



SPEC CPU®2026 Floating Point Rate Result

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

SPECrate®2026_fp_base = 22.4
SPECrate®2026_fp_energy_base = 9.02
SPECrate®2026_fp_peak = 23.1
SPECrate®2026_fp_energy_peak = 9.24

CPU2026 License: 6412

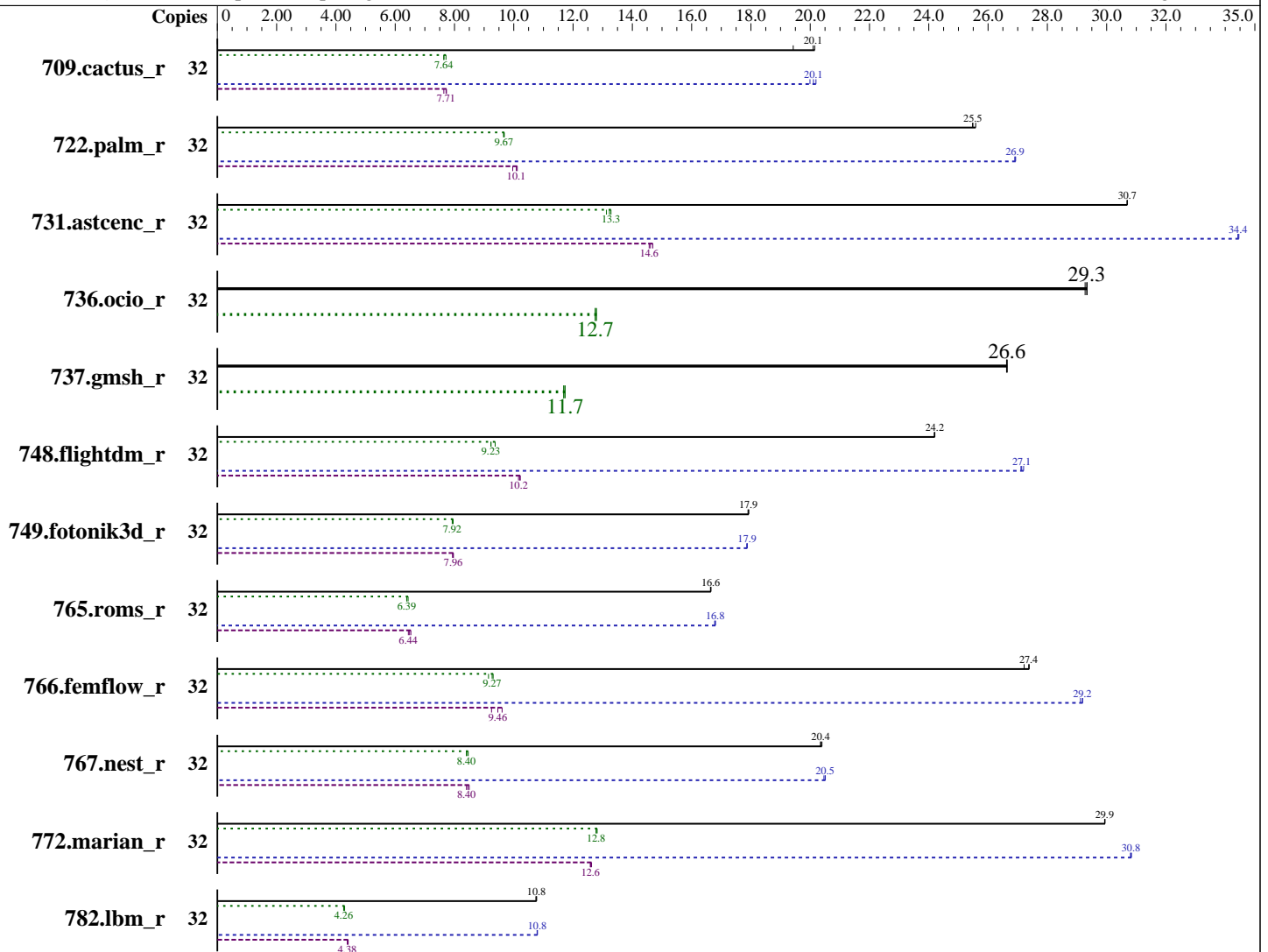
Test Sponsor: Ampere Computing, Inc.

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
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)

(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
System State: Run level 5 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit

(Continued on next page)



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Hardware (Continued)

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)

Other: jemalloc v5.3+, commit hash 1972241
Power Management: OS CPU governor set to "performance"

Power

Max. Power (W): 300.09
Idle Power (W): 77.68
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

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
709.cactus_r	32	1366	20.1	305	7.64	224	277	1413	19.4	305	7.64	216	277	1362	20.2	303	7.71	222	277

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.



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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
722.palm_r	32	1651	25.6	370	9.68	224	265	1657	25.5	371	9.67	224	272	1658	25.5	371	9.65	224	281
731.ascenc_r	32	876	30.7	171	13.1	195	217	876	30.7	169	13.2	194	210	876	30.7	169	13.3	193	214
736.ocio_r	32	957	29.3	184	12.8	192	277	954	29.3	183	12.8	192	289	955	29.3	184	12.7	193	292
737.gmsh_r	32	551	26.6	105	11.7	191	266	552	26.6	105	11.7	191	259	551	26.6	105	11.7	190	250
748.flightdm_r	32	947	24.2	205	9.37	217	271	947	24.2	208	9.23	220	271	947	24.2	209	9.23	220	272
749.fotonik3d_r	32	2065	17.9	399	7.92	193	198	2063	17.9	397	7.95	192	198	2066	17.9	398	7.94	193	198
765.roms_r	32	3030	16.6	685	6.44	226	286	3027	16.7	689	6.39	228	281	3028	16.6	690	6.39	228	272
766.femflow_r	32	1725	27.2	435	9.15	252	298	1714	27.4	427	9.30	249	300	1715	27.4	429	9.27	250	296
767.nest_r	32	1247	20.3	251	8.41	202	240	1244	20.4	250	8.46	201	236	1247	20.4	252	8.40	202	242
772.marian_r	32	1687	29.9	331	12.8	196	248	1688	29.9	332	12.8	197	227	1688	29.9	332	12.8	197	243
782.lbm_r	32	1706	10.7	382	4.27	224	247	1703	10.8	380	4.29	223	254	1703	10.8	383	4.26	225	253

SPECrate®2026_fp_base = 22.4

SPECrate®2026_fp_energy_base = 9.02

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

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
709.cactus_r	32	1365	20.1	303	7.71	222	277	1360	20.2	302	7.73	222	278	1373	20.0	305	7.64	222	280
722.palm_r	32	1570	26.9	354	10.1	226	281	1569	26.9	360	9.96	229	280	1570	26.9	356	10.1	227	280
731.ascenc_r	32	781	34.4	153	14.6	197	227	781	34.4	154	14.6	197	231	780	34.5	153	14.7	196	227
736.ocio_r	32	957	29.3	184	12.8	192	277	954	29.3	183	12.8	192	289	955	29.3	184	12.7	193	292
737.gmsh_r	32	551	26.6	105	11.7	191	266	552	26.6	105	11.7	191	259	551	26.6	105	11.7	190	250
748.flightdm_r	32	844	27.1	189	10.2	224	273	845	27.1	189	10.2	223	271	842	27.2	188	10.2	224	273
749.fotonik3d_r	32	2069	17.9	397	7.96	192	198	2069	17.9	397	7.96	192	198	2071	17.9	398	7.93	192	199
765.roms_r	32	3001	16.8	684	6.44	228	280	3000	16.8	675	6.53	225	284	3004	16.8	679	6.48	226	281
766.femflow_r	32	1612	29.1	414	9.61	257	297	1608	29.2	430	9.25	267	297	1609	29.2	420	9.46	261	296
767.nest_r	32	1238	20.5	252	8.40	203	250	1237	20.5	250	8.45	202	238	1240	20.5	249	8.50	201	236
772.marian_r	32	1640	30.8	337	12.6	206	233	1639	30.8	337	12.6	206	237	1639	30.8	336	12.6	205	228
782.lbm_r	32	1699	10.8	372	4.38	219	247	1698	10.8	370	4.41	218	259	1700	10.8	371	4.40	218	258

SPECrate®2026_fp_peak = 23.1

SPECrate®2026_fp_energy_peak = 9.24

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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"



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General Notes

jemalloc is a general purpose malloc(3) implementation that emphasizes fragmentation avoidance and scalable concurrency support.
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 Thu Feb 19 23:15:42 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`

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Platform Notes (Continued)

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

```
2. w
 23:15:42 up 62 days, 23:40,  4 users,  load average: 2.76, 14.68, 11.21
USER      TTY      FROM          LOGIN@      IDLE   JCPU   PCPU WHAT
mjm       10.13.114.186 28Jan26    2days    0.00s  0.02s sshd: mjm [priv]
mjm       10.12.32.223 23:13      2days    0.00s  0.03s sshd: mjm [priv]
mjm       10.12.32.223 23:14      2days    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
```

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Platform Notes (Continued)

```
SCREEN
-bin/tcsh
runcpu --flagsurl=$SPEC/config/flags/gcc.xml -c emag-golden --reportable -n 3 --tune=base,peak --power
fprate
runcpu --flagsurl $SPEC/config/flags/gcc.xml --configfile emag-golden --reportable --iterations 3 --tune
base,peak --power --runmode rate --tune base:peak --size refrate fprate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.066/templogs/preenv.fprate.066.0.log --lognum 066.0 --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
```

(Continued on next page)



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Platform Notes (Continued)

```

NUMA node0 CPU(s):                0-31
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit:      Not affected
Vulnerability Lltf:                Not affected
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: 110310 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

```

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Platform Notes (Continued)

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	ModemManager apparmor appport 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-sysex
generated	systemd-time-wait-sync
indirect	openipmi perlbld serial-getty@ systemd-sysupdate systemd-sysupdate-reboot uidd
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

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Platform Notes (Continued)

```

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
SPEC is set to: /home/mjm/RC2
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda2       ext4  439G  181G  236G  44% /

```

```

-----
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.

```

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Platform Notes (Continued)

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 | 782.lbm_r(base, peak)
```

gcc (GCC) 15.2.0

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```
C++ | 731.astcenc_r(base, peak) 736.ocio_r(base, peak)
    | 748.flightdm_r(base, peak) 766.femflow_r(base, peak)
    | 767.nest_r(base, peak) 772.marian_r(base, peak)
```

g++ (GCC) 15.2.0

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```
C++, C | 709.cactus_r(base pass 0, peak pass 1, peak pass 2) 737.gmsh_r(base
    | pass 0, peak pass 0)
```

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SPEC CPU®2026 Floating Point Rate Result

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Lenovo Global Technology

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ThinkSystem HR330A

(3.00 GHz Ampere eMAG 8180)

SPECrate®2026_fp_base = 22.4

SPECrate®2026_fp_energy_base = 9.02

SPECrate®2026_fp_peak = 23.1

SPECrate®2026_fp_energy_peak = 9.24

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)

```
-----
g++ (GCC) 15.2.0
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-----
```

```
=====
C++, C | 709.cactus_r(base pass 0, peak pass 1, peak pass 2) 737.gmsh_r(base
      | pass 0, peak pass 0)
-----
```

```
gcc (GCC) 15.2.0
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-----
```

```
=====
C++, C | 709.cactus_r(base pass 0, peak pass 1, peak pass 2) 737.gmsh_r(base
      | pass 0, peak pass 0)
-----
```

```
g++ (GCC) 15.2.0
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
-----
```

```
=====
C++, C | 709.cactus_r(base pass 0, peak pass 1, peak pass 2) 737.gmsh_r(base
      | pass 0, peak pass 0)
-----
```

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

```
=====
Fortran | 722.palm_r(base, peak) 749.fotonik3d_r(base, peak) 765.roms_r(base,
      | peak)
-----
```

```
GNU Fortran (GCC) 15.2.0
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-----
```

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Compiler Version Notes (Continued)

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both C and C++:

g++ gcc

Base Portability Flags

709.cactus_r: -DSPEC_LP64
722.palm_r: -DSPEC_LP64
731.ascenc_r: -DSPEC_LP64
736.ocio_r: -fno-finite-math-only -DSPEC_LP64
737.gmsh_r: -fno-fast-math -DSPEC_LP64
748.flightdm_r: -DSPEC_LP64
749.fotonik3d_r: -DSPEC_LP64
765.roms_r: -DSPEC_LP64
766.femflow_r: -DSPEC_LP64
767.nest_r: -fno-finite-math-only -DSPEC_LP64
772.marian_r: -DSPEC_LP64
782.lbm_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

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

C++ benchmarks:

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Base Optimization Flags (Continued)

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

736.ocio_r: Same as 731.astcenc_r

748.flightdm_r: Same as 731.astcenc_r

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

767.nest_r: Same as 731.astcenc_r

772.marian_r: Same as 766.femflow_r

Fortran benchmarks:

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

Benchmarks using both C and C++:

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

Peak Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both C and C++:

g++ gcc



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CPU2026 License: 6412

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Test Date: Feb-2026

Hardware Availability: Apr-2019

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Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
-mabi=lp64 -std=c18 -fprofile-generate -fprofile-use -g -Ofast
-mcpu=native -flto=16 -L/home/mjm/jemalloc/lib -ljemalloc
```

C++ benchmarks:

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

736.ocio_r: basepeak = yes

748.flightdm_r: Same as 731.astcenc_r

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

767.nest_r: Same as 731.astcenc_r

772.marian_r: Same as 766.femflow_r

Fortran benchmarks:

```
-mabi=lp64 -std=f2018 -fprofile-generate -fprofile-use -g -Ofast
-mcpu=native -flto=16 -fallow-argument-mismatch
-L/home/mjm/jemalloc/lib -ljemalloc
```

Benchmarks using both C and C++:

```
709.cactus_r: -mabi=lp64 -std=c++17 -std=c18 -fprofile-generate
-fprofile-use -g -Ofast -mcpu=native -flto=16
-L/home/mjm/jemalloc/lib -ljemalloc
```

737.gmsh_r: basepeak = yes



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Test Date: Feb-2026
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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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Tested with SPEC CPU®2026 v0.903.0 on 2026-02-19 18:15:40-0500.
Report generated on 2026-05-04 23:26:24 by CPU2026 PDF formatter (unknown).
Originally published on 2026-05-05.