Huawei

Huawei 1288H V5 (Intel Xeon Gold 6134)

<table>
<thead>
<tr>
<th>SPECspeed2017_int_base</th>
<th>8.89</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.21</td>
</tr>
</tbody>
</table>

**Threads**

<table>
<thead>
<tr>
<th>Test</th>
<th>SPECspeed2017_int_base</th>
<th>SPECspeed2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s 32</td>
<td>6.23</td>
<td>7.38</td>
</tr>
<tr>
<td>602.gcc_s 32</td>
<td>10.1</td>
<td>11.6</td>
</tr>
<tr>
<td>605.mcf_s 32</td>
<td>6.67</td>
<td>11.6</td>
</tr>
<tr>
<td>620.omnetpp_s 32</td>
<td>1.11</td>
<td>9.61</td>
</tr>
<tr>
<td>623.xalancbmk_s 32</td>
<td>10.3</td>
<td>11.0</td>
</tr>
<tr>
<td>625.x264_s 32</td>
<td>5.24</td>
<td>11.5</td>
</tr>
<tr>
<td>631.deepsjeng_s 32</td>
<td>4.32</td>
<td>13.5</td>
</tr>
<tr>
<td>641.leela_s 32</td>
<td>13.5</td>
<td>20.2</td>
</tr>
<tr>
<td>648.exchange2_s 32</td>
<td>21.0</td>
<td></td>
</tr>
<tr>
<td>657.xz_s 32</td>
<td>20.2</td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**

- CPU Name: Intel Xeon Gold 6134
- Max MHz.: 3700
- Nominal: 3200
- Enabled: 16 cores, 2 chips
- 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: 24.75 MB I+D on chip per chip
- Memory: 384 GB (24 x 16 GB 2Rx8 PC4-2666V-R)
- Storage: 1 x 1200 GB SAS, 10000 RPM
- Other: None

**Software**

- OS: SUSE Linux Enterprise Server 12 SP2 (x86_64) 4.4.21-69-default
- Compiler: C/C++: Version 18.0.0.128 of Intel C/C++ Compiler for Linux;
  Fortran: Version 18.0.0.128 of Intel Fortran Compiler for Linux
- Parallel: Yes
- Firmware: Version 0.37 Released Nov-2017
- File System: xfs
- System State: Run level 3 (multi-user)
- Base Pointers: 64-bit
- Peak Pointers: 32/64-bit
- Other: jemalloc: jemalloc memory allocator library V5.0.1
Huawei

Huawei 1288H V5 (Intel Xeon Gold 6134)

SPEC CPU2017 Integer Speed Result

SPECspeed2017_int_base = 8.89
SPECspeed2017_int_peak = 9.21

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Base Seconds</th>
<th>Threads</th>
<th>Peak Seconds</th>
<th>Base Ratio</th>
<th>Peak Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>32</td>
<td>285</td>
<td>32</td>
<td>241</td>
<td>6.23</td>
<td>7.38</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>32</td>
<td>406</td>
<td>32</td>
<td>407</td>
<td>9.82</td>
<td>9.79</td>
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<td>605.mcf_s</td>
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<td>406</td>
<td>32</td>
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<td>11.6</td>
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<tr>
<td>620.omnetpp_s</td>
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<td>240</td>
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<td>6.80</td>
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<td>623.xalanchmk_s</td>
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<td>148</td>
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<td>138</td>
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<td>10.3</td>
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<tr>
<td>625.x264_s</td>
<td>32</td>
<td>160</td>
<td>32</td>
<td>161</td>
<td>11.0</td>
<td>10.9</td>
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<tr>
<td>631.deepsjeng_s</td>
<td>32</td>
<td>273</td>
<td>32</td>
<td>273</td>
<td>5.24</td>
<td>5.24</td>
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<tr>
<td>641.leela_s</td>
<td>32</td>
<td>395</td>
<td>32</td>
<td>395</td>
<td>4.32</td>
<td>4.32</td>
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<tr>
<td>648.exchange2_s</td>
<td>32</td>
<td>218</td>
<td>32</td>
<td>219</td>
<td>13.5</td>
<td>13.4</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>32</td>
<td>306</td>
<td>32</td>
<td>295</td>
<td>20.2</td>
<td>21.0</td>
</tr>
</tbody>
</table>

SPECspeed2017_int_base = 8.89
SPECspeed2017_int_peak = 9.21

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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:
KMP_AFFINITY = "granularity=fine,scatter"
OMP_STACKSIZE = "192M"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM memory using Redhat Enterprise Linux 7.4
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

jemalloc: configured and built at default for 32bit (i686) and 64bit (x86_64) targets;
jemalloc: built with the RedHat Enterprise 7.4, and the system compiler gcc 4.8.5;

No: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.
No: 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.

(Continued on next page)
Huawei

Huawei 1288H V5 (Intel Xeon Gold 6134)

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<tbody>
<tr>
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</tbody>
</table>

CPU2017 License: 3175
Test Date: Jan-2018
Test Sponsor: Huawei
Hardware Availability: Jul-2017
Tested by: Huawei
Software Availability: Sep-2017

**General Notes (Continued)**

No: 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.

This benchmark result is intended to provide perspective on past performance using the historical hardware and/or software described on this result page.

The system as described on this result page was formerly generally available. At the time of this publication, it may not be shipping, and/or may not be supported, and/or may fail to meet other tests of General Availability described in the SPEC OSG Policy document, http://www.spec.org/osg/policy.html

This measured result may not be representative of the result that would be measured were this benchmark run with hardware and software available as of the publication date.

**Platform Notes**

BIOS configuration:
Power Efficiency Mode Set to Custom
Hyper-Threading Set to Disable
Sysinfo program /spec2017/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618b091c0f
running on linux-jujq Tue Jan 2 22:18:52 2018

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) Gold 6134 CPU @ 3.20GHz
  2 "physical id"s (chips)
  16 "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 : 8
  siblings : 8
  physical 0: cores 1 3 4 6 7 18 20 22
  physical 1: cores 0 2 3 9 16 19 26 27

From lscpu:
  Architecture:     x86_64
  CPU op-mode(s):   32-bit, 64-bit
  Byte Order:       Little Endian
  CPU(s):           16

(Continued on next page)
## SPEC CPU2017 Integer Speed Result

**Huawei**

**Huawei 1288H V5 (Intel Xeon Gold 6134)**

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<tbody>
<tr>
<td>8.89</td>
<td>9.21</td>
</tr>
</tbody>
</table>

### Platform Notes (Continued)

- **On-line CPU(s) list:** 0-15
- **Thread(s) per core:** 1
- **Core(s) per socket:** 8
- **Socket(s):** 2
- **NUMA node(s):** 2
- **Vendor ID:** GenuineIntel
- **CPU family:** 6
- **Model:** 85
- **Model name:** Intel(R) Xeon(R) Gold 6134 CPU @ 3.20GHz
- **Stepping:** 4
- **CPU MHz:** 1300.000
- **CPU max MHz:** 3201.0000
- **CPU min MHz:** 1200.0000
- **BogoMIPS:** 6399.98
- **Virtualization:** VT-x
- **L1d cache:** 32K
- **L1i cache:** 32K
- **L2 cache:** 1024K
- **L3 cache:** 25344K
- **NUMA node0 CPU(s):** 0-7
- **NUMA node1 CPU(s):** 8-15
- **Flags:** fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpl mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtsdp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc aperf perf_event pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pccid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch ida arat epb pni pclmulqdq dtes64_64 smap tpr_shadow vnmi flexpriority osp sse4_1f x2apic msr_perfctr tsic msr_patt cmov tsc_cuckoo tsc_reselect cmov tsc_min_perfctr馊 and clflushopt clwb avx512f avx512dq avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 cqm_11c cqm_11l cqm_11ll

From `numactl --hardware`

```
WARNING: a numactl 'node' might or might not correspond to a physical chip.
```

<table>
<thead>
<tr>
<th>Available</th>
<th>Nodes</th>
<th>CPU(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0-1</td>
<td>0-15</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Size</th>
<th>MB</th>
</tr>
</thead>
<tbody>
<tr>
<td>node 0</td>
<td>191497</td>
</tr>
<tr>
<td>node 0 free</td>
<td>190843</td>
</tr>
<tr>
<td>node 1</td>
<td>193382</td>
</tr>
<tr>
<td>node 1 free</td>
<td>192719</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Distances</th>
<th>0</th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>0:</td>
<td>10</td>
<td>21</td>
</tr>
<tr>
<td>1:</td>
<td>21</td>
<td>10</td>
</tr>
</tbody>
</table>

(Continued on next page)
Huawei 1288H V5 (Intel Xeon Gold 6134)

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Huawei

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</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>Huawei 1288H V5 (Intel Xeon Gold 6134)</td>
</tr>
</tbody>
</table>

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---

**Platform Notes (Continued)**

From /proc/meminfo

<table>
<thead>
<tr>
<th>MemTotal:</th>
<th>394117236 kB</th>
</tr>
</thead>
<tbody>
<tr>
<td>HugePages_Total:</td>
<td>0</td>
</tr>
<tr>
<td>Hugepagesize:</td>
<td>2048 kB</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SuSE-release:</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUSE Linux Enterprise Server 12 (x86_64)</td>
</tr>
<tr>
<td>VERSION = 12</td>
</tr>
<tr>
<td>PATCHLEVEL = 2</td>
</tr>
<tr>
<td># This file is deprecated and will be removed in a future service pack or release.</td>
</tr>
<tr>
<td># Please check /etc/os-release for details about this release.</td>
</tr>
<tr>
<td>os-release:</td>
</tr>
<tr>
<td>NAME=&quot;SLES&quot;</td>
</tr>
<tr>
<td>VERSION=&quot;12-SP2&quot;</td>
</tr>
<tr>
<td>VERSION_ID=&quot;12.2&quot;</td>
</tr>
<tr>
<td>PRETTY_NAME=&quot;SUSE Linux Enterprise Server 12 SP2&quot;</td>
</tr>
<tr>
<td>ID=&quot;sles&quot;</td>
</tr>
<tr>
<td>ANSI_COLOR=&quot;0;32&quot;</td>
</tr>
<tr>
<td>CPE_NAME=&quot;cpe:/o:suse:sles:12:sp2&quot;</td>
</tr>
</tbody>
</table>

uname -a:

```
Linux linux-jujq 4.4.21-69-default #1 SMP Tue Oct 25 10:58:20 UTC 2016 (9464f67)
x86_64 x86_64 x86_64 GNU/Linux
```

run-level 3 Jan 2 22:03

SPEC is set to: /spec2017

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>Type</th>
<th>Size</th>
<th>Used</th>
<th>Avail</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/sda2</td>
<td>xfs</td>
<td>500G</td>
<td>27G</td>
<td>474G</td>
<td>6%</td>
<td></td>
</tr>
</tbody>
</table>

Additional information from dmidecode 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.

BIOS INSYDE Corp. 0.37 11/13/2017

Memory:

24x Samsung M393A2K43BB1-CTD 16 GB 2 rank 2666

(End of data from sysinfo program)

---

**Compiler Version Notes**

```
CC 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base)
```

(Continued on next page)
## SPEC CPU2017 Integer Speed Result

**Huawei**

**Huawei 1288H V5 (Intel Xeon Gold 6134)**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
<tr>
<td>SPECspeed2017_int_peak</td>
<td>9.21</td>
</tr>
<tr>
<td>SPECspeed2017_int_base</td>
<td>8.89</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 3175  
**Test Sponsor:** Huawei  
**Hardware Availability:** Jul-2017  
**Test Date:** Jan-2018  
**Tested by:** Huawei  
**Software Availability:** Sep-2017

### Compiler Version Notes (Continued)

```plaintext
peak) 657.xz_s(base)

-----------------------------------------------
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

-----------------------------------------------
CC  600.perlbench_s(peak) 602.gcc_s(peak) 605.mcf_s(peak) 657.xz_s(peak)

-----------------------------------------------
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

-----------------------------------------------
CXXC 620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base) 641.leela_s(base)

-----------------------------------------------
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

-----------------------------------------------
CXXC 620.omnetpp_s(peak) 623.xalancbmk_s(peak) 631.deepsjeng_s(peak) 641.leela_s(peak)

-----------------------------------------------
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.

-----------------------------------------------
FC  648.exchange2_s(base, peak)

-----------------------------------------------
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

### Base Compiler Invocation

- **C benchmarks:**
  - icc

- **C++ benchmarks:**
  - icpc

- **Fortran benchmarks:**
  - ifort
 SPEC CPU2017 Integer Speed Result

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Huawei 1288H V5 (Intel Xeon Gold 6134)

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CPU2017 License: 3175
Test Sponsor: Huawei
Tested by: Huawei

Test Date: Jan-2018
Hardware Availability: Jul-2017
Software Availability: Sep-2017

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:
- Wl, -z, muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
- qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
- L/usr/local/je5.0.1-64/lib -ljemalloc

C++ benchmarks:
- Wl, -z, muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
- qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc

Fortran benchmarks:
- Wl, -z, muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
- qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte
- L/usr/local/je5.0.1-64/lib -ljemalloc

Base Other Flags

C benchmarks:
- m64 -std=c11

C++ benchmarks:
- m64

Fortran benchmarks:
- m64
SPEC CPU2017 Integer Speed Result

Huawei
Huawei 1288H V5 (Intel Xeon Gold 6134)

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Test Date: Jan-2018
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Tested by: Huawei
Software Availability: Sep-2017

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Peak 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: -D_FILE_OFFSET_BITS=64 -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

(Continued on next page)
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CPU2017 License: 3175
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Software Availability: Sep-2017

Peak Optimization Flags (Continued)

625.x264_s: -Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

657.xz_s: Same as 602.gcc_s

C++ benchmarks:

620.omnetpp_s: basepeak = yes

623.xalancbmk_s: -L/opt/intel/compilers_and_libraries_2018/linux/lib/ia32
-Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX2 -O3 -no-prec-div -qopt-mem-layout-trans=3
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-32/lib -ljemalloc

631.deepsjeng_s: basepeak = yes

641.leela_s: basepeak = yes

Fortran benchmarks:

-Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte
-L/usr/local/je5.0.1-64/lib -ljemalloc

Peak Other Flags

C benchmarks:
-m64 -std=c11

C++ benchmarks (except as noted below):

-m64

623.xalancbmk_s: -m32

Fortran benchmarks:

-m64

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.html
## Huawei

### Huawei 1288H V5 (Intel Xeon Gold 6134)

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**Test Sponsor:** Huawei  
**CPU2017 License:** 3175  
**Test Date:** Jan-2018  
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**CPU2017 License:** 3175  
**Software Availability:** Sep-2017  
**CPU2017 License:** 3175  
**Tested by:** Huawei  
**CPU2017 License:** 3175  
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You can also download the XML flags sources by saving the following links:

- http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.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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