## Lenovo Global Technology

**ThinkSystem SR630**  
(2.40 GHz, Intel Xeon Platinum 8260)

<table>
<thead>
<tr>
<th>Specrate2017_fp_base</th>
<th>Not Run</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Availability</td>
<td>Apr-2019</td>
</tr>
<tr>
<td>Software Availability</td>
<td>Oct-2018</td>
</tr>
</tbody>
</table>

### Test Details
- **Lenovo Global Technology**  
- **Test Date**: May-2019  
- **Hardware Availability**: Apr-2019  
- **Software Availability**: Oct-2018

### Specifications

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU Name</strong>: Intel Xeon Platinum 8260</td>
<td><strong>OS</strong>: Red Hat Enterprise Linux Server release 7.6 (Maipo)</td>
</tr>
<tr>
<td><strong>Max MHz.</strong>: 3900</td>
<td><strong>Kernel</strong>: 3.10.0-957.el7.x86_64</td>
</tr>
<tr>
<td><strong>Nominal</strong>: 2400</td>
<td><strong>Compiler</strong>: C/C++: Version 19.0.0.117 of Intel C/C++</td>
</tr>
<tr>
<td><strong>Enabled</strong>: 48 cores, 2 chips, 2 threads/core</td>
<td><strong>Compiler for Linux</strong>: Compiler for Linux;</td>
</tr>
<tr>
<td><strong>Orderable</strong>: 1,2 chips</td>
<td><strong>Fortran</strong>: Version 19.0.0.117 of Intel Fortran</td>
</tr>
<tr>
<td><strong>Cache L1</strong>: 32 KB I + 32 KB D on chip per core</td>
<td><strong>Compiler for Linux</strong>: Compiler for Linux;</td>
</tr>
<tr>
<td><strong>L2</strong>: 1 MB I+D on chip per core</td>
<td><strong>Parallel</strong>: No</td>
</tr>
<tr>
<td><strong>L3</strong>: 35.75 MB I+D on chip per chip</td>
<td><strong>Firmware</strong>: Lenovo BIOS Version IVE135P 2.10 released Feb-2019</td>
</tr>
<tr>
<td><strong>Other</strong>: None</td>
<td><strong>File System</strong>: xfs</td>
</tr>
<tr>
<td><strong>Memory</strong>: 384 GB (24 x 16 GB 2Rx8 PC4-2933Y-R)</td>
<td><strong>System State</strong>: Run level 3 (multi-user)</td>
</tr>
<tr>
<td><strong>Storage</strong>: 1 x 800 GB SATA SSD</td>
<td><strong>Base Pointers</strong>: 64-bit</td>
</tr>
<tr>
<td><strong>Other</strong>: None</td>
<td><strong>Peak Pointers</strong>: Not Applicable</td>
</tr>
</tbody>
</table>

### Software
- CMake 3.10.2
- Python 3.6.6
- R 3.5.1
- Java 1.8.0_162
- PostgreSQL 11.1
- GCC 7.3.0
- Boost 1.65.1
- Git 2.17.1
- SourceForge.net

### Benchmarks

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>503.bwaves_r</td>
<td>96</td>
</tr>
<tr>
<td>507.cactuBSSN_r</td>
<td>96</td>
</tr>
<tr>
<td>508.namd_r</td>
<td>96</td>
</tr>
<tr>
<td>510.parest_r</td>
<td>96</td>
</tr>
<tr>
<td>511.povray_r</td>
<td>96</td>
</tr>
<tr>
<td>519.libm_r</td>
<td>96</td>
</tr>
<tr>
<td>521.wrf_r</td>
<td>96</td>
</tr>
<tr>
<td>526.blender_r</td>
<td>96</td>
</tr>
<tr>
<td>527.cam4_r</td>
<td>96</td>
</tr>
<tr>
<td>538.imagick_r</td>
<td>96</td>
</tr>
<tr>
<td>544.nab_r</td>
<td>96</td>
</tr>
<tr>
<td>549.fotonik3d_r</td>
<td>96</td>
</tr>
<tr>
<td>554.roms_r</td>
<td>96</td>
</tr>
</tbody>
</table>

### Performance

| SPECrate2017_fp_base | 250 |

---

*Note: All results are in millions of floating-point operations per second (MFLOPS).*
Lenovo Global Technology
ThinkSystem SR630
(2.40 GHz, Intel Xeon Platinum 8260)

SPECrate2017_fp_base = 250
SPECrate2017_fp_peak = Not Run

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

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Base Seconds</th>
<th>Ratio</th>
<th>Base Seconds</th>
<th>Ratio</th>
<th>Base Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>503.bwaves_r</td>
<td>96</td>
<td>1809</td>
<td>532</td>
<td>1806</td>
<td>533</td>
<td>1807</td>
<td>533</td>
</tr>
<tr>
<td>507.cactuBSSN_r</td>
<td>96</td>
<td>550</td>
<td>221</td>
<td>550</td>
<td>221</td>
<td>550</td>
<td>221</td>
</tr>
<tr>
<td>508.namd_r</td>
<td>96</td>
<td>456</td>
<td>200</td>
<td>455</td>
<td>200</td>
<td>457</td>
<td>200</td>
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<tr>
<td>510.parest_r</td>
<td>96</td>
<td>1884</td>
<td>133</td>
<td>1868</td>
<td>134</td>
<td>1883</td>
<td>133</td>
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<tr>
<td>511.povray_r</td>
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<td>309</td>
<td>724</td>
<td>309</td>
<td>724</td>
<td>310</td>
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<td>519.lbm_r</td>
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<td>802</td>
<td>126</td>
<td>801</td>
<td>126</td>
<td>802</td>
<td>126</td>
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<tr>
<td>521.wrf_r</td>
<td>96</td>
<td>913</td>
<td>235</td>
<td>903</td>
<td>238</td>
<td>905</td>
<td>238</td>
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<tr>
<td>526.blender_r</td>
<td>96</td>
<td>487</td>
<td>300</td>
<td>487</td>
<td>300</td>
<td>487</td>
<td>300</td>
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<tr>
<td>527.cam4_r</td>
<td>96</td>
<td>539</td>
<td>311</td>
<td>539</td>
<td>311</td>
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<td>311</td>
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<tr>
<td>538.imagick_r</td>
<td>96</td>
<td>369</td>
<td>646</td>
<td>369</td>
<td>647</td>
<td>370</td>
<td>646</td>
</tr>
<tr>
<td>544.nab_r</td>
<td>96</td>
<td>338</td>
<td>479</td>
<td>339</td>
<td>477</td>
<td>338</td>
<td>478</td>
</tr>
<tr>
<td>549.fotonik3d_r</td>
<td>96</td>
<td>2162</td>
<td>173</td>
<td>2162</td>
<td>173</td>
<td>2165</td>
<td>173</td>
</tr>
<tr>
<td>554.roms_r</td>
<td>96</td>
<td>1475</td>
<td>103</td>
<td>1469</td>
<td>104</td>
<td>1466</td>
<td>104</td>
</tr>
</tbody>
</table>

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"

General Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/cpu2017-1.0.5-ic19/lib/intel64"

Binaries compiled on a system with 1x Intel Core i9-799X CPU + 32GB RAM
memory using Redhat Enterprise Linux 7.5
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.:
umactl --interleave=all runcpu <etc>
NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)
**General Notes (Continued)**

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.
Yes: The test sponsor attests, as of date of publication, that CVE-2018-3640 (Spectre variant 3a) is mitigated in the system as tested and documented.
Yes: The test sponsor attests, as of date of publication, that CVE-2018-3639 (Spectre variant 4) is mitigated in the system as tested and documented.

**Platform Notes**

BIOS configuration:
Choose Operating Mode set to Maximum Performance  
Choose Operating Mode set to Custom Mode  
C-states set to Legacy  
SNC set to Enable  
DCU Streamer Prefetcher set to Disable  
Trusted Execution Technology set to Enable  
Stale AtoS set to Enable  
LLC dead line alloc set to Disable  
Patrol Scrub set to Disable  
Sysinfo program /home/cpu2017-1.0.5-ic19/bin/sysinfo  
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9  
runtime on localhost.localdomain Sat May 11 03:14:40 2019

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) Platinum 8260 CPU @ 2.40GHz  
  2 "physical id"s (chips)  
  96 "processors"
  cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
  cpu cores: 24
  siblings: 48
  physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
  physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29

From lscpu:
  Architecture: x86_64
  CPU op-mode(s): 32-bit, 64-bit
  Byte Order: Little Endian
  CPU(s): 96

(Continued on next page)
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SPECrate2017_fp_base = 250
SPECrate2017_fp_peak = Not Run

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Platform Notes (Continued)

On-line CPU(s) list: 0-95
Thread(s) per core: 2
Core(s) per socket: 24
Socket(s): 2
NUMA node(s): 4
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Platinum 8260 CPU @ 2.40GHz
Stepping: 6
CPU MHz: 2400.000
BogoMIPS: 4800.00
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 36608K
NUMA node0 CPU(s): 0-3,7-9,13-15,19,20,48-51,55-57,61-63,67,68
NUMA node1 CPU(s): 4-6,10-12,16-18,21-23,52-54,58-60,64-66,69-71
NUMA node2 CPU(s): 24-27,31-33,37-39,43,44,72-75,79-81,85-87,91,92
NUMA node3 CPU(s): 28-30,34-36,40-42,45-47,76-78,82-84,88-90,93-95

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 pdpe1gb rdtscp
lm constant_tsc arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc
aperfmperf eagerfpu pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
fma cx16 xtpr pdcm pcd dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
xsave avx f16c rdrand lahf_lm abm 3dnowprefetch epb cat_l3 cdp_l3 intel_pt ssbd mba
ibrs ibpb stibp ibrs_enhanced tpr_shadow vmmi flexpriority ept vpid fsgsbase
tsc_adjust bmi hle avx2 smep bmi2 erms invpcid rtm cqm mxr rdtx_a avx512f avx512dq
rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt xsave cxtb v1
cqmlc cqm_occup_llc cqm_mbb_total cqm_mbb_local dtherm ida arat pln pts pku ospke
avx512_vnni spec_ctrl intel_stibp flush_l1d arch_capabilities

From numactl --hardware WARNING: a numacli 'node' might or might not correspond to a
physical chip.

available: 4 nodes (0-3)
node 0 cpus: 0 1 2 3 7 9 13 14 15 19 20 48 49 50 51 55 56 57 61 62 63 67 68
node 0 size: 97976 MB
node 0 free: 95282 MB
node 1 cpus: 4 5 6 10 11 12 16 17 18 21 22 23 52 53 54 58 59 60 64 65 66 69 70 71
node 1 size: 98304 MB
node 1 free: 9518 MB
node 2 cpus: 24 25 26 27 31 32 33 37 38 39 43 44 72 73 74 75 79 80 81 85 86 87 91 92
node 2 size: 98304 MB

(Continued on next page)
SPEC CPU2017 Floating Point Rate Result

Lenovo Global Technology
ThinkSystem SR630
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<tr>
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</tbody>
</table>

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

- **Test Date:** May-2019
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### Platform Notes (Continued)

- **node 2 free:** 95668 MB
- **node 3 cpus:** 28 29 30 34 35 36 40 41 42 45 46 47 76 77 78 82 83 84 88 89 90 93 94 95
- **node 3 size:** 98304 MB
- **node 3 free:** 95738 MB
- **node distances:**
  - node 0 1 2 3
  - 0: 10 11 21 21
  - 1: 11 10 21 21
  - 2: 21 21 10 11
  - 3: 21 21 11 10

From /proc/meminfo

- **MemTotal:** 395877908 kB
- **HugePages_Total:** 0
- **Hugepagesize:** 2048 kB

From /etc/*release* /etc/*version*

- **os-release:**
  - NAME="Red Hat Enterprise Linux Server"
  - VERSION="7.6 (Maipo)"
  - ID="rhel"
  - ID_LIKE="fedora"
  - VARIANT="Server"
  - VARIANT_ID="server"
  - VERSION_ID="7.6"
  - PRETTY_NAME="Red Hat Enterprise Linux Server 7.6 (Maipo)"
- **redhat-release:** Red Hat Enterprise Linux Server release 7.6 (Maipo)
- **system-release:** Red Hat Enterprise Linux Server release 7.6 (Maipo)
- **system-release-cpe:** cpe:/o:redhat:enterprise_linux:7.6:ga:server

```
uname -a:
Linux localhost.localdomain 3.10.0-957.el7.x86_64 #1 SMP Thu Oct 4 20:48:51 UTC 2018
x86_64 x86_64 x86_64 GNU/Linux
```

### Kernel self-reported vulnerability status:

- **CVE-2017-5754** (Meltdown): Not affected
- **CVE-2017-5753** (Spectre variant 1): Mitigation: Load fences, __user pointer sanitization
- **CVE-2017-5715** (Spectre variant 2): Mitigation: Enhanced IBRS

run-level 3 May 10 16:43

SPEC is set to: /home/cpu2017-1.0.5-ic19

```
Filesystem  Type  Size  Used Avail Use% Mounted on
/dev/sdb2    xfs   689G  48G  642G  7%  /home
```

Additional information from dmidecode follows. WARNING: Use caution when you interpret

(Continued on next page)
Platform Notes (Continued)

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.

BIOS Lenovo -[IVE135P-2.10]- 02/13/2019
Memory:
24x Samsung M393A2K43CB2-CVF 16 GB 2 rank 2933

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
CC  519.lbm_r(base) 538.imagick_r(base) 544.nab_r(base)
------------------------------------------------------------------------------
Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
CXXC 508.namd_r(base) 510.parest_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
CC  511.povray_r(base) 526.blender_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
FC  507.cactuBSSN_r(base)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
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Compiler Version Notes (Continued)
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Intel (R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
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FC  503.bwaves_r(base) 549.fotonik3d_r(base) 554.roms_r(base)
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Intel (R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)
  64, Version 19.0.0.117 Build 20180804
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==============================================================================
Intel (R) C Intel(R) 64 Compiler for applications running on Intel(R)
  64, Version 19.0.0.117 Build 20180804
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:
  icc -m64 -std=c11

C++ benchmarks:
  icpc -m64

Fortran benchmarks:
  ifort -m64

Benchmarks using both Fortran and C:
  ifort -m64 icc -m64 -std=c11

Benchmarks using both C and C++:
  icpc -m64 icc -m64 -std=c11

Benchmarks using Fortran, C, and C++:
  icpc -m64 icc -m64 -std=c11 ifort -m64
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Base Portability Flags

503.bwaves_r: -DSPEC_LP64
507.cactuBSSN_r: -DSPEC_LP64
508.namd_r: -DSPEC_LP64
510.parest_r: -DSPEC_LP64
511.povray_r: -DSPEC_LP64
519.lbm_r: -DSPEC_LP64
521.wrf_r: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
526.blender_r: -DSPEC_LP64 -DSPEC_LINUX -funsigned-char
527.cam4_r: -DSPEC_LP64 -DSPEC_CASE_FLAG
538.imagick_r: -DSPEC_LP64
544.nab_r: -DSPEC_LP64
549.fotonik3d_r: -DSPEC_LP64
554.roms_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3

C++ benchmarks:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3

Fortran benchmarks:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs
-align array32byte

Benchmarks using both Fortran and C:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs
-align array32byte

Benchmarks using both C and C++:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3

Benchmarks using Fortran, C, and C++:
-xCORE-AVX2 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=3 -auto -nostandard-realloc-lhs
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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-CLX-A.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-CLX-A.xml

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