



# SPEC CPU®2017 Integer Rate Result

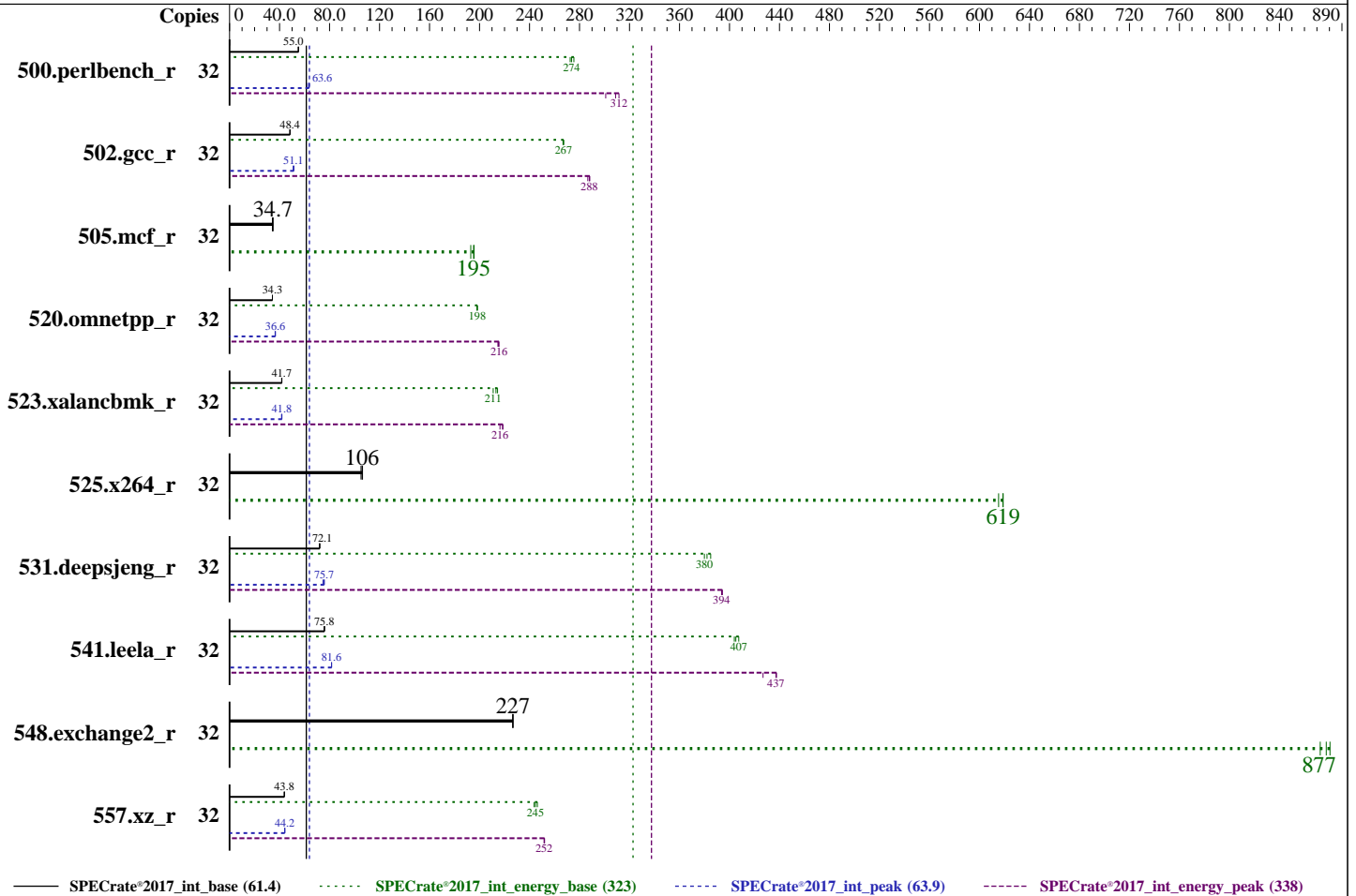
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**Lenovo Global Technology**  
(Test Sponsor: Ampere Computing, Inc.)  
**ThinkSystem HR330A**  
(3.00 GHz Ampere eMAG 8180)

SPECrate®2017\_int\_base = 61.4  
SPECrate®2017\_int\_energy\_base = 323  
SPECrate®2017\_int\_peak = 63.9  
SPECrate®2017\_int\_energy\_peak = 338

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): 296.14  
Idle Power (W): 77.99  
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	32	926	55.0	203	273	219	278	<b>926</b>	<b>55.0</b>	<b>202</b>	<b>274</b>	<b>218</b>	<b>278</b>	923	55.2	201	275	217	283
502.gcc_r	32	<b>937</b>	<b>48.4</b>	<b>184</b>	<b>267</b>	<b>197</b>	<b>266</b>	939	48.3	184	267	196	269	937	48.4	184	267	197	270
505.mcf_r	32	<b>1491</b>	<b>34.7</b>	<b>290</b>	<b>195</b>	<b>194</b>	<b>271</b>	1489	34.7	289	196	194	273	1509	34.3	293	193	194	272
520.omnetpp_r	32	<b>1224</b>	<b>34.3</b>	<b>229</b>	<b>198</b>	<b>187</b>	<b>195</b>	1225	34.3	229	198	187	198	1224	34.3	230	198	188	197
523.xalancbmk_r	32	810	41.7	172	213	212	286	<b>809</b>	<b>41.7</b>	<b>174</b>	<b>211</b>	<b>214</b>	<b>289</b>	807	41.9	171	214	212	291
525.x264_r	32	<b>528</b>	<b>106</b>	<b>98.1</b>	<b>619</b>	<b>186</b>	<b>205</b>	527	106	98.2	619	186	205	533	105	98.7	615	185	203
531.deepsjeng_r	32	509	72.1	104	385	204	267	509	72.1	104	382	205	255	<b>509</b>	<b>72.1</b>	<b>105</b>	<b>380</b>	<b>206</b>	<b>269</b>
541.leela_r	32	699	75.8	142	405	203	251	<b>699</b>	<b>75.8</b>	<b>141</b>	<b>407</b>	<b>201</b>	<b>243</b>	698	75.9	142	404	203	264
548.exchange2_r	32	370	227	104	873	281	293	<b>370</b>	<b>227</b>	<b>104</b>	<b>877</b>	<b>280</b>	<b>294</b>	370	227	103	880	279	293
557.xz_r	32	789	43.8	153	246	193	226	<b>788</b>	<b>43.8</b>	<b>153</b>	<b>245</b>	<b>195</b>	<b>252</b>	788	43.9	154	244	196	265

SPECrate®2017\_int\_base = 61.4

SPECrate®2017\_int\_energy\_base = 323

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



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## 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	32	817	62.4	184	301	225	283	<b>801</b>	<b>63.6</b>	<b>177</b>	<b>312</b>	<b>222</b>	<b>285</b>	800	63.7	179	309	224	284
502.gcc_r	32	889	51.0	172	287	193	250	880	51.5	171	288	194	248	<b>886</b>	<b>51.1</b>	<b>171</b>	<b>288</b>	<b>193</b>	<b>239</b>
505.mcf_r	32	<b>1491</b>	<b>34.7</b>	<b>290</b>	<b>195</b>	<b>194</b>	<b>271</b>	1489	34.7	289	196	194	273	1509	34.3	293	193	194	272
520.omnetpp_r	32	1152	36.4	212	215	184	195	1146	36.6	211	215	185	193	<b>1146</b>	<b>36.6</b>	<b>211</b>	<b>216</b>	<b>184</b>	<b>192</b>
523.xalancbmk_r	32	812	41.6	168	218	206	296	<b>809</b>	<b>41.8</b>	<b>169</b>	<b>216</b>	<b>209</b>	<b>296</b>	807	41.9	167	219	207	294
525.x264_r	32	<b>528</b>	<b>106</b>	<b>98.1</b>	<b>619</b>	<b>186</b>	<b>205</b>	527	106	98.2	619	186	205	533	105	98.7	615	185	203
531.deepsjeng_r	32	484	75.7	101	394	209	269	<b>484</b>	<b>75.7</b>	<b>101</b>	<b>394</b>	<b>209</b>	<b>275</b>	491	74.7	101	394	206	260
541.leela_r	32	<b>650</b>	<b>81.6</b>	<b>131</b>	<b>437</b>	<b>202</b>	<b>237</b>	650	81.5	131	438	202	245	649	81.7	134	427	207	255
548.exchange2_r	32	370	227	104	873	281	293	<b>370</b>	<b>227</b>	<b>104</b>	<b>877</b>	<b>280</b>	<b>294</b>	370	227	103	880	279	293
557.xz_r	32	782	44.2	149	252	191	248	<b>783</b>	<b>44.2</b>	<b>149</b>	<b>252</b>	<b>191</b>	<b>243</b>	783	44.2	149	252	191	239

SPECrate®2017\_int\_peak = 63.9

SPECrate®2017\_int\_energy\_peak = 338

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

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## Platform Notes (Continued)

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on emag Fri Feb 27 18:49:45 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-lubuntu8.8)
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  
18:49:45 up 70 days, 19:14, 2 users, load average: 2.03, 9.95, 13.63  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
mjm 10.13.114.186 28Jan26 36:39m 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  
vmemory(kbytes) unlimited

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## Platform Notes (Continued)

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 32 intrate  
runcpu --flagsurl \$SPEC/gcc.2024-08-14.xml --reportable --configfile emag-Ofast-gcc15 --tune base,peak --iterations 3 --copies 32 --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv --logfile \$SPEC/tmp/CPU2017.093/templogs/preenv.intrate.093.0.log --lognum 093.0 --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  
Vulnerability Meltdown: Mitigation; PTI

(Continued on next page)



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## Platform Notes (Continued)

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: 101255 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-lubuntu8.8)

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-sysextr systemd-time-wait-sync
generated	openipmi perlbld
indirect	serial-getty@ systemd-sysupdate systemd-sysupdate-reboot uuid

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## Platform Notes (Continued)

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+madvice [madvice] never
enabled always [madvice] 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

```
SPEC is set to: /home/mjm/cpu2017
```

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## Platform Notes (Continued)

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda2	ext4	439G	292G	124G	71%	/

```
-----
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.xalanbmk_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.
-----
```

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# 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 = 61.4  
SPECrate®2017\_int\_energy\_base = 323  
SPECrate®2017\_int\_peak = 63.9  
SPECrate®2017\_int\_energy\_peak = 338

**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

## Compiler Version Notes (Continued)

=====  
Fortran | 548.exchange2\_r(base, peak)  
=====

GNU Fortran (GCC) 15.2.0  
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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

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## 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:

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**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

## Peak Optimization Flags (Continued)

```
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>



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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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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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