### Lenovo Global Technology

**ThinkSystem SR860 V3**  
(2.10 GHz, Intel Xeon Gold 6418H)

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

| SPECrate®2017_int_base = 882 |

#### Hardware

- **CPU Name:** Intel Xeon Gold 6418H  
- **Max MHz:** 4000  
- **Nominal:** 2100  
- **Enabled:** 96 cores, 4 chips, 2 threads/core  
- **Orderable:** 2.4 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:** 1 TB (32 x 32 GB 2Rx8 PC5-4800B-R)  
- **Storage:** 1 x 480 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 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 RSE105E 1.10 released May-2023  
- **File System:** xfs  
- **System State:** Run level 3 (multi-user)  
- **Base Pointers:** 64-bit  
- **Peak Pointers:** Not Applicable  
- **Other:** None  
- **Power Management:** BIOS and OS set to prefer performance at the cost of additional power usage

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**SPECrate®2017_int_peak = Not Run**
**SPEC CPU®2017 Integer Rate Result**

Lenovo Global Technology

ThinkSystem SR860 V3
(2.10 GHz, Intel Xeon Gold 6148H)

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

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<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Base</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Peak</th>
<th>Seconds</th>
<th>Ratio</th>
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<tr>
<td>500.perlbench_r</td>
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<td>633</td>
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<td>408</td>
<td>511</td>
<td>406</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SPECrate®2017_int_base = 882
SPECrate®2017_int_peak = Not Run

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.

**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-ic2023.0/lib/intel64:/home/cpu2017-1.1.9-ic2023.0/lib/ia32:/home/cpu2017-1.1.9-ic2023.0/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.
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
C1 Enhanced Mode set to Enabled
DCU Streamer Prefetcher set to Disabled
SNC set to SNC2
UPI Link Disable set to Disabled 1 Link
LLC Prefetch set to Disabled

Sysinfo program /home/cpu2017-1.1.9-ic2023.0/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Tue Aug 29 15:36:10 2023

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

---

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---

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3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lsocpu
8. numactl --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

---

(Continued on next page)
Platform Notes (Continued)

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`
      
      15:36:10 up 1 min, 1 user, load average: 3.13, 2.25, 0.90
      
      USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
      root     tty1     -                15:35   10.00s  1.15s  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) 4126795
      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) 4126795
      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=192 -c
      ic2023.0-lin-sapphirerapids-rate-20221201.cfg --define smt-on --define cores=96 --define physicalfirst
      --define invoke_with_interleave --define drop_caches --tune base -o all intrate
      runcpu --nobuild --action validate --define default-platform-flags --define numcopies=192 --configfile
      ic2023.0-lin-sapphirerapids-rate-20221201.cfg --define smt-on --define cores=96 --define physicalfirst
      --define invoke_with_interleave --define drop_caches --tune base --output_format all --nopower --runmode
      rate --tune base --size refrain intrate --nopreenv --note-preenv --logfile
      $SPEC/tmp/CPU2017.114/templogs/preenv.intrate.114.0.log --lognum 114.0 --from_runcpu 2
      specperl $SPEC/bin/sysinfo
      $SPEC = /home/cpu2017-1.1.9-ic2023.0
      
   ------------------------------------------------------

   6. `/proc/cpuinfo`
      
      model name : Intel(R) Xeon(R) Gold 6418H
      vendor_id : GenuineIntel
      cpu family : 6
      model : 143
      stepping : 8
      microcode : 0x2b0001b0
      bugs : spectre_v1 spectre_v2 spec_store_bypass swapgs
      cpu cores : 24

   (Continued on next page)
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SPECRate®2017_int_peak = Not Run

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

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Platform Notes (Continued)

siblings : 48
4 physical ids (chips)
192 processors (hardware threads)
physical id 0: core ids 0-23
physical id 1: core ids 0-23
physical id 2: core ids 0-23
physical id 3: core ids 0-23
physical id 1: apic ids 128-175
physical id 2: apic ids 256-303
physical id 3: apic ids 384-431

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

From lsconf 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): 192
On-line CPU(s) list: 0-191
Vendor ID: GenuineIntel
Model name: Intel(R) Xeon(R) Gold 6418H
CPU family: 6
Model: 143
Thread(s) per core: 2
Core(s) per socket: 24
Socket(s): 4
Stepping: 8
BogoMIPS: 4200.00
Flags:

Virtualization: VT-x
L1d cache: 4.5 MiB (96 instances)
L1i cache: 3 MiB (96 instances)
L2 cache: 192 MiB (96 instances)
L3 cache: 240 MiB (4 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-11, 96-107
NUMA node1 CPU(s): 12-23, 108-119
NUMA node2 CPU(s): 24-35, 120-131
NUMA node3 CPU(s): 36-47, 132-143

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Test Date: Aug-2023
Hardware Availability: Jun-2023
Software Availability: Dec-2022

Platform Notes (Continued)

NUMA node4 CPU(s): 48-59,144-155
NUMA node5 CPU(s): 60-71,156-167
NUMA node6 CPU(s): 72-83,168-179
NUMA node7 CPU(s): 84-95,180-191
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: 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/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
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>
</tr>
</thead>
<tbody>
<tr>
<td>L1d</td>
<td>48K</td>
<td>4.5M</td>
<td>12</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>3M</td>
<td>8</td>
<td>Instruction</td>
<td>1</td>
<td>64</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L2</td>
<td>2M</td>
<td>192M</td>
<td>16</td>
<td>Unified</td>
<td>2</td>
<td>2048</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>L3</td>
<td>60M</td>
<td>240M</td>
<td>15</td>
<td>Unified</td>
<td>3</td>
<td>65536</td>
<td>1</td>
<td>64</td>
</tr>
</tbody>
</table>

(Continued on next page)
Platform Notes (Continued)

9. /proc/meminfo
   MemTotal: 1056484144 kB

10. who -r
    run-level 3 Aug 29 15:34

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@ havedged irqbalance
    issue-generator kbdsettings llog lvm2-monitor nscd postfix purge-kernels rollback rsyslog
    systemctl remount-fs systemd-remount-fs
    enabled-runtime
    disabled | autofs autostart-initscripts blk-availability boot-sysctl ca-certificate chrony chronyd
    console-getty cups cups-browsed debug-toolset ebtables exchanger-bmc-osinfo
    firewalld gpm grub2-once havedged-switch-root ipmi ipmihealth issue-add-ssh-keys keexec-load
    lpmask man-db-create multipathd nfs nfs-bkmap rdisc rpcbind rpmconfigcheck rsyncd
    serial-getty@ smartd_generate_opts snapd snmpd snmptrapd systemd-boot-check-no-failures
    systemd-network-generator systemd-sysxext systemd-time-wait-sync systemd-timesyncd
    indirect
    direct: wicked

13. Linux kernel boot-time arguments, from /proc/cmdline
    BOOT_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default
    root=UUID=07b494b8-a782-4eba-84f2-ef5c8789da8
    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

15. sysctl
    kernel numa_balancing 1
    kernel.randomize_va_space 2
    vm.compartment_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.extrafrag_threshold 500
    vm.min_unmapped_ratio 1
    vm.nr_hugepages 0

(Continued on next page)
Lenovo Global Technology  
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**Platform Notes (Continued)**

```
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/klhugepaged
   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
   Filesystem     Type  Size  Used Avail Use% Mounted on
   /dev/sda3      xfs   445G   12G  433G   3% /

-----------------------------------------------
20. /sys/devices/virtual/dmi/id
   Vendor:               Lenovo  
   Product:              ThinkSystem SR860 V3  
   Product Family:       ThinkSystem  
   Serial:               None

-----------------------------------------------
21. dmidecode
   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:
   19x Samsung M321R4GA3BB0-CQKDG 32 GB 2 rank 4800
   6x Samsung M321R4GA3BB0-CQKEG 32 GB 2 rank 4800
   4x Samsung M321R4GA3BB0-CQKMG 32 GB 2 rank 4800
   3x Samsung M321R4GA3BB0-CQKVG 32 GB 2 rank 4800

-----------------------------------------------
22. BIOS
   (This section combines info from /sys/devices and dmidecode.)
   BIOS Vendor:        Lenovo  
   BIOS Version:       RSE105E-1.10
```

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Lenovo Global Technology
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SPECrater®2017_int_base = 882
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Platform Notes (Continued)

<table>
<thead>
<tr>
<th>BIOS Date:</th>
<th>05/12/2023</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS Revision:</td>
<td>1.10</td>
</tr>
<tr>
<td>Firmware Revision:</td>
<td>1.10</td>
</tr>
</tbody>
</table>

Compiler Version Notes

```bash
C       | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)
---------|-------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
---------
C++     | 520.omnetpp_r(base) 523.xalancbm_r(base) 531.deepsjeng_r(base) 541.leela_r(base)
---------|-------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
---------
Fortran | 548.exchange2_r(base)
---------|-------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
```

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.xalancbm_r: -DSPEC_LP64 -DSPEC_LINUX
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
```
SPEC CPU®2017 Integer Rate Result

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Base Portability Flags (Continued)

541.lee.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
-fflag -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=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-fflag -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/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/usr/local/intel/compiler/2023.0.0/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-Eaglestream-X.html
http://www.spec.org/cpu2017/flags/Intel-ic2023-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-X.xml
http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.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 v1.1.9 on 2023-08-29 03:36:10-0400.
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