



# SPEC CPU®2017 Integer Rate Result

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## Tyrone Systems

(Test Sponsor: Netweb Technologies India Ltd)

Tyrone Camarero SDI200A2N-224

(2.8 GHz, Intel Xeon Platinum 8562Y+)

SPECrate®2017\_int\_base = 694

SPECrate®2017\_int\_peak = 721

CPU2017 License: 006802

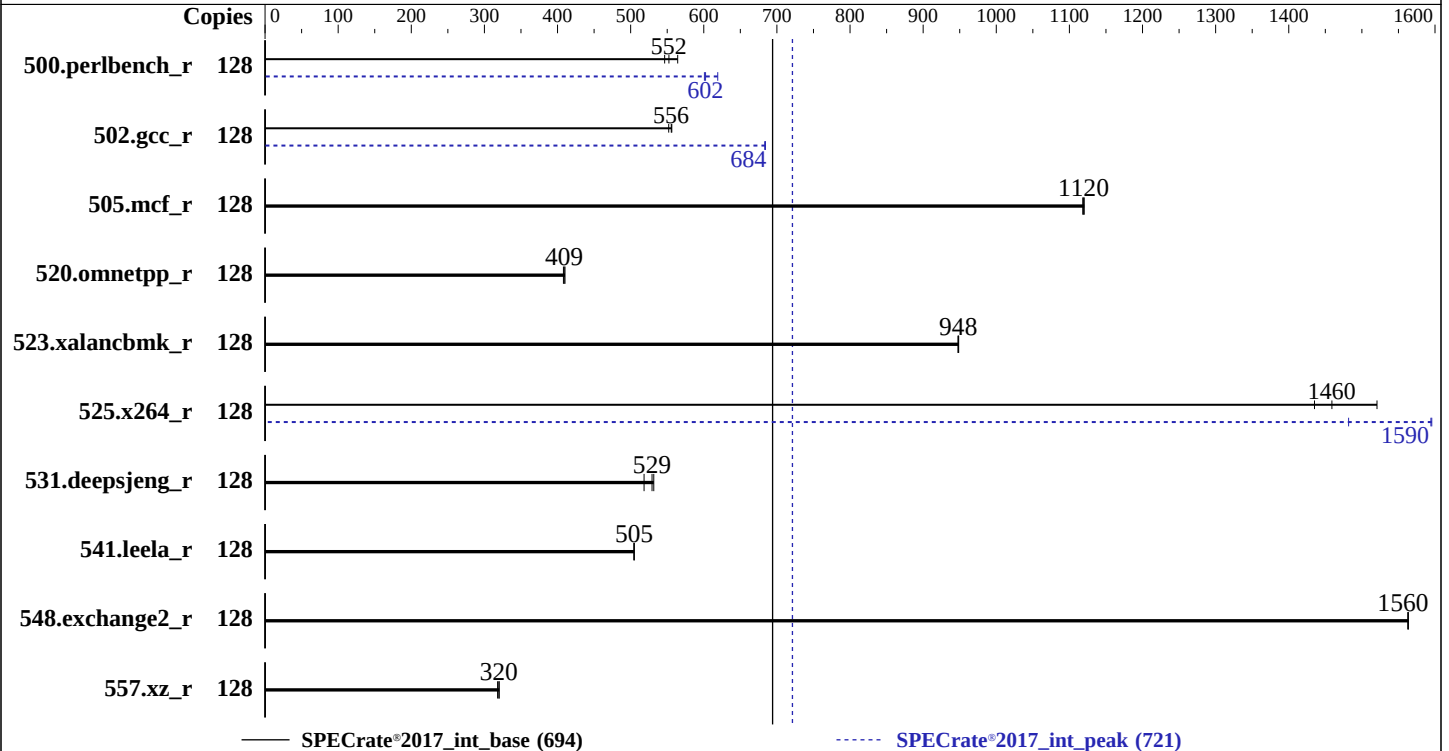
Test Sponsor: Netweb Technologies India Ltd

Tested by: Tyrone Systems

Test Date: Jul-2025

Hardware Availability: Jan-2024

Software Availability: Jun-2025



### Hardware

CPU Name: Intel Xeon Platinum 8562Y+  
Max MHz: 4100  
Nominal: 2800  
Enabled: 64 cores, 2 chips, 2 threads/core  
Orderable: 1,2 chips  
Cache L1: 32 KB I + 48 KB D on chip per core  
L2: 2 MB I+D on chip per core  
L3: 60 MB I+D on chip per chip  
Other: None  
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-5600B-R)  
Storage: 1 x 480 GB NVMe  
Other: CPU Cooling: Air

### Software

OS: Ubuntu 22.04.1 LTS  
5.15.0-143-generic  
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: Version 2.6 released May-2025  
File System: ext4  
System State: Run level 3 (Multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 32/64-bit  
Other: jemalloc memory allocator V5.0.1  
Power Management: BIOS and set to prefer  
performance at cost  
of additional power.



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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 | 128    | 361     | 564   | <b><u>369</u></b> | <b><u>552</u></b>  | 373               | 546               | 128    | 339     | 601   | <b><u>338</u></b> | <b><u>602</u></b>  | 329               | 619               |
| 502.gcc_r       | 128    | 328     | 552   | <b><u>326</u></b> | <b><u>556</u></b>  | 326               | 556               | 128    | 265     | 683   | <b><u>265</u></b> | <b><u>684</u></b>  | 265               | 684               |
| 505.mcf_r       | 128    | 185     | 1120  | <b><u>185</u></b> | <b><u>1120</u></b> | 185               | 1120              | 128    | 185     | 1120  | <b><u>185</u></b> | <b><u>1120</u></b> | 185               | 1120              |
| 520.omnetpp_r   | 128    | 409     | 410   | <b><u>410</u></b> | <b><u>409</u></b>  | 412               | 408               | 128    | 409     | 410   | <b><u>410</u></b> | <b><u>409</u></b>  | 412               | 408               |
| 523.xalancbmk_r | 128    | 142     | 949   | <b><u>143</u></b> | <b><u>948</u></b>  | 143               | 948               | 128    | 142     | 949   | <b><u>143</u></b> | <b><u>948</u></b>  | 143               | 948               |
| 525.x264_r      | 128    | 147     | 1520  | <b><u>154</u></b> | <b><u>1460</u></b> | 156               | 1440              | 128    | 151     | 1480  | <b><u>141</u></b> | <b><u>1590</u></b> | 140               | 1600              |
| 531.deepsjeng_r | 128    | 276     | 532   | <b><u>277</u></b> | <b><u>529</u></b>  | 283               | 518               | 128    | 276     | 532   | <b><u>277</u></b> | <b><u>529</u></b>  | 283               | 518               |
| 541.leela_r     | 128    | 420     | 505   | 420               | 505                | <b><u>420</u></b> | <b><u>505</u></b> | 128    | 420     | 505   | 420               | 505                | <b><u>420</u></b> | <b><u>505</u></b> |
| 548.exchange2_r | 128    | 215     | 1560  | <b><u>215</u></b> | <b><u>1560</u></b> | 215               | 1560              | 128    | 215     | 1560  | <b><u>215</u></b> | <b><u>1560</u></b> | 215               | 1560              |
| 557.xz_r        | 128    | 432     | 320   | 435               | 318                | <b><u>432</u></b> | <b><u>320</u></b> | 128    | 432     | 320   | 435               | 318                | <b><u>432</u></b> | <b><u>320</u></b> |

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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/lib/intel64:/home/cpu2017/lib/ia32:/home/cpu2017/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

runcpu command invoked through numactl i.e.:

numactl --interleave=all runcpu <etc>

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.

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.

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

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## General Notes (Continued)

jemalloc, a general purpose malloc implementation  
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5  
sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

## Platform Notes

### BIOS Settings:

Power Technology = Custom  
ENERGY\_PERF\_BIAS\_CFG mode = Maximum Performance  
KTI Prefetch = Enable  
LLC Dead Line Alloc = Disable  
SNC = Enable SNC2 (2-clusters)

Sysinfo program /home/cpu2017/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on intelbenchmark Sat Jul 19 06:13:02 2025

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 (249.11-0ubuntu3.16)
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. sysctl
16. /sys/kernel/mm/transparent\_hugepage
17. /sys/kernel/mm/transparent\_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

1. uname -a  
Linux intelbenchmark 5.15.0-143-generic #153-Ubuntu SMP Fri Jun 13 19:10:45 UTC 2025 x86\_64 x86\_64 x86\_64  
GNU/Linux

2. w  
06:13:02 up 5 min, 1 user, load average: 0.00, 0.02, 0.00  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
intel tty1 - 06:10 3.00s 0.88s 0.01s -bash

3. Username

(Continued on next page)



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## Platform Notes (Continued)

From environment variable \$USER: intel

```
-----
4. ulimit -a
time(seconds)          unlimited
file(blocks)           unlimited
data(kbytes)           unlimited
stack(kbytes)          unlimited
coredump(blocks)       0
memory(kbytes)         unlimited
locked memory(kbytes)  132062872
process                4126512
nofiles                1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                 0

-----
5. sysinfo process ancestry
/sbin/init
/bin/login -p --
-bash
su
bash
bash
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=128 -c
  ic2024.0.2-lin-sapphirerapids-rate-20231213.cfg --define smt-on --define cores=64 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base,peak -o all intrate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=128 --configfile
  ic2024.0.2-lin-sapphirerapids-rate-20231213.cfg --define smt-on --define cores=64 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base,peak --output_format all --nopower
  --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv --logfile
  $SPEC/tmp/CPU2017.004/temlogs/preenv.intrate.004.0.log --lognum 004.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017

-----
6. /proc/cpuinfo
model name      : INTEL(R) XEON(R) PLATINUM 8562Y+
vendor_id      : GenuineIntel
cpu family     : 6
model          : 207
stepping       : 2
microcode      : 0x210002a9
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
cpu cores      : 32
siblings       : 64
2 physical ids (chips)
128 processors (hardware threads)
physical id 0: core ids 0-31
physical id 1: core ids 0-31
physical id 0: apicids 0-63
physical id 1: apicids 128-191
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 2.37.2:
```

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## Platform Notes (Continued)

Architecture: x86\_64  
CPU op-mode(s): 32-bit, 64-bit  
Address sizes: 46 bits physical, 57 bits virtual  
Byte Order: Little Endian  
CPU(s): 128  
On-line CPU(s) list: 0-127  
Vendor ID: GenuineIntel  
Model name: INTEL(R) XEON(R) PLATINUM 8562Y+  
CPU family: 6  
Model: 207  
Thread(s) per core: 2  
Core(s) per socket: 32  
Socket(s): 2  
Stepping: 2  
BogoMIPS: 5600.00  
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 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 cat\_l2 cdp\_l3 invpcid\_single intel\_ppin cdp\_l2 ssbd mba ibrs ibpb stibp ibrs\_enhanced fsgsbase tsc\_adjust bmi1 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 avx\_vnni avx512\_bf16 wbnoinvd dtherm ida arat pln pts 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 amx\_bf16 avx512\_fp16 amx\_tile amx\_int8 flush\_l1d arch\_capabilities  
L1d cache: 3 MiB (64 instances)  
L1i cache: 2 MiB (64 instances)  
L2 cache: 128 MiB (64 instances)  
L3 cache: 120 MiB (2 instances)  
NUMA node(s): 4  
NUMA node0 CPU(s): 0-15, 64-79  
NUMA node1 CPU(s): 16-31, 80-95  
NUMA node2 CPU(s): 32-47, 96-111  
NUMA node3 CPU(s): 48-63, 112-127  
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 and seccomp  
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling; PBRSE-IBRS SW sequence; 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

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## Platform Notes (Continued)

|     |     |      |               |   |       |   |    |
|-----|-----|------|---------------|---|-------|---|----|
| L1d | 48K | 3M   | 12 Data       | 1 | 64    | 1 | 64 |
| L1i | 32K | 2M   | 8 Instruction | 1 | 64    | 1 | 64 |
| L2  | 2M  | 128M | 16 Unified    | 2 | 2048  | 1 | 64 |
| L3  | 60M | 120M | 15 Unified    | 3 | 65536 | 1 | 64 |

8. numactl --hardware

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

available: 4 nodes (0-3)

node 0 cpus: 0-15,64-79

node 0 size: 257676 MB

node 0 free: 256756 MB

node 1 cpus: 16-31,80-95

node 1 size: 258039 MB

node 1 free: 256881 MB

node 2 cpus: 32-47,96-111

node 2 size: 258039 MB

node 2 free: 257619 MB

node 3 cpus: 48-63,112-127

node 3 size: 257985 MB

node 3 free: 257530 MB

node distances:

|      |    |    |    |    |
|------|----|----|----|----|
| node | 0  | 1  | 2  | 3  |
| 0:   | 10 | 12 | 21 | 21 |
| 1:   | 12 | 10 | 21 | 21 |
| 2:   | 21 | 21 | 10 | 12 |
| 3:   | 21 | 21 | 12 | 10 |

9. /proc/meminfo

MemTotal: 1056502988 kB

10. who -r

run-level 3 Jul 19 06:10

11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.16)

Default Target Status

multi-user degraded

12. Failed units, from systemctl list-units --state=failed

| UNIT                                   | LOAD   | ACTIVE | SUB    | DESCRIPTION                       |
|----------------------------------------|--------|--------|--------|-----------------------------------|
| * systemd-networkd-wait-online.service | loaded | failed | failed | Wait for Network to be Configured |

13. Services, from systemctl list-unit-files

| STATE           | UNIT FILES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled         | ModemManager apparmor blk-availability cloud-config cloud-final cloud-init cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ gpu-manager grub-common grub-initrd-fallback irqbalance keyboard-setup lvm2-monitor lxd-agent multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb snapd ssh systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades vgauth |
| enabled-runtime | netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| disabled        | console-getty debug-shell ipmievd iscsid nftables rsync serial-getty@ systemd-boot-check-no-failures systemd-network-generator systemd-sysext systemd-time-wait-sync upower                                                                                                                                                                                                                                                                                                                                                               |

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generated      apport openipmi  
indirect      uuid  
masked      cryptdisks cryptdisks-early hwclock lvm2 multipath-tools-boot rc rcS screen-cleanup sudo  
             x11-common

-----  
14. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT\_IMAGE=/vmlinuz-5.15.0-143-generic  
root=UUID=9aebdeef-10e6-4d72-afd3-0a1b298270ed  
ro  
-----

-----  
15. 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  
-----

-----  
16. /sys/kernel/mm/transparent\_hugepage  
defrag                    always defer+madvice [madvice] never  
enabled                   always [madvice] never  
hpage\_pmd\_size           2097152  
shmem\_enabled            always within\_size advise [never] deny force  
-----

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

-----  
18. OS release  
From /etc/\*-release /etc/\*-version  
os-release Ubuntu 22.04.1 LTS  
-----

-----  
19. Disk information  
SPEC is set to: /home/cpu2017  
Filesystem    Type    Size    Used   Avail   Use%   Mounted on  
/dev/nvme0n1p5 ext4    380G    77G    284G   22%   /home  
-----

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## Platform Notes (Continued)

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

Vendor: Tyrone Systems

Product: SDI200A3N-212

Product Family: Family

Serial: A495115X4412722

21. dmidecode

Additional information from dmidecode 3.3 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 NO DIMM NO DIMM

16x Samsung M321R8GA0PB0-CWMCJ 64 GB 2 rank 5600

22. BIOS

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

BIOS Vendor: American Megatrends International, LLC.

BIOS Version: 2.6

BIOS Date: 05/15/2025

BIOS Revision: 5.32

## Compiler Version Notes

C | 502.gcc\_r(peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on IA-32, Version 2024.0.2 Build 20231213  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

C | 500.perlbench\_r(base, peak) 502.gcc\_r(base) 505.mcf\_r(base, peak) 525.x264\_r(base, peak)  
| 557.xz\_r(base, peak)

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 | 502.gcc\_r(peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on IA-32, Version 2024.0.2 Build 20231213  
Copyright (C) 1985-2023 Intel Corporation. All rights reserved.

C | 500.perlbench\_r(base, peak) 502.gcc\_r(base) 505.mcf\_r(base, peak) 525.x264\_r(base, peak)  
| 557.xz\_r(base, peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2024.0.2 Build 20231213  
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**Tyrone Camarero SDI200A2N-224**

(2.8 GHz, Intel Xeon Platinum 8562Y+)

**SPECrate®2017\_int\_base = 694**

**SPECrate®2017\_int\_peak = 721**

**CPU2017 License:** 006802

**Test Sponsor:** Netweb Technologies India Ltd

**Tested by:** Tyrone Systems

**Test Date:** Jul-2025

**Hardware Availability:** Jan-2024

**Software Availability:** Jun-2025

## Compiler Version Notes (Continued)

```
=====
C++ | 520.omnetpp_r(base, peak) 523.xalancbmk_r(base, peak) 531.deepsjeng_r(base, peak)
    | 541.leela_r(base, peak)
=====
```

```
-----
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, peak)
=====
```

```
-----
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

## 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
```

(Continued on next page)



# SPEC CPU®2017 Integer Rate Result

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## Base Optimization Flags (Continued)

C benchmarks (continued):

-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmallo

C++ benchmarks:

-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math

-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4

-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmallo

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/opt/intel/oneapi/compiler/2024.0/lib -lqkmallo

## Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

## Peak Portability Flags

500.perlbench\_r: -DSPEC\_LP64 -DSPEC\_LINUX\_X64

502.gcc\_r: -D\_FILE\_OFFSET\_BITS=64

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



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**Tested by:** Tyrone Systems

**Test Date:** Jul-2025

**Hardware Availability:** Jan-2024

**Software Availability:** Jun-2025

## Peak Optimization Flags

C benchmarks:

```
500.perlbench_r: -w -std=c11 -m64 -Wl, -z, muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profddata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-fno-strict-overflow
-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmalloc

502.gcc_r: -m32 -L/opt/intel/oneapi/compiler/2024.0/lib32 -std=gnu89
-Wl, -z, muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profddata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc32-5.0.1/lib -ljemalloc

505.mcf_r: basepeak = yes

525.x264_r: -w -std=c11 -m64 -Wl, -z, muldefs -xsapphirerapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fno-alias
-L/opt/intel/oneapi/compiler/2024.0/lib -lqkmalloc

557.xz_r: basepeak = yes
```

C++ benchmarks:

```
520.omnetpp_r: basepeak = yes

523.xalancbmk_r: basepeak = yes

531.deepsjeng_r: basepeak = yes

541.leela_r: basepeak = yes
```

Fortran benchmarks:

```
548.exchange2_r: basepeak = yes
```

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

<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.html>

<http://www.spec.org/cpu2017/flags/Tyrone-Platform-Settings-V1.2-SPR-revC.html>



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

<http://www.spec.org/cpu2017/flags/Intel-ic2024-official-linux64.xml>

<http://www.spec.org/cpu2017/flags/Tyrone-Platform-Settings-V1.2-SPR-revC.xml>

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