



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®_rate2006 = 43.7

ProLiant BL460c
(1.86 GHz, Intel Xeon processor E5320)

SPECfp_rate_base2006 = 43.0

CPU2006 license: 3

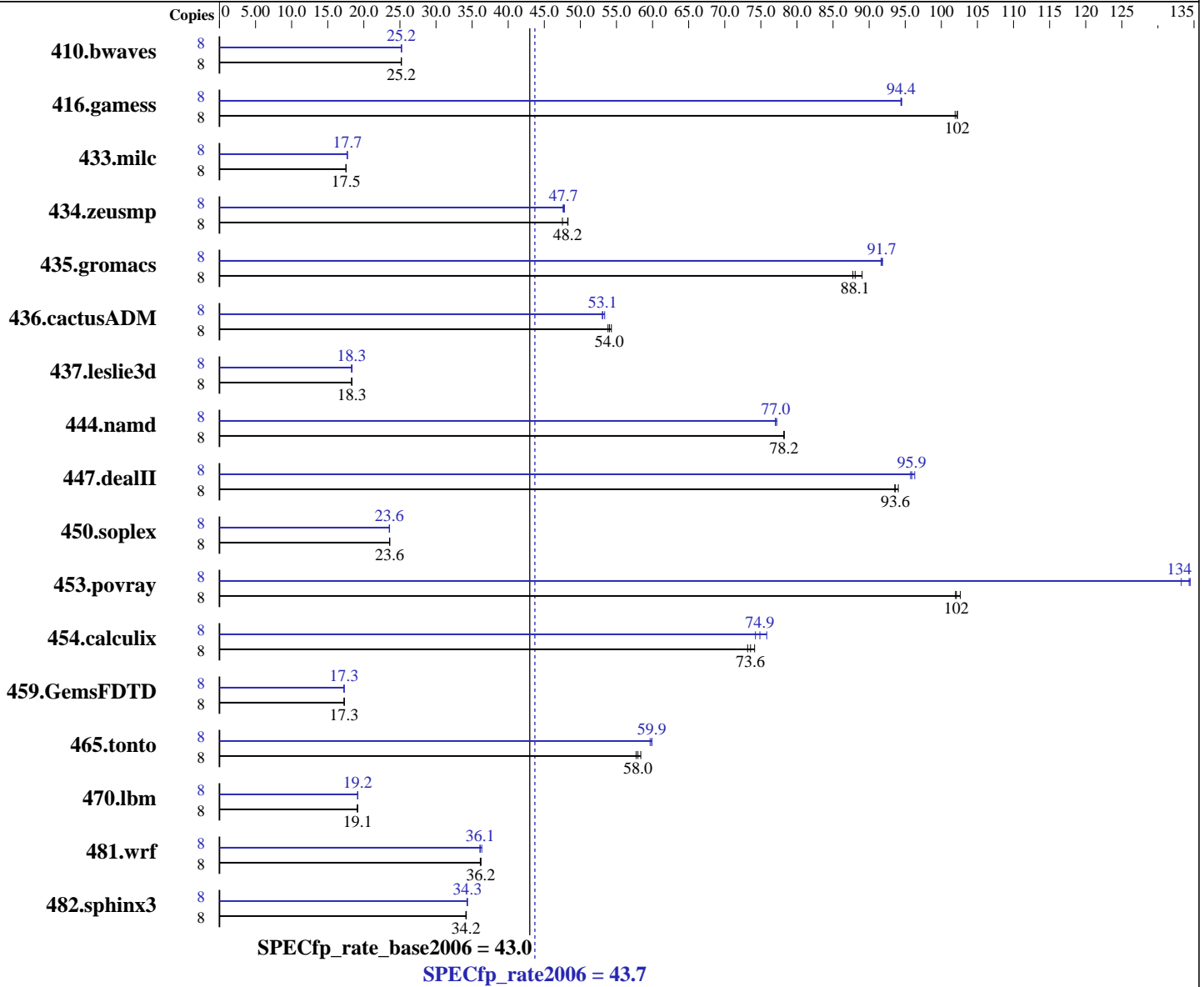
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jan-2007

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 2x4 MB L2 shared, 1066MHz 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: 1x72 GB 10k 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	4318	25.2	<u>4314</u>	<u>25.2</u>	4314	25.2	8	<u>4312</u>	<u>25.2</u>	4314	25.2	4310	25.2		
416.gamess	8	1537	102	<u>1533</u>	<u>102</u>	1532	102	8	1657	94.5	1659	94.4	<u>1659</u>	<u>94.4</u>		
433.milc	8	4186	17.5	4191	17.5	<u>4187</u>	<u>17.5</u>	8	4145	17.7	<u>4145</u>	<u>17.7</u>	4149	17.7		
434.zeusmp	8	1532	47.5	<u>1509</u>	<u>48.2</u>	1508	48.3	8	<u>1527</u>	<u>47.7</u>	1529	47.6	1523	47.8		
435.gromacs	8	<u>649</u>	<u>88.1</u>	642	89.0	651	87.7	8	623	91.7	<u>623</u>	<u>91.7</u>	622	91.9		
436.cactusADM	8	1761	54.3	1776	53.8	<u>1770</u>	<u>54.0</u>	8	1802	53.0	1791	53.4	<u>1801</u>	<u>53.1</u>		
437.leslie3d	8	4097	18.4	4110	18.3	<u>4100</u>	<u>18.3</u>	8	4110	18.3	4092	18.4	<u>4106</u>	<u>18.3</u>		
444.namd	8	820	78.2	820	78.2	<u>820</u>	<u>78.2</u>	8	833	77.0	831	77.2	<u>833</u>	<u>77.0</u>		
447.dealII	8	<u>977</u>	<u>93.6</u>	978	93.5	973	94.0	8	<u>954</u>	<u>95.9</u>	950	96.3	956	95.7		
450.soplex	8	2831	23.6	<u>2830</u>	<u>23.6</u>	2827	23.6	8	2831	23.6	2836	23.5	<u>2833</u>	<u>23.6</u>		
453.povray	8	<u>417</u>	<u>102</u>	415	103	417	102	8	<u>317</u>	<u>134</u>	316	134	319	133		
454.calculix	8	890	74.1	<u>897</u>	<u>73.6</u>	902	73.2	8	<u>882</u>	<u>74.9</u>	871	75.8	889	74.3		
459.GemsFDTD	8	4914	17.3	<u>4910</u>	<u>17.3</u>	4910	17.3	8	<u>4916</u>	<u>17.3</u>	4917	17.3	4916	17.3		
465.tonto	8	1349	58.4	1364	57.7	<u>1358</u>	<u>58.0</u>	8	1320	59.7	1314	59.9	<u>1314</u>	<u>59.9</u>		
470.lbm	8	5758	19.1	5739	19.2	<u>5744</u>	<u>19.1</u>	8	5741	19.1	<u>5739</u>	<u>19.2</u>	5738	19.2		
481.wrf	8	2473	36.1	<u>2469</u>	<u>36.2</u>	2467	36.2	8	2459	36.3	2476	36.1	<u>2474</u>	<u>36.1</u>		
482.sphinx3	8	4566	34.1	4559	34.2	<u>4565</u>	<u>34.2</u>	8	4546	34.3	4538	34.4	<u>4541</u>	<u>34.3</u>		

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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