## Lenovo Global Technology

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

<table>
<thead>
<tr>
<th>SPECrate2017_fp_base</th>
<th>247</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECrate2017_fp_peak</td>
<td>Not Run</td>
</tr>
</tbody>
</table>

### Hardware

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU Name:</td>
<td>Intel Xeon Platinum 8260M</td>
</tr>
<tr>
<td>Max MHz.:</td>
<td>3900</td>
</tr>
<tr>
<td>Nominal:</td>
<td>2400</td>
</tr>
<tr>
<td>Enabled:</td>
<td>48 cores, 2 chips, 2 threads/core</td>
</tr>
<tr>
<td>Orderable:</td>
<td>1.2 chips</td>
</tr>
<tr>
<td>Cache L1:</td>
<td>32 KB I + 32 KB D on chip per core</td>
</tr>
<tr>
<td>L2:</td>
<td>1 MB I+D on chip per core</td>
</tr>
<tr>
<td>L3:</td>
<td>35.75 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other:</td>
<td>None</td>
</tr>
<tr>
<td>Memory:</td>
<td>384 GB (24 x 16 GB 2Rx8 PC4-2933Y-R)</td>
</tr>
<tr>
<td>Storage:</td>
<td>1 x 800 GB SATA SSD</td>
</tr>
<tr>
<td>Other:</td>
<td>None</td>
</tr>
</tbody>
</table>

### Software

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>OS:</td>
<td>Red Hat Enterprise Linux Server release 7.6 (Maipo)</td>
</tr>
<tr>
<td>Compiler:</td>
<td>C/C++: Version 19.0.0.117 of Intel C/C++ Compiler for Linux; Fortran: Version 19.0.0.117 of Intel Fortran Compiler for Linux</td>
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<tr>
<td>Parallel:</td>
<td>No</td>
</tr>
<tr>
<td>Firmware:</td>
<td>Lenovo BIOS Version IVE135P 2.10 released Feb-2019</td>
</tr>
<tr>
<td>File System:</td>
<td>xfs</td>
</tr>
<tr>
<td>System State:</td>
<td>Run level 3 (multi-user)</td>
</tr>
<tr>
<td>Base Pointers:</td>
<td>64-bit</td>
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<tr>
<td>Peak Pointers:</td>
<td>Not Applicable</td>
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<tr>
<td>Other:</td>
<td>None</td>
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### Test Results

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>SPECrate2017_fp_base</th>
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<tbody>
<tr>
<td>503.bwaves_r</td>
<td>96</td>
<td>215</td>
</tr>
<tr>
<td>507.cactuBSSN_r</td>
<td>96</td>
<td>194</td>
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<tr>
<td>508.namd_r</td>
<td>96</td>
<td>133</td>
</tr>
<tr>
<td>510.parest_r</td>
<td>96</td>
<td>126</td>
</tr>
<tr>
<td>511.povray_r</td>
<td>96</td>
<td>298</td>
</tr>
<tr>
<td>519.lbm_r</td>
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<td>217</td>
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<tr>
<td>521.wrf_r</td>
<td>96</td>
<td>292</td>
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<td>526.blender_r</td>
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<td>306</td>
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<tr>
<td>527.cam4_r</td>
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<tr>
<td>538.imagick_r</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>544.nab_r</td>
<td>96</td>
<td></td>
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<tr>
<td>549.fotonik3d_r</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>554.roms_r</td>
<td>96</td>
<td></td>
</tr>
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---

### Test Sponsor:

Lenovo Global Technology

### Test Date:

May-2019

### Hardware Availability:

Apr-2019

### Software Availability:

Oct-2018

---

### Notes:

- The tested system is Lenovo Global Technology ThinkSystem SR630 with a 2.40 GHz Intel Xeon Platinum 8260M CPU.
- The SPECrate2017_fp_base result is 247.
- The SPECrate2017_fp_peak result is Not Run.
- The test was conducted by Lenovo Global Technology on May 2019.

---

### Additional Information:

- **CPU Name**: Intel Xeon Platinum 8260M  
  **Max MHz.**: 3900  
  **Nominal**: 2400  
  **Enabled**: 48 cores, 2 chips, 2 threads/core  
  **Orderable**: 1.2 chips  
  **Cache L1**: 32 KB I + 32 KB D on chip per core  
  **L2**: 1 MB I+D on chip per core  
  **L3**: 35.75 MB I+D on chip per chip  
  **Other**: None  
- **Memory**: 384 GB (24 x 16 GB 2Rx8 PC4-2933Y-R)  
- **Storage**: 1 x 800 GB SATA SSD  
- **Other**: None
### Lenovo Global Technology

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

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
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<td>526.blender_r</td>
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<td>549.fotonik3d_r</td>
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<td>102</td>
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<td>103</td>
<td>1481</td>
<td>103</td>
</tr>
</tbody>
</table>

**SPECrate2017_fp_base = 247**  
**SPECrate2017_fp_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"

### 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)

(Continued on next page)
Lenovo Global Technology

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

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

SPECrate2017_fp_base = 247
SPECrate2017_fp_peak = Not Run

Test Date: May-2019
Hardware Availability: Apr-2019
Software Availability: Oct-2018

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
running on localhost.localdomain Sun May 12 06:13:15 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 8260M 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 9 10 11 12 13 16 17 18 19 20 21 24 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)
Lenovo Global Technology  
ThinkSystem SR630  
(2.40 GHz, Intel Xeon Platinum 8260M)

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<tbody>
<tr>
<td>SPECrate2017_fp_peak =</td>
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</table>

CPU2017 License: 9017  
Test Sponsor: Lenovo Global Technology  
Test Date: May-2019  
Hardware Availability: Apr-2019  
Tested by: Lenovo Global Technology  
Software Availability: Oct-2018

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 8260M 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): 24-27,31,32,36-38,42-44,72-75,79,80,84-86,90-92
- NUMA node3 CPU(s): 28-30,33-35,39-41,45-47,76-78,81-83,87-89,93-95
- 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 nni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
- fma cx16 xtpdr pdcmd cca 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 vnni lexprior  ept vpid fsgsbase
- tsc_adjust bm1 hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdvi_a avx512f avx512dq
- rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaves opt xsaveopt xsave xsetbv1
- cqm_llc cqm_occu LLC cqm_mbb_total cqm_mbb_local dtherm ida arat pln pts pku ospke
- avx512_vnni spec_ctrl intel_stibp flush_lld arch_capabilities

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

Available: 4 nodes (0-3)
- node 0 cpus: 0 1 2 3 7 8 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: 95473 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: 95873 MB
- node 2 cpus: 24 25 26 27 31 32 36 37 38 42 43 44 72 73 74 75 79 80 84 85 86 90 91 92
- node 2 size: 98304 MB

(Continued on next page)
<table>
<thead>
<tr>
<th>Platform Notes (Continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>node 2 free: 95922 MB</td>
</tr>
<tr>
<td>node 3 cpus: 28 29 30 33 34 35 39 40 41 45 46 47 76 77 78 81 82 83 87 88 89 93 94 95</td>
</tr>
<tr>
<td>node 3 size: 98304 MB</td>
</tr>
<tr>
<td>node 3 free: 95899 MB</td>
</tr>
<tr>
<td>node distances:</td>
</tr>
<tr>
<td>0: 10 11 21 21</td>
</tr>
<tr>
<td>1: 11 10 21 21</td>
</tr>
<tr>
<td>2: 21 21 10 11</td>
</tr>
<tr>
<td>3: 21 21 11 10</td>
</tr>
</tbody>
</table>

From /proc/meminfo

MemTotal: 395877936 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

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

redhat-release: Red Hat Enterprise Linux Server release 7.6 (Maipo)
system-release: Red Hat Enterprise Linux Server release 7.6 (Maipo)

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 12 06:12

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

Filesystem Type Size Used Avail Use% Mounted on
/dev/sda2 xfs 689G 34G 656G 5% /home

Additional information from dmidecode follows. WARNING: Use caution when you interpret
Lenovo Global Technology
ThinkSystem SR630
(2.40 GHz, Intel Xeon Platinum 8260M)

SPECrate2017_fp_base =  247
SPECrate2017_fp_peak =  Not Run

CPU2017 License:  9017
Test Sponsor:  Lenovo Global Technology
Test Date:  May-2019
Tested by:  Lenovo Global Technology
Hardware Availability:  Apr-2019
Software Availability:  Oct-2018

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.
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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(Continued on next page)
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SPECrater2017_fp_base = 247
SPECrater2017_fp_peak = Not Run

Compiler Version Notes (Continued)

Copyright (C) 1985-2018 Intel Corporation. All rights reserved.

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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==============================================================================
FC  503.bwaves_r(base) 549.fotonik3d_r(base) 554.roms_r(base)
==============================================================================

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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==============================================================================
CC  521.wrf_r(base) 527.cam4_r(base)
==============================================================================

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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
**Lenovo Global Technology**

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

<table>
<thead>
<tr>
<th>Test Date:</th>
<th>May-2019</th>
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<tr>
<td>Hardware Availability:</td>
<td>Apr-2019</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>Oct-2018</td>
</tr>
</tbody>
</table>

### 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  
  -align array32byte
**Lenovo Global Technology**

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

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<td>Hardware Availability: Apr-2019</td>
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<td>Tested by: Lenovo Global Technology</td>
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**SPECrate2017_fp_base = 247**

**SPECrate2017_fp_peak = Not Run**

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

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