



SPEC CPU®2017 Integer Speed Result

Copyright 2017-2024 Standard Performance Evaluation Corporation

Esconet Technologies Ltd.

Hexadata HDR-RM2386212I
(Intel Xeon Gold 5317,3.00 GHz)

SPECSpeed®2017_int_base = 11.3

SPECSpeed®2017_int_peak = 11.5

CPU2017 License: 6523

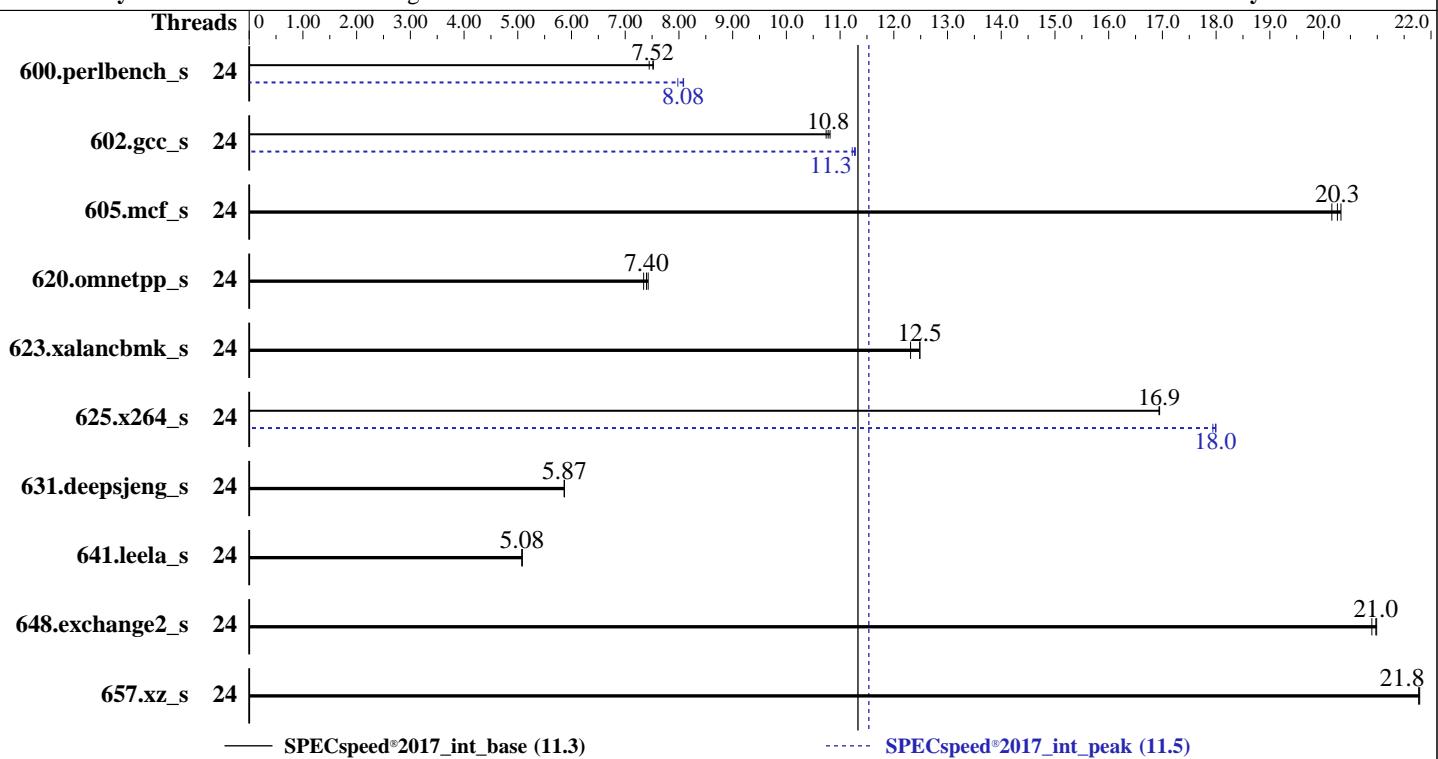
Test Sponsor: Esconet Technologies Ltd.

Tested by: Esconet Technologies Ltd.

Test Date: Dec-2023

Hardware Availability: May-2021

Software Availability: Dec-2023



Hardware

CPU Name: Intel Xeon Gold 5317
Max MHz: 3600
Nominal: 3000
Enabled: 24 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: 1 TB (16 x 64 GB 2Rx4 PC4-3200AA-R, running at 2933)
Storage: 960 GB SSD
Other: None

Software

OS: CentOS Linux 8
Compiler: 4.18.0-348.7.1.el8_5.x86_64
C/C++: Version 2023.2.3 of Intel oneAPI DPC++/C++ Compiler for Linux;
Fortran: Version 2023.2.3 of Intel Fortran Compiler for Linux;
Parallel: Yes
Firmware: Version F26 released May-2023
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 and OS set to prefer performance at the cost of additional power usage.



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Results Table

Benchmark	Base								Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	24	236	7.52	236	7.52	238	7.45	24	220	8.09	222	7.98	220	8.08		
602.gcc_s	24	371	10.7	369	10.8	368	10.8	24	355	11.2	353	11.3	353	11.3		
605.mcf_s	24	234	20.2	233	20.3	232	20.3	24	234	20.2	233	20.3	232	20.3		
620.omnetpp_s	24	221	7.40	222	7.34	220	7.43	24	221	7.40	222	7.34	220	7.43		
623.xalancbmk_s	24	114	12.5	115	12.3	113	12.5	24	114	12.5	115	12.3	113	12.5		
625.x264_s	24	104	16.9	104	16.9	104	16.9	24	98.3	17.9	98.1	18.0	98.0	18.0		
631.deepsjeng_s	24	244	5.86	244	5.87	244	5.87	24	244	5.86	244	5.87	244	5.87		
641.leela_s	24	336	5.08	336	5.08	336	5.08	24	336	5.08	336	5.08	336	5.08		
648.exchange2_s	24	141	20.9	140	21.0	140	21.0	24	141	20.9	140	21.0	140	21.0		
657.xz_s	24	284	21.8	284	21.8	284	21.8	24	284	21.8	284	21.8	284	21.8		
SPECspeed®2017_int_base = 11.3								SPECspeed®2017_int_peak = 11.5								

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"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:

```
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/ub/cpu17/lib/intel64:/home/ub/cpu17/lib/ia32:/home/ub/cpu17/je5.0.1-64"
Malloc_CONF = "retain:true"
OMP_STACKSIZE = "192M"
```

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using Redhat Enterprise Linux 8.0

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
sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases
```

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.



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Platform Notes

BIOS settings:
Logical Processor : Disabled
Virtualization Technology : Disabled

System Profile : Custom
CPU Power Management : Maximum Performance
C1E : Disabled
C States : Autonomous
Memory Patrol Scrub : Disabled
Energy Efficiency Policy : Performance
CPU Interconnect Bus Link
Power Management : Disabled
PCI ASPM L1 Link
Power Management : Disabled

Sysinfo program /home/ub/cpu17/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Dec 18 18:33:17 2023

SUT (System Under Test) info as seen by some common utilities.

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13. Services, from systemctl list-unit-files
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1. uname -a
Linux localhost.localdomain 4.18.0-348.7.1.el8_5.x86_64 #1 SMP Wed Dec 22 13:25:12 UTC 2021 x86_64 x86_64
x86_64 GNU/Linux

2. w
18:33:17 up 16 min, 1 user, load average: 1.03, 0.62, 0.26

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Platform Notes (Continued)

```
USER      TTY      FROM           LOGIN@     IDLE    JCPU    PCPU WHAT
ub        tty1     -              18:18      4.00s   1.02s   0.00s sh
reportable-ic2023.2.3-lin-core-avx512-speed-smt-on-20231121.sh
```

3. Username

From environment variable \$USER: ub

4. ulimit -a

```
core file size          (blocks, -c) 0
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size               (blocks, -f) unlimited
pending signals          (-i) 4125629
max locked memory       (kbytes, -l) 64
max memory size         (kbytes, -m) unlimited
open files              (-n) 1024
pipe size               (512 bytes, -p) 8
POSIX message queues    (bytes, -q) 819200
real-time priority      (-r) 0
stack size              (kbytes, -s) unlimited
cpu time                (seconds, -t) unlimited
max user processes       (-u) 4125629
virtual memory           (kbytes, -v) unlimited
file locks              (-x) unlimited
```

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize 18
login -- ub
-bash
sh reportable-ic2023.2.3-lin-core-avx512-speed-smt-on-20231121.sh
runcpu --nobuild --action validate --define default-platform-flags -c
  ic2023.2.3-lin-core-avx512-speed-20231121.cfg --define cores=12 --tune base,peak -o all --define
  intspeedaffinity --define smt-on --define drop_caches intspeed
runcpu --nobuild --action validate --define default-platform-flags --configfile
  ic2023.2.3-lin-core-avx512-speed-20231121.cfg --define cores=12 --tune base,peak --output_format all
  --define intspeedaffinity --define smt-on --define drop_caches --nopower --runmode speed --tune base:peak
  --size refspeed intspeed --nopreenv --note-preenv --logfile
  $SPEC/tmp/CPU2017.002/templogs/preenv.intspeed.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/ub/cpu17
```

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) Gold 5317 CPU @ 3.00GHz
vendor_id       : GenuineIntel
cpu family     : 6
model          : 106
stepping        : 6
microcode       : 0xd0003a5
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs
cpu cores      : 12
siblings        : 12
2 physical ids (chips)
24 processors (hardware threads)
physical id 0: core ids 0-11
physical id 1: core ids 0-11
physical id 0: apicids 0,2,4,6,8,10,12,14,16,18,20,22
```

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Platform Notes (Continued)

physical id 1: apicids 64,66,68,70,72,74,76,78,80,82,84,86

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

```
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):                24
On-line CPU(s) list:   0-23
Thread(s) per core:    1
Core(s) per socket:    12
Socket(s):              2
NUMA node(s):           2
Vendor ID:              GenuineIntel
CPU family:             6
Model:                 106
Model name:             Intel(R) Xeon(R) Gold 5317 CPU @ 3.00GHz
Stepping:               6
CPU MHz:                3000.000
CPU max MHz:            3600.0000
CPU min MHz:            800.0000
BogoMIPS:               6000.00
Virtualization:         VT-x
L1d cache:              48K
L1i cache:              32K
L2 cache:                1280K
L3 cache:                18432K
NUMA node0 CPU(s):      0-11
NUMA node1 CPU(s):      12-23
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 xtTopology nonstop_tsc cpuid aperfmpf perf_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 3dnowprefetch cpuid_fault epb cat_l3 invpcid_single intel_ppin ssbd mba ibrs ibpb
stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust
sgx bmi1 hle avx2 smep bmi2 erms invpcid cqmq rdt_a avx512f avx512dq rdseed adx smap
avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec
xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbm_total cqmq_mbm_local split_lock_detect
wbnoinvd dtherm ida arat pln pts hwp hwp_act_window hwp_epp hwp_pkg_req avx512vbmi
umip pkru ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme
avx512_vpocntdq la57 rdpid sgx_lc fsrm md_clear pconfig flush_llid arch_capabilities
```

8. numactl --hardware

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

available: 2 nodes (0-1)
node 0 cpus: 0-11
node 0 size: 515390 MB
node 0 free: 511200 MB
node 1 cpus: 12-23
node 1 size: 516053 MB
node 1 free: 512631 MB
node distances:
node 0 1
 0: 10 20

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Platform Notes (Continued)

1: 20 10

9. /proc/meminfo
MemTotal: 1056198260 kB

10. who -r
run-level 3 Dec 18 18:17

11. Systemd service manager version: systemd 239 (239-51.el8_5.2)
Default Target Status
multi-user degraded

12. Failed units, from systemctl list-units --state=failed
UNIT LOAD ACTIVE SUB DESCRIPTION
* sep5.service loaded failed failed systemd script to load sep5 driver at boot time

13. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled NetworkManager NetworkManager-dispatcher NetworkManager-wait-online auditd autovt@ crond
firewalld getty@ import-state irqbalance kdump loadmodules lvm2-monitor mdmonitor microcode
nis-domainname rsyslog selinux-autorelabel-mark sep5 sshd sssd syslog tuned udisks2
disabled blk-availability console-getty cpupower debug-shell ebttables iprdump iprinit iprupdate kvm_stat
man-db-restart-cache-update nftables rdisc serial-getty@ sshd-keygen@ systemd-resolved tcasd
indirect sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo

14. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=(hd1,gpt2)/vmlinuz-4.18.0-348.7.1.el8_5.x86_64
root=/dev/mapper/cl-root
ro
crashkernel=auto
resume=/dev/mapper/cl-swap
rd.lvm.lv=cl/root
rd.lvm.lv=cl/swap
rhgb
quiet

15. cpupower frequency-info
analyzing CPU 0:
current policy: frequency should be within 800 MHz and 3.60 GHz.
The governor "performance" may decide which speed to use
within this range.
boost state support:
Supported: yes
Active: yes

16. tuned-adm active
Current active profile: throughput-performance

17. sysctl
kernel.numa_balancing 1
kernel.randomize_va_space 2

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Platform Notes (Continued)

```
vm.compaction_proactiveness          0
vm.dirty_background_bytes           0
vm.dirty_background_ratio          10
vm.dirty_bytes                     0
vm.dirty_expire_centisecs         3000
vm.dirty_ratio                     40
vm.dirty_writeback_centisecs      500
vm.dirtytime_expire_seconds       43200
vm.extfrag_threshold              500
vm.min_unmapped_ratio             1
vm.nr_hugepages                   2048
vm.nr_hugepages_mempolicy         2048
vm.nr_overcommit_hugepages        0
vm.swappiness                      10
vm.watermark_boost_factor         15000
vm.watermark_scale_factor         10
vm.zone_reclaim_mode              0

-----
18. /sys/kernel/mm/transparent_hugepage
    defrag           always defer defer+madvise [madvise] never
    enabled          [always] madvise never
    hpage_pmd_size  2097152
    shmem_enabled   always within_size advise [never] deny force

-----
19. /sys/kernel/mm/transparent_hugepage/khugepaged
    alloc_sleep_millisecs  60000
    defrag               1
    max_ptes_none       511
    max_ptes_swap       64
    pages_to_scan       4096
    scan_sleep_millisecs 10000

-----
20. OS release
    From /etc/*-release /etc/*-version
    os-release        CentOS Linux 8
    redhat-release    CentOS Linux release 8.5.2111
    system-release    CentOS Linux release 8.5.2111

-----
21. Kernel self-reported vulnerability status, from /sys/devices/system/cpu/vulnerabilities
    itlb_multihit     Not affected
    l1tf              Not affected
    mds               Not affected
    meltdown          Not affected
    spec_store_bypass Mitigation: Speculative Store Bypass disabled via prctl and seccomp
    spectre_v1        Mitigation: usercopy/swapgs barriers and __user pointer sanitization
    spectre_v2        Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
    srbds              Not affected
    tsx_async_abort   Not affected

For more information, see the Linux documentation on hardware vulnerabilities, for example
    https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/index.html

-----
22. Disk information
SPEC is set to: /home/ub/cpu17
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/cl-home xfs   819G  79G  741G  10% /home
```

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Platform Notes (Continued)

23. /sys/devices/virtual/dmi/id
Vendor: ESONET TECHNOLOGIES LTD.
Product: HEXADATA
Product Family: Server

24. dmidecode
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 Samsung M393A8G40AB2-CWE 64 GB 2 rank 3200, configured at 2933

25. BIOS
(This section combines info from /sys/devices and dmidecode.)
BIOS Vendor: GIGABYTE
BIOS Version: F26
BIOS Date: 05/29/2023
BIOS Revision: 5.22

Compiler Version Notes

=====

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

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

=====

=====

C++ | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak)
| 641.leela_s(base, peak)

=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

=====

=====

Fortran | 648.exchange2_s(base, peak)

=====

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.2.3 Build x
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=====

Base Compiler Invocation

C benchmarks:

icx

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Base Compiler Invocation (Continued)

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

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:

```
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fopenmp
-DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```



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Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
600.perlbench_s: -w -m64 -std=c11 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fiopenmp -DSPEC_OPENMP -fno-strict-overflow
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

```
602.gcc_s: -w -m64 -std=c11 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib
-ljemalloc
```

605.mcf_s: basepeak = yes

```
625.x264_s: -w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-fno-alias -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

657.xz_s: basepeak = yes

(Continued on next page)



SPEC CPU®2017 Integer Speed Result

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Esconet Technologies Ltd.

Hexadata HDR-RM2386212I
(Intel Xeon Gold 5317,3.00 GHz)

SPECspeed®2017_int_base = 11.3

SPECspeed®2017_int_peak = 11.5

CPU2017 License: 6523

Test Date: Dec-2023

Test Sponsor: Esconet Technologies Ltd.

Hardware Availability: May-2021

Tested by: Esconet Technologies Ltd.

Software Availability: Dec-2023

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/Hexadata-ic2023p2-official-linux64.html>
<http://www.spec.org/cpu2017/flags/Hexadata-Platform-Flags-Intel-ICX-rev1.5.html>

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

<http://www.spec.org/cpu2017/flags/Hexadata-ic2023p2-official-linux64.xml>
<http://www.spec.org/cpu2017/flags/Hexadata-Platform-Flags-Intel-ICX-rev1.5.xml>

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