## SPEC® CPU®2017 Integer Rate Result

**Hewlett Packard Enterprise**  
(Test Sponsor: HPE)  
Synergy 480 Gen10 Plus  
(2.60 GHz, Intel Xeon Gold 6348)

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Software</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CPU Name:</strong> Intel Xeon Gold 6348</td>
<td><strong>OS:</strong> Red Hat Enterprise Linux 8.3 (Ootpa)</td>
</tr>
<tr>
<td><strong>Max MHz:</strong> 3500</td>
<td><strong>Compiler:</strong> C/C++, Version 2021.1 of Intel oneAPI DPC++/C++ Compiler Build 20201113 for Linux; Fortran: Version 2021.1 of Intel Fortran Compiler Classic Build 20201112 for Linux;</td>
</tr>
<tr>
<td><strong>Nominal:</strong> 2600</td>
<td><strong>Parallel:</strong> No</td>
</tr>
<tr>
<td><strong>Enabled:</strong> 56 cores, 2 chips, 2 threads/core</td>
<td><strong>Firmware:</strong> HPE BIOS Version I44 v1.50 07/29/2021 released Jul-2021</td>
</tr>
<tr>
<td><strong>Orderable:</strong> 1, 2 chip(s)</td>
<td><strong>File System:</strong> xfs</td>
</tr>
<tr>
<td><strong>Cache L1:</strong> 32 KB I + 48 KB D on chip per core</td>
<td><strong>System State:</strong> Run level 3 (multi-user)</td>
</tr>
<tr>
<td><strong>L2:</strong> 1.25 MB I+D on chip per core</td>
<td><strong>Base Pointers:</strong> 64-bit</td>
</tr>
<tr>
<td><strong>L3:</strong> 42 MB I+D on chip per chip</td>
<td><strong>Peak Pointers:</strong> Not Applicable</td>
</tr>
<tr>
<td><strong>Other:</strong> None</td>
<td><strong>Other:</strong> None</td>
</tr>
<tr>
<td><strong>Memory:</strong> 1 TB (16 x 64 GB 2Rx4 PC4-3200AA-R)</td>
<td><strong>Power Management:</strong> BIOS set to prefer performance at the cost of additional power usage</td>
</tr>
<tr>
<td><strong>Storage:</strong> 1 x 800 GB SAS SSD, RAID 0</td>
<td><strong>Other:</strong> None</td>
</tr>
</tbody>
</table>

### SPEC®2017_int_base = 429

<table>
<thead>
<tr>
<th>SPECrate®2017_int_peak = Not Run</th>
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<tbody>
<tr>
<td><strong>CPU2017 License:</strong> 3</td>
</tr>
<tr>
<td><strong>Test Sponsor:</strong> HPE</td>
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<tr>
<td><strong>Tested by:</strong> HPE</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Copies</th>
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<tbody>
<tr>
<td>500.perlbench_r</td>
<td>112</td>
</tr>
<tr>
<td>502.gcc_r</td>
<td>112</td>
</tr>
<tr>
<td>505.mcf_r</td>
<td>112</td>
</tr>
<tr>
<td>520.omnetpp_r</td>
<td>112</td>
</tr>
<tr>
<td>523.xalancbk_r</td>
<td>112</td>
</tr>
<tr>
<td>525.x264_r</td>
<td>112</td>
</tr>
<tr>
<td>531.deepsjeng_r</td>
<td>112</td>
</tr>
<tr>
<td>541.leela_r</td>
<td>112</td>
</tr>
<tr>
<td>548.exchange2_r</td>
<td>112</td>
</tr>
<tr>
<td>557.xz_r</td>
<td>112</td>
</tr>
</tbody>
</table>

### Hardware

- **CPU Name:** Intel Xeon Gold 6348
- **Max MHz:** 3500
- **Nominal:** 2600
- **Enabled:** 56 cores, 2 chips, 2 threads/core
- **Orderable:** 1, 2 chip(s)
- **Cache L1:** 32 KB I + 48 KB D on chip per core
- **L2:** 1.25 MB I+D on chip per core
- **L3:** 42 MB I+D on chip per chip
- **Other:** None
- **Memory:** 1 TB (16 x 64 GB 2Rx4 PC4-3200AA-R)
- **Storage:** 1 x 800 GB SAS SSD, RAID 0
- **Other:** None

### Software

- **OS:** Red Hat Enterprise Linux 8.3 (Ootpa)
- **Kernel:** 4.18.0-240.el8.x86_64
- **Compiler:** C/C++, Version 2021.1 of Intel oneAPI DPC++/C++ Compiler Build 20201113 for Linux; Fortran: Version 2021.1 of Intel Fortran Compiler Classic Build 20201112 for Linux;
- **Parallel:** No
- **Firmware:** HPE BIOS Version I44 v1.50 07/29/2021 released Jul-2021
- **File System:** xfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** Not Applicable
- **Other:** None
- **Power Management:** BIOS set to prefer performance at the cost of additional power usage
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CPU2017 License: 3  
Test Sponsor: HPE  
Tested by: HPE

**Results Table**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>500.perlbench_r</td>
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<td>602</td>
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<td>520.omnetpp_r</td>
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<td>568</td>
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<td>531.deepsjeng_r</td>
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<tr>
<td>541.leea_r</td>
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<td>543</td>
<td>342</td>
<td>543</td>
<td>342</td>
<td>541</td>
<td>343</td>
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<td>315</td>
<td>931</td>
<td>316</td>
<td>928</td>
<td>315</td>
<td>932</td>
</tr>
<tr>
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<td>112</td>
<td>515</td>
<td>235</td>
<td>511</td>
<td>236</td>
<td>511</td>
<td>237</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"  
Transparent Huge Pages enabled by default  
Prior to runcpu invocation  
Filesyste page cache synced and cleared with:  
```
  sync; echo 3 > /proc/sys/vm/drop_caches
```

### Environment Variables Notes

Environment variables set by runcpu before the start of the run:
```
LD_LIBRARY_PATH = 
  
  
  
  
  MALLOC_CONF = "retain:true"
```

### General Notes

Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB RAM  
memory using Red Hat Enterprise Linux 8.1

(Continued on next page)
SPEC CPU®2017 Integer Rate Result
Copyright 2017-2021 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise
(Test Sponsor: HPE)
Synergy 480 Gen10 Plus
(2.60 GHz, Intel Xeon Gold 6348)

SPECrate®2017_int_base = 429
SPECrate®2017_int_peak = Not Run

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: Aug-2021
Hardware Availability: Jul-2021
Software Availability: Dec-2020

General Notes (Continued)

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

The system ROM used for this result contains Intel microcode version 0xd0002a0 for
the Intel Xeon Gold 6348 processor.

BIOS Configuration:
Workload Profile set to General Throughput Compute
Memory Patrol Scrubbing set to Disabled
Advanced Memory Protection set to Advanced ECC
XPT Remote Prefetcher set to Enabled
Last Level Cache (LLC) Dead Line Allocation set to Disabled
Enhanced Processor Performance set to Enabled
Thermal Configuration set to Maximum Cooling
Intel UPI Link Frequency set to Minimum
Intel UPI Link Enablement set to Single Link
D2K set to Disabled
Workload Profile set to Custom
  DCU Stream Prefetcher set to Disabled
  Energy Efficient Turbo set to Enabled
  Adjacent Sector Prefetch set to Disabled
  Intel UPI Link Power Management set to Enabled

Sysinfo program /home/cpu2017/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16a6af63d4
running on localhost.localdomain Thu Aug 26 06:49:11 2021

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 6348 CPU @ 2.60GHz
  2 "physical id"s (chips)
  112 "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 : 28
siblings : 56

(Continued on next page)
### Platform Notes (Continued)

```plaintext
physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27
physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27
```

From `lscpu` from `util-linux 2.32.1`:
- Architecture: `x86_64`
- CPU op-mode(s): 32-bit, 64-bit
- Byte Order: Little Endian
- CPU(s): 112
- On-line CPU(s) list: 0-111
- Thread(s) per core: 2
- Core(s) per socket: 28
- Socket(s): 2
- NUMA node(s): 4
- Vendor ID: GenuineIntel
- CPU family: 6
- Model: 106
- Model name: Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz
- Stepping: 6
- CPU MHz: 836.078
- BogoMIPS: 5200.00
- Virtualization: VT-x
- L1d cache: 48K
- L1i cache: 32K
- L2 cache: 1280K
- L3 cache: 43008K
- NUMA node0 CPU(s): 0-13,56-69
- NUMA node1 CPU(s): 14-27,70-83
- NUMA node2 CPU(s): 28-41,84-97
- NUMA node3 CPU(s): 42-55,98-111
- Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
- pat pse36 clflush dtc acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp
- lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
- aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16
- x86_64 rdrand lahf_lm abm 3dnowprefetch cpuid_fault ebpx cat_l3 invpcid_single ssbd
- mba ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad
- fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 ertz smvpcid cmqm rdt_a avx512f avx512dq
- rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha ni avx512bw
- avx512vl xsaveopt xsaves xsavec xgetbv1 xsaves cmqm_llc cmqm_occup_llc cmqm_mbb_total
- cmqm_mbb_local split_lock_detect wbnoinvd dtherm ida arat pln pts avx512vfm avx512vpm
- ospe avx512_vbmi12 gnfi vaes vpcm1ldq avx512_vnni avx512_bitalg tme
- avx512_vpopcntdq la57 rdpid md_clear pconfig flush_lld arch_capabilities

/proc/cpuinfo cache data
- cache size : 43008 KB
```

(Continued on next page)
Platform Notes (Continued)

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 4 5 6 7 8 9 10 11 12 13 56 57 58 59 60 61 62 63 64 65 66 67 68 69
  node 0 size: 250643 MB
  node 0 free: 257123 MB
  node 1 cpus: 14 15 16 17 18 19 20 21 22 23 24 25 26 27 70 71 72 73 74 75 76 77 78 79 80
  node 1 size: 251363 MB
  node 1 free: 257602 MB
  node 2 cpus: 28 29 30 31 32 33 34 35 36 37 38 39 40 41 84 85 86 87 88 89 90 91 92 93 94
  node 2 size: 252007 MB
  node 2 free: 257656 MB
  node 3 cpus: 42 43 44 45 46 47 48 49 50 51 52 53 54 55 98 99 100 101 102 103 104 105
  node 3 size: 252556 MB
  node 3 free: 257442 MB
  node distances:
    node 0 1 2 3
    0: 10 20 30 30
    1: 20 10 30 30
    2: 30 30 10 20
    3: 30 30 20 10

From /proc/meminfo
  MemTotal:  1056513912 kB
  HugePages_Total:       0
  Hugepagesize:  2048 kB

/sbin/tuned-adm active
  Current active profile: throughput-performance

From /etc/*release* /etc/*version*
  os-release:
    NAME="Red Hat Enterprise Linux"
    VERSION="8.3 (Ootpa)"
    ID="rhel"
    ID_LIKE="fedora"
    VERSION_ID="8.3"
    PLATFORM_ID="platform:el8"
    PRETTY_NAME="Red Hat Enterprise Linux 8.3 (Ootpa)"
    ANSI_COLOR="0;31"
  redhat-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
  system-release: Red Hat Enterprise Linux release 8.3 (Ootpa)
  system-release-cpe: cpe:/o:redhat:enterprise_linux:8.3:ga

(Continued on next page)
spec

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(Test Sponsor: HPE)
**Synergy 480 Gen10 Plus**
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<table>
<thead>
<tr>
<th>CPU2017 License: 3</th>
<th>Test Date: Aug-2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor: HPE</td>
<td>Hardware Availability: Jul-2021</td>
</tr>
<tr>
<td>Tested by: HPE</td>
<td>Software Availability: Dec-2020</td>
</tr>
</tbody>
</table>

**SPECrate®2017_int_base = 429**

**SPECrate®2017_int_peak = Not Run**

---

**Platform Notes (Continued)**

```
uname -a:
    Linux localhost.localdomain 4.18.0-240.el8.x86_64 #1 SMP Wed Sep 23 05:13:10 EDT 2020
    x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

- **CVE-2018-12207 (iTLB Multihit):** Not affected
- **CVE-2018-3620 (L1 Terminal Fault):** Not affected
- **Microarchitectural Data Sampling:** Not affected
- **CVE-2017-5754 (Meltdown):** Mitigation: Speculative Store Bypass disabled via prctl and seccomp
- **CVE-2018-3639 (Speculative Store Bypass):** Mitigation: userscopy/swapgs barriers and __user pointer sanitization
- **CVE-2017-5753 (Spectre variant 1):** Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
- **CVE-2017-5715 (Spectre variant 2):** Not affected
- **CVE-2020-0543 (Special Register Buffer Data Sampling):** Not affected
- **CVE-2019-11135 (TSX Asynchronous Abort):** Not affected

**SPEC is set to: /home/cpu2017**

<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/sdb4</td>
<td>xfs</td>
<td>740G</td>
<td>359G</td>
<td>381G</td>
<td>49%</td>
<td>/</td>
</tr>
</tbody>
</table>

**From /sys/devices/virtual/dmi/id**

<table>
<thead>
<tr>
<th>Vendor:</th>
<th>HPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product:</td>
<td>Synergy 480 Gen10 Plus</td>
</tr>
<tr>
<td>Product Family:</td>
<td>Synergy</td>
</tr>
<tr>
<td>Serial:</td>
<td>CN70330Q5F</td>
</tr>
</tbody>
</table>

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:**

- 16x Micron 36ASF8G72PZ-3G2B2 64 GB 2 rank 3200
- 16x UNKNOWN NOT AVAILABLE

**BIOS:**

<table>
<thead>
<tr>
<th>BIOS Vendor:</th>
<th>HPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS Version:</td>
<td>I44</td>
</tr>
<tr>
<td>BIOS Date:</td>
<td>07/29/2021</td>
</tr>
<tr>
<td>BIOS Revision:</td>
<td>1.50</td>
</tr>
<tr>
<td>Firmware Revision:</td>
<td>2.40</td>
</tr>
</tbody>
</table>

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Platform Notes (Continued)

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
<table>
<thead>
<tr>
<th>C</th>
<th>500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)</th>
</tr>
</thead>
</table>
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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

==============================================================================
<table>
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<tr>
<th>C++</th>
<th>520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base) 541.leela_r(base)</th>
</tr>
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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

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<table>
<thead>
<tr>
<th>Fortran</th>
<th>548.exchange2_r(base)</th>
</tr>
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==============================================================================

Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:
icx
c

C++ benchmarks:
icpx
c

Fortran benchmarks:
ifort
Hewlett Packard Enterprise

Synergy 480 Gen10 Plus
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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.xalancbmk_r: -DSPEC_LP64 -DSPEC_LINUX
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:
```bash
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin
-lqkmalloc
```

C++ benchmarks:
```bash
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin
-lqkmalloc
```

Fortran benchmarks:
```bash
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ipo -no-prec-div
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte
-auto -mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/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/HPE-Platform-Flags-Intel-V1.0-ICX-revE.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-V1.0-ICX-revE.xml
http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.xml
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<tr>
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<td>SPECrate®2017_int_peak = Not Run</td>
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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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