



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp®2006 = 10.9

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp_base2006 = 10.8

CPU2006 license: 3

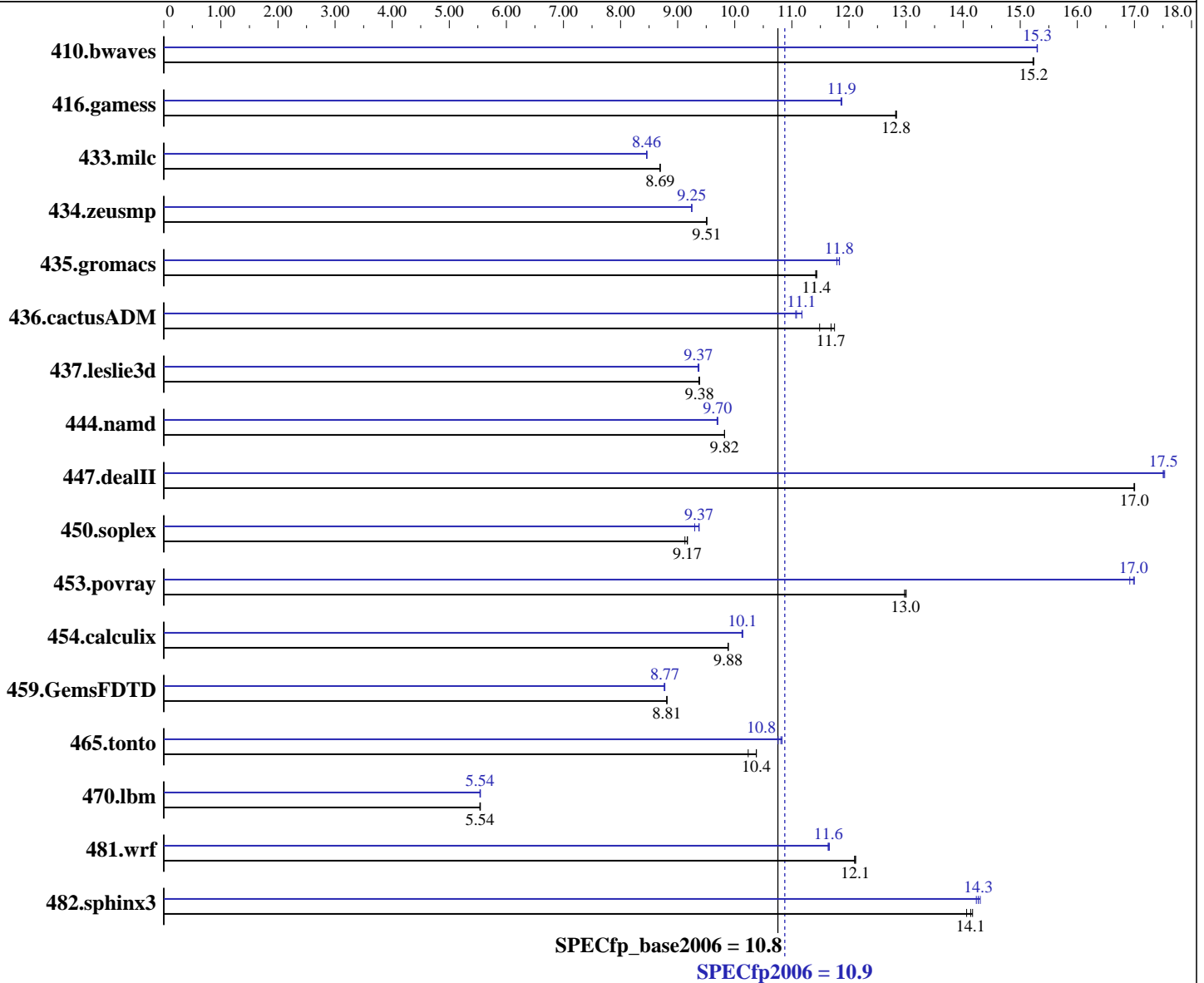
Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Intel Xeon E5320
 CPU Characteristics: 1.86 GHz, 2x4 MB L2 shared, 1066 MHz system bus
 CPU MHz: 1860
 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

Continued on next page

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64) kernel 2.6.16.21-0.8-default
 Compiler: Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: 1_cc_c_9.1.045
 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: 1_fc_c_9.1.040
 Auto Parallel: No

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = **10.9**

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp_base2006 = **10.8**

CPU2006 license: 3

Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006

L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem: 2x72 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	892	15.2	892	15.2	893	15.2	889	15.3	888	15.3	888	15.3
416.gamess	1528	12.8	1526	12.8	1527	12.8	1649	11.9	1649	11.9	1651	11.9
433.milc	1056	8.69	1056	8.69	1056	8.69	1085	8.46	1085	8.46	1086	8.46
434.zeusmp	957	9.51	957	9.51	957	9.51	984	9.25	984	9.25	984	9.25
435.gromacs	625	11.4	625	11.4	624	11.4	606	11.8	603	11.8	604	11.8
436.cactusADM	1017	11.7	1040	11.5	1023	11.7	1080	11.1	1078	11.1	1069	11.2
437.leslie3d	1002	9.38	1003	9.37	1002	9.39	1003	9.37	1004	9.37	1004	9.36
444.namd	817	9.82	817	9.82	816	9.82	827	9.70	828	9.69	827	9.70
447.dealII	673	17.0	673	17.0	673	17.0	653	17.5	653	17.5	653	17.5
450.soplex	909	9.17	914	9.13	910	9.17	890	9.37	897	9.30	890	9.38
453.povray	410	13.0	410	13.0	409	13.0	313	17.0	314	16.9	313	17.0
454.calculix	834	9.89	835	9.88	835	9.88	814	10.1	815	10.1	814	10.1
459.GemsFDTD	1204	8.81	1204	8.81	1204	8.81	1209	8.78	1211	8.76	1209	8.77
465.tonto	948	10.4	948	10.4	961	10.2	909	10.8	911	10.8	915	10.8
470.lbm	2478	5.55	2481	5.54	2481	5.54	2477	5.55	2480	5.54	2481	5.54
481.wrf	922	12.1	923	12.1	922	12.1	960	11.6	958	11.7	960	11.6
482.sphinx3	1376	14.2	1379	14.1	1386	14.1	1366	14.3	1363	14.3	1370	14.2

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.
"/usr/bin/taskset" used to bind processes to CPUs.
Environment stack size set to 'unlimited'
Single processor kernel used.

Base Compiler Invocation

C benchmarks:
icc

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = 10.9

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp_base2006 = 10.8

CPU2006 license: 3

Test date: Feb-2007

Test sponsor: Hewlett-Packard Company

Hardware Availability: Nov-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006

Base Compiler Invocation (Continued)

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:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp2006 = 10.9

SPECfp_base2006 = 10.8

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

Peak Compiler Invocation

C benchmarks:

icc

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

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>



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

ProLiant ML370 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp2006 = 10.9

SPECfp_base2006 = 10.8

CPU2006 license: 3

Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Feb-2007

Hardware Availability: Nov-2006

Software Availability: Nov-2006

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 10:46:05 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 20 March 2007.