SPEC® CFP2006 Result
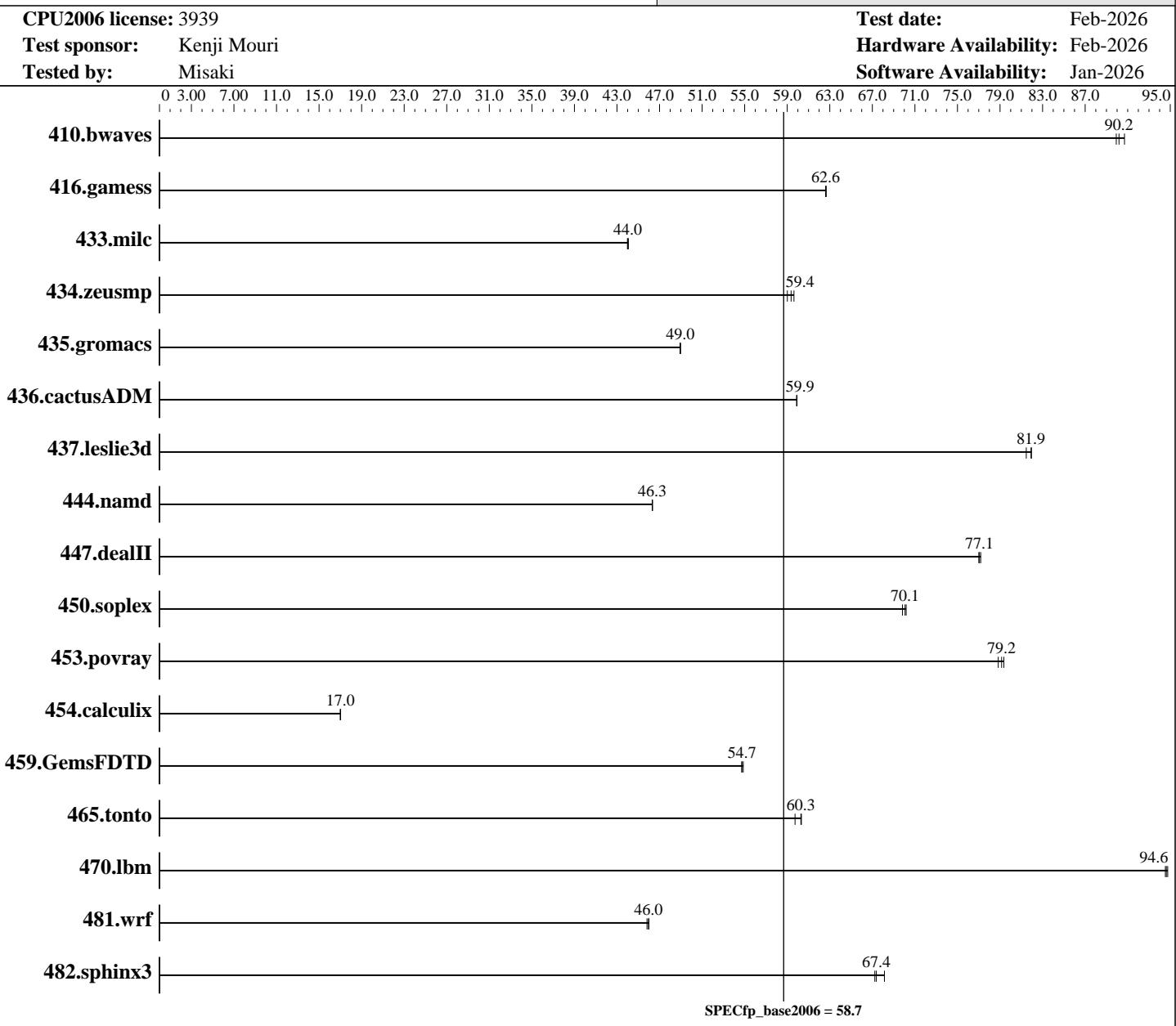
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Microsoft Corporation
(Test Sponsor: Kenji Mouri)

Azure Standard D64s v6

$SPECfp^®2006 =$ Not Run

$SPECfp\_base2006 =$ 58.7

Benchmark	Value
410.bwaves	90.2
416.gamess	62.6
433.milc	44.0
434.zeusmp	59.4
435.gromacs	49.0
436.cactusADM	59.9
437.leslie3d	81.9
444.namd	46.3
447.dealII	77.1
450.soplex	70.1
453.povray	79.2
454.calculix	17.0
459.GemsFDTD	54.7
465.tonto	60.3
470.lbm	94.6
481.wrf	46.0
482.sphinx3	67.4

SPECfp_base2006 = 58.7

Hardware

CPU Name: INTEL XEON PLATINUM 8573C
CPU Characteristics: INTEL XEON PLATINUM 8573C @ 3.6GHz
CPU MHz: 3600
FPU: Integrated
CPU(s) enabled: 32 cores, 1 chip, 32 cores/chip, 2 threads/core
CPU(s) orderable: 1 chips
Primary Cache: 1 MB I + 1.5 MB D on chip per core
Secondary Cache: 64 MB I+D on chip per core

Continued on next page

Software

Operating System: Debian GNU/Linux 12 (bookworm)
6.1.0-43-cloud-amd64
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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CPU2006 license: 3939	**Test date:** Feb-2026
Test sponsor: Kenji Mouri	**Hardware Availability:** Feb-2026
Tested by: Misaki	**Software Availability:** Jan-2026

L3 Cache:	260 MB	Peak Pointers:	Not Applicable
Other Cache:	None	Other Software:	None
Memory:	256 GB		
Disk Subsystem:	256 GB Premium SSD		
Other Hardware:	None		

Results Table

Benchmark	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
410.bwaves	151	89.9	**151**	**90.2**	150	90.7						
416.gamess	312	62.7	**313**	**62.6**	313	62.6						
433.milc	**209**	**44.0**	208	44.1	209	44.0						
434.zeusmp	153	59.6	154	59.0	**153**	**59.4**						
435.gromacs	146	49.0	146	48.9	**146**	**49.0**						
436.cactusADM	199	59.9	200	59.9	**199**	**59.9**						
437.leslie3d	115	82.0	**115**	**81.9**	115	81.5						
444.namd	173	46.3	**173**	**46.3**	173	46.3						
447.dealII	148	77.2	149	77.0	**148**	**77.1**						
450.soplex	119	70.2	**119**	**70.1**	119	69.8						
453.povray	**67.2**	**79.2**	67.5	78.8	67.0	79.4						
454.calculix	485	17.0	485	17.0	**485**	**17.0**						
459.GemsFDTD	**194**	**54.7**	194	54.7	193	54.9						
465.tonto	163	60.3	**163**	**60.3**	165	59.7						
470.lbm	145	94.8	145	94.5	**145**	**94.6**						
481.wrf	244	45.8	**243**	**46.0**	243	46.0						
482.sphinx3	290	67.2	286	68.1	**289**	**67.4**						

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 HimiMisakiBenchmarkIntel64 Fri Feb 13 06:51:45 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
       model name : INTEL(R) XEON(R) PLATINUM 8573C
          1 "physical id"s (chips)
          64 "processors"
       cores, siblings (Caution: counting these is hw and system dependent.  The
       following excerpts from /proc/cpuinfo might not be reliable.  Use with
```

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Tested by: Misaki

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

Platform Notes (Continued)

```
    caution.)
      cpu cores : 32
      siblings  : 64
      physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
      22 23 24 25 26 27 28 29 30 31
    cache size : 266240 KB

From /proc/meminfo
    MemTotal:       263920464 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="20260210-2384"
    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 HimiMisakiBenchmarkIntel64 6.1.0-43-cloud-amd64 #1 SMP PREEMPT_DYNAMIC
    Debian 6.1.162-1 (2026-02-08) x86_64 GNU/Linux

run-level 5 Feb 12 10:05

SPEC is set to: /home/misaki/Library/cpu2006
    Filesystem     Type  Size  Used Avail Use% Mounted on
    /dev/nvme0n1p1 ext4  252G  8.4G  233G   4% /
Additional information from dmidecode:

    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.


(End of data from sysinfo program)
```

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CPU2006 license: 3939

Test sponsor: Kenji Mouri

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Test date: Feb-2026

Hardware Availability: Feb-2026

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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 -m64 -march=native -mprefer-vector-width=512 -O2 -flto
-fno-strict-aliasing
```

C++ benchmarks:
```
-std=c++03 -m64 -march=native -mprefer-vector-width=512 -O2 -flto
-fno-strict-aliasing
```

Fortran benchmarks:
```
-std=legacy -m64 -march=native -mprefer-vector-width=512 -O2 -flto
-fno-strict-aliasing
```

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Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:
```
-std=gnu89 -m64 -std=legacy -march=native -mprefer-vector-width=512
-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.
Report generated on Fri Feb 13 12:17:31 2026 by SPEC CPU2006 PS/PDF formatter v6401.