SPEC CPU®2017 Integer Rate Result

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xFusion

FusionServer 2288H V6 (Intel Xeon Gold 6348)

$SPECrate®2017_int_base = $ 462

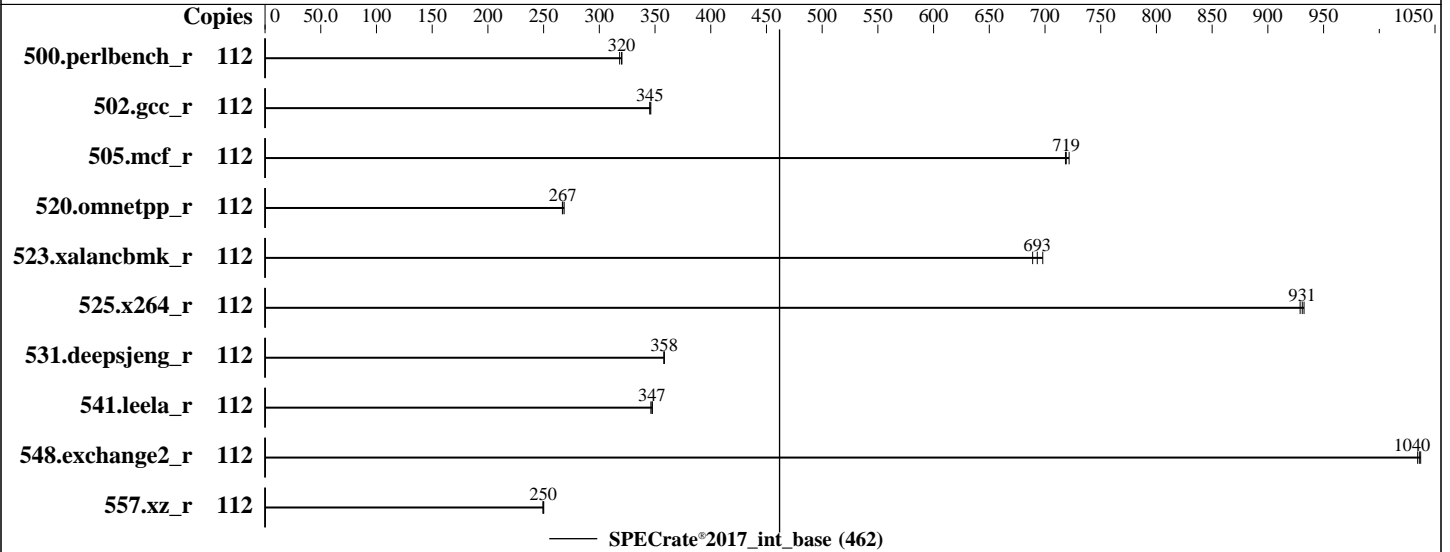$SPECrate®2017_int_peak = $ Not Run

CPU2017 License: 6488
Test Sponsor: xFusion
Tested by: xFusion

Test Date: Jun-2023
Hardware Availability: Apr-2021
Software Availability: Dec-2022

Benchmark	Copies	Result
500.perlbench_r	112	320
502.gcc_r	112	345
505.mcf_r	112	719
520.omnetpp_r	112	267
523.xalancbmk_r	112	693
525.x264_r	112	931
531.deepsjeng_r	112	358
541.leela_r	112	347
548.exchange2_r	112	1040
557.xz_r	112	250

SPECrate®2017_int_base (462)

Hardware

CPU Name: Intel Xeon Gold 6348
 Max MHz: 3500
 Nominal: 2600
Enabled: 56 cores, 2 chips, 2 threads/core
Orderable: 1,2 chips
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: 512 GB (16 x 32 GB 2Rx4 PC4-3200AA-R)
Storage: 1 x 1920 GB SATA SSD
Other: None

Software

OS: Red Hat Enterprise Linux release 8.4 (Ootpa)
 4.18.0-305.el8.x86_64
Compiler: C/C++: Version 2023.0 of Intel oneAPI DPC++/C++
 Compiler for Linux;
 Fortran: Version 2023.0 of Intel Fortran Compiler
 for Linux;
Parallel: No
Firmware: Version 1.55 Released May-2023
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other: None
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	112	**557**	**320**	557	320	560	318							
502.gcc_r	112	**459**	**345**	458	346	459	345							
505.mcf_r	112	251	722	252	718	**252**	**719**							
520.omnetpp_r	112	551	267	**550**	**267**	547	268							
523.xalancbmk_r	112	172	689	169	698	**171**	**693**							
525.x264_r	112	210	932	211	929	**211**	**931**							
531.deepsjeng_r	112	**358**	**358**	358	358	358	358							
541.leela_r	112	534	348	**534**	**347**	536	346							
548.exchange2_r	112	**283**	**1040**	283	1040	284	1030							
557.xz_r	112	484	250	485	249	**484**	**250**							
SPECrate®2017_int_base =		**462**												
SPECrate®2017_int_peak =		**Not Run**												

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

Compiler Notes

```
SPEC has ruled that the compiler used for this result was performing a compilation
that specifically improves the performance of the 523.xalancbmk_r / 623.xalancbmk_s
benchmarks using a priori knowledge of the SPEC code and dataset to perform a
transformation that has narrow applicability.

In order to encourage optimizations that have wide applicability (see rule 1.4
https://www.spec.org/cpu2017/Docs/runrules.html#rule_1.4), SPEC will no longer
publish results using this optimization.

This result is left in the SPEC results database for historical reference.
```

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"
```

Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH =
     "/spec2017-icc2023.0/lib/intel64:/spec2017-icc2023.0/lib/ia32:/spec2017-icc2023.0/je5.0.1-32"
MALLOC_CONF = "retain:true"
```

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General Notes

```
Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM
memory using Red Hat Enterprise Linux 8.4
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
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

```
BIOS configuration:
Performance Profile Set to Performance
SNC Set to Enabled SNC2 (2-clusters)

Sysinfo program /spec2017-icc2023.0/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Thu Jun 29 23:22:55 2023

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

------------------------------------------------------------
Table of contents
------------------------------------------------------------
 1. uname -a
 2. w
 3. Username
 4. ulimit -a
 5. sysinfo process ancestry
 6. /proc/cpuinfo
 7. lscpu
 8. numactl --hardware
 9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 239 (239-45.el8)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. tuned-adm active
16. sysctl
17. /sys/kernel/mm/transparent_hugepage
18. /sys/kernel/mm/transparent_hugepage/khugepaged
19. OS release
20. Kernel self-reported vulnerability status, from /sys/devices/system/cpu/vulnerabilities
21. Disk information
22. /sys/devices/virtual/dmi/id
23. dmidecode
24. BIOS
------------------------------------------------------------


------------------------------------------------------------
 1. uname -a
   Linux localhost.localdomain 4.18.0-305.el8.x86_64 #1 SMP Thu Apr 29 08:54:30 EDT 2021 x86_64 x86_64 x86_64
```

(Continued on next page)

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Platform Notes (Continued)

```
   GNU/Linux


  -----------------------------------------------------------
 2. w
   23:22:55 up  8:04,  1 user,  load average: 44.79, 93.17, 105.27
   USER     TTY        FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
   root     tty1       -                15:18    8:03m  1.18s  0.00s -bash


  -----------------------------------------------------------
 3. Username
   From environment variable $USER:  root


  -----------------------------------------------------------
 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) 2060529
   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) 2060529
   virtual memory          (kbytes, -v) unlimited
   file locks                     (-x) unlimited


  -----------------------------------------------------------
 5. sysinfo process ancestry
  /usr/lib/systemd/systemd --switched-root --system --deserialize 17
  login -- root
  -bash
  -bash
  runcpu --define default-platform-flags --copies 112 -c ic2023.0-lin-core-avx512-rate-20221201.cfg --define
    smt-on --define cores=56 --define physicalfirst --define invoke_with_interleave --define drop_caches
    --tune base --iterations 3 -o all intrate
  runcpu --define default-platform-flags --copies 112 --configfile ic2023.0-lin-core-avx512-rate-20221201.cfg
    --define smt-on --define cores=56 --define physicalfirst --define invoke_with_interleave --define
    drop_caches --tune base --iterations 3 --output_format all --nopower --runmode rate --tune base --size
    refrate intrate --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.056/templogs/preenv.intrate.056.0.log
    --lognum 056.0 --from_runcpu 2
  specperl $SPEC/bin/sysinfo
  $SPEC = /spec2017-icc2023.0


  -----------------------------------------------------------
 6. /proc/cpuinfo
     model name      : Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz
     vendor_id       : GenuineIntel
     cpu family      : 6
     model           : 106
     stepping        : 6
     microcode       : 0xd000363
     bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs
     cpu cores       : 28
     siblings        : 56
     2 physical ids (chips)
```

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CPU2017 License: 6488		**Test Date:**	Jun-2023
Test Sponsor: xFusion		**Hardware Availability:** Apr-2021
Tested by: xFusion		**Software Availability:** Dec-2022

Platform Notes (Continued)

```
      112 processors (hardware threads)
    physical id 0: core ids 0-27
    physical id 1: core ids 0-27
    physical id 0: apicids 0-55
    physical id 1: apicids 128-183
  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):              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
    BIOS Vendor ID:      Intel(R) Corporation
    CPU family:          6
    Model:               106
    Model name:          Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz
    BIOS Model name:     Intel(R) Xeon(R) Gold 6348 CPU @ 2.60GHz
    Stepping:            6
    CPU MHz:             3400.000
    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 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 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 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 cqm rdt_a avx512f avx512dq rdseed adx smap avx512ifma
                         clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1
                         xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local split_lock_detect wbnoinvd
                         dtherm ida arat pln pts hwp_epp avx512vbmi umip pku ospke avx512_vbmi2 gfni vaes
                         vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq la57 rdpid fsrm md_clear
                         pconfig flush_l1d arch_capabilities

  ------------------------------------------------------------
  8. numactl --hardware
  NOTE: a numactl 'node' might or might not correspond to a physical chip.
    available: 4 nodes (0-3)
    node 0 cpus: 0-13,56-69
    node 0 size: 128154 MB
    node 0 free: 122338 MB
```

(Continued on next page)

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Platform Notes (Continued)

```
  node 1 cpus: 14-27,70-83
  node 1 size: 128980 MB
  node 1 free: 123513 MB
  node 2 cpus: 28-41,84-97
  node 2 size: 129017 MB
  node 2 free: 123314 MB
  node 3 cpus: 42-55,98-111
  node 3 size: 129015 MB
  node 3 free: 123514 MB
  node distances:
  node   0   1   2   3
    0:  10  11  20  20
    1:  11  10  20  20
    2:  20  20  10  11
    3:  20  20  11  10


  ----------------------------------------------------------
  9. /proc/meminfo
    MemTotal:       527532920 kB


  ----------------------------------------------------------
  10. who -r
   run-level 3 Jun 29 15:18


  ----------------------------------------------------------
  11. Systemd service manager version: systemd 239 (239-45.el8)
   Default Target  Status
   multi-user      running


  ----------------------------------------------------------
  12. Services, from systemctl list-unit-files
   STATE      UNIT FILES
   enabled    NetworkManager NetworkManager-dispatcher NetworkManager-wait-online atd auditd autovt@ chronyd
              crond firewalld getty@ import-state irqbalance iscsi iscsi-onboot kdump libstoragemgmt
              loadmodules lvm2-monitor mcelog mdmonitor microcode multipathd nis-domainname
              nvmefc-boot-connections rhsmcertd rsyslog selinux-autorelabel-mark smartd sshd sssd syslog
              sysstat timedatex tuned udisks2 vdo
   disabled   arp-ethers blk-availability chrony-wait console-getty cpupower debug-shell ebtables iprdump
              iprinit iprupdate ipsec iscsid iscsiuio kpatch kvm_stat ledmon nftables nvmf-autoconnect oddjobd
              psacct rdisc rhcd rhsm rhsm-facts serial-getty@ sshd-keygen@ systemd-resolved tcsd
   generated  SystemTap compile-server gcc-toolset-10-stap-server gcc-toolset-10-systemtap
              gcc-toolset-9-stap-server gcc-toolset-9-systemtap scripts startup
   indirect   sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo
   masked     systemd-timedated

  ----------------------------------------------------------
  13. Linux kernel boot-time arguments, from /proc/cmdline
   BOOT_IMAGE=(hd0,gpt3)/boot/vmlinuz-4.18.0-305.el8.x86_64
   root=UUID=711de346-1631-4b60-a626-37488271d525
   ro
   crashkernel=auto
   resume=UUID=d6a3ac10-1ea1-4e42-a80b-54c427bcad19
   rhgb
   quiet


  ----------------------------------------------------------
  14. cpupower frequency-info
   analyzing CPU 0:
     Unable to determine current policy
     boost state support:
```

(Continued on next page)

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Platform Notes (Continued)

```
        Supported: yes
        Active: yes


     ----------------------------------------------------------
     15. tuned-adm active
       No current active profile.


     ----------------------------------------------------------
     16. sysctl
       kernel.numa_balancing            1
       kernel.randomize_va_space        2
       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                  20
       vm.dirty_writeback_centisecs   500
       vm.dirtytime_expire_seconds  43200
       vm.extfrag_threshold           500
       vm.min_unmapped_ratio            1
       vm.nr_hugepages                  0
       vm.nr_hugepages_mempolicy        0
       vm.nr_overcommit_hugepages       0
       vm.swappiness                   60
       vm.watermark_boost_factor    15000
       vm.watermark_scale_factor       10
       vm.zone_reclaim_mode             0


     ----------------------------------------------------------
     17. /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


     ----------------------------------------------------------
     18. /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


     ----------------------------------------------------------
     19. OS release
       From /etc/*-release /etc/*-version
       os-release    Red Hat Enterprise Linux 8.4 (Ootpa)
       redhat-release Red Hat Enterprise Linux release 8.4 (Ootpa)
       system-release Red Hat Enterprise Linux release 8.4 (Ootpa)


     ----------------------------------------------------------
     20. 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
```

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Platform Notes (Continued)

```
  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


----------------------------------------------------------------
21. Disk information
SPEC is set to: /spec2017-icc2023.0
  Filesystem    Type  Size  Used Avail Use% Mounted on
  /dev/sda3     xfs   420G   61G  360G  15% /

----------------------------------------------------------------
22. /sys/devices/virtual/dmi/id
    Vendor:         XFUSION
    Product:        2288H V6
    Product Family: Whitley
    Serial:         Serial


----------------------------------------------------------------
23. 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 M393A4K40DB3-CWE 32 GB 2 rank 3200



----------------------------------------------------------------
24. BIOS
(This section combines info from /sys/devices and dmidecode.)
    BIOS Vendor:     XFUSION
    BIOS Version:    1.55
    BIOS Date:       05/09/2023
    BIOS Revision:   1.55
```

Compiler Version Notes

```
==============================================================================
C     | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------


==============================================================================
C++   | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base) 541.leela_r(base)
------------------------------------------------------------------------------
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------


==============================================================================
Fortran | 548.exchange2_r(base)
------------------------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2023.0.0 Build 20221201
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

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Base Compiler Invocation

C benchmarks:
`icx`

C++ benchmarks:
`icpx`

Fortran benchmarks:
`ifx`

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:
```
-w -std=c11 -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

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/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

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 -auto
-L/usr/local/intel/compiler/2023.0.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

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The flags files that were used to format this result can be browsed at

http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.html
http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-ICX-V1.2.html

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

http://www.spec.org/cpu2017/flags/Intel-ic2023-official-linux64.xml
http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-ICX-V1.2.xml

Tested with SPEC CPU®2017 v1.1.9 on 2023-06-29 23:22:55-0400.
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