## SPEC CPU®2017 Integer Speed Result

**Lenovo Global Technology**  
ThinkSystem SR630 V3  
(1.80 GHz, Intel Xeon Gold 6428N)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 14.3</th>
<th>SPECspeed®2017_int_peak = Not Run</th>
</tr>
</thead>
</table>

**CPU2017 License:** 9017  
**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology  
**Test Date:** Feb-2023  
**Hardware Availability:** Feb-2023  
**Software Availability:** Jun-2022

### Threads

<table>
<thead>
<tr>
<th>Program</th>
<th>Threads</th>
<th>SPECspeed®2017_int_base</th>
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<tbody>
<tr>
<td>600.perlbench_s</td>
<td>128</td>
<td>128</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>128</td>
<td>11.7</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>128</td>
<td>22.3</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>128</td>
<td>11.7</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>128</td>
<td>26.8</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>128</td>
<td>21.5</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>128</td>
<td>6.98</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>128</td>
<td>5.64</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>128</td>
<td>22.1</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>128</td>
<td>26.7</td>
</tr>
</tbody>
</table>

### Hardware

- **CPU Name:** Intel Xeon Gold 6428N  
- **Max MHz:** 3800  
- **Nominal:** 1800  
- **Enabled:** 64 cores, 2 chips, 2 threads/core  
- **Orderable:** 1.2 chips  
- **Cache L1:** 32 KB I + 48 KB D on chip per core  
- **L2:** 2 MB I+D on chip per core  
- **L3:** 60 MB I+D on chip per chip  
- **Other:** None  
- **Memory:** 512 GB (16 x 32 GB 2Rx8 PC5-4800B-R, running at 4000)  
- **Storage:** 1 x 960 GB SATA SSD  
- **Other:** None

### Software

- **OS:** SUSE Linux Enterprise Server 15 SP4 (x86_64)  
  Kernel 5.14.21-150400.22-default  
- **Compiler:** C/C++: Version 2022.1 of Intel oneAPI DPC++/C++ Compiler for Linux; Fortran: Version 2022.1 of Intel Fortran Compiler for Linux;  
- **Firmware:** Yes  
  Lenovo BIOS Version ESE109L 1.10 released Jan-2023  
- **File System:** xfs  
- **System State:** Run level 3 (multi-user)  
- **Base Pointers:** 64-bit  
- **Peak Pointers:** Not Applicable  
- **Other:** jemalloc memory allocator V5.0.1  
- **Power Management:** BIOS and OS set to prefer performance at the cost of additional power usage
Lenovo Global Technology
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SPECspeed®2017_int_base = 14.3
SPECspeed®2017_int_peak = Not Run

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
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<th>Ratio</th>
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<th>Seconds</th>
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<tr>
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<td>197</td>
<td>8.99</td>
<td>198</td>
<td>8.98</td>
<td>9.00</td>
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<tr>
<td>602.gcc_s</td>
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<td>232</td>
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SPECspeed®2017_int_base = 14.3
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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.xalancbmk_r / 623.xalancbmk_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.

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/cpu2017-1.1.9-ic2022.1/lib/intel64:/home/cpu2017-1.1.9-ic2022.1/je5.0.1-64"
MALLOC_CONF = "retain:true"
OMP_STACKSIZE = "192M"

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using Redhat Enterprise Linux 8.0 Transparent Huge Pages enabled by default
Prior to runcpu invocation
**General Notes (Continued)**

Filesystem page cache synced and cleared with:
```bash
  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 Maximum Performance and then set it to Custom Mode
C-state set to Legacy
Sysinfo program /home/cpu2017-1.1.9-ic2022.1/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c6ae2c92cc097bec197
running on localhost Thu Feb 2 21:45:34 2023

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

---

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---

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4. ulimit -a
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7. lscpu
8. numacl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)
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/klhugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS
---

1. uname -a
   Linux localhost 5.14.21-150400.22-default #1 SMP PREEMPT_DYNAMIC Wed May 11 06:57:18 UTC 2022 (49db222)
   x86_64 x86_64 x86_64 GNU/Linux
---

2. w
   21:45:34 up 24 min, 1 user, load average: 0.00, 0.00, 0.00
---
Lenovo Global Technology  
ThinkSystem SR630 V3  
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Test Sponsor: Lenovo Global Technology  
Tested by: Lenovo Global Technology  

Platform Notes (Continued)

3. Username  
   From environment variable $USER: root

4. ulimit
   
   core file size (blocks, -c) unlimited  
data seg size (kbytes, -d) unlimited  
scheduling priority (-e) 0  
file size (blocks, -f) unlimited  
pending signals (-i) 2062491  
max locked memory (kbytes, -l) 64  
max memory size (kbytes, -m) unlimited  
open files (-n) 1024  
pipe size (512 bytes, -p) 8  
Pthreads message queue (bytes, -q) 819200  
real-time priority (-r) 0  
stack size (kbytes, -s) unlimited  
cpu time (seconds, -t) unlimited  
max user processes (-u) 2062491  
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  
   runcpu --nobuild --action validate --define default-platform-flags -c  
   ic2022.1-lin-core-avx512-speed-20220316.cfg --define cores=64 --tune base -o all --define intspeedaffinity  
   --define smt-on --define drop_caches intspeed  
   runcpu --nobuild --action validate --define default-platform-flags --configfile  
   ic2022.1-lin-core-avx512-speed-20220316.cfg --define cores=64 --tune base --output_format all --define  
   intspeedaffinity --define smt-on --define drop_caches --nopower --runnode speed --tune_base --size  
   refspeed intspeed --nopreenv --note-preenv --logfile  
   $SPEC/tmp/CPU2017.021/templogs/preenv.intspeed.021.0.log --lognum 021.0 --from_runcpu 2  
   specperl $SPEC/bin/sysinfo  
   $SPEC = /home/cpu2017-1.1.9-ic2022.1

6. /proc/cpuinfo
   
   model name : Intel(R) Xeon(R) Gold 6428N  
   vendor_id : GenuineIntel  
   cpu family : 6  
   model : 143  
   stepping : 8  
   microcode : 0x2b000161  
   bugs : spectre_v1 spectre_v2 spec_store_bypass swapgs  
   cpu cores : 32  
   sibings : 64  
   2 physical ids (chips)  
   128 processors (hardware threads)  
   physical id 0: core ids 0-31  
   physical id 1: core ids 0-31  
   physical id 0: apicids 0-63  
   physical id 1: apicids 128-191

(Continued on next page)
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): 128
On-line CPU(s) list: 0-127
Vendor ID: GenuineIntel
Model name: Intel(R) Xeon(R) Gold 6428N
Model: 143
Thread(s) per core: 2
Core(s) per socket: 32
Socket(s): 2
Stepping: 8
BogoMIPS: 3600.00

Flags:

fpu vme de pse ts cmova cmov apic sep mtrr pge mca cmov pat pse36
clflush dtscache mpx mmx fxsr svm cpubmsgs cpubug cpuid
lm constant tsc arch_perfmon pebs bts rep_good nopl xtopology
nonstop tsc cpuid perfctr intel_pstate arch_perfmon pebs bts rep_good noopl xtopology

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

From lscpu --cache:

NAME ONE-SIZE ALL-SIZE WAYS TYPE LEVEL SETS PHY-LINE COHERENCY-SIZE
L1d cache: 3 MiB (64 instances)
L1i cache: 2 MiB (64 instances)
L2 cache: 128 MiB (64 instances)
L3 cache: 120 MiB (2 instances)
NUMA node(s): 2
NUMA node0 CPU(s): 0-31, 64-95
NUMA node1 CPU(s): 32-63, 96-127

Vulnerability Itlb multihit: Not affected
Vulnerability L1tfs: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and __user pointer sanitation
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
Vulnerability Srbds: Not affected
Vulnerability Tsz async abort: Not affected

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SPECspeed®2017_int_base = 14.3
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Platform Notes (Continued)

L1i       32K       2M    8 Instruction     1    64        1             64
L2         2M     128M   16 Unified         2  2048        1             64
L3        60M     120M   15 Unified         3 65536        1             64

------------------------------------------------------------
8. numactl --hardware
NOTE: a numactl 'node' might or might not correspond to a physical chip.
available: 2 nodes (0-1)
node 0 cpus: 0-31,64-95
node 0 size: 257661 MB
node 0 free: 256559 MB
node 1 cpus: 32-63,96-127
node 1 size: 257985 MB
node 1 free: 257489 MB
node distances:
node   0   1
0:  10  21
1:  21  10

------------------------------------------------------------
9. /proc/meminfo
MemTotal:       528022072 kB

------------------------------------------------------------
10. who -r
run-level 3 Feb 2 21:21

------------------------------------------------------------
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       5yst2-Firstboot YaST2-Second-Stage apparmor auditd cron getty@ havedeg irbalance
              issue-generator kbdsettings klog 1vm2-monitor nscd postfix purge-kernels rollback rayslog
              smartd ssdh wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime systemd-remount-fs
disabled      autofs autoyast-initscripts blk-availability boot-sysct1 ca-certificates chrony-wait
              chrony console-getty cups cups-browsed debug-shell etables exchange-lmc-os-info
              firewall gpm grub2-once havedeg-switch-root ipmi ipmienvd issue-add-ssh-keys keexec-load
              luumask man-db-create multipathd nfs nfs-blkmap rdisc rcpcbind rpmconfigcheck rsyncd
              serial-getty@ smartd_generate_opts smnmd snmptrapid systemd-boot-check-no-failures
              systemd-network-generator systemd-sysxetc systemd-time-wait-sync systemd-timesyncd
indirect      wicked

------------------------------------------------------------
13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default
root=UUID=efe3d3bb-d17b-48bc-af3c-7e429916327
splash=silent
mitigations=auto
quiet
security-apparmor

------------------------------------------------------------
14. cpupower frequency-info
analyzing CPU 0:
   Unable to determine current policy

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Leonovo Global Technology
ThinkSystem SR630 V3
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**Software Availability:** Jun-2022

**Platform Notes (Continued)**

- boost state support:
  - Supported: yes
  - Active: yes

15. `sysctl`
- `kernel.numa_balancing`: 1
- `kernel.randomize_va_space`: 2
- `vm.compression_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.extfrag_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 SP4

19. Disk information
- `/dev/sda2`
  - `xfs`: 894G 42G 852G 5%

20. `/sys/devices/virtual/dmi/id`
- `Vendor`: Lenovo
- `Product`: ThinkSystem SR630 V3 MB, EGS, DDR5, NY, 1U
- `Product Family`: ThinkSystem
- `Serial`: 1234567890

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Platform Notes (Continued)

21.\ dmidecode
   Additional information from \texttt{dmidecode 3.2} follows. WARNING: Use caution when you interpret this section.
   The \texttt{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 Samsung M321R4GA3BB0-CQKMG 32 GB 2 rank 4800, configured at 4000
   14x Samsung M321R4GA3BB0-CQKVG 32 GB 2 rank 4800, configured at 4000

22.\ BIOS
   (This section combines info from /sys/devices and dmidecode.)
   BIOS Vendor: Lenovo
   BIOS Version: ESE109L-1.10
   BIOS Date: 01/07/2023
   BIOS Revision: 1.10
   Firmware Revision: 1.0

Compiler Version Notes

<table>
<thead>
<tr>
<th>C</th>
<th>600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base) 657.xz_s(base)</th>
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| Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2022.1.0 Build 20220316
| Copyright (C) 1985-2022 Intel Corporation. All rights reserved. |

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Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifx
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Base Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
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:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

C++ benchmarks:
-m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Fortran benchmarks:
-m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

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-N.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-N.xml

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