



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®2006 = 14.5

ProLiant DL380 G5
(2.66 GHz, Intel Xeon processor X5355)

SPECfp_base2006 = 14.3

CPU2006 license: 3

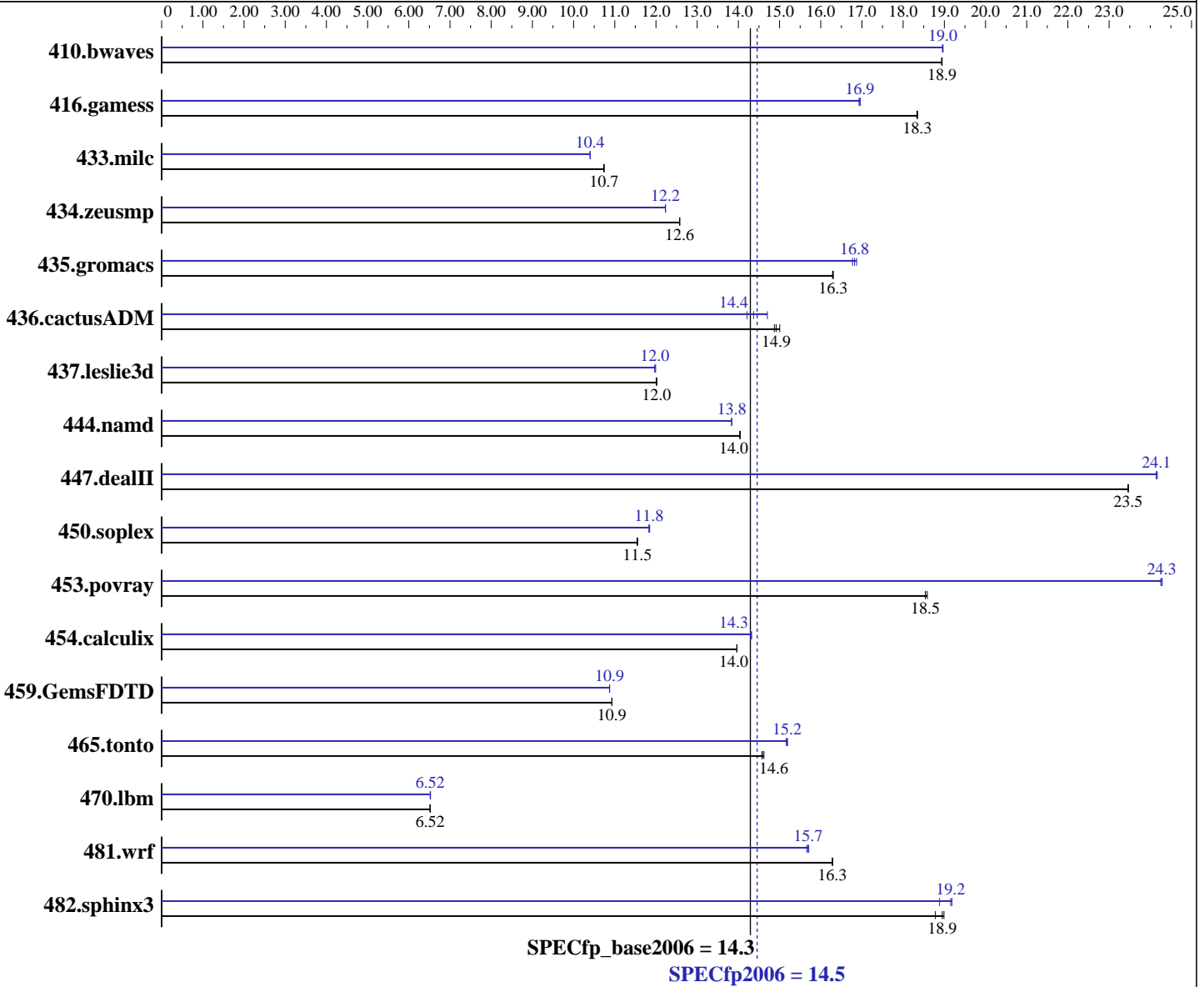
Test date: Jan-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Jan-2007

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon X5355
 CPU Characteristics: 2.66 GHz, 2x4 MB L2 shared, 1333 MHz bus
 CPU MHz: 2666
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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 EM64T kernel 2.6.16.21-0.8-default
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_cc_c_9.1.045 Build no 20061101
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1
 Package ID l_fc_c_9.1.040 Build no 20061101
 Auto Parallel: No

Continued on next page



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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300 CL5)
Disk Subsystem: 4x36 GB 10 K 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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	717	18.9	717	18.9	718	18.9	717	19.0	716	19.0	717	19.0
416.gamess	1067	18.3	1067	18.3	1068	18.3	1154	17.0	1155	16.9	1157	16.9
433.milc	855	10.7	855	10.7	855	10.7	883	10.4	883	10.4	882	10.4
434.zeusmp	724	12.6	724	12.6	724	12.6	744	12.2	744	12.2	744	12.2
435.gromacs	438	16.3	438	16.3	438	16.3	426	16.8	425	16.8	423	16.9
436.cactusADM	796	15.0	801	14.9	803	14.9	841	14.2	832	14.4	813	14.7
437.leslie3d	782	12.0	783	12.0	783	12.0	784	12.0	785	12.0	785	12.0
444.namd	571	14.0	571	14.0	572	14.0	579	13.8	580	13.8	580	13.8
447.dealII	487	23.5	488	23.5	488	23.5	474	24.1	473	24.2	474	24.1
450.soplex	722	11.5	722	11.6	723	11.5	705	11.8	704	11.8	705	11.8
453.povray	287	18.5	287	18.5	286	18.6	219	24.3	219	24.3	219	24.3
454.calculix	591	14.0	591	14.0	591	14.0	577	14.3	576	14.3	576	14.3
459.GemsFDTD	971	10.9	971	10.9	971	10.9	976	10.9	976	10.9	976	10.9
465.tonto	673	14.6	675	14.6	675	14.6	649	15.2	648	15.2	648	15.2
470.lbm	2107	6.52	2108	6.52	2109	6.51	2105	6.53	2107	6.52	2108	6.52
481.wrf	686	16.3	686	16.3	686	16.3	712	15.7	713	15.7	711	15.7
482.sphinx3	1029	18.9	1026	19.0	1038	18.8	1016	19.2	1018	19.2	1032	18.9

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.
"ulimit -s unlimited" set
Single processor kernel used

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Continued on next page



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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

Continued on next page



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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 -auto_ilp32

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 other inquiries, please contact webmaster@spec.org.

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