SPEC® CFP2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

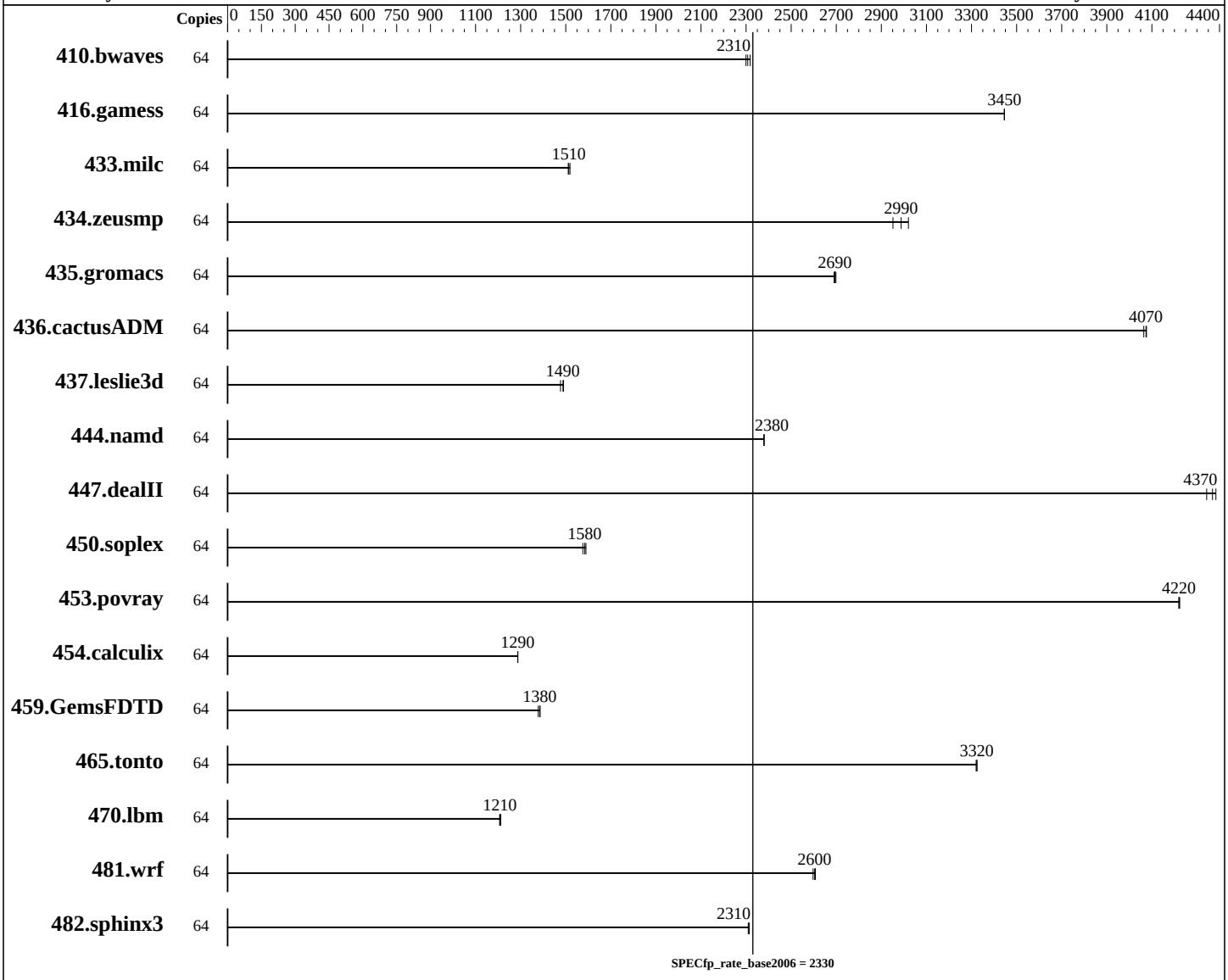
Azure Standard D64ps v6

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 2330

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

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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

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L3 Cache:	128 MB
Other Cache:	None
Memory:	256 GB
Disk Subsystem:	256 GB Premium SSD
Other Hardware:	None

Peak Pointers:	Not Applicable
Other Software:	None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	64	375	2320	378	2300	**377**	**2310**							
416.gamess	64	364	3450	**364**	**3450**	364	3440							
433.milc	64	387	1520	389	1510	**388**	**1510**							
434.zeusmp	64	193	3020	197	2950	**195**	**2990**							
435.gromacs	64	169	2700	170	2690	**170**	**2690**							
436.cactusADM	64	188	4060	**188**	**4070**	188	4080							
437.leslie3d	64	**404**	**1490**	407	1480	404	1490							
444.namd	64	216	2380	**216**	**2380**	216	2380							
447.dealII	64	167	4380	**168**	**4370**	169	4340							
450.soplex	64	339	1580	**337**	**1580**	336	1590							
453.povray	64	80.7	4220	**80.7**	**4220**	80.6	4220							
454.calculix	64	410	1290	410	1290	**410**	**1290**							
459.GemsFDTD	64	493	1380	**490**	**1380**	490	1390							
465.tonto	64	**189**	**3320**	190	3320	189	3320							
470.lbm	64	729	1210	**728**	**1210**	726	1210							
481.wrf	64	274	2610	**275**	**2600**	275	2600							
482.sphinx3	64	539	2310	540	2310	**539**	**2310**							

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 22:49:04 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
*
```

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Platform Notes (Continued)

```
* 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

/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++

Fortran benchmarks:
gfortran

Benchmarks using both Fortran and C:
gcc gfortran

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64
436.cactusADM: -DSPEC_CPU_LP64
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64 -fsigned-char

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

Fortran benchmarks:
-std=legacy -mabi=lp64 -march=native -O2 -flto -fno-strict-aliasing

Benchmarks using both Fortran and C:
-std=gnu89 -mabi=lp64 -std=legacy -march=native -O2 -flto
-fno-strict-aliasing

Base Other Flags

Fortran benchmarks:

416.gamess: `-funconstrained-commons`

Benchmarks using both Fortran and C:

481.wrf: `-fallow-argument-mismatch`

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

Tested with SPEC CPU2006 v1.2.
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