



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®_rate2006 = 43.7

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp_rate_base2006 = 43.0

CPU2006 license: 3

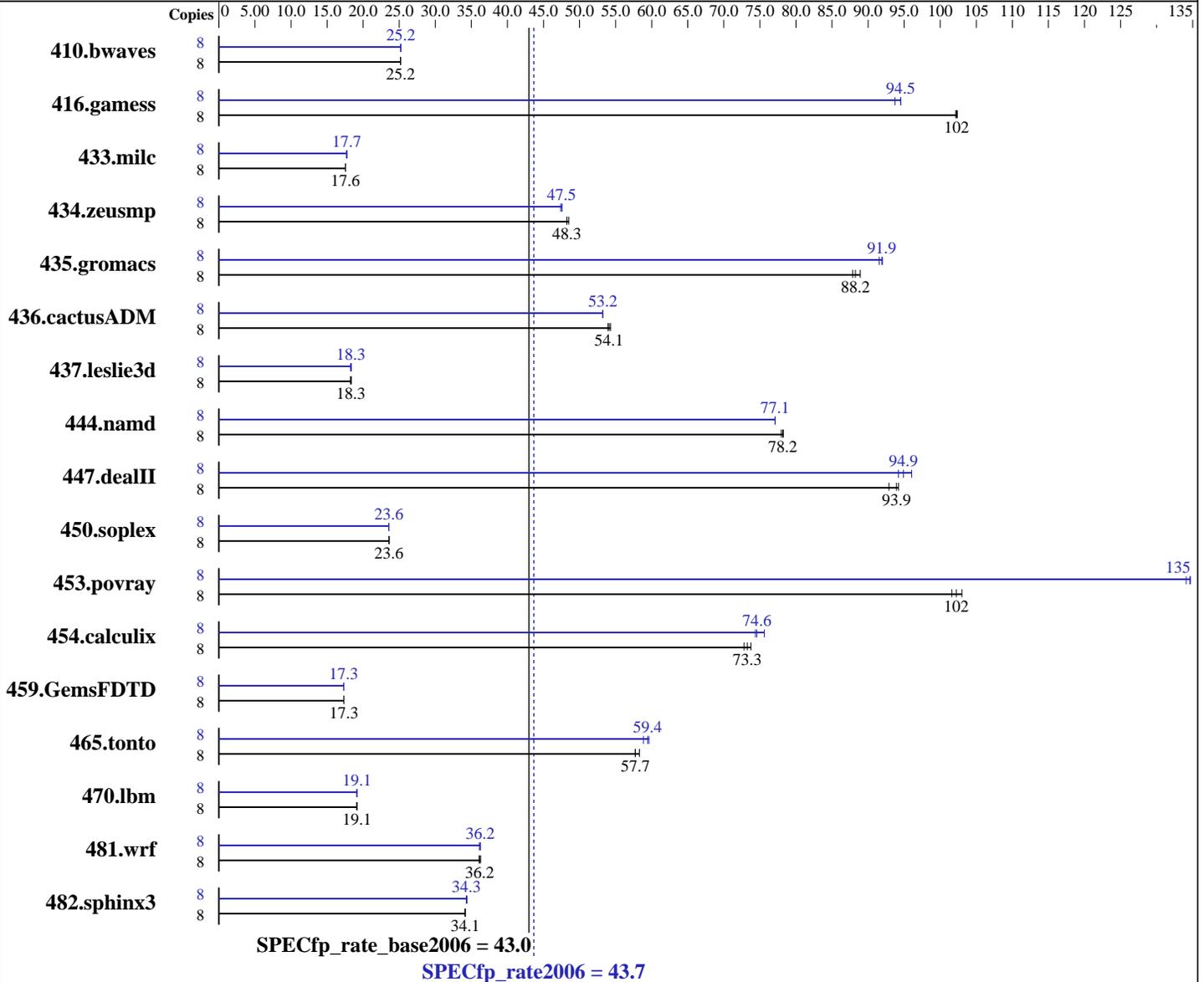
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 2x4 MB L2 shared, 1066 MHz system bus
 CPU MHz: 1860
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64)
 kernel 2.6.16.21-0.8-smp
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1
 Build 20061101, Package ID: 1_cc_c_9.1.045
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1
 Build 20061101, Package ID: 1_fc_c_9.1.040
 Auto Parallel: No

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem: 2x72 GB 10 K SAS
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	4315	25.2	4316	25.2	4316	25.2	8	4310	25.2	4316	25.2	4312	25.2
416.gamess	8	1532	102	1530	102	1534	102	8	1657	94.5	1671	93.7	1657	94.5
433.milc	8	4182	17.6	4188	17.5	4184	17.6	8	4144	17.7	4144	17.7	4144	17.7
434.zeusmp	8	1509	48.2	1501	48.5	1509	48.3	8	1536	47.4	1530	47.6	1532	47.5
435.gromacs	8	650	87.9	647	88.2	642	88.9	8	621	91.9	621	92.0	624	91.5
436.cactusADM	8	1772	53.9	1767	54.1	1760	54.3	8	1796	53.2	1796	53.2	1798	53.2
437.leslie3d	8	4095	18.4	4126	18.2	4110	18.3	8	4118	18.3	4107	18.3	4097	18.4
444.namd	8	820	78.2	823	78.0	821	78.2	8	832	77.1	832	77.1	832	77.1
447.dealII	8	974	93.9	985	92.9	971	94.2	8	964	94.9	953	96.0	971	94.2
450.soplex	8	2827	23.6	2828	23.6	2831	23.6	8	2831	23.6	2834	23.5	2830	23.6
453.povray	8	416	102	419	102	413	103	8	316	135	316	135	317	134
454.calculix	8	901	73.3	907	72.8	895	73.8	8	887	74.4	873	75.6	885	74.6
459.GemsFDTD	8	4900	17.3	4899	17.3	4898	17.3	8	4904	17.3	4902	17.3	4901	17.3
465.tonto	8	1350	58.3	1363	57.7	1364	57.7	8	1320	59.6	1324	59.4	1338	58.8
470.lbm	8	5744	19.1	5743	19.1	5743	19.1	8	5743	19.1	5741	19.1	5741	19.1
481.wrf	8	2471	36.2	2462	36.3	2477	36.1	8	2465	36.3	2476	36.1	2467	36.2
482.sphinx3	8	4569	34.1	4564	34.2	4566	34.1	8	4545	34.3	4542	34.3	4534	34.4

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

Platform Notes

Power Regulator set to Static High Performance Mode in BIOS.
Adjacent Sector Prefetch Disabled in BIOS.
"/usr/bin/taskset" used to bind processes to CPUs.
Environment stack size set to 'unlimited'

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_CASE_FLAG -DSPEC_CPU_LINUX
 482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast

Peak Compiler Invocation

C benchmarks:

icc

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Peak Compiler Invocation (Continued)

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/hp-ic91-flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/hp-ic91-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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