SPEC® CFP2006 Result

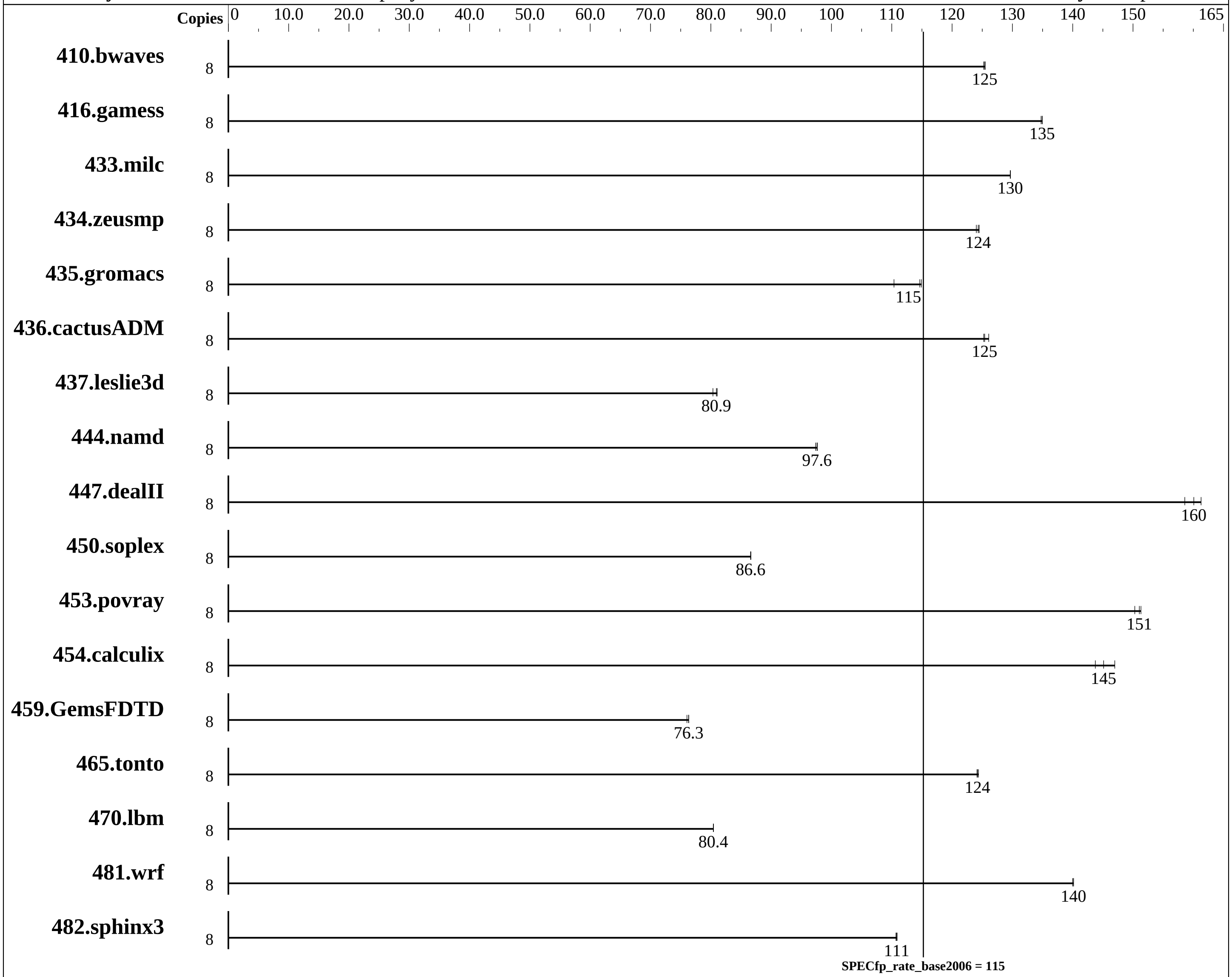
Hewlett-Packard Company

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

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 115

CPU2006 license:	3	**Test date:**	Mar-2010
Test sponsor:	Hewlett-Packard Company	**Hardware Availability:**	Mar-2010
Tested by:	Hewlett-Packard Company	**Software Availability:**	Sep-2009



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

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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
```

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

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

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