## SPEC CPU®2017 Integer Speed Result

**Hewlett Packard Enterprise**  
(Test Sponsor: HPE)  
ProLiant DL380 Gen10 Plus  
(3.60 GHz, Intel Xeon Gold 6334)  

<table>
<thead>
<tr>
<th>CPU2017 License:</th>
<th>3</th>
<th>Test Sponsor:</th>
<th>HPE</th>
<th>Hardware Availability:</th>
<th>Jun-2021</th>
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<td>HPE</td>
<td>Test Date:</td>
<td>Jul-2021</td>
<td>Software Availability:</td>
<td>Dec-2020</td>
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</tbody>
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### SPECspeed®2017 Int Base = 11.7  
### SPECspeed®2017 Int Peak = 12.0

### Hardware

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017 Int Base (11.7)</th>
<th>SPECspeed®2017 Int Peak (12.0)</th>
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<tr>
<td>16</td>
<td>8.84</td>
<td>10.9</td>
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<tr>
<td>10.9</td>
<td>17.3</td>
<td>20.3</td>
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<tr>
<td>9.02</td>
<td>14.1</td>
<td>17.4</td>
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<tr>
<td>6.23</td>
<td>18.1</td>
<td>20.5</td>
</tr>
<tr>
<td>5.13</td>
<td>20.6</td>
<td></td>
</tr>
<tr>
<td>20.3</td>
<td></td>
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<td></td>
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<td>20.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.6</td>
<td></td>
<td></td>
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</table>

#### CPU Name: Intel Xeon Gold 6334
- Max MHz: 3700
- Nominal: 3600
- Enabled: 16 cores, 2 chips
- 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: 18 MB I+D on chip per chip
- Other: None
- Memory: 2 TB (32x 64 GB 2Rx4 PC4-3200AA-R)
- Storage: 1 x 800 GB SAS SSD, RAID 0
- Other: None

#### Power Management
- BIOS set to prefer performance at the cost of additional power usage

### 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; C/C++: Version 2021.1 of Intel C/C++ Compiler Classic Build 20201112 for Linux |
| Parallel: Yes |
| Firmware: HPE BIOS Version U46 v1.42 05/16/2021 released May-2021 |
| File System: xfs |
| System State: Run level 3 (multi-user) |
| Base Pointers: 64-bit |
| Peak Pointers: 64-bit |
| Other: jemalloc memory allocator V5.0.1 |
| Power Management: BIOS set to prefer performance at the cost of additional power usage |

---

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Standard Performance Evaluation Corporation (info@spec.org)  
https://www.spec.org/
## Results Table

| Benchmark       | Threads | Base    |          |          |          |          |          |          |          |          |          |          |          |          |          |          |          | OctetOak | SPECspeed®2017_int_base = 11.7 | SPECspeed®2017_int_peak = 12.0 |
|-----------------|---------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 600.perlbench_s| 16      | 236     | 7.52     | 237      | 7.50     | 236      | 7.51     | 16       | 206      | 8.61     | 205      | 8.64     | 205      | 8.64     |
| 602.gcc_s       | 16      | 365     | 10.9     | 367      | 10.8     | 364      | 10.9     | 16       | 354      | 11.2     | 352      | 11.3     | 352      | 11.3     |
| 605.mcf_s       | 16      | 232     | 20.4     | 233      | 20.3     | 233      | 20.3     | 16       | 232      | 20.4     | 233      | 20.3     | 233      | 20.3     |
| 620.omnetpp_s   | 16      | 181     | 9.03     | 183      | 9.93     | 181      | 9.02     | 16       | 181      | 9.03     | 183      | 8.93     | 181      | 9.02     |
| 625.x264_s      | 16      | 101     | 14.1     | 101      | 14.1     | 101      | 14.1     | 16       | 97.3     | 18.1     | 97.3     | 18.1     | 97.2     | 18.1     |
| 641.leela_s     | 16      | 333     | 5.13     | 333      | 5.13     | 333      | 5.12     | 16       | 333      | 5.13     | 333      | 5.13     | 333      | 5.12     |
| 648.exchange2_s | 16      | 144     | 20.5     | 144      | 20.5     | 143      | 20.5     | 16       | 144      | 20.5     | 144      | 20.5     | 143      | 20.5     |
| 657.xz_s        | 16      | 299     | 20.7     | 301      | 20.6     | 301      | 20.6     | 16       | 299      | 20.7     | 301      | 20.6     | 301      | 20.5     |

**Operating System Notes**

Stack size set to unlimited using "ulimit -s unlimited"
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

**Environment Variables Notes**

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = 
"/home/cpu2017_1.1.8/lib/intel64:/home/cpu2017_1.1.8/je5.0.1-64"
MALLOCD_CONF = "retain:true"
OMP_STACKSIZE = "192M"

**General Notes**

Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB RAM memory using Redhat Enterprise Linux 8.0
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.
jemalloc, a general purpose malloc implementation

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

SPECspeed®2017_int_base = 11.7
SPECspeed®2017_int_peak = 12.0

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

General Notes (Continued)

built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

Submitted by: "Bhatnagar, Prateek" <prateek.bhatnagar@hpe.com>
Submitted: Mon Aug 2 07:54:41 EDT 2021
Submission: cpu2017-20210802-28513.sub

Platform Notes

The system ROM used for this result contains Intel microcode version 0xd0002a0 for
the Intel Xeon Gold 6334 processor.

BIOS Configuration:
Workload Profile set to General Peak Frequency Compute
Intel Hyper-Threading set to Disabled
Thermal Configuration set to Maximum Cooling
Memory Patrol Scrubbing set to Disabled
Advanced Memory Protection set to Advanced ECC
Last Level Cache (LLC) Prefetch set to Enabled
Last Level Cache (LLC) Dead Line Allocation set to Disabled
Enhanced Processor Performance set to Enabled
Workload Profile set to Custom
Energy/Performance Bias set to Balanced Power
DCU Stream Prefetcher set to Disabled
Adjacent Sector Prefetch set to Disabled
Minimum Processor Idle Power Package C-State set to No Package State
Numa Group Size Optimization set to Flat

Sysinfo program /home/cpu2017_1.1.8/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891e0e16aaca64d
running on localhost.localdomain Fri Jun 22 16:43:28 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 6334 CPU @ 3.60GHz
  2 "physical id"'s (chips)
  16 "processors"
core, 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 0 1 2 3 4 5 6 7
physical 1: cores 0 1 2 3 4 5 6 7

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Tested by: HPE

Platform Notes (Continued)

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): 16
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: 106
Model name: Intel(R) Xeon(R) Gold 6334 CPU @ 3.60GHz
Stepping: 6
CPU MHz: 1630.919
BogoMIPS: 7200.00
Virtualization: VT-x
L1d cache: 48K
L1i cache: 32K
L2 cache: 1280K
L3 cache: 18432K
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 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 cpuid
aperfmpref pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16
xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave
avx f16c rdrand lahf_lm abm 3nowprefetch cpuid_fault epb cat_l3 invpcid_single ssbd
mba ibrs ibpb ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad
fsal fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 ersed revpcid cmp tsc Calcium_avx512f
rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha ni avx512bw
avx512vl xsaveopt xsaves xgetbv1 xsavec xsaveopt xsetbx1 xsaves cmp_llc cmp_occupa
avx512_mbb total avx512_mbb local split_lock detect wbinvd dtherm ida arat pns avx512vbmi
umip pku ospe avx512_vmbmi gfnl vaes vpclmulqdq avx512_vnni avx512_ditalg tme
avx512_vpopcntdq ia57 rdpid md_clear pconf sh lld arch_capabilities

/proc/cpuinfo cache data
  cache size : 18432 KB

From numactl --hardware
WARNING: a numactl 'node' might or might not correspond to a physical chip.
available: 2 nodes (0-1)
  node 0 cpus: 0 1 2 3 4 5 6 7
  node 0 size: 1022323 MB
  node 0 free: 1031078 MB

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Platform Notes (Continued)

node 1 cpus: 8 9 10 11 12 13 14 15
node 1 size: 1022944 MB
node 1 free: 1031622 MB
node distances:
node 0 1
0: 10 20
1: 20 10

From /proc/meminfo
MemTotal: 2113498724 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

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: usercopy/swapsgs barriers and __user pointer sanitization
CVE-2017-5753 (Spectre variant 1): Mitigation: Enhanced IBRS, IBPB:
CVE-2017-5715 (Spectre variant 2):
spec

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Platform Notes (Continued)

conditional, RSB filling
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

run-level 3 Jun 22 16:41

SPEC is set to: /home/cpu2017_1.1.8
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs 670G 238G 433G 36% /home

From /sys/devices/virtual/dmi/id
Vendor: HPE
Product: ProLiant DL380 Gen10 Plus
Product Family: ProLiant
Serial: CN70490X8B

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:
32x Micron 36ASF8G72PZ-3G2B2 64 GB 2 rank 3200

BIOS:
BIOS Vendor: HPE
BIOS Version: U46
BIOS Date: 05/16/2021
BIOS Revision: 1.42
Firmware Revision: 2.50

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
C | 600.perlbench_s(peak)
==============================================================================
Intel(R) C 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.

==============================================================================
C | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak)
   625.x264_s(base, peak) 657.xz_s(base, peak)
==============================================================================

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**Compiler Version Notes (Continued)**

Intel (R) oneAPI DPC++/C++ Compiler for applications running on Intel (R) 64,  
Version 2021.1 Build 2020113  
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Intel (R) C Compiler Classic for applications running on Intel (R) 64,  
Version 2021.1 Build 2020112_000000  
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<th>C++</th>
<th>620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak) 641.leela_s(base, peak)</th>
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<tr>
<th>Fortran</th>
<th>648.exchange2_s(base, peak)</th>
</tr>
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Intel (R) Fortran Compiler Classic for applications running on Intel (R) 64,  
Version 2021.1 Build 2020112_000000  
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---

**Base Compiler Invocation**

C benchmarks:  
icx

C++ benchmarks:  
icpx

(Continued on next page)
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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

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:
-DSPEC_OPENMP -std=c11 -m64 -fopenmp -Wl,-z,muldefs -xCORE-AVX512
-03 -ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -mbranches-within-32B-boundsaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

C++ benchmarks:
-DSPEC_OPENMP -m64 -Wl,-z,muldefs -xCORE-AVX512 -03 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundsaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin/
-lqkmalloc

Fortran benchmarks:
-m64 -xCORE-AVX512 -03 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-mbranches-within-32B-boundsaries
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### Peak Compiler Invocation

C benchmarks (except as noted below):

- icx
- 600.perlbench_s: icc

C++ benchmarks:

- icpx

Fortran benchmarks:

- ifort

---

### Peak Portability Flags

Same as Base Portability Flags

---

### Peak Optimization Flags

C benchmarks:

- 600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)  
  -xCORE-AVX512 -ipo -O3 -no-prec-div  
  -qopt-mem-layout-trans=4 -fno-strict-overflow  
  -mbranches-within-32B-boundaries  
  -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

- 602.gcc_s: -m64 -std=c11 -Wl,-z,muldefs -fprofile-generate(pass 1)  
  -fprofile-use=default.profd data(pass 2) -xCORE-AVX512 -flto  
  -Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4  
  -mbranches-within-32B-boundaries  
  -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

- 605.mcf_s: basepeak = yes

- 625.x264_s: -DSPEC_OPENMP -fiopenmp -std=c11 -m64 -Wl,-z,muldefs  
  -xCORE-AVX512 -flto -O3 -ffast-math  
  -qopt-mem-layout-trans=4 -fno-alias  
  -mbranches-within-32B-boundaries  
  -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

- 657.xz_s: basepeak = yes

(Continued on next page)
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Peak Optimization Flags (Continued)

C++ benchmarks:
620.omnetpp_s: basepeak = yes
623.xalancbmk_s: basepeak = yes
631.deepsjeng_s: basepeak = yes
641.leela_s: basepeak = yes

Fortran benchmarks:
648.exchange2_s: basepeak = yes

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

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