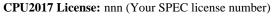
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## My Corporation

SPECrate<sup>®</sup>2017\_int\_base = \& 8.02

SPECrate®2017\_int\_peak Not Run



**Test Sponsor:** My Corporation **Tested by:** My Corporation

Test Date: Oct-2024 Hardware Availability: Software Availability:

Copies | 0 | 1.00 | 2.00 | 3.00 | 4.00 | 500.perlbench\_r | 1

8.00 9.00

502.gcc\_r 505.mcf\_r

520.omnetpp\_r

523.xalancbmk\_r 525.x264 r

531.deepsjeng\_r

541.leela\_r 548.exchange2\_r

557.xz\_r

SPECrate®2017\_int\_base (8.02)

#### Hardware

CPU Name: 06/8f Max MHz: Nominal:

Enabled: cores, 1 chip, threads/core

Orderable: Cache L1: L2:

L3:
Other:
Memory: 1.785 GB fixme: If using DDR4, the format is:

'N GB (Nx N GB nRxn PC4-nnnnX-X)' Storage: J GB add nore disk info here

Other:

OS: Software
Ubuntu 24.04 LTS

6.8.0-35-generic Compiler: C/C++/Fortran: Version 10.1.0 of GCC, the

**GNU** Compiler Collection

Parallel: No

Firmware:

File System: ext4

System State: Run level 5 (add definition here)

Base Pointers: 64-bit

Peak Pointers: Not Applicable

Other:

Power Management:

### **Errors**

'reportable' flag not set during run

557.xz\_r (base) did not have enough runs!

502.gcc\_r (base) did not have enough runs!

505.mcf\_r (base) did not have enough runs!

548.exchange2\_r (base) did not have enough runs!

531.deepsjeng\_r (base) did not have enough runs!

500.perlbench\_r (base) did not have enough runs!

523.xalancbmk\_r (base) did not have enough runs!

525.x264\_r (base) did not have enough runs!

520.omnetpp\_r (base) did not have enough runs!

541.leela r (base) did not have enough runs!

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SPECrate<sup>®</sup>2017\_int\_base = \& 8.02

SPECrate®2017\_int\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

**Test Sponsor:** My Corporation **Tested by:** My Corporation

Test Date:

Oct-2024

Hardware Availability: Software Availability:

#### Results Table

	Base						Peak							
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	1	<u>198</u>	<u>8.02</u>							$\sqrt{2}$				
502.gcc_r														
505.mcf_r						$\langle \ \rangle$			)/					
520.omnetpp_r									·					
523.xalancbmk_r														
525.x264_r						(		$\sum$						
531.deepsjeng_r								$\mathcal{N}$						
541.leela_r				)	$\wedge$									
548.exchange2_r			/											
557.xz_r					V \									

**SPECrate**\*2017\_int\_base = **8.02** 

SPECrate®2017\_int\_peak = Not Run

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

#### **Environment Variables Notes**

Environment variables set by runcou defore the start of the run: LD\_LIBRARY\_PATH = "/usr/lix64/:/dsr/lib/:/jhb4"

#### **Platform Notes**

Sysinfo program /home/tdx/speccpu2017/bin/sysinfo Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197 running on tdx-guest Wed Oct 23 11:09:14 2024

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

Table of contents

- 1. uhame -a
- 2. w
- 3. Vsername
- 4. ullmit -
- 5. sysinfo process ancestry
- 6. /proc/cpuinfo
- 7. lscpu
- 8. numactl --hardware
- 9. /proc/meminfo
- 10. who -r
- 11. Systemd service manager version: systemd 255 (255.4-lubuntu8.1)
- 12. Services, from systematl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline
- 14. cpupower frequency-info
- 15. sysctl
- 16. /sys/kernel/mm/transparent\_hugepage
- 17. /sys/kernel/mm/transparent\_hugepage/khugepaged
- 18. OS release

(Continued on next page)

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## My Corporation

SPECrate<sup>®</sup>2017\_int\_base = \& .02

SPECrate®2017\_int\_peak Not Run

```
CPU2017 License: nnn (Your SPEC license number)
                                                                                   Test Date:
                                                                                                        Oct-2024
Test Sponsor:
                My Corporation
                                                                                   Hardware Availability:
                                                                                   Software Availability:
Tested by:
                My Corporation
                                   Platform Notes (Continued)
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS
  Linux tdx-quest 6.8.0-35-generic #35-Ubuntu SMP PRECHPT DYNAMIC Mon May 20 15:51:52 UTC 2024 x86_64 x86_64
  x86 64 GNU/Linux
                                                        .52,
   11:09:14 up 6 min, 1 user, load average: 0.31,
                                                            0.26
  USER
           TTY
                   FROM
                                       LOGIN@
                                                IDLE
                                                        JCPU PCPU WHAT
  root
           hvc0
                                       11:03
                                                2.00s
                                                        1.87s 0.01s w
3. Username
  From environment variable $USER: root
4. ulimit -a
                        unlimit@d
  time(seconds)
                        unlimited
  file(blocks)
  data(kbytes)
                        unlimited
                        8192
  stack(kbytes)
  coredump(blocks)
                        unlimited
  memory(kbytes)
  locked memory(kbytes) 233908
                        7107
  process
  nofiles
                         1024
  vmemory(kbytes
                        unlimite
                        unlimited
  locks
  rtprio
5. sysinfo
           process ancestry
 /sbin/init
 /bin/login
  -bash
                      __tune=base 500.perlbench_r
 runcpu --config tdx --tune=base 500.perlbench_r runcpu --configfile tdx --tune base --size refrate
   500 perlbench r -- nopreenv -- note-preenv -- logfile $SPEC/tmp/CPU2017.007/templogs/preenv.intrate.007.0.log lognum 007. -- from runcpu 2
 specperl $SPEC/bin/sysinfo
$SPEC = \home/\text{tdx/speccpu2017}
6. /proc/epuinfo
                     : 06/8f
    model name
    vendor_id
                    : GenuineIntel
    cpu family
    model
                    : 143
    stepping
                     : 8
                     : 0x2b0005d1
    microcode
                     : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
    buqs
                     : 16
    cpu cores
    siblings
                     : 16
    1 physical ids (chips)
```

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SPECrate<sup>®</sup>2017\_int\_base = 8.02

SPECrate®2017 int **N**ot Run

CPU2017 License: nnn (Your SPEC license number)

**Test Sponsor:** My Corporation Tested by: My Corporation Test Date: Oct-2024 Hardware Availability: Software Availability:

### Platform Notes (Continued)

```
16 processors (hardware threads)
physical id 0: core ids 0-15
physical id 0: apicids 0-15
```

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

, 57 bits

/irtual

#### 7. lscpu

```
From lscpu from util-linux 2.39.3:
 Architecture:
                                          x86 64
  CPU op-mode(s):
                                          3℃-bit, 64-bi
  Address sizes:
                                          52 bits physical
 Byte Order:
                                          Little Endian
  CPU(s):
  On-line CPU(s) list:
  Vendor ID:
  BIOS Vendor ID:
 Model name:
 BIOS Model name:
 BIOS CPU family:
  CPU family:
 Model:
 Thread(s) per core:
  Core(s) per socket:
  Socket(s):
  Stepping:
 BogoMIPS:
  Flags:
```

Genuine Intel QEMU 06\8f pc-q35-8.24800.00

 $\mathrm{f}_{\mathbf{y}}$ u vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat flush dts mmx fxsr sse sse2 ss ht tm syscall nx pdpe1gb rdtscp lm constant\_tsc bts rep\_good nopl tsc\_reliable nonstop\_tsc cpuid tsc\_known\_freq pni pclmulqdq dtes64 ds\_cpl ssse3 fma cx16 pdcm pcid sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c rdrand hypervisor lahf\_lm abm 3dnowprefetch cpuid\_fault ssbd ibrs ibpb stibp ibrs\_enhanced tdx\_guest fsgsbase bmil avx2 smep bmi2 erms invpcid avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb avx512cd sha\_ni avx512bw avx512vl xsaveopt xsavec xgetbvl xsaves avx\_vnni avx512\_bf16 wbnoinvd avx512vbmi umip pku ospke avx512\_vbmi2 gfni vaes vpclmulqdq avx512\_vnni avx512\_bitalg avx512\_vpopcntdq la57 rdpid bus\_lock\_detect cldemote movdiri movdir64b fsrm md\_clear serialize tsxldtrk amx\_bf16 avx512\_fp16 amx\_tile amx\_int8 flush\_l1d arch\_capabilities

Hypervisor vendor Virtualization type: Lld cache: Lli cache L2 cache: L3 cache: NUMA node(s): NUMA noxe0 CPU(s): Vulnerability Gather data sampling:

Vulnerability Itlb multihit:

Vulnerability Mmio stale data:

Vulnerability L1tf:

Vulnerability Meltdown:

Vulnerability Retbleed:

Vulnerability Mds:

0 - 15Not affected Not affected Not affected Not affected Not affected Not affected Vulnerability Reg file data sampling: Not affected Not affected

full

Vulnerability Spec rstack overflow: Not affected Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl

(Continued on next page)

512 KiB (16 instances) 512 KiB (16 instances)

64 MiB (16 instances)

16 MiB (1 instance)

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## My Corporation

SPECrate®2017\_int\_base =

SPECrate®2017 int **∜**ot Run

CPU2017 License: nnn (Your SPEC license number) Test Date: Oct-2024

**Test Sponsor:** My Corporation Tested by: My Corporation Hardware Availability: Software Availability:

8.02

#### Platform Notes (Continued)

```
Mitigation; usercopy/swapgs barriers and _user pointer sanitization
Vulnerability Spectre v1:
Vulnerability Spectre v2:
                                      Mitigation; Enhanced / Automatic NBRS; IBPB conditional; RSB filling;
                                      PBRSB-eIBRS SW sequence; BHI BNI_DIS S
```

Not affected Vulnerability Srbds: Vulnerability Tsx async abort: Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHX-LINE	COHERENCY-SIZE
L1d	32K	512K	8	Data	1	64	1	64
L1i	32K	512K	8	Instruction	1	// 64	1	64
L2	4M	64M	16	Unified	2	4096	1	$\sim$ 64
L3	16M	16M	16	Unified	3	16384	1	64
				( )			1 6	<i>1</i>

8. numactl --hardware

```
NOTE: a numactl 'node' might or might not con
                                               espond to
                                                            physical chip.
```

```
available: 1 nodes (0)
node 0 cpus: 0-15
node 0 size: 1827 MB
node 0 free: 969 MB
node distances:
node
 0: 10
```

9. /proc/meminfo

MemTotal:

1871272

10. who -r run-level 5 Oct 23 11:03

11. Systemd service manager version: systemd 255 (255.4-lubuntu8.1)

Default Target Status graphical running

12. Service systemet l list-unit-files

STATE UNIT EILES

enabled ModernManager apparmor apport blk-availability cloud-config cloud-final cloud-init cloud-init-local console-setup cron dmesg e2scrub\_reap finalrd getty@ grub-common

📆 ub-initrd-fallback keyboard-setup lvm2-monitor multipathd networkd-dispatcher open-iscsi open-vm-tools rsyslog secureboot-db setvtrgb snapd ssh sysstat systemd-networkd

systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd

ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades vgauth

enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs

console-getty debug-shell iscsid nftables rsync systemd-boot-check-no-failures

systemd-confext systemd-network-generator systemd-networkd-wait-online@

systemd-pcrlock-file-system systemd-pcrlock-firmware-code systemd-pcrlock-firmware-config

systemd-pcrlock-machine-id systemd-pcrlock-make-policy

systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext

systemd-time-wait-sync

serial-getty@ systemd-sysupdate systemd-sysupdate-reboot uuidd indirect

masked cryptdisks cryptdisks-early hwclock multipath-tools-boot pollinate screen-cleanup sudo

x11-common

disabled

<sup>13.</sup> Linux kernel boot-time arguments, from /proc/cmdline BOOT\_IMAGE=/vmlinuz-6.8.0-35-generic

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SPECrate®2017 int **∀**ot Run

```
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```

**Test Sponsor:** My Corporation Tested by: My Corporation Test Date: Oct-2024

Hardware Availability: Software Availability:

```
Platform Notes (Continued)
```

```
root=UUID=41106c9c-97fc-4396-8622-4f692c8c5bb1
  console=tty1
  console=ttyS0
14. cpupower frequency-info
```

analyzing CPU 1: Unable to determine current policy boost state support: Supported: no Active: no

15. sysctl kernel.numa\_balancing 0 kernel.randomize\_va\_space vm.compaction\_proactiveness 20 vm.dirty\_background\_bytes vm.dirty\_background\_ratio 10 vm.dirty\_bytes 0 vm.dirty\_expire\_centisecs 000 vm.dirty\_ratio 500 vm.dirty\_writeback\_centisecs vm.dirtytime\_expire\_seconds 200 vm.extfrag\_threshold 500 1 vm.min\_unmapped\_ratio vm.nr\_hugepages 0 vm.nr\_hugepages\_mempolia

vm.nr\_overcommit\_hugepage vm.swappiness 60 vm.watermark\_boost\_factor 15000 vm.watermark\_scale\_factor 10 0 vm.zone\_reclaim\_mode

16. /sys/kernel/mm/transparent\_hugepage defrag always defer defer+madvise [madvise] never

enabled always [madvise] never hpage\_pmd\_size 2097152

always within\_size advise [never] deny force shmem\_enabled

```
/sys/kernel/mm/transparent_hugepage/khugepaged
alloc_sleep_millisecs
                       60000
defrag
max_ptes_none
                          511
```

max\_ptes\_shared 256 max\_ptes\_swap 64 4096 pages\_te\_scan scan\_sleep\_millisecs 10000

18. OS release

From /etc/\*-release /etc/\*-version os-release Ubuntu 24.04 LTS

19. Disk information SPEC is set to: /home/tdx/speccpu2017

(Continued on next page)

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My Corporation

Test Date: Oct-2024

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

Filesystem Type Size Used Avail Use% Mounted on /dev/vdal ext4 51G 8.6G 43G 17% /

20. /sys/devices/virtual/dmi/id

Vendor: QEMU

Product: Standard PC (Q35 + ICH9, 2009)

\_\_\_\_\_

21. dmidecode

Additional information from dmidecode 3.5 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:

**Test Sponsor:** 

Tested by:

1x QEMU Not Specified 2 GB

22. BIOS

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

BIOS Vendor: Ubuntu distribution of EDK II

BIOS Version: 2024.02-34tdx1.0 BIOS Date: 07/03/2014

BIOS Revision: 0.0

### Compiler Version Notes

C | 500.perlbench\_r/base)

gcc (Ubuntu 13.2.0-23ubuntu4) 3 2.0

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------

### **Base Runtime Environment**

C benchmarks:

500.perbench r: No flags used

### **Base Compiler Invocation**

C benchmarks:

500.perlbench r: qcc

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## My Corporation

SPECrate<sup>®</sup>2017\_int\_base = \& 8.02

SPECrate®2017\_int\_peak Not Run

**CPU2017 License:** nnn (Your SPEC license number)

**Test Sponsor:** My Corporation **Tested by:** My Corporation

Test Date: Oct-2024

Hardware Availability: Software Availability:

### Base Portability Flags

500.perlbench\_r: -DSPEC LINUX X64 -DSPEC LP64

### **Base Optimization Flags**

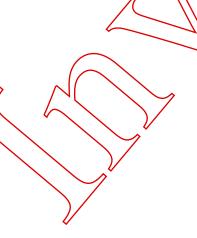
#### C benchmarks:

500.perlbench\_r: -m64 -std=c99 -g -03 march=native -fno-strict-aliasing -fno-unsafe-math-optimizations -fno-finite-math-only -fgnu89-inline

### Base Other Flags

C benchmarks:

500.perlbench\_r: -fcommon



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

Tested with SPEC CPU\*2017 v1.1.9 on 2024-10-23 11:09:13+0000.

Report generated on 2024-10-23 11:12:40 by CPU2017 PDF formatter v6716.