



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Apple, Inc.
3.0 GHz 8-Core Xserve

SPECfp®2006 = Not Run

SPECfp_base2006 = 19.0

CPU2006 license: 77

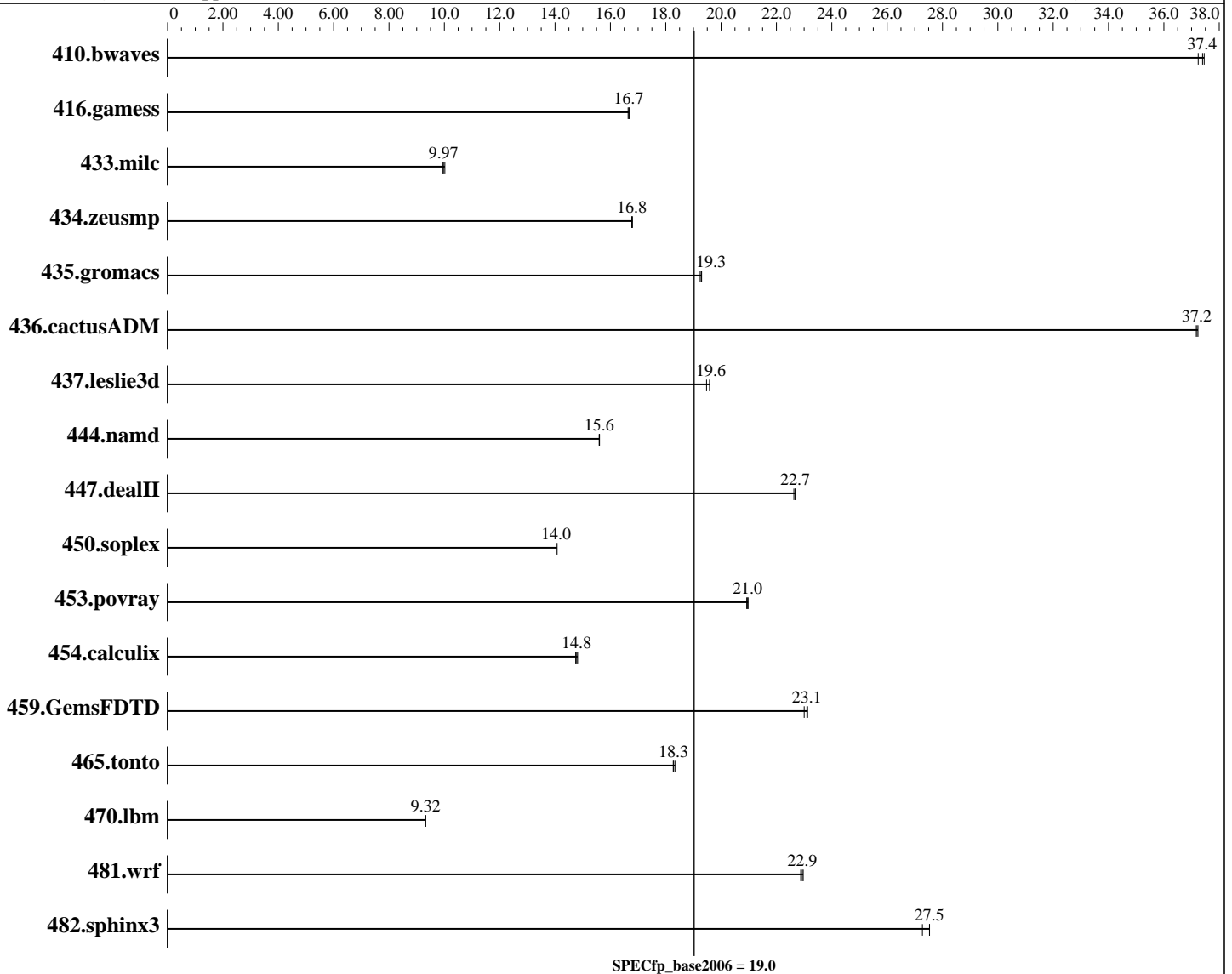
Test sponsor: Apple, Inc.

Tested by: Apple, Inc.

Test date: Apr-2008

Hardware Availability: Jan-2008

Software Availability: Mar-2008



Hardware

CPU Name: Intel Xeon E5472
 CPU Characteristics: 3.0 GHz, 2x6 MB L2, 1600 MHz bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Continued on next page

Software

Operating System: Mac OS X Server 10.5.2, Build 9C31
 Compiler: Intel C++ Compiler for Mac OS X
 Version 10.1 Build 20080312 (014)
 Intel Fortran Compiler for Mac OS X
 Version 10.1 Build 20080312 (014)
 Auto Parallel: Yes
 File System: Journaled HFS+
 System State: Console mode

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB DDR2-800 FBDIMM)
Disk Subsystem: 1x80 GB Seagate SATA, 7200PM
Other Hardware: None

Base Pointers: 64-bit
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	<u>363</u>	<u>37.4</u>	365	37.2	363	37.5						
416.gamess	1177	16.6	<u>1175</u>	<u>16.7</u>	1174	16.7						
433.milc	916	10.0	922	9.95	<u>921</u>	<u>9.97</u>						
434.zeusmp	542	16.8	<u>542</u>	<u>16.8</u>	542	16.8						
435.gromacs	371	19.2	<u>370</u>	<u>19.3</u>	370	19.3						
436.cactusADM	<u>321</u>	<u>37.2</u>	322	37.1	321	37.2						
437.leslie3d	<u>480</u>	<u>19.6</u>	483	19.5	480	19.6						
444.namd	<u>514</u>	<u>15.6</u>	514	15.6	514	15.6						
447.dealII	506	22.6	<u>504</u>	<u>22.7</u>	504	22.7						
450.soplex	593	14.1	594	14.0	<u>594</u>	<u>14.0</u>						
453.povray	<u>254</u>	<u>21.0</u>	254	20.9	254	21.0						
454.calculix	<u>558</u>	<u>14.8</u>	557	14.8	559	14.7						
459.GemsFDTD	461	23.0	459	23.1	<u>459</u>	<u>23.1</u>						
465.tonto	537	18.3	539	18.3	<u>538</u>	<u>18.3</u>						
470.lbm	1477	9.30	1474	9.32	<u>1474</u>	<u>9.32</u>						
481.wrf	<u>487</u>	<u>22.9</u>	486	23.0	488	22.9						
482.sphinx3	715	27.3	708	27.5	<u>708</u>	<u>27.5</u>						

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

Binaries compiled using Mac OS X 10.4.11, Build 8S2167
OMP_NUM_THREADS set to number of cores

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

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 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
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 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_MACOSX -DSPEC_CPU_MACOSX_INTEL
-DSPEC_CPU_CASE_FLAG
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-static-intel -fast -parallel

C++ benchmarks:
-static-intel -xT -O3 -no-prec-div -mdynamic-no-pic -parallel

Fortran benchmarks:
-static-intel -fast -parallel

Benchmarks using both Fortran and C:
-static-intel -fast -parallel



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Base Other Flags

C benchmarks:
-Wl,-stack_addr,0xF1000000 -Wl,-stack_size,0x64000000
C++ benchmarks:
-Wl,-stack_addr,0xF1000000 -Wl,-stack_size,0x64000000
Fortran benchmarks:
-Wl,-stack_addr,0xF1000000 -Wl,-stack_size,0x64000000
Benchmarks using both Fortran and C:
-Wl,-stack_addr,0xF1000000 -Wl,-stack_size,0x64000000

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/macosx-iccifort-v10.1-flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/macosx-iccifort-v10.1-flags.xml>

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

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