SPEC® CFP2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

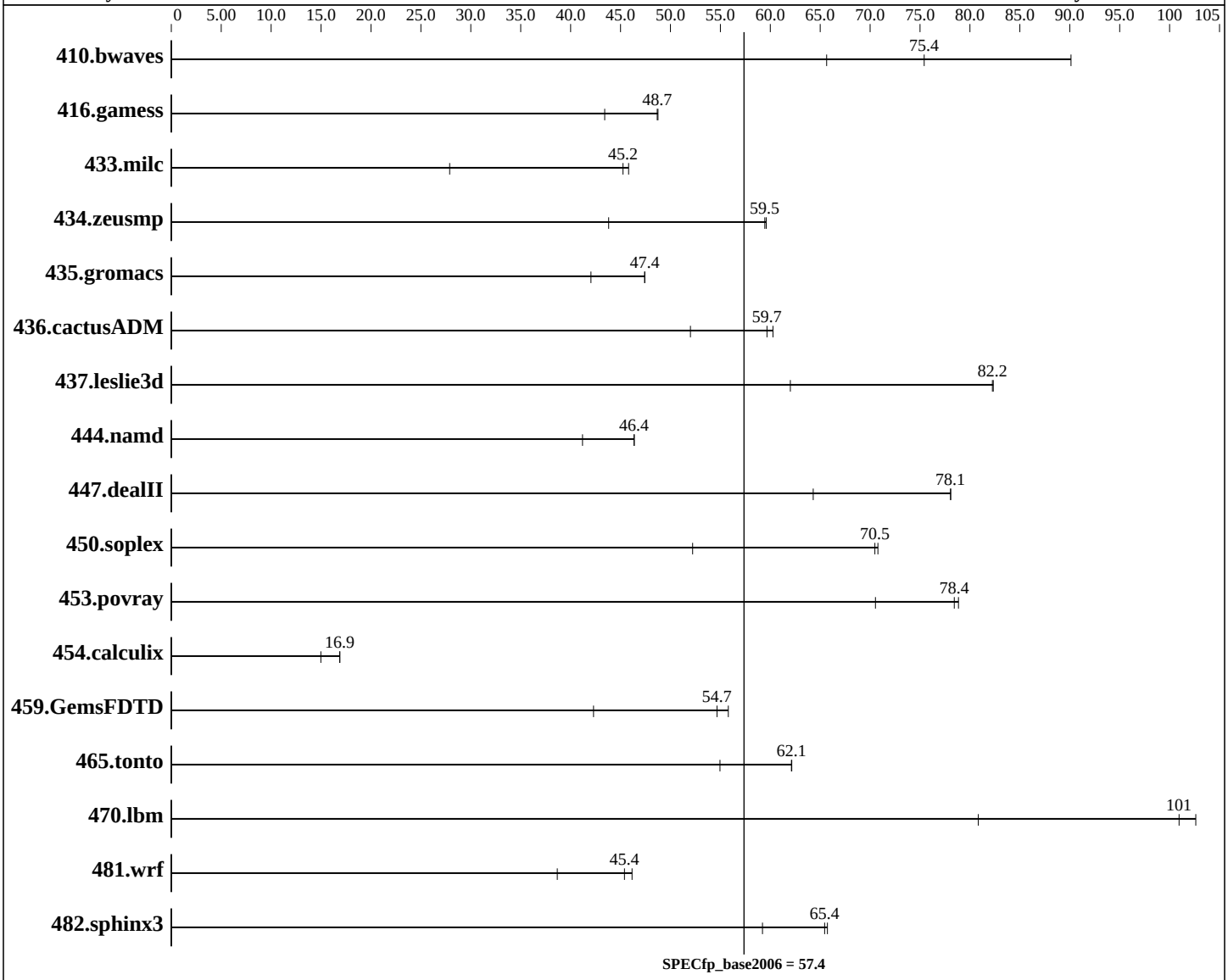
Azure Standard D64s v6

SPECfp®2006 = Not Run

SPECfp_base2006 = 57.4

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:	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

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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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L3 Cache:	260 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	207	65.6	**180**	**75.4**	151	90.1						
416.gamess	451	43.4	**402**	**48.7**	402	48.7						
433.milc	329	27.9	**203**	**45.2**	200	45.8						
434.zeusmp	208	43.8	**153**	**59.5**	153	59.6						
435.gromacs	170	42.0	151	47.4	**151**	**47.4**						
436.cactusADM	230	52.0	**200**	**59.7**	198	60.3						
437.leslie3d	152	62.0	114	82.3	**114**	**82.2**						
444.namd	195	41.2	**173**	**46.4**	173	46.4						
447.dealII	178	64.3	147	78.1	**147**	**78.1**						
450.soplex	160	52.2	118	70.8	**118**	**70.5**						
453.povray	75.4	70.5	**67.8**	**78.4**	67.5	78.9						
454.calculix	551	15.0	**489**	**16.9**	489	16.9						
459.GemsFDTD	251	42.3	190	55.8	**194**	**54.7**						
465.tonto	179	55.0	**158**	**62.1**	158	62.2						
470.lbm	170	80.8	134	103	**136**	**101**						
481.wrf	289	38.7	**246**	**45.4**	242	46.2						
482.sphinx3	329	59.2	297	65.7	**298**	**65.4**						

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 Thu Feb 12 15:01:16 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
   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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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  8.3G  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)
```

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=sapphirerapids -mprefer-vector-width=512 -O2
-flto -fno-strict-aliasing

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

Fortran benchmarks:
-std=legacy -m64 -march=sapphirerapids -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=sapphirerapids -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.
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