



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp®2006 = 16.9

HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 16.3

CPU2006 license: 03

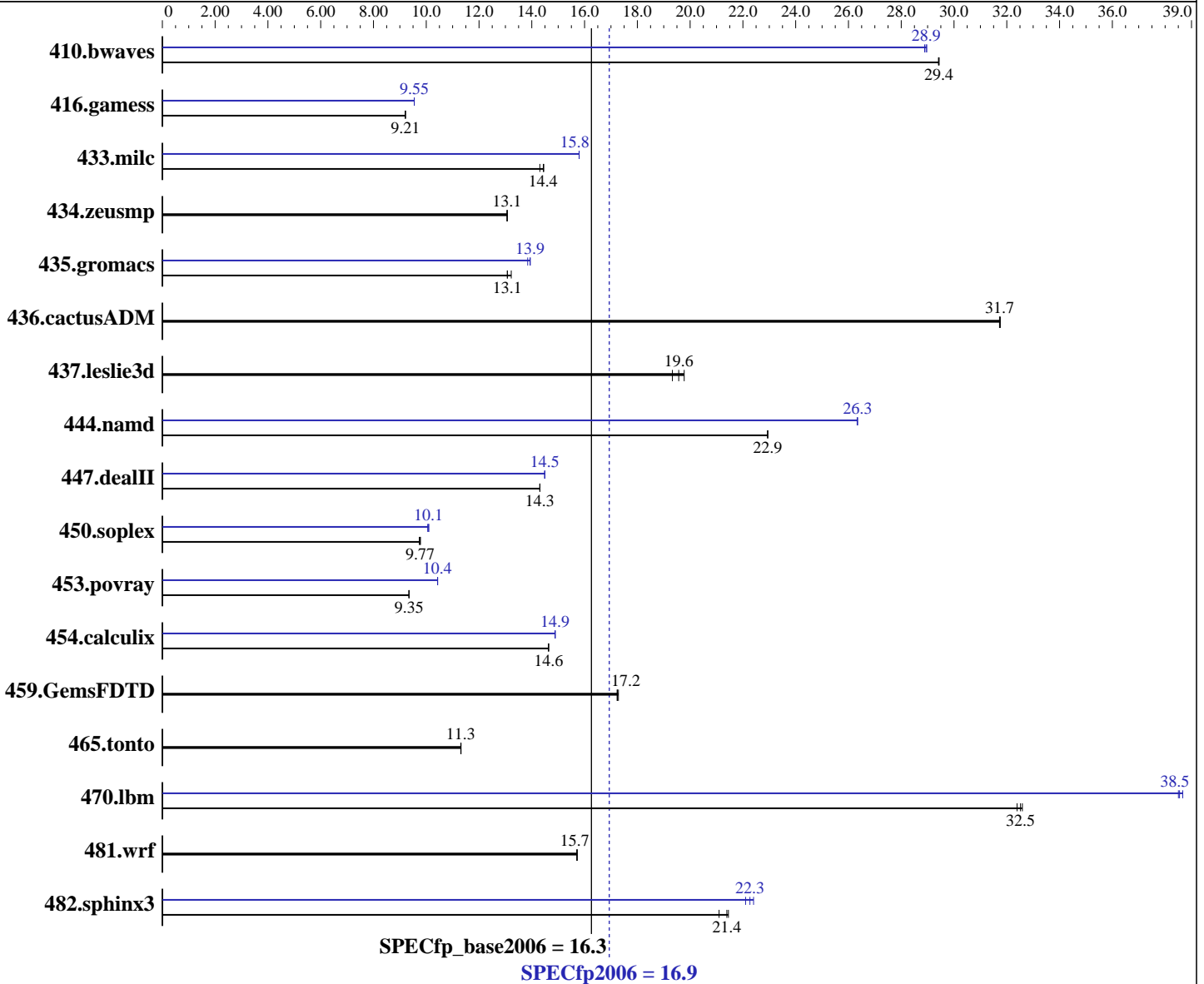
Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9050
 CPU Characteristics: 1.6GHz/24MB, 533MHz FSB
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip
 CPU(s) orderable: 1-4 chips
 Primary Cache: 16 KB I + 16 KB D on chip per core
 Secondary Cache: 1 MB I + 256 KB D on chip per core

Continued on next page

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
 Compiler: Intel C++ Compiler for Itanium version 9.1 (Build 20060818)
 Intel Fortran90 Compiler for Itanium version 9.1 (Build 20060818)
 Auto Parallel: No
 File System: ext3
 System State: Multi-user
 Base Pointers: 64-bit

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = 16.9

HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 16.3

CPU2006 license: 03

Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006

L3 Cache: 12 MB I+D on chip per core
Other Cache: None
Memory: 24 GB (24x1GB DIMMs)
Disk Subsystem: 2x73GB 10K RPM SAS (mirrored)
Other Hardware: None

Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	462	29.4	462	29.4	462	29.4	469	29.0	470	28.9	470	28.9
416.gamess	2126	9.21	2126	9.21	2126	9.21	2051	9.55	2051	9.55	2051	9.55
433.milc	642	14.3	636	14.4	635	14.5	581	15.8	581	15.8	581	15.8
434.zeusmp	697	13.1	697	13.1	696	13.1	697	13.1	697	13.1	696	13.1
435.gromacs	546	13.1	546	13.1	540	13.2	512	13.9	516	13.8	512	13.9
436.cactusADM	377	31.7	376	31.8	377	31.7	377	31.7	376	31.8	377	31.7
437.leslie3d	486	19.3	480	19.6	475	19.8	486	19.3	480	19.6	475	19.8
444.namd	350	22.9	350	22.9	350	22.9	304	26.3	304	26.3	305	26.3
447.dealII	800	14.3	800	14.3	799	14.3	789	14.5	789	14.5	789	14.5
450.soplex	857	9.74	853	9.78	854	9.77	829	10.1	826	10.1	827	10.1
453.povray	569	9.35	569	9.35	569	9.35	510	10.4	510	10.4	510	10.4
454.calculix	564	14.6	564	14.6	564	14.6	554	14.9	554	14.9	554	14.9
459.GemsFDTD	616	17.2	615	17.2	614	17.3	616	17.2	615	17.2	614	17.3
465.tonto	869	11.3	870	11.3	870	11.3	869	11.3	870	11.3	870	11.3
470.lbm	424	32.4	422	32.6	423	32.5	356	38.5	355	38.7	357	38.5
481.wrf	710	15.7	711	15.7	711	15.7	710	15.7	711	15.7	711	15.7
482.sphinx3	909	21.5	924	21.1	911	21.4	875	22.3	882	22.1	870	22.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

stacksize set to unlimited prior to run

system was booted uniprocessor by setting "maxcpus=0"
kernel parameter in elilo.conf

General Notes

Submitted_by: "Kirby Collins" <kirby.collins@hp.com>
Submitted: Wed Nov 1 13:19:17 2006
Submission: cpu2006-20061016-00116.sub



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = 16.9

HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 16.3

CPU2006 license: 03

Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006

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_LINUX -DSPEC_CPU_CASE_FLAG
 482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:

-fast -IPF_fp_relaxed -ansi-alias

C++ benchmarks:

-fast -IPF_fp_relaxed -ansi-alias

Fortran benchmarks:

-fast -IPF_fp_relaxed

Benchmarks using both Fortran and C:

-fast -IPF_fp_relaxed -ansi-alias



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = 16.9

HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 16.3

CPU2006 license: 03

Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

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:

433.milc: -fast -IPF_fp_relaxed -ansi-alias -fno-alias

470.lbm: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias

482.sphinx3: Same as 470.lbm

C++ benchmarks:

444.namd: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-no-prefetch -fno-alias

447.dealII: -fast -IPF_fp_relaxed -ansi-alias -no-alias-args

450.soplex: -fast -IPF_fp_relaxed -ansi-alias -inline-factor=150

453.povray: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-ansi-alias

Fortran benchmarks:

410.bwaves: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed

416.gamess: -fast -IPF_fp_relaxed -inline-factor=150

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

SPECfp2006 = 16.9

HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 16.3

CPU2006 license: 03

Test date: Oct-2006

Test sponsor: Hewlett-Packard Company

Hardware Availability: Sep-2006

Tested by: Hewlett-Packard Company

Software Availability: Nov-2006

Peak Optimization Flags (Continued)

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast -IPF_fp_relaxed
-fno-alias -inline-factor=150

436.cactusADM: basepeak = yes

454.calculix: -fast -IPF_fp_relaxed -fno-alias

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.html

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.xml

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 10:05:07 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 2 November 2006.