SPEC® CFP2006 Result

Microsoft Corporation
(Test Sponsor: Kenji Mouri)

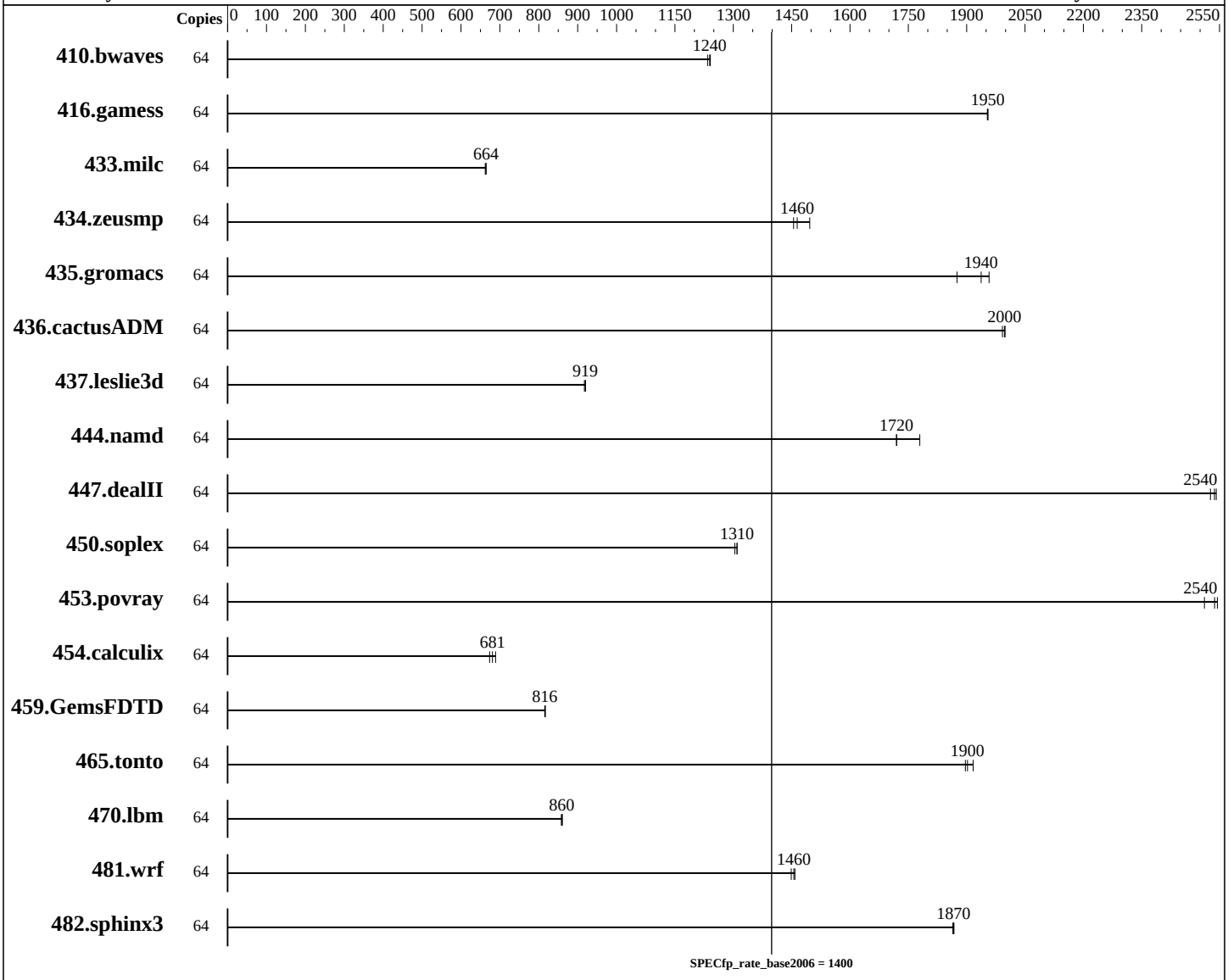
Azure Standard D64s v6

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 1400

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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	64	705	1230	701	1240	**702**	**1240**							
416.gamess	64	**641**	**1950**	642	1950	641	1950							
433.milc	64	887	662	884	665	**885**	**664**							
434.zeusmp	64	400	1450	389	1500	**398**	**1460**							
435.gromacs	64	233	1960	244	1880	**236**	**1940**							
436.cactusADM	64	383	2000	384	1990	**383**	**2000**							
437.leslie3d	64	654	920	**654**	**919**	656	917							
444.namd	64	288	1780	**298**	**1720**	299	1720							
447.dealII	64	290	2530	288	2540	**289**	**2540**							
450.soplex	64	409	1300	**408**	**1310**	408	1310							
453.povray	64	136	2510	**134**	**2540**	134	2540							
454.calculix	64	784	674	766	689	**775**	**681**							
459.GemsFDTD	64	833	815	**832**	**816**	831	817							
465.tonto	64	**331**	**1900**	332	1900	329	1920							
470.lbm	64	1025	858	1022	861	**1023**	**860**							
481.wrf	64	493	1450	490	1460	**491**	**1460**							
482.sphinx3	64	668	1870	**668**	**1870**	669	1860							

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 HimiMisakiBenchmarkIntel64 Fri Feb 13 21:07:02 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
```

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Platform Notes (Continued)

```
        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
     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)
```

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.
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