SPEC CPU®2017 Integer Rate Result

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xFusion

xFusion 1288H V6 (Intel Xeon Silver 4310)

$SPECrate^{®}2017\_int\_base =$ 90.5

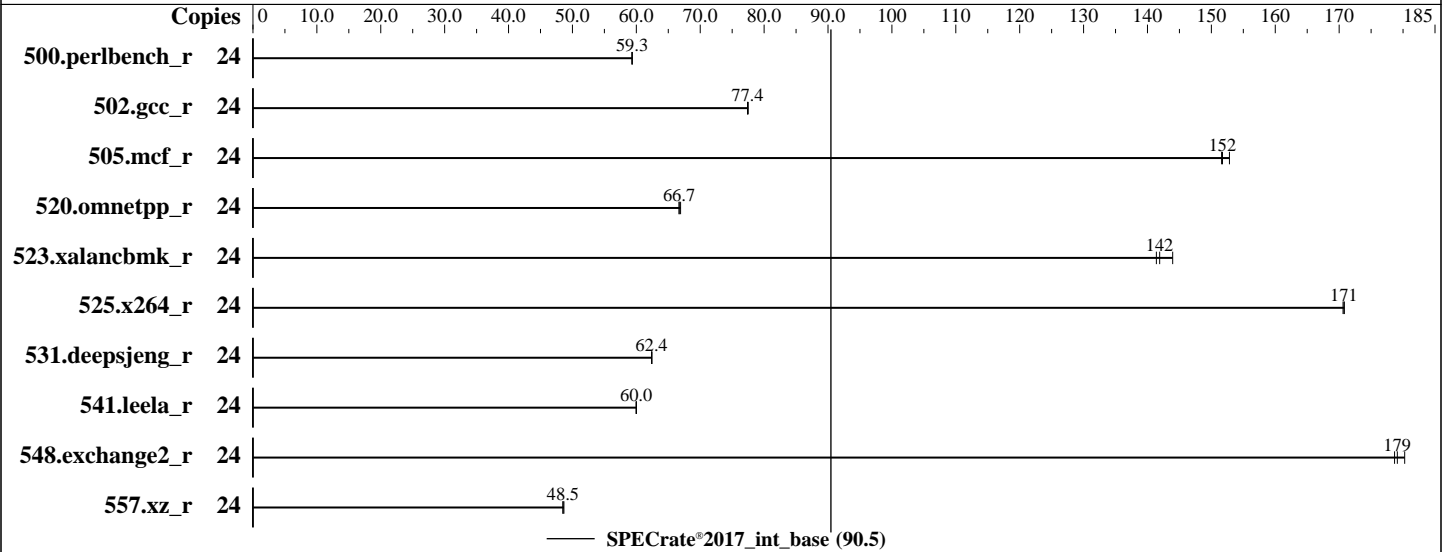$SPECrate^{®}2017\_int\_peak =$ Not Run

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

Test Date: Jan-2023
Hardware Availability: Apr-2021
Software Availability: May-2022

Copies		Value
500.perlbench_r	24	59.3
502.gcc_r	24	77.4
505.mcf_r	24	152
520.omnetpp_r	24	66.7
523.xalancbmk_r	24	142
525.x264_r	24	171
531.deepsjeng_r	24	62.4
541.leela_r	24	60.0
548.exchange2_r	24	179
557.xz_r	24	48.5

SPECrate®2017_int_base (90.5)

Hardware

CPU Name: Intel Xeon Silver 4310
 Max MHz: 3300
 Nominal: 2100
Enabled: 12 cores, 1 chip, 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: 18 MB I+D on chip per chip
 Other: None
Memory: 256 GB (8 x 32 GB 2Rx8 PC4-3200AA-R, running at 2666)
Storage: 1 x 960 GB SATA SSD
Other: None

Software

OS: Red Hat Enterprise Linux 8.4 (Ootpa)
 4.18.0-305.el8.x86_64
Compiler: C/C++: Version 2022.1 of Intel oneAPI DPC++/C++ Compiler for Linux;
 Fortran: Version 2022.1 of Intel Fortran Compiler for Linux;
Parallel: No
Firmware: Version 1.29 Released Nov-2022
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

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

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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	24	644	59.3	**644**	**59.3**	644	59.4							
502.gcc_r	24	438	77.5	439	77.4	**439**	**77.4**							
505.mcf_r	24	254	153	**256**	**152**	256	152							
520.omnetpp_r	24	470	66.9	**472**	**66.7**	472	66.7							
523.xalancbmk_r	24	176	144	179	141	**179**	**142**							
525.x264_r	24	246	171	246	171	**246**	**171**							
531.deepsjeng_r	24	**441**	**62.4**	441	62.4	441	62.4							
541.leela_r	24	**662**	**60.0**	662	60.0	663	60.0							
548.exchange2_r	24	**351**	**179**	352	179	349	180							
557.xz_r	24	533	48.7	534	48.5	**534**	**48.5**							
SPECrate®2017_int_base =		**90.5**												
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/lib/intel64:/spec2017/lib/ia32:/spec2017/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/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Jan 16 02:58:59 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

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Platform Notes (Continued)

```
  GNU/Linux


    -------------------------------------------------------------
 2. w
    02:58:59 up 2 min,  1 user,  load average: 0.09, 0.10, 0.04
    USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
    root     tty1     -                02:58   11.00s  1.48s  0.05s -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) 1028419
    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) 1028419
    virtual memory          (kbytes, -v) unlimited
    file locks                      (-x) unlimited


    -------------------------------------------------------------
 5. sysinfo process ancestry
  /usr/lib/systemd/systemd --switched-root --system --deserialize 18
  login -- root
  -bash
  -bash
  runcpu --define default-platform-flags --copies 24 -c ic2022.1-lin-core-avx512-rate-20220316.cfg --define
    smt-on --define cores=12 --define physicalfirst --define invoke_with_interleave --define drop_caches
    --tune base -o all intrate
  runcpu --define default-platform-flags --copies 24 --configfile ic2022.1-lin-core-avx512-rate-20220316.cfg
    --define smt-on --define cores=12 --define physicalfirst --define invoke_with_interleave --define
    drop_caches --tune base --output_format all --nopower --runmode rate --tune base --size refrate intrate
    --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0
    --from_runcpu 2
  specperl $SPEC/bin/sysinfo
  $SPEC = /spec2017


    -------------------------------------------------------------
 6. /proc/cpuinfo
    model name      : Intel(R) Xeon(R) Silver 4310 CPU @ 2.10GHz
    vendor_id       : GenuineIntel
    cpu family      : 6
    model           : 106
    stepping        : 6
    microcode       : 0xd000363
    bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs
    cpu cores       : 12
    siblings        : 24
    1 physical ids (chips)
```

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Platform Notes (Continued)

```
     24 processors (hardware threads)
     physical id 0: core ids 0-11
     physical id 0: apicids 0-23
   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:    2
     Core(s) per socket:    12
     Socket(s):             1
     NUMA node(s):          2
     Vendor ID:             GenuineIntel
     BIOS Vendor ID:        Intel(R) Corporation
     CPU family:            6
     Model:                 106
     Model name:            Intel(R) Xeon(R) Silver 4310 CPU @ 2.10GHz
     BIOS Model name:       Intel(R) Xeon(R) Silver 4310 CPU @ 2.10GHz
     Stepping:              6
     CPU MHz:               2688.000
     BogoMIPS:              4200.00
     Virtualization:        VT-x
     L1d cache:             48K
     L1i cache:             32K
     L2 cache:              1280K
     L3 cache:              18432K
     NUMA node0 CPU(s):     0-5,12-17
     NUMA node1 CPU(s):     6-11,18-23
     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 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: 2 nodes (0-1)
     node 0 cpus: 0-5,12-17
     node 0 size: 128159 MB
     node 0 free: 127653 MB
     node 1 cpus: 6-11,18-23
     node 1 size: 128981 MB
     node 1 free: 128436 MB
     node distances:
```

(Continued on next page)

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Platform Notes (Continued)

```
  node    0    1
    0:   10   11
    1:   11   10


  -----------------------------------------------------------
9. /proc/meminfo
   MemTotal:       263312924 kB


  -----------------------------------------------------------
10. who -r
  run-level 3 Jan 16 02:57


  -----------------------------------------------------------
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 ksm ksmtuned
             libstoragemgmt libvirtd loadmodules lvm2-monitor mcelog mdmonitor microcode multipathd
             netcf-transaction nis-domainname nvmefc-boot-connections rhsmcertd rpcbind 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 dnsmasq ebtables
             gssproxy iprdump iprinit iprupdate ipsec iscsid iscsiuio kpatch kvm_stat ledmon nfs-blkmap
             nfs-convert nfs-server nftables numad nvmf-autoconnect oddjobd psacct radvd rdisc rhcd rhsm
             rhsm-facts saslauthd serial-getty@ sshd-keygen@ svnserve systemd-nspawn@ systemd-resolved tcsd
             virtinterfaced virtnetworkd virtnodedevd virtnwfilterd virtproxyd virtqemud virtsecretd
             virtstoraged
  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 virtlockd virtlogd
  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=0fafaa52-2b56-49ae-8c52-193b24e581d3
  ro
  crashkernel=auto
  resume=UUID=18486160-3f49-4849-aab2-6685682b407a
  rhgb
  quiet

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

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

  -----------------------------------------------------------
16. sysctl
```

(Continued on next page)

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Platform Notes (Continued)

```
    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                       40
    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                        10
    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
    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
```

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Platform Notes (Continued)

```
  Filesystem     Type  Size  Used Avail Use% Mounted on
  /dev/sda3      xfs   420G   65G  355G  16% /


  -----------------------------------------------------------
  22. /sys/devices/virtual/dmi/id
     Vendor:         XFUSION
     Product:        1288H V6
     Product Family: Whitley
     Serial:         1234567


  -----------------------------------------------------------
  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:
      8x Samsung M393A4G43AB3-CWE 32 GB 2 rank 3200, configured at 2666



  -----------------------------------------------------------
  24. BIOS
  (This section combines info from /sys/devices and dmidecode.)
     BIOS Vendor:      XFUSION
     BIOS Version:     1.29
     BIOS Date:        11/25/2022
     BIOS Revision:    1.29
```

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 2022.1.0 Build 20220316
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 2022.1.0 Build 20220316
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 2022.1.0 Build 20220316
Copyright (C) 1985-2022 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:

icx

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Base Compiler Invocation (Continued)

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/2022.1.0/linux/compiler/lib/intel64_lin
-lqkmalloc
```

C++ benchmarks:
```
-w -m64 -Wl,-z,muldefs -xCORE-AVX512 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/intel/compiler/2022.1.0/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/2022.1.0/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-ic2022-official-linux64_revA.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-ic2022-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-ICX-V1.2.xml

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

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