



SPEC® CFP2006 Result

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Hewlett-Packard Company

HP Integrity BL860c
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECfp®_rate2006 = 45.5

SPECfp_rate_base2006 = 44.5

CPU2006 license: 03

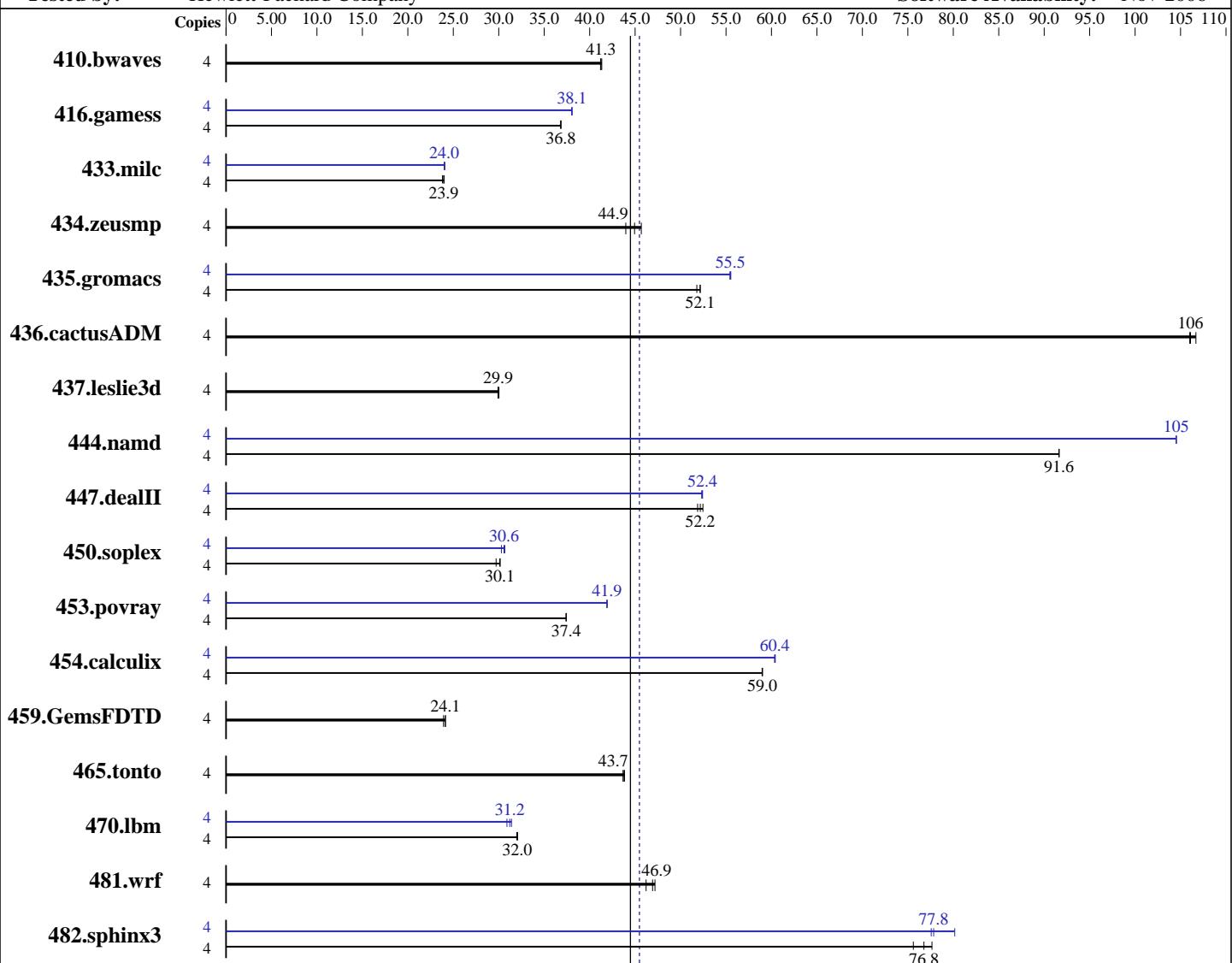
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Jan-2007

Hardware Availability: Feb-2007

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9040
CPU Characteristics: 1.6GHz/18MB, 533MHz FSB
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
CPU(s) orderable: 1-2 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

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
Compiler: Intel C++ Compiler 9.1 for Linux (Build 20061105)
Auto Parallel: Intel Fortran Compiler 9.1 for Linux (Build 20061105)
File System: ext3
System State: Multi-user

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L3 Cache: 9 MB I+D on chip per core
Other Cache: None
Memory: 12 GB (12x1GB DIMMs)
Disk Subsystem: 36GB 10K RPM SAS
Other Hardware: None

Base Pointers: 64-bit
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	4	1320	41.2	1315	41.3	1318	41.3	4	1320	41.2	1315	41.3	1318	41.3
416.gamess	4	2127	36.8	2126	36.8	2127	36.8	4	2058	38.1	2058	38.1	2059	38.0
433.milc	4	1543	23.8	1531	24.0	1534	23.9	4	1530	24.0	1529	24.0	1525	24.1
434.zeusmp	4	810	44.9	797	45.7	828	44.0	4	810	44.9	797	45.7	828	44.0
435.gromacs	4	548	52.1	551	51.8	547	52.2	4	514	55.5	515	55.5	515	55.4
436.cactusADM	4	451	106	451	106	448	107	4	451	106	451	106	448	107
437.leslie3d	4	1257	29.9	1257	29.9	1252	30.0	4	1257	29.9	1257	29.9	1252	30.0
444.namd	4	350	91.6	350	91.6	350	91.6	4	307	105	307	105	307	105
447.dealII	4	877	52.2	882	51.9	872	52.5	4	875	52.3	873	52.4	873	52.4
450.soplex	4	1106	30.2	1123	29.7	1108	30.1	4	1088	30.7	1091	30.6	1101	30.3
453.povray	4	569	37.4	569	37.4	569	37.4	4	508	41.9	508	41.9	508	41.9
454.calculix	4	559	59.0	560	59.0	559	59.0	4	547	60.3	546	60.4	546	60.4
459.GemsFDTD	4	1759	24.1	1759	24.1	1774	23.9	4	1759	24.1	1759	24.1	1774	23.9
465.tonto	4	901	43.7	898	43.8	901	43.7	4	901	43.7	898	43.8	901	43.7
470.lbm	4	1715	32.0	1714	32.1	1719	32.0	4	1761	31.2	1779	30.9	1750	31.4
481.wrf	4	947	47.2	967	46.2	952	46.9	4	947	47.2	967	46.2	952	46.9
482.sphinx3	4	1031	75.6	1004	77.7	1016	76.8	4	1002	77.8	1005	77.6	973	80.2

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

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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_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

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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:

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: basepeak = yes

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

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

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Peak Optimization Flags (Continued)

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.20090715.00.html

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.00.xml

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For other inquiries, please contact webmaster@spec.org.

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