## Lenovo Global Technology

**ThinkSystem SD530 V3**  
(2.00 GHz, Intel Xeon Platinum 8592V)

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<th>Copies</th>
<th>SPECrate®2017_int_base</th>
<th>SPECrate®2017_int_peak</th>
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<td>505.mcf_r</td>
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<td>520.omnetpp_r</td>
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<td>523.xalancbmk_r</td>
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<tr>
<td>525.x264_r</td>
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<td>531.deepsjeng_r</td>
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<tr>
<td>548.exchange2_r</td>
<td>265</td>
<td></td>
</tr>
<tr>
<td>557.xz_r</td>
<td></td>
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</tr>
</tbody>
</table>

### Hardware

- **CPU Name:** Intel Xeon Platinum 8592V  
- **Max MHz:** 3900  
- **Nominal:** 2000  
- **Enabled:** 64 cores, 1 chip, 2 threads/core  
- **Orderable:** 1 chip  
- **Cache L1:** 32 KB I + 48 KB D on chip per core  
- **L2:** 2 MB I+D on chip per core  
- **L3:** 320 MB I+D on chip per chip  
- **Other:** None  
- **Memory:** 512 GB (8 x 64 GB 2Rx4 PC5-5600B-R, running at 4800)  
- **Storage:** 1 x 960 GB M.2 NVME SSD  
- **Other:** None

### Software

- **OS:** SUSE Linux Enterprise Server 15 SP5  
  **Kernel:** 5.14.21-150500.53-default  
- **Compiler:** C/C++: Version 2023.2.3 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2023.2.3 of Intel Fortran Compiler for Linux;  
- **Parallel:** No  
- **Firmware:** Lenovo BIOS Version FNE113F 2.20 released Jan-2024  
- **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

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<table>
<thead>
<tr>
<th>Benchmark</th>
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<th>Ratio</th>
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<th>Ratio</th>
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<tr>
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<td>263</td>
<td>521</td>
<td>265</td>
<td>520</td>
<td>266</td>
</tr>
</tbody>
</table>

**SPECrate®2017_int_base =** 503  
**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/cpu2017-1.1.9-ic2023.2.3/lib/intel64:/home/cpu2017-1.1.9-ic2023.2.3/lib/ia32:/home/cpu2017-1.1.9-ic2023.2.3/je5.0.1-32"

- MALLOC_CONF = "retain:true"

### General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM  
memory using Red Hat Enterprise Linux 8.4  
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  
  
  runcpu command invoked through numactl i.e.:  
  
  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.

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

**Lenovo Global Technology**

ThinkSystem SD530 V3 (2.00 GHz, Intel Xeon Platinum 8592V)

---

**CPU2017 License:** 9017

**Test Sponsor:** Lenovo Global Technology

**Tested by:** Lenovo Global Technology

---

**General Notes (Continued)**

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
- SNC set to SNC2
- LLC Prefetch set to Disabled

Sysinfo program /home/cpu2017-1.1.9-ic2023.2.3/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Sun Feb 4 10:21:39 2024

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

---

Table of contents

1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numacl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 249 (249.16+suse.171.gdad0071f15)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

---

1. uname -a
   Linux localhost 5.14.21-150500.53-default #1 SMP PREEMPT_DYNAMIC Wed May 10 07:56:26 UTC 2023 (b630043)
   x86_64 x86_64 x86_64 GNU/Linux

2. w
   10:21:39 up 1 min,  1 user,  load average: 0.60, 0.26, 0.09
   USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
   root     tty1     -                10:21   11.00s  1.05s  0.01s /bin/bash ./rate_int.sh

3. Username
   From environment variable $USER: root

(Continued on next page)
Platform Notes (Continued)

4. ulimit -a
   core file size    (blocks, -c) unlimited
   data seg size    (kbytes, -d) unlimited
   scheduling priority   (-e) 0
   file size          (blocks, -f) unlimited
   pending signals     (-i) 2062498
   max locked memory   (kbytes, -l) 64
   max memory size     (kbytes, -m) unlimited
   open files            (-n) 1024
   pipe size           (512 bytes, -p) 8
   POSIX message queues (bytes, -q) 819200
   real-time priority     (-r) 0
   stack size           (kbytes, -s) unlimited
   cpu time             (seconds, -t) unlimited
   max user processes    (-u) 2062498
   virtual memory       (kbytes, -v) unlimited
   file locks            (-x) unlimited

5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize 30
   login -- root
      ~bash
   /bin/bash ./rate_int.sh
   /bin/bash ./rate_int.sh
   runcpu --nobuild --action validate --define default-platform-flags --define numcopies=128 --c
   ic2023.2.3-lin-sapphirerapids-rate-20231121.cfg --define smt-on --define cores=64 --define physicalfirst
      --define invoke_with_interleave --define drop_caches --tune base -o all intrate
   runcpu --nobuild --action validate --define default-platform-flags --define numcopies=128 --configfile
   ic2023.2.3-lin-sapphirerapids-rate-20231121.cfg --define smt-on --define cores=64 --define physicalfirst
      --define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode
      rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
 $SPEC/tmp/CPU2017.559/templogs/preenv.intrate.559.0.log --lognum 559.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
 $SPEC = /home/cpu2017-1.1.9-ic2023.2.3

6. /proc/cpuinfo
   model name       : INTEL(R) XEON(R) PLATINUM 8592V
   vendor_id        : GenuineIntel
   cpu family       : 6
   model            : 207
   stepping         : 2
   microcode        : 0x21000200
   bugs             : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb
   cpu cores        : 64
   siblings         : 128
   1 physical ids (chips)
   128 processors (hardware threads)
   physical id 0: core ids 0-63
   physical id 0: apicids 0-127
   Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for
   virtualized systems. Use the above data carefully.

7. lscpu

From lscpu from util-linux 2.37.4:
   Architecture:          x86_64
   CPU op-mode(s):         32-bit, 64-bit

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

| Address sizes: | 46 bits physical, 57 bits virtual |
| Byte Order: | Little Endian |
| CPU(s): | 128 |
| Vendor ID: | GenuineIntel |
| Model name: | INTEL(R) XEON(R) PLATINUM 8592V |
| CPU family: | 6 |
| Model: | 207 |
| Thread(s) per core: | 2 |
| Core(s) per socket: | 64 |
| Stepping: | 2 |
| Flags: | fpu vme de pse tsc msr pae 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 cpuid aperf perf tsc_known_freq pni pclmulqdq dtes64 ds_cpl vmx smx est tm2 sse3 sdbg fma cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand ida vmping aesni cmov要看，f克斯，ccom VA MBRs, SE3, X86-64, AVX-512, AVX-2, AVX-1, AVX, AVX-512, AVX-2, AVX-1, AVX, AVX-512, AVX-2, AVX-1, AVX, AVX-512, AVX-2, AVX-1, AVX, AVX-512, AVX-2, AVX-1, AVX |
| Virtualization: | VT-x |
| L1d cache: | 3 MiB (64 instances) |
| L1i cache: | 2 MiB (64 instances) |
| L2 cache: | 128 MiB (64 instances) |
| L3 cache: | 320 MiB (1 instance) |
| NUMA node(s): | 2 |
| Vulnerability Itlb multihit: | Not affected |
| Vulnerability Ltt: | Not affected |
| Vulnerability Mds: | Not affected |
| Vulnerability Meltdown: | Not affected |
| Vulnerability Mmio stale data: | Not affected |
| Vulnerability Retbleed: | Not affected |
| Vulnerability Spec store bypass: | Mitigation; Speculative Store Bypass disabled via prctl and seccomp |
| Vulnerability Spectre v1: | Mitigation; usercopy/swapsgs barriers and __user pointer sanitization |
| Vulnerability Spectre v2: | Mitigation; Enhanced ISRS, IBPS conditional, RSB filling, PBRS-EBRS SW sequence |
| Vulnerability Srbds: | Not affected |
| Vulnerability Tax async abort: | Not affected |

```
From lscpu --cache:

<table>
<thead>
<tr>
<th>NAME</th>
<th>ONE-SIZE</th>
<th>ALL-SIZE</th>
<th>WAYS</th>
<th>TYPE</th>
<th>LEVEL</th>
<th>SETS</th>
<th>PHY-LINE</th>
<th>COHERENCY-SIZE</th>
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</thead>
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<tr>
<td>L1d</td>
<td>48K</td>
<td>12 Data</td>
<td>1</td>
<td>Data</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L1i</td>
<td>32K</td>
<td>8 Instruction</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
<td></td>
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<tr>
<td>L2</td>
<td>2M</td>
<td>16 Unified</td>
<td>2</td>
<td>2048</td>
<td>1</td>
<td>64</td>
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<td>320M</td>
<td>20 Unified</td>
<td>3</td>
<td>3262144</td>
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</tbody>
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(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530 V3
(2.00 GHz, Intel Xeon Platinum 8592V)

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

PAGE 6

SPECrato®2017_int_base = 503
SPECrato®2017_int_peak = Not Run

Platform Notes (Continued)

NOTE: a numactl 'node' might or might not correspond to a physical chip.
available: 2 nodes (0-1)
nod 0 cpus: 0-31,64-95
node 0 free: 257695 MB
node 1 cpus: 32-63,96-127
node 1 size: 257958 MB
node 1 free: 257175 MB
node distances:
node 0 1
0: 10 12
1: 10 12

9. /proc/meminfo
MemTotal: 528030176 kB

10. who -r
run-level 3 Feb 4 10:21

11. Systemd service manager version: systemd 249 (249.16+suse.171.gdad0071f15)
Default Target Status
multi-user running

12. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron getty@ irqbalance issue-generator
k biodsettings klog lvm2-monitor nsd nvmefc-boot-connections postfix purge-kernels rollback
rsyslog smartd sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcpc4 wickedd-dhcpc6
wickedd-nanny
enabled-runtime systemd-remount-fs
disabled autofs autostart-Initscripts blk-availability boot-syact1 ca-certificates chrony-wait
chronyd console-getty cups cups-browsed debug-shell ebtables exchange-bmc-os-info
firewall gpm grub2-ones haveged haveged-switch-root ipmi ipmiudev issue-add-ssh-keys
kexec-load lumnask man-db-create multipathd nfs nfs-bkmap nvmf-autoconnect rcpbind
rpmconfigcheck rsyncd serial-getty@8 smartd_generate_opts snmpd snmptrapd
systemd-boot-check-no-failures systemd-network-generator systemd-sshd
systemd-time-wait-sync systemd-timesyncd
indirect wickedd

13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.14.21-150500.53-default
root=UUID=f243a704-c613-4a2e-b642-e5754787f2a2
splash=silent
mitigations=auto
quiet
security=apparmor

14. cpupower frequency-info
analyzing CPU 0:
   Unable to determine current policy
   boost state support:
      Supported: yes
      Active: yes

(Continued on next page)
Lenovo Global Technology
ThinkSystem SD530 V3
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SPECrate®2017_int_base = 503
SPECrate®2017_int_peak = Not Run

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

Test Date: Feb-2024
Hardware Availability: Mar-2024
Software Availability: Dec-2023

Platform Notes (Continued)

15. sysctl
- kernel.numa_balancing: 1
- kernel.randomize_va_space: 2
- vm.compaction_proactiveness: 20
- vm.dirty_background_bytes: 0
- vm.dirty_background_ratio: 10
- vm.dirty_bytes: 0
- vm.dirty_expire_centisecs: 3000
- vm.dirty_ratio: 20
- vm.dirty_writeback_centisecs: 20
- vm.dirtytime_expire_seconds: 43200
- vm.extrfrag_threshold: 500
- vm.min_unmapped_ratio: 1
- vm.nr_hugepages: 0
- vm.nr_hugepages_mempolicy: 0
- vm.nr_overcommit_hugepages: 0
- vm.swappiness: 60
- vm.watermark_boost_factor: 15000
- vm.watermark_scale_factor: 10
- vm.zone_reclaim_mode: 0

16. /sys/kernel/mm/transparent_hugepage
- defrag: always defer defer+madvise [madvise] never
- enabled: [always] madvise never
- hpage_pmd_size: 2097152
- shmem_enabled: always within_size advise [never] deny force

17. /sys/kernel/mm/transparent_hugepage/khugepaged
- alloc_sleep_millisecs: 60000
- defrag: 1
- max_ptes_none: 511
- max_ptes_shared: 256
- max_ptes_swap: 64
- pages_to_scan: 4096
- scan_sleep_millisecs: 10000

18. OS release
- From /etc/*-release /etc/*-version
- os-release SUSE Linux Enterprise Server 15 SP5

19. Disk information
- SPEC is set to: /home/cpu2017-1.1.9-ic2023.2.3
- Filesystem Type Size Used Avail Use% Mounted on
- /dev/nvme0n1p3 xfs 893G 29G 864G 4% /

20. /sys/devices/virtual/dmi/id
- Vendor: Lenovo
- Product: ThinkSystem SD530 V3
- Product Family: ThinkSystem
- Serial: PASDVMK006

21. dmidecode
- Additional information from dmidecode 3.4 follows. WARNING: Use caution when you interpret this section.
Platform Notes (Continued)

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:
   3x Samsung M321R8GA0PB0-CWMKH 64 GB 2 rank 5600, configured at 4800
   5x Samsung M321R8GA0PB0-CWMXH 64 GB 2 rank 5600, configured at 4800

Compiler Version Notes

<table>
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<tr>
<th>Language</th>
<th>Benchmark(s)</th>
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<tr>
<td>C</td>
<td>500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)</td>
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</tbody>
</table>

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

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<th>Language</th>
<th>Benchmark(s)</th>
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</thead>
<tbody>
<tr>
<td>Fortran</td>
<td>548.exchange2_r(base)</td>
</tr>
</tbody>
</table>

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifx
Lenovo Global Technology
ThinkSystem SD530 V3
(2.00 GHz, Intel Xeon Platinum 8592V)

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

SPECraten\textsuperscript{\textregistered}2017\textsubscript{\textregistered}\_int\_base = \textbf{503}

SPECraten\textsuperscript{\textregistered}2017\textsubscript{\textregistered}\_int\_peak = \textbf{Not Run}

**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:
\[-w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-lqkmalloc\]

C++ benchmarks:
\[-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-lqkmalloc\]

Fortran benchmarks:
\[-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/home/specdev/new_compilers/ic2023.2.3/compiler/lib/intel64_lin
-lqkmalloc\]

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-Eaglestream-AA.html
http://www.spec.org/cpu2017/flags/Intel-ic2023p2-official-linux64.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-Eaglestream-AA.xml
http://www.spec.org/cpu2017/flags/Intel-ic2023p2-official-linux64.xml
Lenovo Global Technology
ThinkSystem SD530 V3
(2.00 GHz, Intel Xeon Platinum 8592V)

| CPU2017 License: 9017                                                                 | Test Date: Feb-2024                      |
| Test Sponsor: Lenovo Global Technology                                               | Hardware Availability: Mar-2024         |
| Tested by: Lenovo Global Technology                                                  | Software Availability: Dec-2023         |

SPE Crane®2017_int_base = 503
SPE Crane®2017_int_peak = Not Run

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

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