



SPEC CPU®2017 Integer Rate Result

Copyright 2017-2026 Standard Performance Evaluation Corporation

Lenovo Global Technology

ThinkSystem SC750 V4
(2.70 GHz, Intel Xeon 6960P)

SPECrate®2017_int_base = 1660

SPECrate®2017_int_peak = Not Run

CPU2017 License: 9017

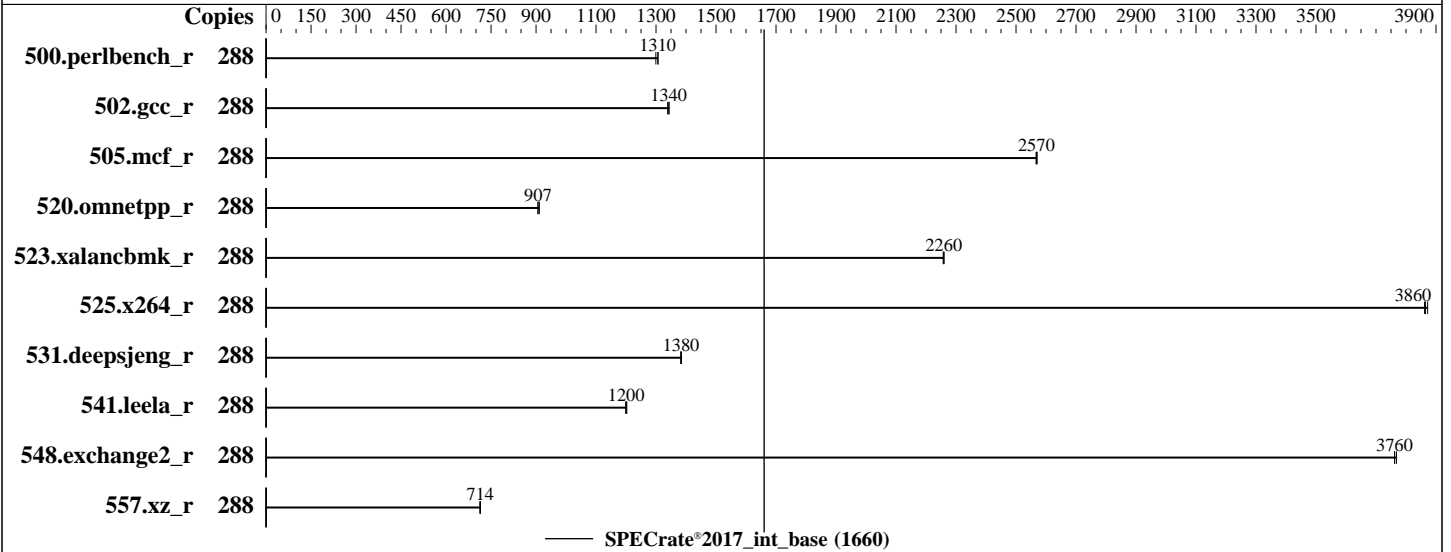
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: May-2026

Hardware Availability: Mar-2026

Software Availability: Apr-2026



Hardware

CPU Name: Intel Xeon 6960P
 Max MHz: 3900
 Nominal: 2700
 Enabled: 144 cores, 2 chips, 2 threads/core
 Orderable: 2 chips
 Cache L1: 64 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 432 MB I+D on chip per chip
 Other: None
 Memory: 768 GB (24 x 32 GB 2Rx8 PC5-88/64B-H)
 Storage: 1 x 1.92 TB NVME SSD
 Other: CPU Cooling: DLC

Software

OS: SUSE Linux Enterprise Server 15 SP7
 Kernel 6.4.0-150700.51-default
 Compiler: C/C++: Version 2026.0 of Intel oneAPI DPC++/C++ Compiler for Linux;
 Fortran: Version 2026.0 of Intel Fortran Compiler for Linux;
 Parallel: No
 Firmware: Lenovo BIOS Version Q5E111L 1.20 released Dec-2025
 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



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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	288	351	1310	<u>351</u>	<u>1310</u>	353	1300							
502.gcc_r	288	305	1340	<u>304</u>	<u>1340</u>	304	1340							
505.mcf_r	288	181	2570	181	2570	<u>181</u>	<u>2570</u>							
520.omnetpp_r	288	415	911	417	906	<u>417</u>	<u>907</u>							
523.xalancbmk_r	288	135	2260	<u>135</u>	<u>2260</u>	135	2260							
525.x264_r	288	<u>130</u>	<u>3860</u>	130	3870	131	3860							
531.deepsjeng_r	288	239	1380	<u>239</u>	<u>1380</u>	238	1380							
541.leela_r	288	397	1200	398	1200	<u>397</u>	<u>1200</u>							
548.exchange2_r	288	200	3770	<u>201</u>	<u>3760</u>	201	3760							
557.xz_r	288	437	713	435	715	<u>435</u>	<u>714</u>							

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

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 = "/home/cpu2017-1.1.9-ic2026.0/lib/intel64:/home/cpu2017-1.1.9-ic2026.0/lib/ia32"
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
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.



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Platform Notes

BIOS configuration:

Workload Profile set to General Computing - Max Performance and then set it to Custom

C-States set to Legacy

DCU Streamer Prefetcher set to Disabled

SNC set to Enabled

UPI Link Disable set to Minimum Number Of Links Enabled

Processor Plus set to +2

Sysinfo program /home/cpu2017-1.1.9-ic2026.0/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Fri May 22 01:53:09 2026

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

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1. uname -a
2. w
3. ulimit -a
4. sysinfo process ancestry
5. /proc/cpuinfo
6. lscpu
7. numactl --hardware
8. /proc/meminfo
9. who -r
10. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
11. Services, from systemctl list-unit-files
12. Linux kernel boot-time arguments, from /proc/cmdline
13. cpupower frequency-info
14. sysctl
15. /sys/kernel/mm/transparent_hugepage
16. /sys/kernel/mm/transparent_hugepage/khugepaged
17. OS release
18. Disk information
19. /sys/devices/virtual/dmi/id
20. dmidecode
21. BIOS

1. uname -a
Linux localhost 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611)
x86_64 x86_64 x86_64 GNU/Linux

2. w
01:53:09 up 6 min, 0 users, load average: 0.18, 0.13, 0.08
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

3. ulimit -a
core file size (blocks, -c) unlimited
data seg size (kbytes, -d) unlimited
scheduling priority (-e) 0
file size (blocks, -f) unlimited
pending signals (-i) 3094385
max locked memory (kbytes, -l) 8192
max memory size (kbytes, -m) unlimited
open files (-n) 1024

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Platform Notes (Continued)

```

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) 3094385
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited

```

4. sysinfo process ancestry

```

/usr/lib/systemd/systemd --switched-root --system --deserialize=42
/bin/bash /root/auto_executor.sh
/bin/bash ./Run502-compliant-ic2026.0-lin-sapphirerapids-rateint-base-smt-on-20260429.sh
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=288 -c
  ic2026.0-lin-sapphirerapids-rate-20260429.cfg --define smt-on --define cores=144 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base -o all intrate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=288 --configfile
  ic2026.0-lin-sapphirerapids-rate-20260429.cfg --define smt-on --define cores=144 --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
  $$SPEC/tmp/CPU2017.036/templogs/preenv.intrate.036.0.log --lognum 036.0 --from_runcpu 2
specperl $$SPEC/bin/sysinfo
$$SPEC = /home/cpu2017-1.1.9-ic2026.0

```

5. /proc/cpuinfo

```

model name      : Intel(R) Xeon(R) 6960P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x1000405
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapsg bhi
cpu cores      : 72
siblings       : 144
2 physical ids (chips)
288 processors (hardware threads)
physical id 0: core ids 0-23,64-87,128-151
physical id 1: core ids 0-23,64-87,128-151
physical id 0: apicids 0-47,128-175,256-303
physical id 1: apicids 512-559,640-687,768-815

```

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

6. lscpu

From lscpu from util-linux 2.40.4:

```

Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         52 bits physical, 57 bits virtual
Byte Order:            Little Endian
CPU(s):                288
On-line CPU(s) list:   0-287
Vendor ID:             GenuineIntel
Model name:            Intel(R) Xeon(R) 6960P
CPU family:            6
Model:                 173
Thread(s) per core:    2

```

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Platform Notes (Continued)

```

Core(s) per socket:      72
Socket(s):              2
Stepping:               1
BogoMIPS:               5400.00
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 sse3 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 cat_l2 cdp_l3 intel_ppin cdp_l2
                        ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept
                        vpid ept_ad fsgsbase tsc_adjust bmil 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 user_shstk avx_vnni avx512_bf16 wbnoinvd dtherm ida
                        arat pln pts hfi vnmi avx512vbmi umip pku ospke waitpkg avx512_vbmi2
                        gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq
                        la57 rdpid bus_lock_detect cldemote movdiri movdir64b enqcmd fsrm
                        md_clear serialize tsxldtrk pconfig arch_lbr ibt amx_bf16 avx512_fp16
                        amx_tile amx_int8 flush_lld arch_capabilities

Virtualization:        VT-x
L1d cache:            6.8 MiB (144 instances)
L1i cache:            9 MiB (144 instances)
L2 cache:             288 MiB (144 instances)
L3 cache:             864 MiB (2 instances)
NUMA node(s):         6
NUMA node0 CPU(s):   0-23,144-167
NUMA node1 CPU(s):   24-47,168-191
NUMA node2 CPU(s):   48-71,192-215
NUMA node3 CPU(s):   72-95,216-239
NUMA node4 CPU(s):   96-119,240-263
NUMA node5 CPU(s):   120-143,264-287
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit:      Not affected
Vulnerability L1tf:               Not affected
Vulnerability Mds:                Not affected
Vulnerability Meltdown:           Not affected
Vulnerability Mmio stale data:    Not affected
Vulnerability Reg file data sampling: Not affected
Vulnerability Retbleed:           Not affected
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass:  Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1:         Mitigation; usercopy/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2:         Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling;
                                PBRSE-eIBRS Not affected; BHI BHI_DIS_S

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 6.8M 12 Data 1 64 1 64
L1i 64K 9M 16 Instruction 1 64 1 64
L2 2M 288M 16 Unified 2 2048 1 64
L3 432M 864M 16 Unified 3 442368 1 64

```

7. numactl --hardware

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Platform Notes (Continued)

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

```

available: 6 nodes (0-5)
node 0 cpus: 0-23,144-167
node 0 size: 128683 MB
node 0 free: 128236 MB
node 1 cpus: 24-47,168-191
node 1 size: 129011 MB
node 1 free: 128450 MB
node 2 cpus: 48-71,192-215
node 2 size: 128972 MB
node 2 free: 128568 MB
node 3 cpus: 72-95,216-239
node 3 size: 129011 MB
node 3 free: 128628 MB
node 4 cpus: 96-119,240-263
node 4 size: 129011 MB
node 4 free: 128583 MB
node 5 cpus: 120-143,264-287
node 5 size: 128933 MB
node 5 free: 128520 MB
node distances:
node  0  1  2  3  4  5
  0:  10 15 17 29 29 29
  1:  15 10 15 29 29 29
  2:  17 15 10 29 29 29
  3:  29 29 29 10 15 17
  4:  29 29 29 15 10 15
  5:  29 29 29 17 15 10

```

```

8. /proc/meminfo
   MemTotal:      792190316 kB

```

```

9. who -r
   run-level 3 May 22 01:47

```

```

10. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
    Default Target  Status
    multi-user      running

```

```

11. Services, from systemctl list-unit-files
    STATE          UNIT FILES
    enabled        YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ irqbalance
                   issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections
                   nvme-fc-autoconnect postfix purge-kernels rollback rsyslog smartd spec-auto sshd
                   systemd-pstore wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
    enabled-runtime systemd-remount-fs
    disabled       autofs autostart-initscripts blk-availability boot-sysctl ca-certificates chrony-wait
                   chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info
                   firewallld fsidd gpm grub2-once haveged 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-confext
                   systemd-network-generator systemd-sysext systemd-time-wait-sync systemd-timesyncd
                   vncserver@
    indirect       systemd-userdbd wickedd

```

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Platform Notes (Continued)

12. Linux kernel boot-time arguments, from /proc/cmdline

```
BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.51-default
root=UUID=ce1519fb-457a-4b1f-ab59-fcfcc7e58c27
splash=silent
mitigations=auto
quiet
security=apparmor
```

13. cpupower frequency-info

```
analyzing CPU 185:
  Unable to determine current policy
  boost state support:
    Supported: yes
    Active: yes
```

14. sysctl

```
kernel.numa_balancing          1
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
```

15. /sys/kernel/mm/transparent_hugepage

```
defrag          always defer defer+madvice [madvice] never
enabled         [always] madvice never
hpage_pmd_size  2097152
shmem_enabled   always within_size advise [never] deny force
```

16. /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
```

17. OS release

```
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP7
```

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Platform Notes (Continued)

18. Disk information

SPEC is set to: /home/cpu2017-1.1.9-ic2026.0

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0n1p3	xf	1.8T	93G	1.7T	6%	/

19. /sys/devices/virtual/dmi/id

```
Vendor:      Lenovo
Product:    Lenovo ThinkSystem SC750 V4 Neptune Tray
Product Family: ThinkSystem
Serial:     1234567890
```

20. dmidecode

Additional information from dmidecode 3.6 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:

```
7x SK Hynix HMC88BDJHA380N 32 GB 2 rank 8800
4x SK Hynix HMC88BDJHA383N 32 GB 2 rank 8800
9x SK Hynix HMC88BDJHA462N 32 GB 2 rank 8800
4x SK Hynix HMC88BDJHA464N 32 GB 2 rank 8800
```

21. BIOS

(This section combines info from /sys/devices and dmidecode.)

```
BIOS Vendor:      Lenovo
BIOS Version:     Q5E111L-1.20
BIOS Date:        12/18/2025
BIOS Revision:    1.20
Firmware Revision: 2.0
```

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 2026.0.0 Build 20260331
Copyright (C) 1985-2026 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 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

```
=====  
Fortran | 548.exchange2_r(base)  
=====
```

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 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 -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/home/specdev/intel-compilers/compiler/latest/lib -lqkmalloc
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fdelayed-template-parsing
-L/home/specdev/intel-compilers/compiler/latest/lib -lqkmalloc
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/home/specdev/intel-compilers/compiler/latest/lib -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/Lenovo-Platform-SPECcpu2017-Flags-V1.2-Birchstream-K.html>

<http://www.spec.org/cpu2017/flags/Intel-ic2026-official-linux64.html>

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

<http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-Birchstream-K.xml>

<http://www.spec.org/cpu2017/flags/Intel-ic2026-official-linux64.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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