Lenovo Global Technology

ThinkSystem SE360 V2
(1.80 GHz, Intel Xeon D-2752TER)

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

**Test Date:** Oct-2023  
**Hardware Availability:** Jul-2023  
**Software Availability:** Dec-2022

---

### Hardware

- **CPU Name:** Intel Xeon D-2752TER
- **Max MHz:** 2800
- **Nominal:** 1800
- **Enabled:** 12 cores, 1 chip, 2 threads/core
- **Orderable:** 1 chip
- **Cache L1:** 32 KB I + 48 KB D on chip per core  
  - L2: 1.25 MB I+D on chip per core  
  - L3: 20 MB I+D on chip per chip
- **Other:** None
- **Memory:** 128 GB (4 x 32 GB 2Rx4 PC4-3200AA-R, running at 2666)
- **Storage:** 1 x 960 GB M.2 NVME SSD
- **Other:** None

---

### Software

- **OS:** SUSE Linux Enterprise Server 15 SP4 (x86_64)  
  - Kernel 5.14.21-150400.22-default
- **Compiler:**  
  - C/C++: Version 2023.0 of Intel oneAPI DPC++/C++ Compiler for Linux;  
  - Fortran: Version 2023.0 of Intel Fortran Compiler for Linux;
- **Parallel:** No
- **Firmware:** Lenovo BIOS Version IYE105O 2.10 released Oct-2023
- **File System:** xfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 32/64-bit
- **Other:** jemalloc memory allocator V5.0.1
- **Power Management:** BIOS and OS set to balance power and performance

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### SPEC CPU®2017 Integer Rate Result

**SPECRate®2017_int_base = 71.9**  
**SPECRate®2017_int_peak = 74.6**
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Results Table

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<td>523.xalancbm_k_r</td>
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<td>557.xz_r</td>
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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Compiler Notes

SPEC has ruled that the compiler used for this result was performing a compilation that specifically improves the performance of the 523.xalancbm_k_r / 623.xalancbm_k_s benchmarks using a priori knowledge of the SPEC code and dataset to perform a transformation that has narrow applicability.

In order to encourage optimizations that have wide applicability (see rule 1.4 https://www.spec.org/cpu2017/Docs/runrules.html#rule_1.4), SPEC will no longer publish results using this optimization.

This result is left in the SPEC results database for historical reference.

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.

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-ic2023.0-2/lib/intel64:/home/cpu2017-1.1.9-ic2023.0-2/lib/ia32:/home/cpu2017-1.1.9-ic2023.0-2/jre5.0.1-32"
MALLOCONF = "retain=true"
```
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**SPEC CPU®2017 Integer Rate Result**  

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**SPECrated®2017_int_peak = 74.6**

**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  
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-2017-5734 (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.

jemalloc, a general purpose malloc implementation  
built with the Red Hat Enterprise 7.5, and the system compiler gcc 4.8.5  

**Platform Notes**

Sysinfo program /home/cpu2017-1.1.9-ic2023.0-2/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c3c6ae2c92cc097bec197  
running on localhost Thu Oct 19 17:19:36 2023

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

---

1. uname -a  
2. w

---

1. uname -a  
2. w

(Continued on next page)
Platform Notes (Continued)

17:19:36 up 1 min, 1 user, load average: 0.10, 0.08, 0.03
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 17:19 8.00s 1.75s 0.02s -bash

3. Username
From environment variable $USER: root

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 (-l) 513540
   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) 513540
   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
   -bash
   runcpu --nobuild --action validate --define default-platform-flags --define numcopies=24 --c
   ic2023.0-lin-core-avx512-rate-20221201.cfg --define smt-on --define cores=12 --define physicalfirst --define no-numa --tune base,peak --define drop_caches intrate
   $SPEC/tmp/CPU2017.012/templogs/preenv.intrate.012.0.log --lognum 012.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /home/cpu2017-1.1.9-ic2023.0-2

6. /proc/cpuinfo
   model name : Intel(R) Xeon(R) D-2752TER CPU @ 1.80GHz
   vendor_id : GenuineIntel
   cpu family : 6
   model : 108
   stepping : 1
   microcode : 0x1000230
   bugs : spectre_v1 spectre_v2 spec_store_bypass swapgs
   cpu cores : 12
   siblings : 24
   1 physical ids (chips)
   24 processors (hardware threads)
   physical id 0: core ids 0-11
   physical id 0: apicids 0-23

(Continued on next page)
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Platform Notes (Continued)

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 2.37.2:

Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Address sizes: 46 bits physical, 57 bits virtual
Byte Order: Little Endian
CPU(s): 24
On-line CPU(s) list: 0-23
Vendor ID: GenuineIntel
Model name: Intel(R) Xeon(R) D-2752TER CPU @ 1.80GHz
Model: 108
Thread(s) per core: 2
Core(s) per socket: 12
Sockets: 1
Stepping: 1
BogoMIPS: 3600.00

From lscpu --cache:

NAME ONE-SIZE ALL-SIZE WAYS TYPE LEVEL SETS PHY-LINE COHERENCY-SIZE
L1d 48K 576K 12 Data 1 64 1 64
L1i 32K 384K 8 Instruction 1 64 1 64
L2 1.3M 15M 20 Unified 2 1024 1 64
L3 20M 20M 20 Unified 3 16384 1 64

(Continued on next page)
Platform Notes (Continued)

8. numactl --hardware
   NOTE: a numactl 'node' might or might not correspond to a physical chip.
   available: 1 nodes (0)
   node 0 cpus: 0-23
   node 0 size: 128408 MB
   node 0 free: 124667 MB
   node distances:
   node   0
   0:  10

9. /proc/meminfo
   MemTotal:       131490732 kB

10. who --r
    run-level 3 Oct 19 17:17

11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)
    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@ haveged irqbalance iscsi
             issue-generator kbdsettings lvm2-monitor nscd nvme-o-connections postfix
             purge-kernels rollback rsyslog smartd sshd wicked wicked-boot wicked-boot-dhcpd
             wicked-boot-dhcpd wicked-boot-nanny
    enabled-runtime systemd-remount-fs
    disabled  autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chronyd-wait
               chronyd-console-getty cups cups-browsed debug-shell ebtables exchange-bmc-os-info
               firewalld gpm grub2-_once haveged-switch-root ipmi ipmi-evd iscsi-init iscsiadm iscsiio
               issue-addr-ssh-keys kexec-load lunmask man-db-create multipathd nfs nfs-blkmap nmb
               ntp-wait ntpd nvme-autoconnect rdisc rpicbind rpmconfigcheck rsysd serial-getty@
               smartd_generate_opts smb snmpd snmptrapd systemd-boot-check-no-failures
               systemd-network-generator systemd-sysext systemd-time-wait-sync systemd-timesyncd
    generated  ntp_sync
    indirect  wicked

13. Linux kernel boot-time arguments, from /proc/cmdline
    BOOT_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default
    root=UUID=3b09241f-dfe9-4f77-a91b-5c9e94738f47
    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

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**SPEC CPU®2017 Integer Rate Result**

| SPECrate®2017_int_base = 71.9 | SPECrate®2017_int_peak = 74.6 |

### Platform Notes (Continued)

15. **sysctl**
   - kernel.numa_balancing: 0
   - 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: 500
   - 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**
   - 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 SP4

19. **Disk information**
    - SPEC is set to: /home/cpu2017-1.1.9-ic2023.0-2
    - Filesystem Type Size Used Avail Use% Mounted on
    - /dev/nvme0n1p3 xfs  893G  32G  861G   4% /

20. **/sys/devices/virtual/dmi/id**
    - Vendor: Lenovo
    - Product: ThinkEdge SE360 V2 CPU Planar
    - Product Family: ThinkSystem
    - Serial: 1234567890

21. **dmidecode**
    - Additional information from dmidecode 3.2 follows. **WARNING:** Use caution when you interpret this section.

(Continued on next page)
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:

4x Samsung M393A4K40DB3-CWE 32 GB 2 rank 3200, configured at 2666

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22. BIOS
(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: Lenovo
BIOS Version: IYE105O-2.10
BIOS Date: 10/04/2023
Firmware Revision: 2.10

Compiler Version Notes

------------------------------------------------------------------------------------------------------------------

C       | 502.gcc_r(peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on IA-32, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.

------------------------------------------------------------------------------------------------------------------

C       | 500.perlbench_r(base, peak) 502.gcc_r(base) 505.mcf_r(base, peak) 525.x264_r(base, peak) 557.xz_r(base, peak)

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
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C       | 502.gcc_r(peak)

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C++     | 520.omnetpp_r(base, peak) 523.xalancbmk_r(base, peak) 531.deepsjeng_r(base, peak) 541.leela_r(base, peak)

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
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Fortran | 548.exchange2_r(base, peak)

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Compiler Version Notes (Continued)
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Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifx

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 -xCORE-AVX512 -O3 -ffast-math
-fflto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

C++ benchmarks:
-w -std=cpp14 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-fflto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

(Continued on next page)
Base Optimization Flags (Continued)

Fortran benchmarks:
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

Peak Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifx

Peak Portability Flags

500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64
502.gcc_r: -D_FILE_OFFSET_BITS=64
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

Peak Optimization Flags

C benchmarks:
500.perlbench_r: -w -std=c11 -m64 -Wl,-z,muldefs
  -fprofile-generate(pass 1)
  -fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
  -flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
  -funroll-loops -qopt-mem-layout-trans=4

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Peak Optimization Flags (Continued)

500.perlbench_r (continued):
-fno-strict-overflow
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

502.gcc_r: -m32
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/ia32_lin
-std=gnu89 -Wl,-z,muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-ftlo -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc32-5.0.1/lib -ljemalloc

505.mcf_r: basepeak = yes

525.x264_r: -w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast
-ffast-math -ftlo -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fno-alias
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc

557.xz_r: basepeak = yes

C++ benchmarks:

520.omnetpp_r: basepeak = yes

523.xalancbmk_r: basepeak = yes

531.deepsjeng_r: basepeak = yes

541.leela_r: 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-Eaglestream-AA.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
## Lenovo Global Technology

**ThinkSystem SE360 V2**  
(1.80 GHz, Intel Xeon D-2752TER)

### SPECrate®2017

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

### Test Details:

- **Test Date:** Oct-2023  
- **Hardware Availability:** Jul-2023  
- **Software Availability:** Dec-2022

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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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