SPEC® CINT2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

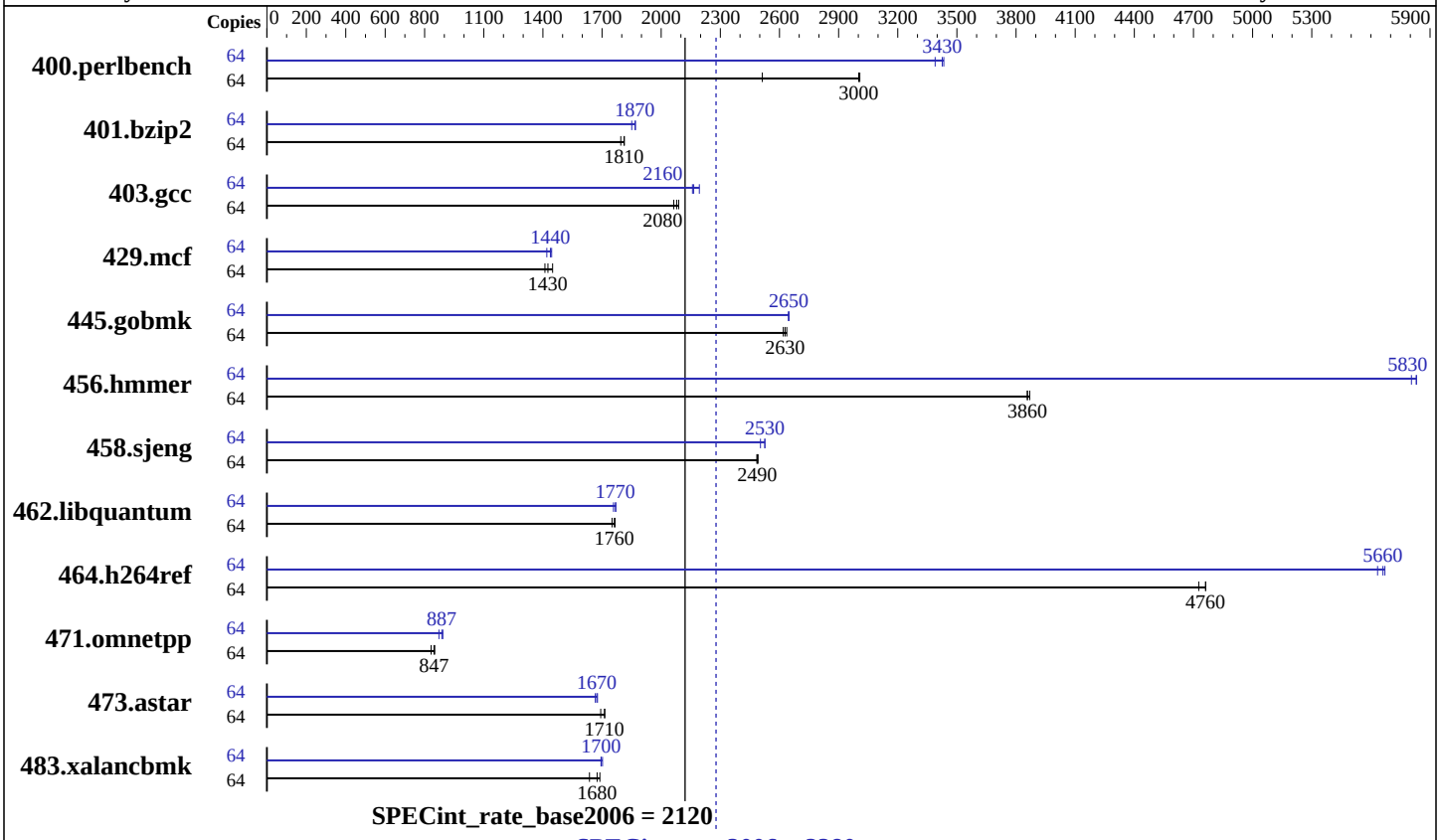
Azure Standard D64ps v6

SPECint®_rate2006 = 2280

SPECint_rate_base2006 = 2120

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

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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	64	249	2510	**208**	**3000**	208	3010	64	184	3390	**183**	**3430**	182	3430
401.bzip2	64	341	1810	344	1800	**341**	**1810**	64	334	1850	330	1870	**331**	**1870**
403.gcc	64	247	2090	**248**	**2080**	250	2060	64	235	2190	**238**	**2160**	239	2160
429.mcf	64	403	1450	**409**	**1430**	414	1410	64	404	1440	**406**	**1440**	411	1420
445.gobmk	64	**255**	**2630**	255	2640	256	2620	64	254	2650	254	2650	**254**	**2650**
456.hmmer	64	155	3860	154	3870	**155**	**3860**	64	**102**	**5830**	103	5810	102	5830
458.sjeng	64	**311**	**2490**	311	2490	312	2490	64	**307**	**2530**	307	2530	309	2500
462.libquantum	64	757	1750	**752**	**1760**	751	1770	64	754	1760	749	1770	**750**	**1770**
464.h264ref	64	300	4730	297	4760	**297**	**4760**	64	250	5670	**250**	**5660**	251	5630
471.omnetpp	64	470	851	**472**	**847**	480	833	64	448	893	458	873	**451**	**887**
473.astar	64	265	1690	262	1710	**262**	**1710**	64	**268**	**1670**	268	1680	270	1670
483.xalancbmk	64	270	1640	**264**	**1680**	261	1690	64	259	1700	261	1690	**260**	**1700**

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.
```

Platform Notes

```
Sysinfo program /home/misaki/Library/cpu2006/Docs/sysinfo.new
Revision 6993 of 2015-11-06 (b5e8d4b4eb51ed28d7f98696cbe290c1)
running on HimiMisakiBenchmarkARM64 Tue Feb 10 11:47:16 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.)
```

Continued on next page

Platform Notes (Continued)

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

/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  8.4G  233G   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

Continued on next page

Base Portability Flags (Continued)

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
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