



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®_rate2006 = Not Run

ProLiant DL360 G6
(2.13GHz, Intel Xeon E5506 processor)

SPECfp_rate_base2006 = 115

CPU2006 license: 3

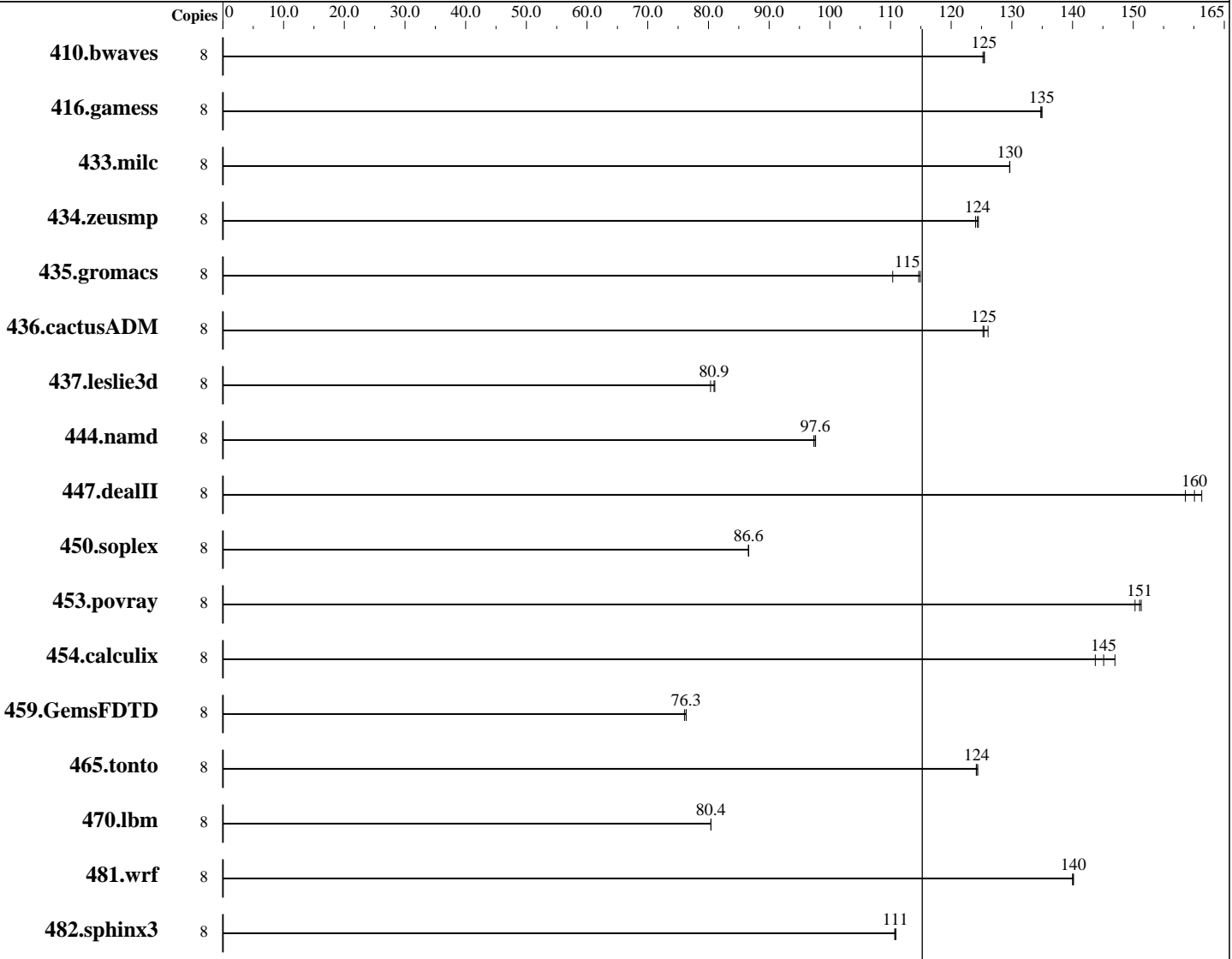
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Mar-2010

Hardware Availability: Mar-2010

Software Availability: Sep-2009



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Hardware

CPU Name: Intel Xeon E5506
 CPU Characteristics:
 CPU MHz: 2133
 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: 256 KB I+D on chip per core

Continued on next page

Software

Operating System: Red Hat Enterprise Linux Server release 5.4
 Kernel 2.6.18-164.el5
 Compiler: Intel C++ and Fortran Compiler 11.1 for Linux
 Build 20090827 Package ID: l_cproc_p_11.1.056,
 l_cprof_p_11.1.056
 Auto Parallel: No
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit

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L3 Cache: 4 MB I+D on chip per chip
Other Cache: None
Memory: 24 GB (6 x 4 GB 2Rx8 PC3-10600R CL9, running at 800MHz)
Disk Subsystem: 1 x 120 GB 7.2K SFF SATA
Other Hardware: None

Peak Pointers: 32/64-bit
Other Software: Binutils 2.17.50.0.6-12.el5

Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	868	125	867	125	866	125							
416.gamess	8	1162	135	1161	135	1161	135							
433.milc	8	567	130	566	130	566	130							
434.zeusmp	8	585	124	586	124	587	124							
435.gromacs	8	498	115	518	110	497	115							
436.cactusADM	8	763	125	758	126	762	125							
437.leslie3d	8	928	81.1	929	80.9	936	80.3							
444.namd	8	657	97.6	657	97.7	659	97.4							
447.dealII	8	567	161	572	160	577	159							
450.soplex	8	770	86.6	771	86.6	770	86.6							
453.povray	8	283	150	281	151	282	151							
454.calculix	8	455	145	459	144	449	147							
459.GemsFDTD	8	1112	76.3	1116	76.0	1112	76.3							
465.tonto	8	633	124	634	124	634	124							
470.lbm	8	1367	80.4	1367	80.4	1367	80.4							
481.wrf	8	638	140	638	140	638	140							
482.sphinx3	8	1406	111	1409	111	1407	111							

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.
numactl was used to bind copies to the cores

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run

Platform Notes

BIOS configuration:
HP Power Profile set to Maximum Performance
Thermal Configuration set to Increased Cooling



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Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

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:
-xSSE4.2 -ipo -O3 -no-prec-div -static

C++ benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:
-xSSE4.2 -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:
-xSSE4.2 -ipo -O3 -no-prec-div -static



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The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/HP-Intel-Linux-Settings-flags.20091110.html>

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20100330.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/HP-Intel-Linux-Settings-flags.20091110.xml>

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20100330.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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