SPEC CPU®2017 Integer Speed Result

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Lenovo Global Technology

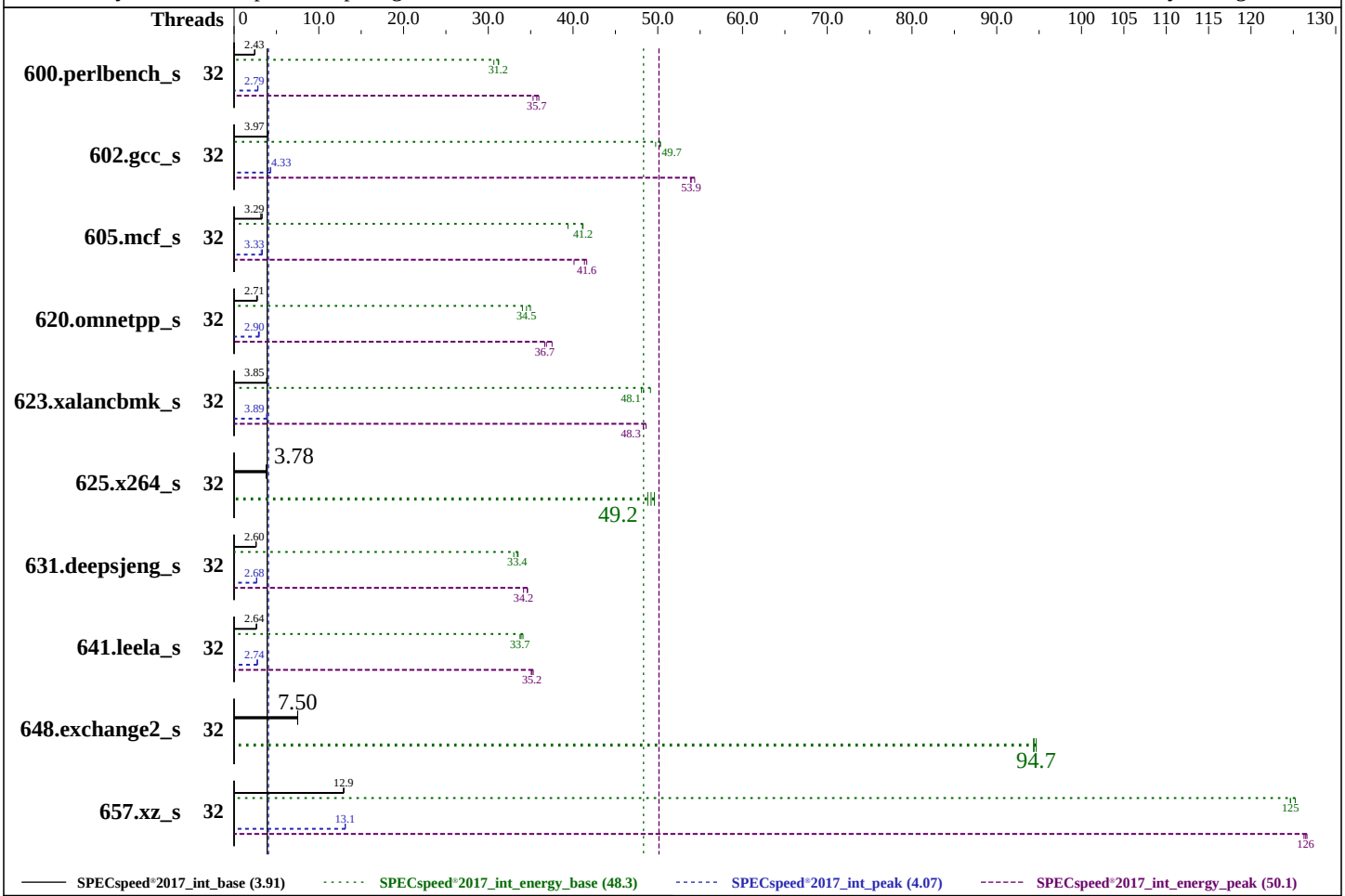
(Test Sponsor: Ampere Computing, Inc.)

ThinkSystem HR330A
(3.00 GHz Ampere eMAG 8180)

SPECspeed®2017_int_base =	3.91
SPECspeed®2017_int_energy_base =	48.3
SPECspeed®2017_int_peak =	4.07
SPECspeed®2017_int_energy_peak =	50.1

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

Test Date: Mar-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:	Yes
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): 187.74
Idle Power (W): 77.53
Min. Temperature (C): 21.06
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	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
600.perlbench_s	32	**729**	**2.43**	**61.8**	**31.2**	**84.7**	**88.6**	723	2.45	61.7	31.2	85.3	87.8	731	2.43	62.8	30.7	85.9	88.0
602.gcc_s	32	**1003**	**3.97**	**87.0**	**49.7**	**86.8**	**92.2**	988	4.03	86.1	50.3	87.1	92.2	1006	3.96	86.0	50.3	85.5	90.0
605.mcf_s	32	1498	3.15	131	39.4	87.3	91.9	**1434**	**3.29**	**125**	**41.2**	**87.2**	**92.3**	1432	3.30	125	41.1	87.5	93.3
620.omnetpp_s	32	613	2.66	52.1	34.0	85.1	87.8	593	2.75	50.7	35.0	85.6	87.4	**601**	**2.71**	**51.4**	**34.5**	**85.5**	**88.4**
623.xalancbmk_s	32	363	3.91	31.3	49.1	86.3	90.6	369	3.84	31.8	48.3	86.4	90.0	**368**	**3.85**	**32.0**	**48.1**	**87.0**	**90.5**
625.x264_s	32	463	3.81	38.7	49.6	83.5	85.9	467	3.78	39.3	48.8	84.2	87.2	**466**	**3.78**	**39.0**	**49.2**	**83.6**	**86.3**
631.deepsjeng_s	32	551	2.60	46.5	33.5	84.4	93.9	554	2.58	47.2	33.0	85.1	94.5	**551**	**2.60**	**46.6**	**33.4**	**84.5**	**92.9**
641.leela_s	32	646	2.64	54.2	34.1	83.9	86.6	**646**	**2.64**	**54.8**	**33.7**	**84.8**	**88.0**	645	2.64	54.6	33.9	84.5	87.0
648.exchange2_s	32	392	7.50	33.9	94.4	86.5	88.9	392	7.51	33.9	94.3	86.6	88.8	**392**	**7.50**	**33.8**	**94.7**	**86.2**	**87.6**
657.xz_s	32	478	12.9	54.0	125	113	187	477	13.0	53.8	125	113	187	**478**	**12.9**	**54.0**	**125**	**113**	**187**

SPECspeed®2017_int_base = 3.91

SPECspeed®2017_int_energy_base = 48.3

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

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SPECspeed®2017_int_energy_peak =	50.1

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

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

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
600.perlbench_s	32	638	2.78	54.6	35.3	85.6	87.6	629	2.82	53.5	36.0	85.1	88.5	**636**	**2.79**	**53.9**	**35.7**	**84.8**	**87.8**
602.gcc_s	32	**920**	**4.33**	**80.2**	**53.9**	**87.2**	**92.3**	920	4.33	79.6	54.4	86.5	91.7	927	4.30	80.3	53.9	86.7	92.4
605.mcf_s	32	1410	3.35	125	41.3	88.4	93.4	1472	3.21	128	40.1	87.2	97.0	**1416**	**3.33**	**124**	**41.6**	**87.4**	**97.1**
620.omnetpp_s	32	**562**	**2.90**	**48.4**	**36.7**	**86.1**	**87.9**	566	2.88	48.1	36.9	85.1	88.3	548	2.98	47.3	37.5	86.3	96.7
623.xalancbmk_s	32	370	3.83	31.9	48.3	86.2	89.3	**364**	**3.89**	**31.9**	**48.3**	**87.5**	**91.0**	363	3.90	31.7	48.6	87.1	89.9
625.x264_s	32	463	3.81	38.7	49.6	83.5	85.9	467	3.78	39.3	48.8	84.2	87.2	**466**	**3.78**	**39.0**	**49.2**	**83.6**	**86.3**
631.deepsjeng_s	32	**535**	**2.68**	**45.6**	**34.2**	**85.2**	**90.7**	535	2.68	45.0	34.6	84.1	92.5	540	2.65	45.0	34.6	83.3	89.0
641.leela_s	32	622	2.74	52.7	35.1	84.7	87.3	**623**	**2.74**	**52.6**	**35.2**	**84.4**	**86.5**	623	2.74	52.3	35.3	83.9	86.9
648.exchange2_s	32	392	7.50	33.9	94.4	86.5	88.9	392	7.51	33.9	94.3	86.6	88.8	**392**	**7.50**	**33.8**	**94.7**	**86.2**	**87.6**
657.xz_s	32	**472**	**13.1**	**53.2**	**126**	**113**	**187**	472	13.1	53.3	126	113	188	470	13.1	53.2	127	113	187

SPECspeed®2017_int_peak = 4.07

SPECspeed®2017_int_energy_peak = 50.1

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"
```

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
 Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
 running on emag Tue Mar  3 17:45:24 2026

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

 ------------------------------------------------------------
```

(Continued on next page)

Platform Notes (Continued)

```
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
   17:45:24 up 74 days, 18:10,  2 users,  load average: 1.18, 12.19, 23.29
  USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
  mjm              10.13.114.186    28Jan26  3days  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
```

(Continued on next page)

Platform Notes (Continued)

```
 SCREEN
 -bin/tcsh
 runcpu --flagsurl=$SPEC/gcc.2024-08-14.xml --reportable -c emag-Ofast-gcc15 --tune=base,peak -n 3 --threads
   32 intspeed
 runcpu --flagsurl $SPEC/gcc.2024-08-14.xml --reportable --configfile emag-Ofast-gcc15 --tune base,peak
   --iterations 3 --threads 32 --runmode speed --tune base:peak --size refspeed intspeed --nopreenv
   --note-preenv --logfile $SPEC/tmp/CPU2017.097/templogs/preenv.intspeed.097.0.log --lognum 097.0
   --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
  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
```

(Continued on next page)

Platform Notes (Continued)

```
  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: 77282 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
  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
```

(Continued on next page)

Platform Notes (Continued)

```
  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
SPEC is set to: /home/mjm/cpu2017
  Filesystem     Type  Size  Used Avail Use% Mounted on
  /dev/sda2      ext4  439G  309G  108G  75% /

------------------------------------------------------------
19. /sys/devices/virtual/dmi/id
```

(Continued on next page)

Platform Notes (Continued)

```
     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       | 600.perlbench_s(base, peak) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak)
        | 657.xz_s(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++     | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak)
        | 641.leela_s(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.
--------------------------------------------------------------------------------------------------------------

==============================================================================================================
Fortran | 648.exchange2_s(base, peak)
--------------------------------------------------------------------------------------------------------------
GNU Fortran (GCC) 15.2.0
Copyright (C) 2025 Free Software Foundation, Inc.
```

(Continued on next page)

Compiler Version Notes (Continued)

```
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

600.perlbench_s: -DSPEC_LINUX_AARCH64 -DSPEC_LP64
602.gcc_s: -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalancbmk_s: -DSPEC_LINUX -DSPEC_LP64
625.x264_s: -DSPEC_LP64
631.deepsjeng_s: -DSPEC_LP64
641.leela_s: -DSPEC_LP64
648.exchange2_s: -DSPEC_LP64
657.xz_s: -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 -fopenmp -DSPEC_OPENMP
-L/home/mjm/jemalloc/lib -ljemalloc

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

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Base Optimization Flags (Continued)

Fortran benchmarks:
-mabi=lp64 -g -Ofast -mcpu=native -flto=16 -DSPEC_OPENMP -fopenmp
-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:

600.perlbench_s: -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
-fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib

(Continued on next page)

Peak Optimization Flags (Continued)

600.perlbench_s (continued):
-ljemalloc

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

605.mcf_s: -mabi=lp64 -std=c99 -fprofile-generate -fprofile-use -g
-Ofast -mcpu=native -flto=16 -fno-strict-aliasing
-fopenmp -DSPEC_OPENMP -L/home/mjm/jemalloc/lib
-ljemalloc

625.x264_s: basepeak = yes

657.xz_s: -mabi=lp64 -std=c99 -fprofile-generate -fprofile-use -g
-Ofast -mcpu=native -flto=16 -fopenmp -DSPEC_OPENMP
-L/home/mjm/jemalloc/lib -ljemalloc

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

Fortran benchmarks:

648.exchange2_s: basepeak = yes

Peak Other Flags

C benchmarks:

625.x264_s: -fcommon

C++ benchmarks:

623.xalancbmk_s: -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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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2017 v1.1.9 on 2026-03-03 12:45:22-0500.
Report generated on 2026-04-28 13:16:51 by CPU2017 PS formatter v6716.
Originally published on 2026-04-28.