



SPEC CPU®2026 Floating Point Speed Result

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

SPECSpeed®2026_fp_base = 1.00
SPECSpeed®2026_fp_energy_base = 1.00
SPECSpeed®2026_fp_peak = 1.04
SPECSpeed®2026_fp_energy_peak = 1.02

CPU2026 License: 6412

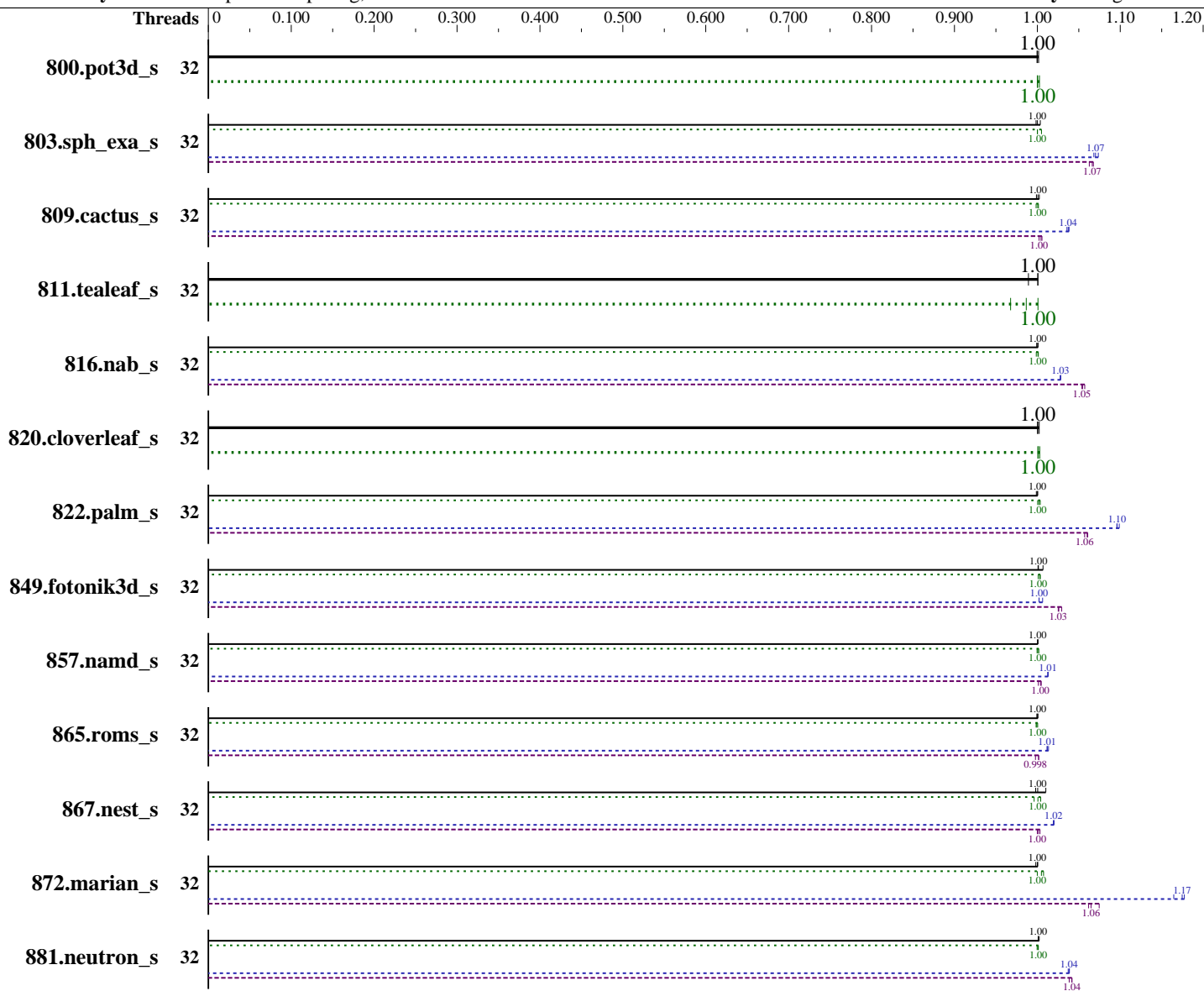
Test Sponsor: Ampere Computing, Inc.

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

(Continued on next page)

Software

OS: Ubuntu 24.04.1 LTS kernel 6.8.0 (64KB pages)
Compiler: C/C++/Fortran: Version 15.2.0 of GCC
Compiler Category: Community
Firmware: Version 1.12 released Nov-2019
File System: ext4

(Continued on next page)



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Hardware (Continued)

Cache L1: 32 KB I + 32 KB D on chip per core
L2: 4 MB I+D on chip per chip (256 KB 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
Cooling: Air
Other: None

Software (Continued)

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"

Power

Max. Power (W): 299.15
Idle Power (W): 76.7
Min. Temperature (C): 20.81
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: WT-310
Serial Number: T11733285
Input Connection: Serial over USB
Metrology Institute: NIST
Calibration By: Yokogawa USA
Calibration Label: T126622
Calibration Date: 13-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



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Base Results Table

Benchmark	Threads	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
800.pot3d_s	32	673	1.00	126	1.00	187	196	673	1.00	126	1.00	187	193	672	1.00	126	1.00	187	195
803.sph_exa_s	32	1238	1.00	209	1.00	169	212	1240	0.998	209	1.00	169	212	1234	1.00	208	1.00	169	213
809.cactus_s	32	1123	0.999	203	0.999	181	213	1121	1.00	202	1.00	181	213	1119	1.00	202	1.00	181	214
811.tealeaf_s	32	557	1.00	140	1.00	251	299	563	0.989	144	0.968	256	297	557	1.00	142	0.987	254	299
816.nab_s	32	1126	1.00	193	1.00	171	183	1127	0.999	193	0.999	172	183	1125	1.00	193	1.00	171	182
820.cloverleaf_s	32	857	1.00	166	1.00	194	230	855	1.00	166	1.00	194	227	857	1.00	166	1.00	194	230
822.palm_s	32	1229	0.999	207	1.00	168	221	1228	1.00	207	1.00	168	225	1228	1.00	207	1.00	169	221
849.fotonik3d_s	32	659	1.00	123	1.00	186	203	659	1.00	123	1.00	187	204	656	1.01	123	1.00	187	204
857.namd_s	32	1451	1.00	265	1.00	183	220	1451	1.00	266	1.00	183	224	1451	1.00	266	1.00	183	219
865.roms_s	32	1089	1.00	232	0.998	213	246	1090	1.00	231	1.00	212	249	1091	0.999	232	0.999	212	235
867.nest_s	32	2159	1.00	386	1.00	179	280	2138	1.01	385	1.00	180	285	2164	0.998	388	0.996	179	268
872.marian_s	32	1081	1.00	160	1.01	148	221	1082	1.00	161	1.00	149	233	1084	0.998	161	1.00	148	222
881.neutron_s	32	814	1.00	132	1.00	162	238	814	1.00	131	1.00	161	221	813	1.00	132	1.00	162	224

SPECSpeed®2026_fp_base = **1.00**

SPECSpeed®2026_fp_energy_base = **1.00**

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

Peak Results Table

Benchmark	Threads	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
800.pot3d_s	32	673	1.00	126	1.00	187	196	673	1.00	126	1.00	187	193	672	1.00	126	1.00	187	195
803.sph_exa_s	32	1153	1.07	196	1.07	170	215	1159	1.07	197	1.06	170	215	1157	1.07	196	1.07	170	215
809.cactus_s	32	1082	1.04	202	1.00	187	222	1081	1.04	201	1.01	186	222	1083	1.04	202	1.00	186	218
811.tealeaf_s	32	557	1.00	140	1.00	251	299	563	0.989	144	0.968	256	297	557	1.00	142	0.987	254	299
816.nab_s	32	1095	1.03	183	1.05	167	182	1096	1.03	183	1.05	167	184	1095	1.03	183	1.06	167	178
820.cloverleaf_s	32	857	1.00	166	1.00	194	230	855	1.00	166	1.00	194	227	857	1.00	166	1.00	194	230
822.palm_s	32	1120	1.10	196	1.06	175	224	1118	1.10	196	1.06	175	220	1120	1.10	196	1.06	175	220
849.fotonik3d_s	32	659	1.00	120	1.03	183	201	656	1.01	120	1.03	183	201	659	1.00	120	1.03	182	201
857.namd_s	32	1433	1.01	265	1.00	185	228	1434	1.01	265	1.00	185	235	1434	1.01	264	1.00	184	218
865.roms_s	32	1077	1.01	232	0.998	215	260	1077	1.01	231	1.00	215	248	1076	1.01	231	1.00	215	258
867.nest_s	32	2117	1.02	386	1.00	182	279	2119	1.02	385	1.00	182	267	2118	1.02	387	1.00	183	272
872.marian_s	32	929	1.16	152	1.06	164	261	921	1.17	152	1.06	164	272	919	1.18	150	1.07	163	242
881.neutron_s	32	786	1.04	127	1.04	161	230	785	1.04	126	1.04	161	230	785	1.04	126	1.04	161	230

SPECSpeed®2026_fp_peak = **1.04**

SPECSpeed®2026_fp_energy_peak = **1.02**

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

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"

OMP_STACKSIZE = "120M"

General Notes

jemalloc is a general purpose malloc(3) implementation that emphasizes fragmentation avoidance and scalable concurrency support.

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General Notes (Continued)

sources available from <https://github.com/jemalloc/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/RC2/bin/sysinfo
Rev: 779ab21020787073335a329f3a45e2cd
running on emag Sat Feb 21 05:13:15 2026

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

Table of contents

1. `uname -srvm`
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`

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Platform Notes (Continued)

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 -srv`
Linux 6.8.0 #1 SMP PREEMPT_DYNAMIC Fri Feb 28 00:25:30 UTC 2025 aarch64

2. `w`
05:13:15 up 64 days, 5:38, 2 users, load average: 1.45, 14.34, 24.62
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
mjm 10.13.114.186 28Jan26 23:10m 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
locks unlimited
rtprio 0

5. `sysinfo process ancestry`
/usr/lib/systemd/systemd --system --deserialize=66
SCREEN
-bin/tcsh
runcpu --flagsurl=\$SPEC/config/flags/gcc.xml -c emag-golden --reportable -n 3 --tune=base,peak --power
fpspeed

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Platform Notes (Continued)

```
runcpu --flagsurl $SPEC/config/flags/gcc.xml --configfile emag-golden --reportable --iterations 3 --tune
base,peak --power --runmode speed --tune base:peak --size refspeed fpspeed --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.067/templogs/preenv.fpspeed.067.0.log --lognum 067.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo -f
$SPEC = /home/mjm/RC2
```

```
-----
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
```

(Continued on next page)



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Platform Notes (Continued)

Vulnerability Mds:	Not affected
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: 104553 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 appport blk-availability cloud-config cloud-final cloud-init

(Continued on next page)



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Platform Notes (Continued)

```

cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ grub-common
grub-initrtd-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 vgaauth
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
indirect serial-getty@ systemd-sysupdate systemd-sysupdate-reboot uuid
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

```

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Platform Notes (Continued)

```
-----
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/RC2
  Filesystem      Type  Size  Used Avail Use% Mounted on
  /dev/sda2       ext4  439G  184G  232G  45% /
-----
```

```
-----
19. /sys/devices/virtual/dmi/id
   Vendor:          Lenovo
   Product:         HR330A          7X33CT01WW
   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
-----
```

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Platform Notes (Continued)

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 | 811.tealeaf_s(base, peak) 816.nab_s(base, peak) 881.neutron_s(base, peak)
peak)

gcc (GCC) 15.2.0
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

=====
C++ | 803.sph_exa_s(base, peak) 857.namd_s(base, peak) 867.nest_s(base, peak)
peak) 872.marian_s(base, peak)

g++ (GCC) 15.2.0
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=====
C++, C | 809.cactus_s(base pass 0, peak pass 1, peak pass 2)

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SPEC CPU®2026 Floating Point Speed Result

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Lenovo Global Technology

(Test Sponsor: Ampere Computing, Inc.)

ThinkSystem HR330A

(3.00 GHz Ampere eMAG 8180)

SPECspeed®2026_fp_base = 1.00

SPECspeed®2026_fp_energy_base = 1.00

SPECspeed®2026_fp_peak = 1.04

SPECspeed®2026_fp_energy_peak = 1.02

CPU2026 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)

=====
C++, C | 809.cactus_s(base pass 0, peak pass 1, peak pass 2)

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=====
Fortran | 800.pot3d_s(base, peak) 820.cloverleaf_s(base, peak)
| 822.palm_s(base, peak) 849.fotonik3d_s(base, peak) 865.roms_s(base,
peak)

GNU Fortran (GCC) 15.2.0
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Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both C and C++:

g++ gcc

Base Portability Flags

800.pot3d_s: -DSPEC_SUPPRESS_LOCAL_AND_REDUCE -DSPEC_LP64
803.sph_exa_s: -DSPEC_LP64
809.cactus_s: -DSPEC_LP64
811.tealeaf_s: -DSPEC_LP64
816.nab_s: -DSPEC_LP64
820.cloverleaf_s: -DSPEC_LP64
822.palm_s: -DSPEC_LP64
849.fotonik3d_s: -DSPEC_LP64
857.namd_s: -DSPEC_LP64
865.roms_s: -DSPEC_LP64
867.nest_s: -fno-finite-math-only -DSPEC_LP64
872.marian_s: -DSPEC_LP64
881.neutron_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-mabi=lp64 -std=c18 -g -O3 -ffast-math -mcpu=native -flto=16
-fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib -ljemalloc

C++ benchmarks:

803.sph_exa_s: -mabi=lp64 -std=c++17 -g -O3 -ffast-math -mcpu=native
-flto=16 -fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib
-ljemalloc

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SPECSpeed®2026_fp_peak = 1.04

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CPU2026 License: 6412

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Test Date: Feb-2026

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Software Availability: Aug-2025

Base Optimization Flags (Continued)

857.namd_s: Same as 803.sph_exa_s

867.nest_s: Same as 803.sph_exa_s

872.marian_s: -mabi=lp64 -std=c++17 -g -O3 -ffast-math -mcpu=native
-flto=16 -pthread -L/home/mjm/jemalloc/lib -ljemalloc

Fortran benchmarks:

800.pot3d_s: -mabi=lp64 -std=f2018 -g -O3 -ffast-math -mcpu=native
-flto=16 -fallow-argument-mismatch
-ftree-parallelize-loops=32 -L/home/mjm/jemalloc/lib
-ljemalloc

820.cloverleaf_s: -mabi=lp64 -std=f2018 -g -O3 -ffast-math -mcpu=native
-flto=16 -fallow-argument-mismatch -DSPEC_OPENMP
-fopenmp -L/home/mjm/jemalloc/lib -ljemalloc

822.palm_s: Same as 820.cloverleaf_s

849.fotonik3d_s: Same as 820.cloverleaf_s

865.roms_s: Same as 820.cloverleaf_s

Benchmarks using both C and C++:

-mabi=lp64 -std=c++17 -std=c18 -g -O3 -ffast-math -mcpu=native
-flto=16 -fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib -ljemalloc

Peak Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

(Continued on next page)



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CPU2026 License: 6412

Test Sponsor: Ampere Computing, Inc.

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Test Date: Feb-2026

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Software Availability: Aug-2025

Peak Compiler Invocation (Continued)

Benchmarks using both C and C++:

g++ gcc

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

811.tealeaf_s: basepeak = yes

816.nab_s: -mabi=lp64 -std=c18 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib -ljemalloc

881.neutron_s: Same as 816.nab_s

C++ benchmarks:

803.sph_exa_s: -mabi=lp64 -std=c++17 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib -ljemalloc

857.namd_s: Same as 803.sph_exa_s

867.nest_s: Same as 803.sph_exa_s

872.marian_s: -mabi=lp64 -std=c++17 -fprofile-generate -fprofile-use -g -Ofast -mcpu=native -flto=16 -pthread -L/home/mjm/jemalloc/lib -ljemalloc

Fortran benchmarks:

800.pot3d_s: basepeak = yes

820.cloverleaf_s: basepeak = yes

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Peak Optimization Flags (Continued)

822.palm_s: -mabi=lp64 -std=f2018 -fprofile-generate -fprofile-use
-g -Ofast -mcpu=native -flto=16
-fallow-argument-mismatch -DSPEC_OPENMP -fopenmp
-L/home/mjm/jemalloc/lib -ljemalloc

849.fotonik3d_s: Same as 822.palm_s

865.roms_s: Same as 822.palm_s

Benchmarks using both C and C++:

-mabi=lp64 -std=c++17 -std=c18 -fprofile-generate -fprofile-use -g
-Ofast -mcpu=native -flto=16 -fopenmp -DSPEC_OPENMP
-L/home/mjm/jemalloc/lib -ljemalloc

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.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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