SPEC CPU®2017 Integer Rate Result

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Lenovo Global Technology

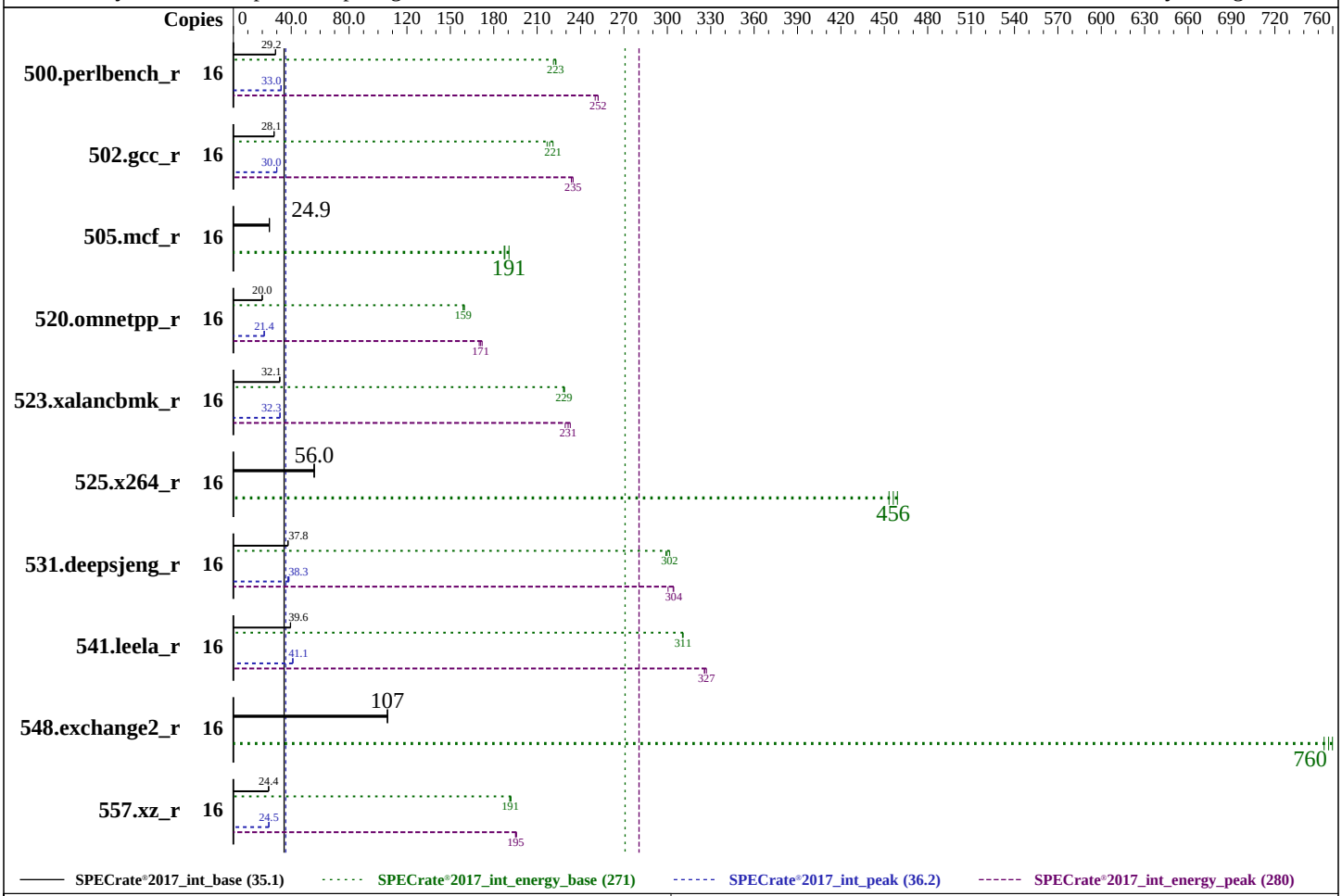
(Test Sponsor: Ampere Computing, Inc.)

ThinkSystem HR330A
(3.00 GHz Ampere eMAG 8180)

SPECrate®2017_int_base =	35.1
SPECrate®2017_int_energy_base =	271
SPECrate®2017_int_peak =	36.2
SPECrate®2017_int_energy_peak =	280

CPU2017 License: 6412
Test Sponsor: Ampere Computing, Inc.
Tested by: Ampere Computing, Inc.

Test Date: Feb-2026
Hardware Availability: Apr-2019
Software Availability: Aug-2025



Hardware

CPU Name:	Ampere eMAG 8180
Max MHz:	3300
Nominal:	3000
Enabled:	32 cores, 1 chip
Orderable:	1 chips
Cache L1:	32 KB I + 32 KB D on chip per core
L2:	4 MB I+D on chip per chip (256 KiB shared / 2 cores)
L3:	32 MB I+D on chip per chip
Other:	None
Memory:	128 GB (8 x 16 GB 2Rx4 PC4-2666V-R)
Storage:	1 x 480 GB SATA SSD
Other:	CPU Cooling: Air

Software

OS:	Ubuntu 24.04.1 LTS kernel 6.8.0 (64KB pages)
Compiler:	C/C++/Fortran: Version 15.2.0 of GCC
Parallel:	No
Firmware:	Version 1.12 released Nov-2019
File System:	ext4
System State:	Run level 5 (multi-user)
Base Pointers:	64-bit
Peak Pointers:	64-bit
Other:	jemalloc v5.3+, commit hash 1972241
Power Management:	OS CPU governor set to "performance"

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Power

Max. Power (W): 173.22
Idle Power (W): 76.47
Min. Temperature (C): 20.75
Elevation (m): 60
Line Standard: 120 V / 60 Hz / 1 phase / 2 wire
Provisioning: Line powered

Power Settings

Management FW: Version 11.05.111 of Falcon BMC
Memory Mode: Normal

Power-Relevant Hardware

Power Supply: 1 x 550 W (non-redundant)
Details: Lenovo 03LD785 550 Watt High Efficiency Platinum AC Power Supply
Backplane: N/A
Other Storage: N/A
Storage Model #s: 1 x Lenovo 01PE965 (480GB SATA SSD) connected to on-board HBA
NICs Installed: 1 x Lenovo 01PE857 @ 10 GbE (2 ports ethernet)
NICs Enabled (FW/OS): 2 / 1
NICs Connected/Speed: 1 @ 1 Gbps
Other HW Model #s: --

Power Analyzer

Power Analyzer: cpu-reference-ptd:8000
Hardware Vendor: Yokogawa
Model: YokogawaWT310E
Serial Number: T11733385
Input Connection: Serial over USB
Metrology Institute: NIST
Calibration By: Yokogawa USA
Calibration Label: T126622
Calibration Date: 18-Aug-2025
PTDaemon® Version: 1.11.3 (0c074d7d; 2025-10-15)
Setup Description: Directly connected
Current Ranges Used: 5A
Voltage Range Used: 150V

Temperature Meter

Temperature Meter: cpu-reference-ptd:9000
Hardware Vendor: PCSensor
Model: USB9097+DS18B20
Serial Number: --
Input Connection: USB
PTDaemon Version: 1.11.3 (0c074d7d; 2025-10-15)
Setup Description: In front of SUT front panel primary air inlet

Base Results Table

Benchmark	Copies	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
500.perlbench_r	16	**874**	**29.2**	**124**	**223**	**142**	**151**	871	29.2	124	223	142	152	875	29.1	125	221	143	151
502.gcc_r	16	**806**	**28.1**	**111**	**221**	**138**	**156**	808	28.1	113	217	140	159	804	28.2	113	219	140	157
505.mcf_r	16	**1040**	**24.9**	**148**	**191**	**143**	**154**	1043	24.8	151	187	145	157	1035	25.0	151	188	146	157
520.omnetpp_r	16	1053	19.9	142	160	135	137	1052	20.0	143	159	136	140	**1052**	**20.0**	**143**	**159**	**136**	**140**
523.xalancbmk_r	16	527	32.1	79.9	229	152	173	**527**	**32.1**	**80.0**	**229**	**152**	**173**	527	32.1	80.2	228	152	173
525.x264_r	16	500	56.0	66.2	459	132	139	503	55.7	67.0	453	133	140	**500**	**56.0**	**66.6**	**456**	**133**	**138**
531.deepsjeng_r	16	**486**	**37.8**	**66.1**	**302**	**136**	**143**	486	37.7	66.7	299	137	144	485	37.8	66.5	300	137	144
541.leela_r	16	673	39.4	92.2	311	137	142	670	39.6	92.3	310	138	143	**670**	**39.6**	**92.2**	**311**	**138**	**142**
548.exchange2_r	16	393	107	60.3	754	153	157	394	106	60.0	757	152	156	**394**	**107**	**59.8**	**760**	**152**	**156**
557.xz_r	16	709	24.4	97.9	192	138	150	**710**	**24.4**	**98.1**	**191**	**138**	**149**	710	24.4	98.3	191	139	150

SPECrate®2017_int_base = 35.1

SPECrate®2017_int_energy_base = 271

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

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Test Date: Feb-2026
Hardware Availability: Apr-2019
Software Availability: Aug-2025

Peak Results Table

Benchmark	Copies	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
500.perlbench_r	16	775	32.9	110	250	143	151	**771**	**33.0**	**110**	**252**	**142**	**150**	770	33.1	110	252	142	154
502.gcc_r	16	756	30.0	105	234	139	158	**756**	**30.0**	**105**	**235**	**139**	**158**	754	30.0	105	234	139	158
505.mcf_r	16	**1040**	**24.9**	**148**	**191**	**143**	**154**	1043	24.8	151	187	145	157	1035	25.0	151	188	146	157
520.omnetpp_r	16	984	21.3	134	170	136	138	**983**	**21.4**	**133**	**171**	**135**	**145**	983	21.4	132	172	135	143
523.xalancbmk_r	16	525	32.2	79.8	229	152	171	524	32.3	78.6	233	150	171	**524**	**32.3**	**79.1**	**231**	**151**	**172**
525.x264_r	16	500	56.0	66.2	459	132	139	503	55.7	67.0	453	133	140	**500**	**56.0**	**66.6**	**456**	**133**	**138**
531.deepsjeng_r	16	**479**	**38.3**	**65.5**	**304**	**137**	**144**	477	38.5	65.6	304	138	146	487	37.6	66.3	301	136	144
541.leela_r	16	645	41.1	88.0	326	136	142	645	41.1	88.0	326	137	142	**645**	**41.1**	**87.7**	**327**	**136**	**142**
548.exchange2_r	16	393	107	60.3	754	153	157	394	106	60.0	757	152	156	**394**	**107**	**59.8**	**760**	**152**	**156**
557.xz_r	16	**704**	**24.5**	**96.2**	**195**	**137**	**153**	704	24.5	96.3	195	137	152	705	24.5	95.9	196	136	154

SPECrate®2017_int_peak = 36.2

SPECrate®2017_int_energy_peak = 280

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

Submit Notes

```
The config file option 'submit' was used.
```

Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/lib64:/home/mjm/jemalloc/lib"
```

General Notes

```
jemalloc is a general purpose malloc(3) implementation that emphasizes
fragmentation avoidance and scalable concurrency support.
sources available from https://github.com/facebook/jemalloc/tree/1972241
and built via "./configure --with-lg-quantum=3" which used system gcc-14 -O3

This benchmark result is intended to provide perspective on
past power and/or performance using the historical hardware
and/or software described on this result page.

The system as described on this result page was formerly
generally available. At the time of this publication, it may
not be shipping, and/or may not be supported, and/or may fail
to meet other tests of General Availability described in the
SPEC OSG Policy document, http://www.spec.org/osg/policy.html

This measured result may not be representative of the result
that would be measured were this benchmark run with hardware
and software available as of the publication date.
```

Platform Notes

```
 Sysinfo program /home/mjm/cpu2017/bin/sysinfo
```

(Continued on next page)

Platform Notes (Continued)

```
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on emag Fri Feb 27 06:53:18 2026

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 255 (255.4-1ubuntu8.8)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
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 emag 6.8.0 #1 SMP PREEMPT_DYNAMIC Fri Feb 28 00:25:30 UTC 2025 aarch64 aarch64 aarch64 GNU/Linux

------------------------------------------------------------
2. w
   06:53:18 up 70 days,  7:18,  3 users,  load average: 0.75, 0.82, 0.92
  USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
  mjm              10.13.114.186    28Jan26 24:43m  0.00s  0.02s sshd: mjm [priv]
  mjm              10.41.107.182    20:04   24:43m  0.00s  0.02s sshd: mjm [priv]

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

------------------------------------------------------------
4. ulimit -a
  time(seconds)        unlimited
  file(blocks)         unlimited
  data(kbytes)         unlimited
  stack(kbytes)        unlimited
  coredump(blocks)     0
  memory(kbytes)       unlimited
  locked memory(kbytes) 16691648
  process              128681
  nofiles              1024
```

(Continued on next page)

Platform Notes (Continued)

```
  vmemory(kbytes)      unlimited
  locks                unlimited
  rtprio               0

------------------------------------------------------------
5. sysinfo process ancestry
 /usr/lib/systemd/systemd --system --deserialize=66
 SCREEN
 -bin/tcsh
 runcpu --flagsurl=$SPEC/gcc.2024-08-14.xml --reportable -c emag-Ofast-gcc15 --tune=base,peak -n 3 -C 16
   intrate
 runcpu --flagsurl $SPEC/gcc.2024-08-14.xml --reportable --configfile emag-Ofast-gcc15 --tune base,peak
   --iterations 3 --copies 16 --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv
   --logfile $SPEC/tmp/CPU2017.092/templogs/preenv.intrate.092.0.log --lognum 092.0 --from_runcpu 2
 specperl $SPEC/bin/sysinfo -f
$SPEC = /home/mjm/cpu2017

------------------------------------------------------------
6. /proc/cpuinfo
    CPU implementer : 0x50
    CPU architecture: 8
    CPU variant     : 0x3
    CPU part        : 0x000
    CPU revision    : 2
    Features        : fp asimd evtstrm aes pmull sha1 sha2 crc32 cpuid

------------------------------------------------------------
7. lscpu

From lscpu from util-linux 2.39.3:
  Architecture:                       aarch64
  CPU op-mode(s):                     32-bit, 64-bit
  Byte Order:                         Little Endian
  CPU(s):                             32
  On-line CPU(s) list:                0-31
  Vendor ID:                          APM
  Model name:                         -
  Model:                              2
  Thread(s) per core:                 1
  Core(s) per socket:                 32
  Socket(s):                          1
  Stepping:                           0x3
  Frequency boost:                    disabled
  CPU(s) scaling MHz:                 100%
  CPU max MHz:                        2911.7639
  CPU min MHz:                        363.9700
  BogoMIPS:                           80.00
  Flags:                              fp asimd evtstrm aes pmull sha1 sha2 crc32 cpuid
  L1d cache:                          1 MiB (32 instances)
  L1i cache:                          1 MiB (32 instances)
  L2 cache:                           4 MiB (16 instances)
  NUMA node(s):                       1
  NUMA node0 CPU(s):                  0-31
  Vulnerability Gather data sampling: Not affected
  Vulnerability Itlb multihit:        Not affected
  Vulnerability L1tf:                 Not affected
  Vulnerability Mds:                  Not affected
```

(Continued on next page)

Platform Notes (Continued)

```
  Vulnerability Meltdown:             Mitigation; PTI
  Vulnerability Mmio stale data:      Not affected
  Vulnerability Retbleed:             Not affected
  Vulnerability Spec rstack overflow: Not affected
  Vulnerability Spec store bypass:    Vulnerable
  Vulnerability Spectre v1:           Mitigation; __user pointer sanitization
  Vulnerability Spectre v2:           Vulnerable
  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       32K       1M    8 Data            1
     L1i       32K       1M    8 Instruction     1
     L2       256K       4M   32 Unified         2

------------------------------------------------------------
8. numactl --hardware
NOTE: a numactl 'node' might or might not correspond to a physical chip.
  available: 1 nodes (0)
  node 0 cpus: 0-31
  node 0 size: 130403 MB
  node 0 free: 109712 MB
  node distances:
  node   0
    0:  10

------------------------------------------------------------
9. /proc/meminfo
   MemTotal:       133533376 kB

------------------------------------------------------------
10. who -r
  run-level 5 Dec 18 23:35

------------------------------------------------------------
11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.8)
  Default Target  Status
  graphical       running

------------------------------------------------------------
12. Services, from systemctl list-unit-files
  STATE            UNIT FILES
  enabled          ModemManager apparmor apport blk-availability cloud-config cloud-final cloud-init
                   cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ grub-common
                   grub-initrd-fallback keyboard-setup lvm2-monitor multipathd networkd-dispatcher open-iscsi
                   open-vm-tools pollinate power-profiles-daemon rsyslog secureboot-db setvtrgb snapd 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
  disabled         console-getty debug-shell ipmievd iscsid nftables rsync ssh 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
  generated        openipmi perlbal
```

(Continued on next page)

Platform Notes (Continued)

```
  indirect         serial-getty@ systemd-sysupdate systemd-sysupdate-reboot uuidd
  masked           cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common

------------------------------------------------------------
13. Linux kernel boot-time arguments, from /proc/cmdline
  BOOT_IMAGE=/boot/vmlinuz-6.8.0
  root=UUID=16268541-06d0-4374-97ca-2d512d4db26f
  ro
  cma=1024M
  iommu.passthrough=1

------------------------------------------------------------
14. 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

------------------------------------------------------------
15. /sys/kernel/mm/transparent_hugepage
  defrag          always defer defer+madvise [madvise] never
  enabled         always [madvise] never
  hpage_pmd_size  536870912
  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            8191
  max_ptes_shared          4096
  max_ptes_swap            1024
  pages_to_scan           65536
  scan_sleep_millisecs    10000

------------------------------------------------------------
17. OS release
  From /etc/*-release /etc/*-version
  os-release Ubuntu 24.04.1 LTS

------------------------------------------------------------
18. Disk information
```

(Continued on next page)

Platform Notes (Continued)

```
SPEC is set to: /home/mjm/cpu2017
  Filesystem     Type  Size  Used Avail Use% Mounted on
  /dev/sda2      ext4  439G  287G  130G  69% /

------------------------------------------------------------
19. /sys/devices/virtual/dmi/id
    Vendor:         Lenovo
    Product:        HR330A            7X33CTO1WW
    Product Family: Lenovo ThinkSystem HR330A/HR350A

------------------------------------------------------------
20. 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:
    8x Samsung M393A2K43CB2-CTD 16 GB 2 rank 2667


------------------------------------------------------------
21. BIOS
(This section combines info from /sys/devices and dmidecode.)
   BIOS Vendor:       LENOVO
   BIOS Version:      HVE104N-1.12
   BIOS Date:         11/29/2019
   BIOS Revision:     1.12
   Firmware Revision: 1.7
```

Power Settings Notes

```
OS CPU governor was set using the command:
echo performance | tee /sys/devices/system/cpu/cpu*/cpufreq/scaling_governor
```

Compiler Version Notes

```
==============================================================================================================
C       | 500.perlbench_r(base, peak) 502.gcc_r(base, peak) 505.mcf_r(base, peak) 525.x264_r(base, peak)
        | 557.xz_r(base, peak)
--------------------------------------------------------------------------------------------------------------
gcc (GCC) 15.2.0
Copyright (C) 2025 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
--------------------------------------------------------------------------------------------------------------

==============================================================================================================
C++     | 520.omnetpp_r(base, peak) 523.xalancbmk_r(base, peak) 531.deepsjeng_r(base, peak)
        | 541.leela_r(base, peak)
--------------------------------------------------------------------------------------------------------------
g++ (GCC) 15.2.0
Copyright (C) 2025 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
--------------------------------------------------------------------------------------------------------------
```

(Continued on next page)

Compiler Version Notes (Continued)

```
==============================================================================================================
Fortran | 548.exchange2_r(base, peak)
--------------------------------------------------------------------------------------------------------------
GNU Fortran (GCC) 15.2.0
Copyright (C) 2025 Free Software Foundation, Inc.
This is free software; see the source for copying conditions.  There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
--------------------------------------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Fortran benchmarks:
gfortran

Base Portability Flags

500.perlbench_r: -DSPEC_LINUX_AARCH64 -DSPEC_LP64
502.gcc_r: -DSPEC_LP64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -DSPEC_LINUX -DSPEC_LP64
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:
-mabi=lp64 -std=c99 -g -Ofast -mcpu=native -flto=16
-fno-strict-aliasing -fno-unsafe-math-optimizations
-fno-finite-math-only -fgnu89-inline -L/home/mjm/jemalloc/lib
-ljemalloc

(Continued on next page)

Base Optimization Flags (Continued)

C++ benchmarks:
`-mabi=lp64 -std=c++03 -g -Ofast -mcpu=native -flto=16 -L/home/mjm/jemalloc/lib -ljemalloc`

Fortran benchmarks:
`-mabi=lp64 -g -Ofast -mcpu=native -flto=16 -L/home/mjm/jemalloc/lib -ljemalloc`

Base Other Flags

C benchmarks:
`-fcommon`

C++ benchmarks:
`-Wno-error=template-body`

Peak Compiler Invocation

C benchmarks:
`gcc`

C++ benchmarks:
`g++`

Fortran benchmarks:
`gfortran`

Peak Portability Flags

`Same as Base Portability Flags`

Peak Optimization Flags

C benchmarks:

500.perlbench_r: `-mabi=lp64 -std=c99 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -fno-strict-aliasing -fno-unsafe-math-optimizations -fno-finite-math-only -L/home/mjm/jemalloc/lib -ljemalloc`

502.gcc_r: `-mabi=lp64 -std=c99 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -fno-strict-aliasing -fgnu89-inline -L/home/mjm/jemalloc/lib -ljemalloc`

505.mcf_r: `basepeak = yes`

525.x264_r: `basepeak = yes`

557.xz_r: `-mabi=lp64 -std=c99 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -L/home/mjm/jemalloc/lib -ljemalloc`

C++ benchmarks:
`-mabi=lp64 -std=c++03 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -L/home/mjm/jemalloc/lib -ljemalloc`

Fortran benchmarks:

548.exchange2_r: `basepeak = yes`

Peak Other Flags

C benchmarks:

505.mcf_r: `-fcommon`

525.x264_r: `-fcommon`

C++ benchmarks:

523.xalancbmk_r: `-Wno-error=template-body`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/gcc.2026-04-28.00.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2017/flags/gcc.2026-04-28.00.xml

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