SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Hewlett-Packard Company

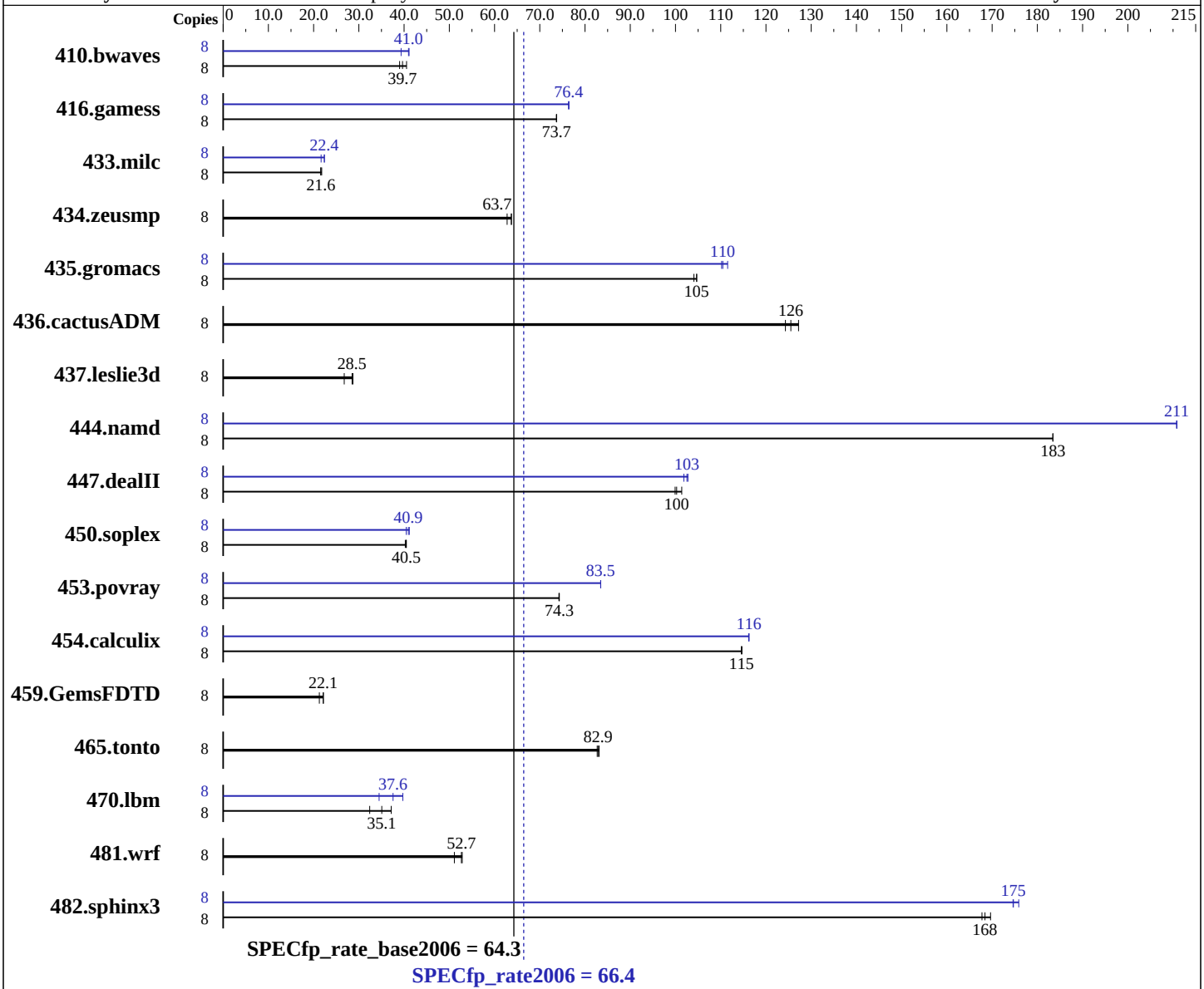
HP Integrity rx6600
(1.6GHz/24MB Dual-Core Intel Itanium 2)

SPECfp®_rate2006 = 66.4

SPECfp_rate_base2006 = 64.3

CPU2006 license: 03
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Oct-2006
Hardware Availability: Sep-2006
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:	8 cores, 4 chips, 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

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

SPECfp_rate2006 = 66.4

SPECfp_rate_base2006 = 64.3

CPU2006 license: 03
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Oct-2006
Hardware Availability: Sep-2006
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**2742**	**39.7**	2681	40.5	2787	39.0	8	2764	39.3	2645	41.1	**2653**	**41.0**
416.gamess	8	2125	73.7	2126	73.7	**2125**	**73.7**	8	2050	76.4	**2050**	**76.4**	2050	76.4
433.milc	8	**3400**	**21.6**	3402	21.6	3371	21.8	8	3391	21.7	3282	22.4	**3283**	**22.4**
434.zeusmp	8	1160	62.8	1142	63.7	**1143**	**63.7**	8	1160	62.8	1142	63.7	**1143**	**63.7**
435.gromacs	8	**546**	**105**	549	104	546	105	8	**517**	**110**	518	110	512	112
436.cactusADM	8	752	127	769	124	**762**	**126**	8	752	127	769	124	**762**	**126**
437.leslie3d	8	2809	26.8	**2639**	**28.5**	2621	28.7	8	2809	26.8	**2639**	**28.5**	2621	28.7
444.namd	8	350	183	**350**	**183**	350	183	8	**304**	**211**	304	211	304	211
447.dealII	8	**913**	**100**	903	101	916	99.9	8	891	103	899	102	**893**	**103**
450.soplex	8	1657	40.3	1647	40.5	**1649**	**40.5**	8	1648	40.5	**1630**	**40.9**	1621	41.2
453.povray	8	**573**	**74.3**	573	74.3	573	74.2	8	**510**	**83.5**	510	83.5	510	83.5
454.calculix	8	576	115	**576**	**115**	576	115	8	568	116	568	116	**568**	**116**
459.GemsFDTD	8	3992	21.3	**3837**	**22.1**	3830	22.2	8	3992	21.3	**3837**	**22.1**	3830	22.2
465.tonto	8	947	83.1	**950**	**82.9**	952	82.7	8	947	83.1	**950**	**82.9**	952	82.7
470.lbm	8	3393	32.4	**3134**	**35.1**	2959	37.2	8	3188	34.5	**2927**	**37.6**	2767	39.7
481.wrf	8	1748	51.1	**1697**	**52.7**	1691	52.9	8	1748	51.1	**1697**	**52.7**	1691	52.9
482.sphinx3	8	929	168	**926**	**168**	919	170	8	**892**	**175**	893	175	886	176

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
```

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Continued on next page

Base Compiler Invocation (Continued)

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

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Continued on next page

Peak Compiler Invocation (Continued)

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

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

Continued on next page

Peak Optimization Flags (Continued)

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 10:11:14 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 15 November 2006.