SPEC® CINT2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

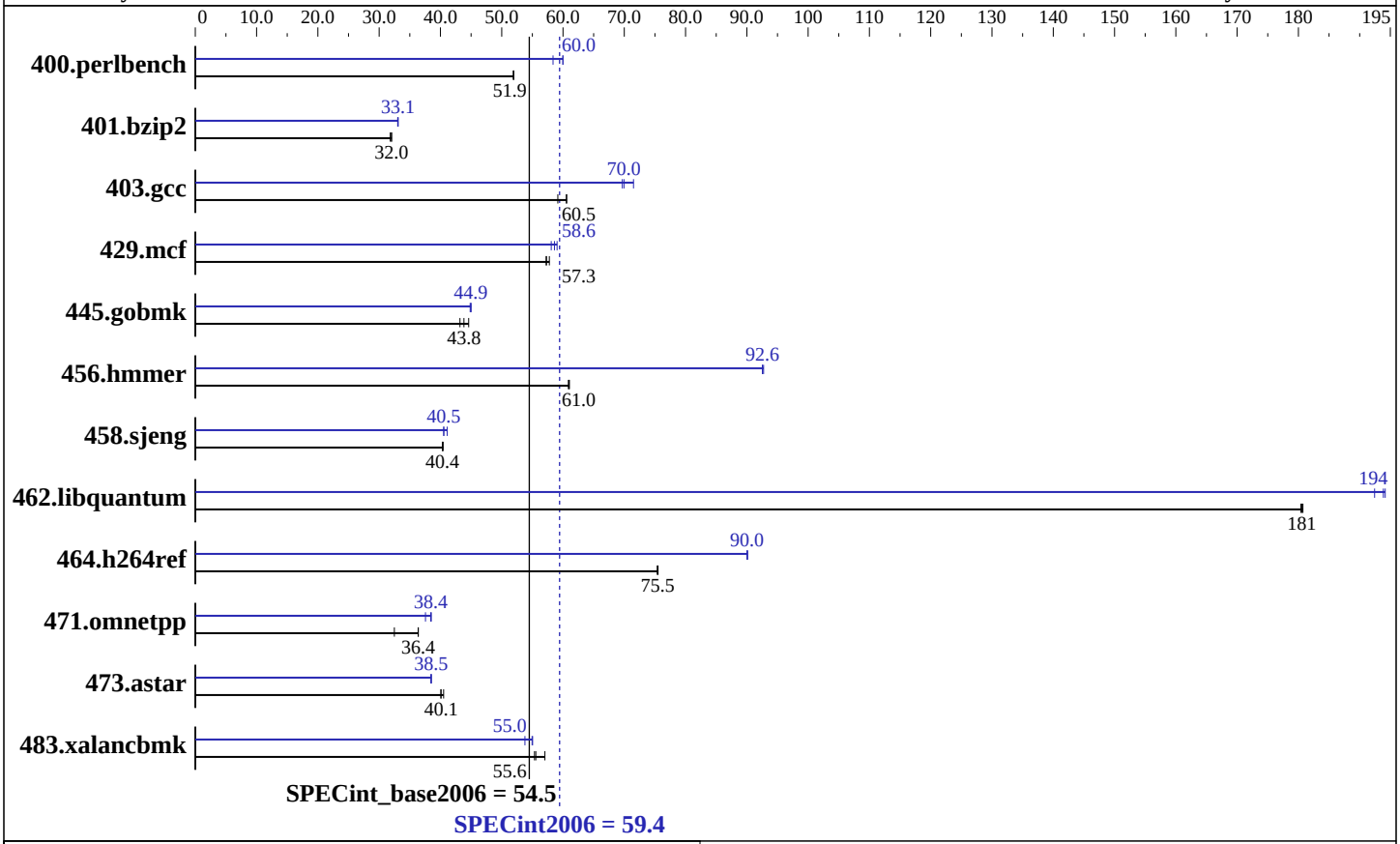
Azure Standard D64ps v6

SPECint®2006 = 59.4

SPECint_base2006 = 54.5

CPU2006 license: 3939
Test sponsor: Kenji Mouri
Tested by: Misaki

Test date: Feb-2026
Hardware Availability: Feb-2026
Software Availability: Jan-2026



Hardware

CPU Name:	Azure Cobalt 100
CPU Characteristics:	Neoverse-N2 @ 3.4GHz
CPU MHz:	3400
FPU:	Integrated
CPU(s) enabled:	64 cores, 1 chip, 64 cores/chip
CPU(s) orderable:	1 chips
Primary Cache:	4 MB I + 4 MB D on chip per core
Secondary Cache:	64 MB I+D on chip per core
L3 Cache:	128 MB
Other Cache:	None
Memory:	256 GB
Disk Subsystem:	256 GB Premium SSD
Other Hardware:	None

Software

Operating System:	Debian GNU/Linux 12 (bookworm) 6.1.0-42-cloud-arm64
Compiler:	C/C++/Fortran: Version 12.2.0 of GCC, the GNU Compiler Collection
Auto Parallel:	No
File System:	ext4
System State:	Run level 3 (multi-user)
Base Pointers:	64-bit
Peak Pointers:	64-bit
Other Software:	None

SPEC CINT2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

Azure Standard D64ps v6

SPECint2006 = 59.4

SPECint_base2006 = 54.5

CPU2006 license: 3939
Test sponsor: Kenji Mouri
Tested by: Misaki

Test date: Feb-2026
Hardware Availability: Feb-2026
Software Availability: Jan-2026

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	188	51.9	188	52.0	**188**	**51.9**	**163**	**60.0**	167	58.4	163	60.0
401.bzip2	301	32.0	**302**	**32.0**	303	31.8	**292**	**33.1**	291	33.1	292	33.0
403.gcc	133	60.6	**133**	**60.5**	136	59.2	116	69.7	113	71.5	**115**	**70.0**
429.mcf	**159**	**57.3**	158	57.8	159	57.3	154	59.0	157	58.1	**156**	**58.6**
445.gobmk	243	43.2	235	44.6	**239**	**43.8**	234	44.9	233	45.0	**233**	**44.9**
456.hmmer	**153**	**61.0**	153	61.0	153	60.9	**101**	**92.6**	101	92.5	101	92.7
458.sjeng	300	40.3	299	40.4	**300**	**40.4**	**298**	**40.5**	298	40.5	294	41.1
462.libquantum	**115**	**181**	115	180	115	181	108	192	**107**	**194**	107	194
464.h264ref	**293**	**75.5**	294	75.4	293	75.5	246	90.0	246	90.1	**246**	**90.0**
471.omnetpp	**172**	**36.4**	172	36.4	192	32.5	162	38.5	**163**	**38.4**	166	37.6
473.astar	175	40.1	173	40.5	**175**	**40.1**	183	38.5	**182**	**38.5**	182	38.5
483.xalancbmk	**124**	**55.6**	121	57.0	125	55.3	128	53.8	125	55.0	**126**	**55.0**

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

Platform Notes

```
Sysinfo program /home/misaki/Library/cpu2006/Docs/sysinfo.new
Revision 6993 of 2015-11-06 (b5e8d4b4eb51ed28d7f98696cbe290c1)
running on HimiMisakiBenchmarkARM64 Mon Feb  9 13:28:00 2026

This section contains SUT (System Under Test) info as seen by
some common utilities.  To remove or add to this section, see:
  http://www.spec.org/cpu2006/Docs/config.html#sysinfo

From /proc/cpuinfo
*
* Did not identify cpu model.  If you would
* like to write your own sysinfo program, see
* www.spec.org/cpu2006/config.html#sysinfo
*
*
* 0 "physical id" tags found.  Perhaps this is an older system,
* or a virtualized system.  Not attempting to guess how to
* count chips/cores for this system.
*
      64 "processors"
   cores, siblings (Caution: counting these is hw and system dependent.  The
   following excerpts from /proc/cpuinfo might not be reliable.  Use with
   caution.)

From /proc/meminfo
   MemTotal:       263409720 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB
```

Continued on next page

Platform Notes (Continued)

```
/usr/bin/lsb_release -d
   Debian GNU/Linux 12 (bookworm)

From /etc/*release* /etc/*version*
   cloud-release:
      ID=azure
      VERSION="20260129-2372"
   debian_version: 12.13
   os-release:
      PRETTY_NAME="Debian GNU/Linux 12 (bookworm)"
      NAME="Debian GNU/Linux"
      VERSION_ID="12"
      VERSION="12 (bookworm)"
      VERSION_CODENAME=bookworm
      ID=debian
      HOME_URL="https://www.debian.org/"
      SUPPORT_URL="https://www.debian.org/support"

uname -a:
   Linux HimiMisakiBenchmarkARM64 6.1.0-42-cloud-arm64 #1 SMP Debian 6.1.159-1
   (2025-12-30) aarch64 GNU/Linux

run-level 5 Feb 9 12:01

SPEC is set to: /home/misaki/Library/cpu2006
   Filesystem     Type  Size  Used Avail Use% Mounted on
   /dev/sda1      ext4  252G  8.0G  234G   4% /

(End of data from sysinfo program)
```

Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Base Portability Flags

400.perlbench: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
403.gcc: -DSPEC_CPU_LP64
429.mcf: -DSPEC_CPU_LP64
445.gobmk: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64

Continued on next page

Base Portability Flags (Continued)

458.sjeng: `-DSPEC_CPU_LP64`
462.libquantum: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX`
464.h264ref: `-DSPEC_CPU_LP64 -fsigned-char`
471.omnetpp: `-DSPEC_CPU_LP64`
473.astar: `-DSPEC_CPU_LP64`
483.xalancbmk: `-DSPEC_CPU_LP64 -DSPEC_CPU_LINUX`

Base Optimization Flags

C benchmarks:
`-std=gnu89 -mabi=lp64 -march=native -O2 -flto -fno-strict-aliasing`

C++ benchmarks:
`-std=c++03 -mabi=lp64 -march=native -O2 -flto -fno-strict-aliasing`

Peak Compiler Invocation

C benchmarks:
`gcc`

C++ benchmarks:
`g++`

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
`-std=gnu89 -mabi=lp64 -fprofile-generate`(pass 1) `-fprofile-use`(pass 2)
`-march=native -Ofast -flto -fno-strict-aliasing`
`-fno-unsafe-math-optimizations -fno-finite-math-only -funroll-loops`

C++ benchmarks:
`-std=c++03 -mabi=lp64 -fprofile-generate`(pass 1) `-fprofile-use`(pass 2)
`-march=native -Ofast -flto -fno-strict-aliasing`
`-fno-unsafe-math-optimizations -fno-finite-math-only -funroll-loops`

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.
Report generated on Mon Feb 9 18:07:07 2026 by SPEC CPU2006 PS/PDF formatter v6401.