SPEC CPU®2017 Integer Rate Result

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Fujitsu

PRIMERGY TX1330 M6,
Intel Xeon E-2486, 3.5 GHz

$SPECrate^{®}2017\_int\_base =$ 79.1

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

CPU2017 License: 19

Test Sponsor: Fujitsu

Tested by: Fujitsu

Test Date: Apr-2024

Hardware Availability: Apr-2024

Software Availability: Dec-2023

Benchmark	Copies	Result
500.perlbench_r	12	60.4
502.gcc_r	12	68.5
505.mcf_r	12	133
520.omnetpp_r	12	47.1
523.xalancbmk_r	12	116
525.x264_r	12	162
531.deepsjeng_r	12	59.6
541.leela_r	12	56.6
548.exchange2_r	12	153
557.xz_r	12	37.7

SPECrate®2017_int_base (79.1)

Hardware

CPU Name: Intel Xeon E-2486
 Max MHz: 5600
 Nominal: 3500
Enabled: 6 cores, 1 chip, 2 threads/core
Orderable: 1 chip
Cache L1: 32 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 18 MB I+D on chip per chip
 Other: None
Memory: 64 GB (2 x 32 GB 2Rx8 PC5-4800B-E,
 running at 4400)
Storage: 1 x SATA M.2 SSD, 960 GB
Other: CPU Cooling: Air

Software

OS: SUSE Linux Enterprise Server 15 SP5
 5.14.21-150500.53-default
Compiler: C/C++: Version 2024.0.2 of Intel oneAPI DPC++/C++
 Compiler for Linux;
 Fortran: Version 2024.0.2 of Intel Fortran
 Compiler for Linux;
Parallel: No
Firmware: Fujitsu BIOS Version V5.0.0.27 R1.5.0 for
 D4132-A1x. Released Jul-2024
 tested as V5.0.0.27 R1.0.0 for D4132-A1x Mar-2024
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other: None
Power Management: BIOS set to prefer performance
 at the cost of additional power usage

https://www.spec.org/

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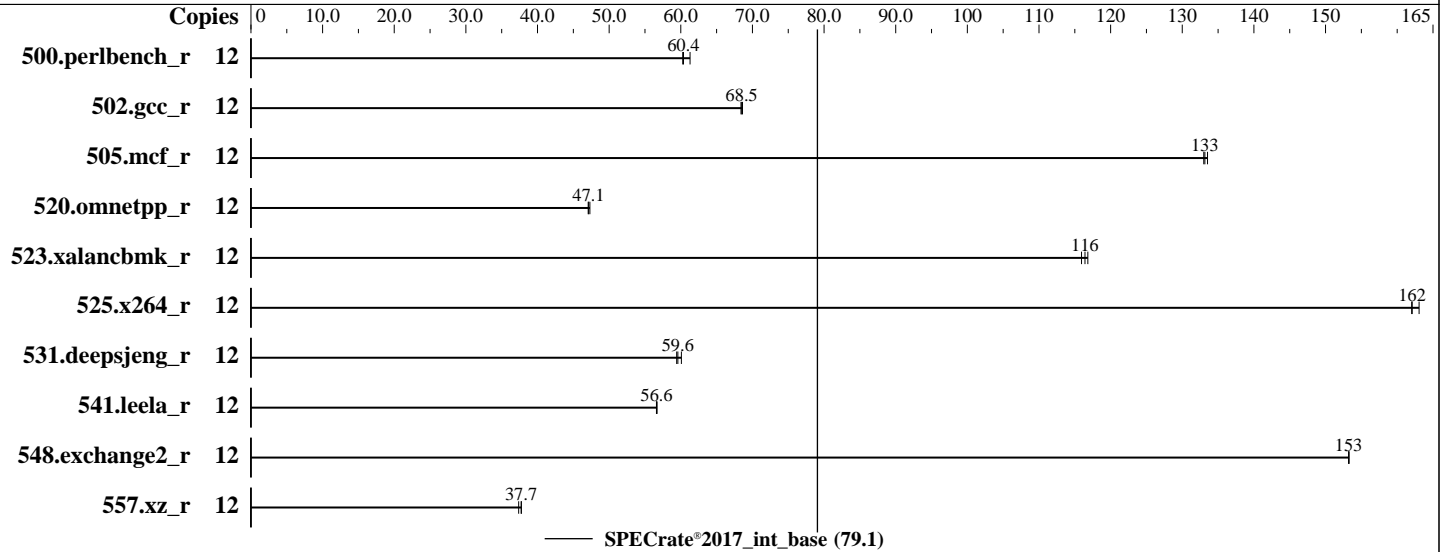
SPECrate®2017_int_peak = Not Run

CPU2017 License: 19
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Software Availability: Dec-2023

Results Table

Benchmark	Base						Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	12	312	61.3	**316**	**60.4**	317	60.3							
502.gcc_r	12	248	68.4	**248**	**68.5**	248	68.6							
505.mcf_r	12	145	134	146	133	**146**	**133**							
520.omnetpp_r	12	**334**	**47.1**	333	47.3	334	47.1							
523.xalancbmk_r	12	**109**	**116**	108	117	109	116							
525.x264_r	12	129	163	**130**	**162**	130	162							
531.deepsjeng_r	12	**231**	**59.6**	231	59.4	229	60.1							
541.leela_r	12	351	56.7	**351**	**56.6**	351	56.6							
548.exchange2_r	12	205	153	205	153	**205**	**153**							
557.xz_r	12	343	37.7	**344**	**37.7**	347	37.4							
SPECrate®2017_int_base =			**79.1**											
SPECrate®2017_int_peak =			**Not Run**											

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

Submit Notes

    The taskset mechanism was used to bind copies to processors. The config file option 'submit'
    was used to generate taskset 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 =
        "/home/Benchmark/speccpu.ic2024.0.2/lib/intel64:/home/Benchmark/speccpu.ic2024.0.2/lib/ia32:/home/Benc
        hmark/speccpu.ic2024.0.2/je5.0.1-32"
    MALLOC_CONF = "retain:true"

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
    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 configuration:
Fan Control = Full
Intel(R) Turbo Boost Max Technology 3.0 = Disabled
Total Memory Encryption = Disabled


Sysinfo program /home/Benchmark/speccpu.ic2024.0.2/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Mon Apr 22 14:14:28 2024

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 249 (249.16+suse.171.gdad0071f15)
12. Failed units, from systemctl list-units --state=failed
13. Services, from systemctl list-unit-files
14. Linux kernel boot-time arguments, from /proc/cmdline
15. cpupower frequency-info
16. tuned-adm active
17. sysctl
18. /sys/kernel/mm/transparent_hugepage
19. /sys/kernel/mm/transparent_hugepage/khugepaged
20. OS release
21. Disk information
22. /sys/devices/virtual/dmi/id
23. dmidecode
24. BIOS
-------------------------------------------------------------


-------------------------------------------------------------
1. uname -a
  Linux localhost 5.14.21-150500.53-default #1 SMP PREEMPT_DYNAMIC Wed May 10 07:56:26 UTC 2023 (b630043)
  x86_64 x86_64 x86_64 GNU/Linux


-------------------------------------------------------------
2. w
  14:14:28 up  4:29,  3 users,  load average: 3.40, 9.28, 11.05
  USER     TTY      FROM             LOGIN@   IDLE   JCPU    PCPU WHAT
  root     tty1     -                09:59    4:10m  0.04s  0.04s -bash
  root     pts/0    10.8.84.69       09:45    4:15m  1.31s  0.11s -bash
  root     pts/1    10.8.84.69       10:04   47:02   0.02s  0.02s -bash

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


-------------------------------------------------------------
4. ulimit -a
```

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

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CPU2017 License: 19	**Test Date:** Apr-2024
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Platform Notes (Continued)

```
   core file size          (blocks, -c) unlimited
   data seg size           (kbytes, -d) unlimited
   scheduling priority             (-e) 0
   file size               (blocks, -f) unlimited
   pending signals                 (-i) 254852
   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) 254852
   virtual memory          (kbytes, -v) unlimited
   file locks                      (-x) unlimited

   ------------------------------------------------------------
5. sysinfo process ancestry
 /usr/lib/systemd/systemd --switched-root --system --deserialize 30
 sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
 sshd: root@pts/0
 -bash
 -bash
 runcpu --nobuild --action validate --define default-platform-flags --define numcopies=12 -c
   ic2024.0.2-lin-core-avx2-rate-20231213.cfg --define smt-on --define cores=12 --define physicallogical
   --define no-numa --tune base -o all --define drop_caches intrate
 runcpu --nobuild --action validate --define default-platform-flags --define numcopies=12 --configfile
   ic2024.0.2-lin-core-avx2-rate-20231213.cfg --define smt-on --define cores=12 --define physicallogical
   --define no-numa --tune base --output_format all --define drop_caches --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 = /home/Benchmark/speccpu.ic2024.0.2

   ------------------------------------------------------------
6. /proc/cpuinfo
   model name      : Intel(R) Xeon(R) E E-2486
   vendor_id       : GenuineIntel
   cpu family      : 6
   model           : 183
   stepping        : 1
   microcode       : 0x121
   bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb
   cpu cores       : 6
   siblings        : 12
   1 physical ids (chips)
   12 processors (hardware threads)
   physical id 0: core ids 0-5
   physical id 0: apicids 0-11
 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 2.37.4:
   Architecture:                 x86_64
   CPU op-mode(s):               32-bit, 64-bit
   Address sizes:                46 bits physical, 48 bits virtual
```

(Continued on next page)

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Platform Notes (Continued)

```
Byte Order:                      Little Endian
CPU(s):                          12
On-line CPU(s) list:             0-11
Vendor ID:                       GenuineIntel
Model name:                      Intel(R) Xeon(R) E E-2486
CPU family:                      6
Model:                           183
Thread(s) per core:              2
Core(s) per socket:              6
Socket(s):                       1
Stepping:                        1
CPU max MHz:                     7200.0000
CPU min MHz:                     800.0000
BogoMIPS:                        6988.80
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 tsc_known_freq pni pclmulqdq dtes64 monitor
                                 ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2
                                 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm
                                 abm 3dnowprefetch cpuid_fault epb invpcid_single ssbd ibrs ibpb stibp
                                 ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase
                                 tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap clflushopt
                                 clwb intel_pt sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect
                                 avx_vnni dtherm ida arat pln pts hwp hwp_notify hwp_act_window hwp_epp
                                 hwp_pkg_req hfi umip pku ospke waitpkg gfni vaes vpclmulqdq tme rdpid
                                 movdiri movdir64b fsrm md_clear serialize pconfig arch_lbr flush_l1d
                                 arch_capabilities
Virtualization:                  VT-x
L1d cache:                       288 KiB (6 instances)
L1i cache:                       192 KiB (6 instances)
L2 cache:                        12 MiB (6 instances)
L3 cache:                        18 MiB (1 instance)
NUMA node(s):                    1
NUMA node0 CPU(s):               0-11
Vulnerability Itlb multihit:     Not affected
Vulnerability L1tf:              Not affected
Vulnerability Mds:               Not affected
Vulnerability Meltdown:          Not affected
Vulnerability Mmio stale data:   Not affected
Vulnerability Retbleed:          Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1:        Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2:        Mitigation; Enhanced IBRS, IBPB conditional, RSB filling, PBRSB-eIBRS SW
                                 sequence
Vulnerability Srbds:             Not affected
Vulnerability Tsx async abort:   Not affected

From lscpu --cache:
    NAME ONE-SIZE ALL-SIZE WAYS TYPE          LEVEL  SETS PHY-LINE COHERENCY-SIZE
    L1d      48K     288K  12 Data             1    64      1            64
    L1i      32K     192K   8 Instruction      1    64      1            64
    L2        2M      12M  16 Unified          2  2048      1            64
    L3       18M      18M   9 Unified          3 32768      1            64


------------------------------------------------------------
8. numactl --hardware
NOTE: a numactl 'node' might or might not correspond to a physical chip.
  available: 1 nodes (0)
  node 0 cpus: 0-11
```

(Continued on next page)

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Platform Notes (Continued)

```
  node 0 size: 63746 MB
  node 0 free: 63244 MB
  node distances:
  node   0
    0:  10


  ------------------------------------------------------------
9. /proc/meminfo
   MemTotal:       65276752 kB


  ------------------------------------------------------------
10. who -r
   run-level 3 Apr 22 09:45


  ------------------------------------------------------------
11. Systemd service manager version: systemd 249 (249.16+suse.171.gdad0071f15)
   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          YaST2-Firstboot YaST2-Second-Stage apparmor auditd chronyd cron display-manager getty@
                    haveged irqbalance issue-generator kbdsettings kdump kdump-early klog lvm2-monitor nscd
                    postfix purge-kernels rollback rsyslog sep5 smartd sshd systemd-pstore wicked
                    wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
   enabled-runtime  systemd-remount-fs
   disabled         autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait
                    console-getty cups cups-browsed debug-shell ebtables exchange-bmc-os-info firewalld gpm
                    grub2-once haveged-switch-root ipmi ipmievd issue-add-ssh-keys kexec-load lunmask
                    man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd serial-getty@
                    smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures
                    systemd-network-generator systemd-sysext systemd-time-wait-sync systemd-timesyncd tuned
                    udisks2 vncserver@
   indirect         pcscd wickedd


  ------------------------------------------------------------
14. Linux kernel boot-time arguments, from /proc/cmdline
   BOOT_IMAGE=/boot/vmlinuz-5.14.21-150500.53-default
   root=UUID=7d6282e3-8e21-4b62-ab94-5941e54159d1
   splash=silent
   mitigations=auto
   quiet
   security=apparmor
   crashkernel=235M,high
   crashkernel=72M,low


  ------------------------------------------------------------
15. cpupower frequency-info
   analyzing CPU 0:
     current policy: frequency should be within 800 MHz and 7.20 GHz.
                     The governor "powersave" may decide which speed to use
                     within this range.
     boost state support:
       Supported: yes
```

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Platform Notes (Continued)

```
      Active: yes


     ----------------------------------------------------------
     16. tuned-adm active
       Current active profile: balanced


     ----------------------------------------------------------
     17. sysctl
       kernel.numa_balancing            0
       kernel.randomize_va_space        2
       vm.compaction_proactiveness     20
       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


     ----------------------------------------------------------
     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_shared           256
       max_ptes_swap              64
       pages_to_scan            4096
       scan_sleep_millisecs    10000


     ----------------------------------------------------------
     20. OS release
       From /etc/*-release /etc/*-version
       os-release SUSE Linux Enterprise Server 15 SP5


     ----------------------------------------------------------
     21. Disk information
     SPEC is set to: /home/Benchmark/speccpu.ic2024.0.2
       Filesystem      Type  Size  Used Avail Use% Mounted on
       /dev/sda2       xfs   223G   98G  126G  44% /


     ----------------------------------------------------------
     22. /sys/devices/virtual/dmi/id
         Vendor:          FUJITSU
         Product:         PRIMERGY TX1330 M6
```

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Platform Notes (Continued)

```
     Product Family: SERVER
     Serial:         xxxxxxxxxx


  ------------------------------------------------------------
  23. dmidecode
    Additional information from dmidecode 3.4 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:
      2x Samsung M324R4GA3BB0-CQKOD 32 GB 2 rank 4800, configured at 4400


  ------------------------------------------------------------
  24. BIOS
  (This section combines info from /sys/devices and dmidecode.)
    BIOS Vendor:      FUJITSU // American Megatrends International, LLC.
    BIOS Version:     V5.0.0.27 R1.0.0 for D4132-A1x
    BIOS Date:        03/13/2024
    BIOS Revision:    1.0
```

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 2024.0.2 Build 20231213
Copyright (C) 1985-2023 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 2024.0.2 Build 20231213
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.
--------------------------------------------------------------------------------------------------------------


==============================================================================================================
Fortran | 548.exchange2_r(base)
--------------------------------------------------------------------------------------------------------------
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2024.0.2 Build 20231213
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.
--------------------------------------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Fortran benchmarks:
ifx

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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-AVX2 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmalloc

C++ benchmarks:
-w -std=c++14 -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmalloc

Fortran benchmarks:
-w -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmalloc

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-RPL-RevA.html
http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-RPL-RevA.xml
http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.xml

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

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