



SPEC® CFP2006 Result

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Hewlett-Packard Company

ProLiant DL170h G6
(2.8 GHz, Intel Xeon X5560)

SPECfp_rate2006 = Not Run

SPECfp_rate_base2006 = 185

CPU2006 license: 3

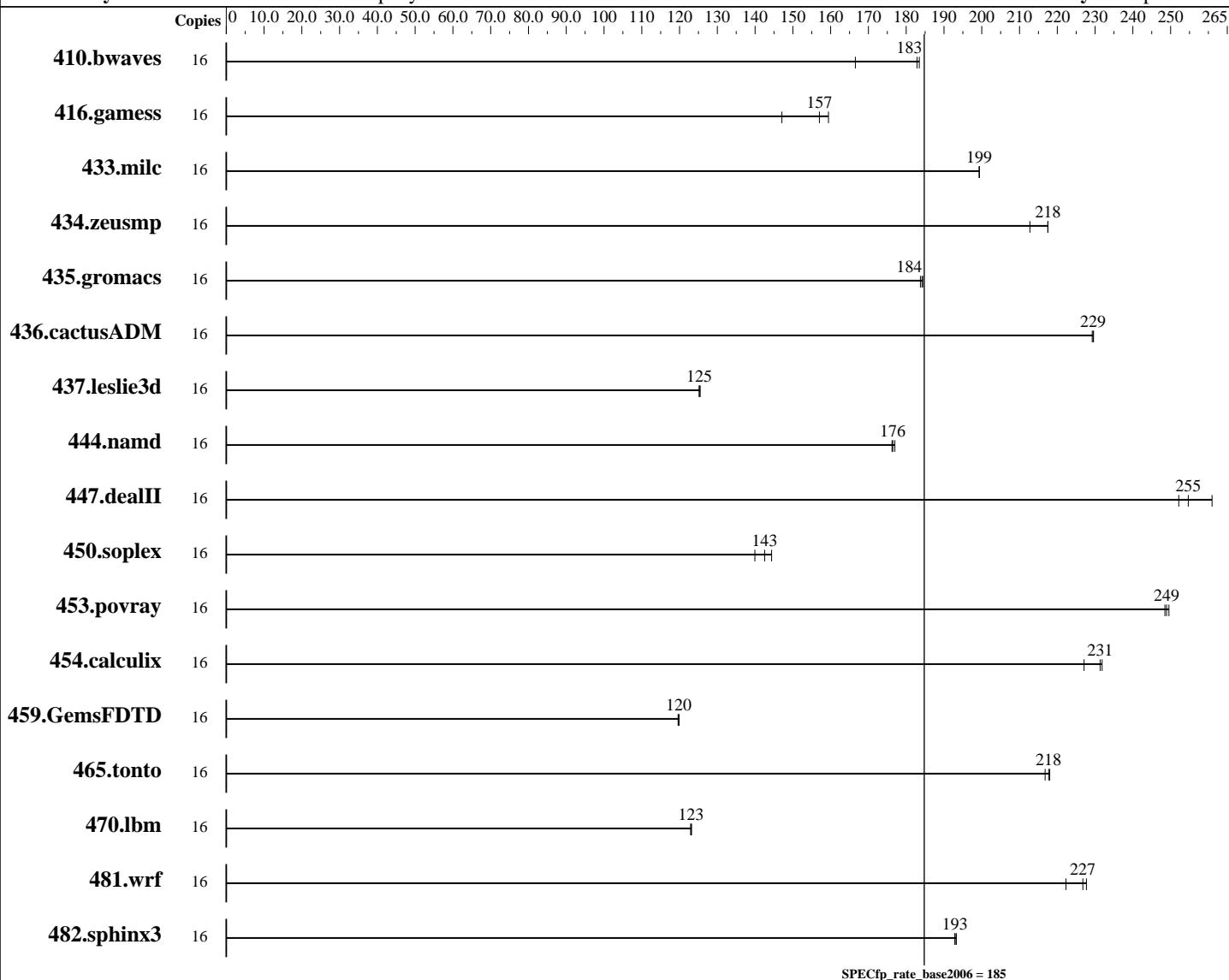
Test date: Jan-2010

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jul-2009

Tested by: Hewlett-Packard Company

Software Availability: Sep-2009



Hardware

CPU Name: Intel Xeon X5560
CPU Characteristics: Intel Turbo Boost Technology up 3.20 GHz
CPU MHz: 2800
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
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

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: 8 MB I+D on chip per chip
Other Cache: None
Memory: 24 GB (6x4 GB DDR3-10600R CL9)
Disk Subsystem: 1x500 GB 7.4K RPM SATA
Other Hardware: None

Peak Pointers: Not Applicable
Other Software: Binutils 2.17.50.0.18

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	16	1306	167	1185	183	<u>1189</u>	<u>183</u>							
416.gamess	16	1965	159	2130	147	<u>1995</u>	<u>157</u>							
433.milc	16	<u>737</u>	<u>199</u>	737	199	737	199							
434.zeusmp	16	684	213	669	218	<u>669</u>	<u>218</u>							
435.gromacs	16	620	184	622	184	<u>620</u>	<u>184</u>							
436.cactusADM	16	834	229	<u>833</u>	<u>229</u>	833	230							
437.leslie3d	16	1201	125	<u>1201</u>	<u>125</u>	1199	125							
444.namd	16	728	176	725	177	<u>727</u>	<u>176</u>							
447.dealII	16	<u>719</u>	<u>255</u>	701	261	726	252							
450.soplex	16	924	144	954	140	<u>936</u>	<u>143</u>							
453.povray	16	343	248	<u>342</u>	<u>249</u>	341	250							
454.calculix	16	569	232	<u>571</u>	<u>231</u>	581	227							
459.GemsFDTD	16	1416	120	<u>1417</u>	<u>120</u>	1419	120							
465.tonto	16	722	218	<u>723</u>	<u>218</u>	726	217							
470.lbm	16	1785	123	<u>1787</u>	<u>123</u>	1788	123							
481.wrf	16	785	228	804	222	<u>788</u>	<u>227</u>							
482.sphinx3	16	1613	193	1617	193	<u>1616</u>	<u>193</u>							

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 Performance



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General Notes

The ProLiant DL170h G6 is comprised of four independent server nodes in a single chassis. Only one of the server nodes was used for this benchmark; the other server nodes were idle during the benchmark. The active server node contained all of the CPUs and memory described in this disclosure.

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

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Base Optimization Flags (Continued)

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20100202.00.html>

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

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20100202.00.xml>

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