 2 rank 3200

BIOS:
BIOS Vendor: Lenovo
BIOS Version: TQE101Q-1.00
BIOS Date: 12/29/2021
BIOS Revision: 1.0
Firmware Revision: 0.90

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
C | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base)
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Compiler Version Notes (Continued)
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

==============================================================================
C++       | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
          | 541.leela_r(base)
==============================================================================
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

==============================================================================
Fortran   | 548.exchange2_r(base)
==============================================================================
Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on
Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

Base Compiler Invocation
C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifort

Base Portability Flags
500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64
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Test Date: Feb-2022
Test Sponsor: Lenovo Global Technology
Hardware Availability: Apr-2022
Tested by: Lenovo Global Technology
Software Availability: May-2021

Base Portability Flags (Continued)

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:
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin
-lqkmalloc

C++ benchmarks:
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin
-lqkmalloc

Fortran benchmarks:
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ipo -no-prec-div
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte
-auto -mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin
-lqkmalloc

The flags files that were used to format this result can be browsed at

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-RocketB-A.xml
Lenovo Global Technology

ThinkSystem SR250 V2
(3.20 GHz, Intel Xeon E-2388G)

SPECRate®2017_int_base = 59.2
SPECRate®2017_int_energy_base = 681
SPECRate®2017_int_peak = Not Run
SPECRate®2017_int_energy_peak = Not Run

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