### SPEC CPU®2017 Integer Speed Result

**Nettrix**

R620 G40 (Intel Xeon Platinum 8380 CPU @ 2.30GHz)

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_int_base</td>
<td>12.7</td>
</tr>
<tr>
<td>SPECspeed®2017_int_peak</td>
<td>13.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>80</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>80</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>80</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>80</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>80</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>80</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>80</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>80</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>80</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>80</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>7.53</td>
<td>14.0</td>
</tr>
<tr>
<td>2</td>
<td>11.5</td>
<td>21.2</td>
</tr>
<tr>
<td>4</td>
<td>12.0</td>
<td>22.0</td>
</tr>
<tr>
<td>8</td>
<td>12.4</td>
<td>24.0</td>
</tr>
<tr>
<td>16</td>
<td>15.1</td>
<td>26.3</td>
</tr>
<tr>
<td>32</td>
<td>19.2</td>
<td></td>
</tr>
<tr>
<td>64</td>
<td>20.1</td>
<td></td>
</tr>
<tr>
<td>128</td>
<td>20.6</td>
<td></td>
</tr>
<tr>
<td>256</td>
<td>26.3</td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**

- **CPU Name:** Intel Xeon Platinum 8380
- **Max MHz:** 3400
- **Nominal:** 2300
- **Enabled:** 80 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:** 60 MB I+D on chip per chip
- **Other:** None
- **Memory:** 4 TB (32 x 128 GB 4Rx4 PC4-3200AA-L)
- **Storage:** 1x 2 TB SATA HDD, 7200RPM
- **Other:** None

**Software**

- **OS:** SUSE Linux Enterprise Server 15 SP2 Kernel 5.3.18-24.61-default
- **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:** Nettrix BIOS Version 0PYH001029 released Apr-2021
- **File System:** ext4
- **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
## Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>80</td>
<td>236</td>
<td><strong>7.53</strong></td>
<td>236</td>
<td>7.52</td>
<td>234</td>
<td>7.60</td>
<td>202</td>
<td>8.79</td>
<td>201</td>
<td>8.83</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>80</td>
<td>350</td>
<td>11.1</td>
<td>347</td>
<td><strong>11.5</strong></td>
<td>333</td>
<td>12.0</td>
<td><strong>332</strong></td>
<td><strong>12.0</strong></td>
<td>329</td>
<td>12.1</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>80</td>
<td><strong>223</strong></td>
<td>21.2</td>
<td>223</td>
<td>21.2</td>
<td>223</td>
<td>21.2</td>
<td><strong>223</strong></td>
<td>21.2</td>
<td>223</td>
<td>21.2</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>80</td>
<td>128</td>
<td>12.8</td>
<td>133</td>
<td><strong>13.2</strong></td>
<td>128</td>
<td>12.8</td>
<td><strong>132</strong></td>
<td><strong>12.4</strong></td>
<td>133</td>
<td>12.3</td>
</tr>
<tr>
<td>623.xalanchmk_s</td>
<td>80</td>
<td>93.7</td>
<td>15.1</td>
<td>93.7</td>
<td>15.1</td>
<td><strong>93.7</strong></td>
<td><strong>15.1</strong></td>
<td>80</td>
<td>93.7</td>
<td>15.1</td>
<td><strong>93.7</strong></td>
</tr>
<tr>
<td>625.x264_s</td>
<td>80</td>
<td><strong>92.2</strong></td>
<td>19.1</td>
<td>91.9</td>
<td>19.2</td>
<td><strong>91.9</strong></td>
<td><strong>19.2</strong></td>
<td>80</td>
<td>87.8</td>
<td>20.1</td>
<td><strong>87.6</strong></td>
</tr>
<tr>
<td>641.leela_s</td>
<td>80</td>
<td>339</td>
<td>5.04</td>
<td>342</td>
<td>4.99</td>
<td><strong>339</strong></td>
<td><strong>5.03</strong></td>
<td>80</td>
<td>339</td>
<td>5.04</td>
<td><strong>339</strong></td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>80</td>
<td>143</td>
<td>20.6</td>
<td>143</td>
<td>20.6</td>
<td>143</td>
<td>20.6</td>
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<td><strong>26.3</strong></td>
<td>80</td>
<td>236</td>
<td>26.2</td>
<td><strong>235</strong></td>
</tr>
</tbody>
</table>

**SPECspeed®2017_int_base = 12.7**

**SPECspeed®2017_int_peak = 13.0**

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"

Tuning Kernel Parameters:
- `sched_migration_cost_ns=600000`
- `sched_rt_runtime_us=950000`
- `sched_latency_ns=2400000`
- `sched_min_granularity_ns=800000`
- `dirty_background_ratio=10`
- `dirty_ratio=20`
- `dirty_writeback_centisecs=400`
- `dirty_expire_centisecs=5000`
- `swappiness=10`
- `numa_balancing=0`

### Environment Variables Notes

Environment variables set by runcpu before the start of the run:
- `KMP_AFFINITY = "granularity=fine,scatter"`
- `LD_LIBRARY_PATH = "/home/admin/benchmarks/SPECcpu2017/lib/intel64:/home/admin/benchmarks/SPECcpu2017/je5.0.1-64"`
- `MALLOCONF = "retain:true"
- `OMP_STACKSIZE = "192M"`
## SPEC CPU®2017 Integer Speed Result

**Nettrix**

R620 G40(Intel Xeon Platinum 8380 CPU @ 2.30GHz)

| SPECspeed®2017_int_base = 12.7 |
| SPECspeed®2017_int_peak = 13.0 |

| CPU2017 License: 6138 | Test Date: May-2021 |
| Test Sponsor: Nettrix | Hardware Availability: Apr-2021 |
| Tested by: Nettrix | Software Availability: Apr-2021 |

### 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.
- 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, a general purpose malloc implementation
  built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

### Platform Notes

The system ROM used for this result contains Intel microcode version 0D000280 for the Intel Xeon Platinum 8380 processor.

**BIOS Configuration:**
- Application Performance Profile Set to Computing Latency Mode
- Hyper-Threading set to Disabled
- SNC set to Disabled
- DCU Streamer Prefetcher set to Disabled
- XPT Prefetch set to Enabled
- KTI Prefetch set to Disabled
- Stale AtoS set to Enabled
- Patrol Scrub set to Disabled
- LLC Dead Line Allocation set to Disabled

**BMC Settings:**
- Cooling Policy set to Manual Mode
- Fan Duty set to 95

Sysinfo program /home/admin/benchmarks/SPECcpu2017/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acaf64d
running on localhost Wed May 19 22:08:53 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](https://www.spec.org/cpu2017/Docs/config.html#sysinfo)

From /proc/cpuinfo
- model name : Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz
- 2 "physical id"s (chips)
- 80 "processors"

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

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

```plaintext
cpu cores : 40  
siblings : 40
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 28 29 30 31 32 33 34 35 36 37 38 39
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 28 29 30 31 32 33 34 35 36 37 38 39
```

From lscpu from util-linux 2.33.1:

```plaintext
Architecture:        x86_64  
CPU op-mode(s):      32-bit, 64-bit  
Byte Order:          Little Endian  
Address sizes:       46 bits physical, 57 bits virtual  
CPU(s):              80  
On-line CPU(s) list: 0-79  
Thread(s) per core:  1  
Core(s) per socket:  40  
Socket(s):           2  
NUMA node(s):        2  
Vendor ID:           GenuineIntel  
CPU family:          6  
Model:               106  
Model name:          Intel(R) Xeon(R) Platinum 8380 CPU @ 2.30GHz  
Stepping:            6  
CPU MHz:             800.000  
CPU max MHz:         3400.0000  
CPU min MHz:         800.0000  
BogoMIPS:            4600.00  
Virtualization:      VT-x  
L1d cache:           48K  
L1i cache:           32K  
L2 cache:            1280K  
L3 cache:            61440K  
NUMA node0 CPU(s):   0-39  
NUMA node1 CPU(s):   40-79  
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 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 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 stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cmq rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaves xsaveopt xsavec xgetbv1 xsaves cmq_llc cmq_cmov llc cmq_mbb_total cmq_mbb_local wbnoinvd dtherm ida arat pln pts avx512vbmi umip pku ospke
```
SPEC CPU®2017 Integer Speed Result

Nettrix

R620 G40(Intel Xeon Platinum 8380 CPU @ 2.30GHz)

SPECspeed®2017_int_base = 12.7
SPECspeed®2017_int_peak = 13.0

Platform Notes (Continued)

avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq
la57 rdplid md_clear pconfig flush_l1d arch_capabilities

/cpuinfo cache data
  cache size : 61440 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 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
          28 29 30 31 32 33 34 35 36 37 38 39
  node 0 size: 2063962 MB
  node 0 free: 2059056 MB
  node 1 cpus: 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64
          65 66 67 68 69 70 71 72 73 74 75 76 77 78 79
  node 1 size: 2064335 MB
  node 1 free: 2057970 MB
  node distances:
    node 0  1
    0:  10  20
    1:  20  10

From /proc/meminfo
  MemTotal:       4227376976 kB
  HugePages_Total:       0
  Hugepagesize:       2048 kB

/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has
  ondemand

From /etc/*release* /etc/*version*
  os-release:
    NAME="SLES"
    VERSION="15-SP2"
    VERSION_ID="15.2"
    PRETTY_NAME="SUSE Linux Enterprise Server 15 SP2"
    ID="sles"
    ID_LIKE="suse"
    ANSI_COLOR="0;32"
    CPE_NAME="cpe:/o:suse:sles:15:sp2"

uname -a:
  Linux localhost 5.3.18-24.61-default #1 SMP Wed Apr 14 10:10:07 UTC 2021 (c41a65c)
  x86_64 x86_64 x86_64 GNU/Linux

  Kernel self-reported vulnerability status:

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

<table>
<thead>
<tr>
<th>CVE-2018-12207 (iTLB Multihit):</th>
<th>Not affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>CVE-2018-3620 (L1 Terminal Fault):</td>
<td>Not affected</td>
</tr>
<tr>
<td>Microarchitectural Data Sampling:</td>
<td>Not affected</td>
</tr>
<tr>
<td>CVE-2017-5754 (Meltdown):</td>
<td>Not affected</td>
</tr>
<tr>
<td>CVE-2018-3639 (Speculative Store Bypass):</td>
<td>Mitigation: Speculative Store Bypass disabled via prctl and seccomp</td>
</tr>
<tr>
<td>CVE-2017-5753 (Spectre variant 1):</td>
<td>Not affected</td>
</tr>
<tr>
<td>CVE-2017-5715 (Spectre variant 2):</td>
<td>Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling</td>
</tr>
<tr>
<td>CVE-2020-0543 (Special Register Buffer Data Sampling):</td>
<td>Not affected</td>
</tr>
<tr>
<td>CVE-2019-11135 (TSX Asynchronous Abort):</td>
<td>Not affected</td>
</tr>
</tbody>
</table>

- **run-level 3 May 19 16:15 last=5**

- **SPEC is set to:** /home/admin/benchmarks/SPECcpu2017
  
<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/sdc1</td>
<td>ext4</td>
<td>1.4T</td>
<td>71G</td>
<td>1.3T</td>
<td>6%</td>
<td>/home/admin/benchmarks/SPECcpu2017</td>
</tr>
</tbody>
</table>

- From /sys/devices/virtual/dmi/id
  
<table>
<thead>
<tr>
<th>Vendor:</th>
<th>Nettrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product:</td>
<td>N/A</td>
</tr>
<tr>
<td>Product Family:</td>
<td>Family</td>
</tr>
<tr>
<td>Serial:</td>
<td>N/A</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 SMI BIOS" standard. Memory:

- 32x Hynix HMABAGL7ABR4N-XN 128 GB 4 rank 3200

- BIOS:
  
<table>
<thead>
<tr>
<th>BIOS Vendor:</th>
<th>American Megatrends International, LLC.</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOS Version:</td>
<td>0PYH001029</td>
</tr>
<tr>
<td>BIOS Date:</td>
<td>04/14/2021</td>
</tr>
<tr>
<td>BIOS Revision:</td>
<td>0.29</td>
</tr>
</tbody>
</table>

(End of data from sysinfo program)

---

### Compiler Version Notes

<table>
<thead>
<tr>
<th>C</th>
<th>600.perlbench_s(peak)</th>
</tr>
</thead>
</table>

(Continued on next page)
## Compiler Version Notes (Continued)

---

**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.

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<table>
<thead>
<tr>
<th>C</th>
<th>600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak)</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>C</th>
<th>600.perlbench_s(peak)</th>
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**Intel(R) C** Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000  
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<thead>
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<th>C</th>
<th>600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak)</th>
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<table>
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<th>C++</th>
<th>620.omnetpp_s(base, peak) 631.deepsjeng_s(base, peak) 641.leela_s(base, peak)</th>
</tr>
</thead>
</table>

**Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113**  
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<table>
<thead>
<tr>
<th>Fortran</th>
<th>648.exchange2_s(base, peak)</th>
</tr>
</thead>
</table>

**Intel(R) Fortran** Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000  
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(Continued on next page)
Nettrix

R620 G40(Intel Xeon Platinum 8380 CPU @ 2.30GHz)

SPECspeed®2017_int_base = 12.7
SPECspeed®2017_int_peak = 13.0

CPU2017 License: 6138
Test Sponsor: Nettrix
Test Date: May-2021
Tested by: Nettrix
Hardware Availability: Apr-2021
Software Availability: Apr-2021

Compiler Version Notes (Continued)

Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

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

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

Fortran benchmarks:
-m64 -xCORE-AVX512 -O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-mbranches-within-32B-boundaries

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.profdatal-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 (Continued on next page)
SPEC CPU®2017 Integer Speed Result

Nettrix

R620 G40(Intel Xeon Platinum 8380 CPU @ 2.30GHz)

| SPECspeed®2017_int_base = 12.7 |
| SPECspeed®2017_int_peak = 13.0 |

CPU2017 License: 6138
Test Sponsor: Nettrix
Tested by: Nettrix

Test Date: May-2021
Hardware Availability: Apr-2021
Software Availability: Apr-2021

Peak Optimization Flags (Continued)

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

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

You can also download the XML flags sources by saving the following links:
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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