SPEC® CFP2006 Result

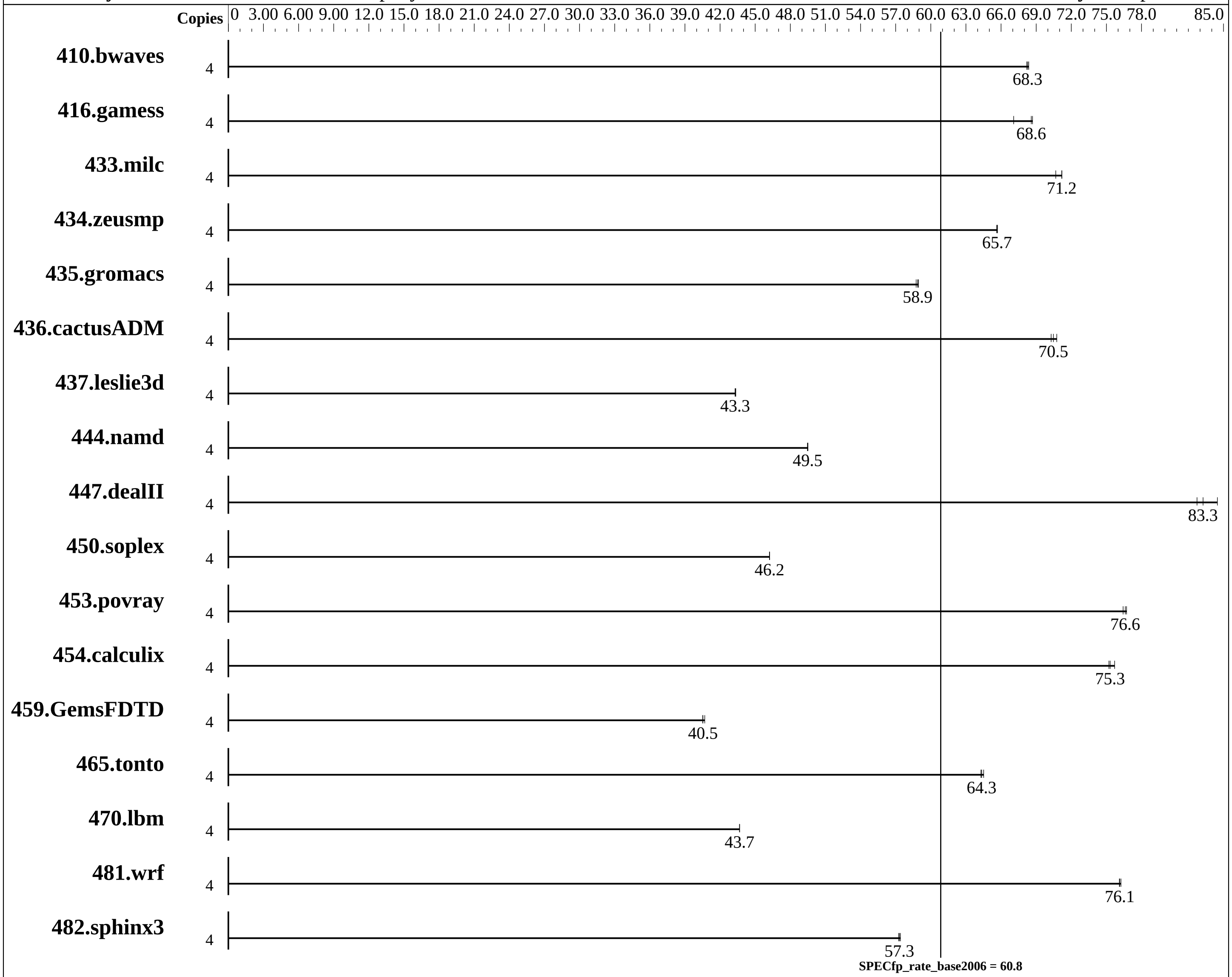
Hewlett-Packard Company

ProLiant DL360 G6
(2.13 GHz, Intel Xeon E5506)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 60.8

CPU2006 license: 3		**Test date:**	Mar-2010
Test sponsor:	Hewlett-Packard Company	**Hardware Availability:**	Mar-2009
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:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1 chip
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: 12 GB (3 x 4 GB DDR3-10600R)
Disk Subsystem: 1 x 120 GB 7.2 K SFF SATA
Other Hardware: None

Peak Pointers: Not Applicable
Other Software: Binutils 2.17.50.0.18-1

Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	797	68.2	795	68.4	**796**	**68.3**							
416.gamess	4	1168	67.1	**1142**	**68.6**	1140	68.7							
433.milc	4	520	70.7	516	71.2	**516**	**71.2**							
434.zeusmp	4	555	65.6	**554**	**65.7**	554	65.7							
435.gromacs	4	**485**	**58.9**	485	58.9	486	58.7							
436.cactusADM	4	680	70.3	676	70.8	**678**	**70.5**							
437.leslie3d	4	868	43.3	**869**	**43.3**	869	43.3							
444.namd	4	649	49.5	648	49.5	**648**	**49.5**							
447.dealII	4	**550**	**83.3**	553	82.7	542	84.5							
450.soplex	4	**722**	**46.2**	722	46.2	722	46.2							
453.povray	4	277	76.7	**278**	**76.6**	278	76.4							
454.calculix	4	**438**	**75.3**	436	75.7	439	75.2							
459.GemsFDTD	4	**1047**	**40.5**	1043	40.7	1047	40.5							
465.tonto	4	610	64.5	**612**	**64.3**	612	64.3							
470.lbm	4	**1259**	**43.7**	1259	43.7	1259	43.7							
481.wrf	4	587	76.1	**587**	**76.1**	586	76.2							
482.sphinx3	4	1358	57.4	**1360**	**57.3**	1362	57.3							

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

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

Platform Notes

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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`

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20100330.html

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