



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®_rate2006 = 33.4

HP Integrity rx2620
(1.4GHz/12MB Dual-Core Intel Itanium 2)

SPECfp_rate_base2006 = 32.6

CPU2006 license: 03

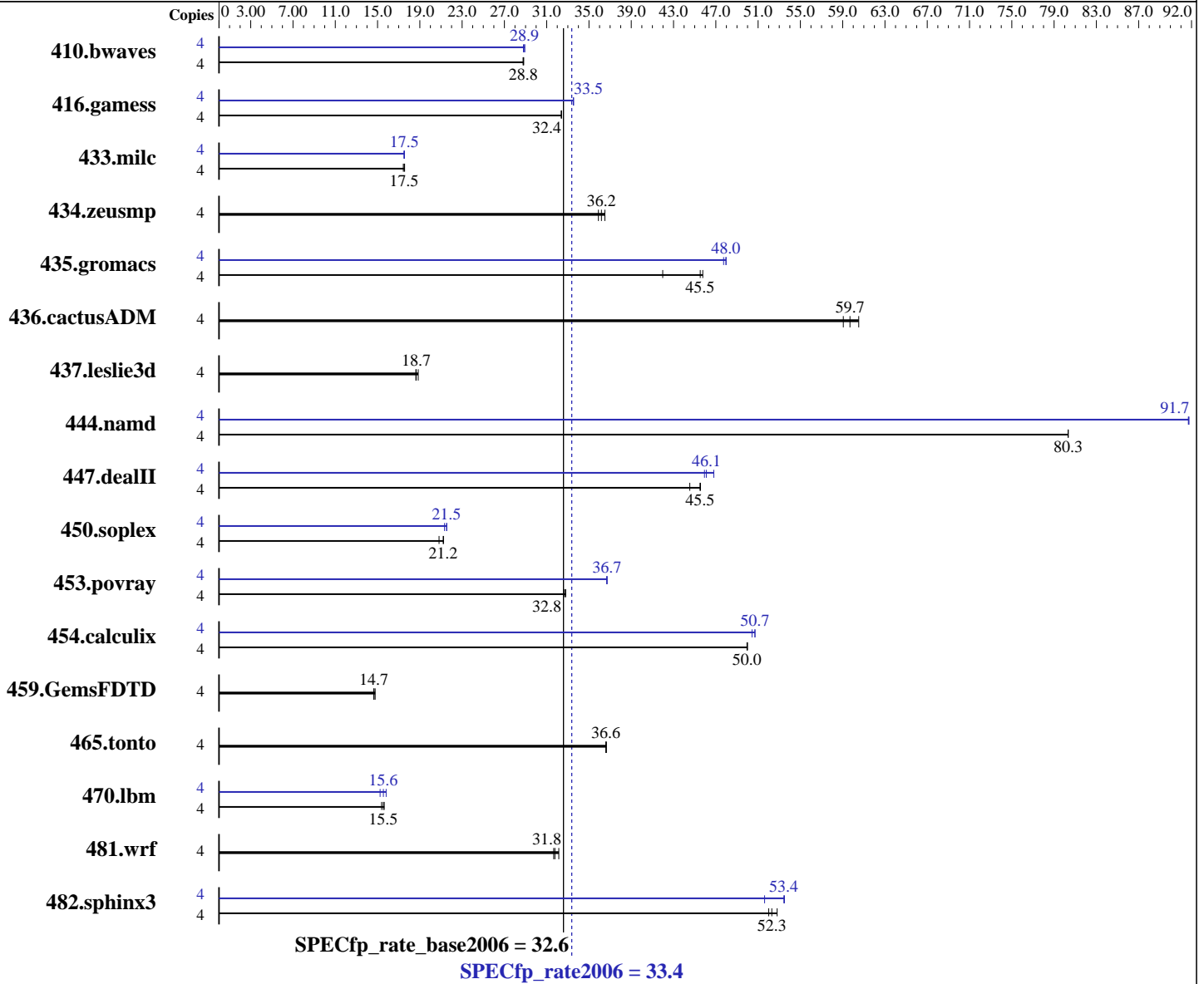
Test date: Nov-2006

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 9015
 CPU Characteristics: 1.4GHz/12MB, 400MHz FSB
 CPU MHz: 1400
 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

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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

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L3 Cache: 6 MB I+D on chip per core
Other Cache: None
Memory: 24 GB (12x2GB DIMMs)
Disk Subsystem: 146GB 10K RPM SCSI
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	4	1886	28.8	1889	28.8	1889	28.8	4	1888	28.8	1879	28.9	1881	28.9
416.gamess	4	2418	32.4	2418	32.4	2418	32.4	4	2336	33.5	2336	33.5	2335	33.5
433.milc	4	2091	17.6	2106	17.4	2096	17.5	4	2094	17.5	2094	17.5	2098	17.5
434.zeusmp	4	1014	35.9	1006	36.2	997	36.5	4	1014	35.9	1006	36.2	997	36.5
435.gromacs	4	627	45.5	624	45.8	680	42.0	4	596	48.0	595	48.0	598	47.7
436.cactusADM	4	809	59.1	790	60.5	801	59.7	4	809	59.1	790	60.5	801	59.7
437.leslie3d	4	1995	18.8	2016	18.7	2019	18.6	4	1995	18.8	2016	18.7	2019	18.6
444.namd	4	399	80.3	399	80.3	399	80.3	4	350	91.7	350	91.7	350	91.7
447.dealII	4	1005	45.6	1027	44.5	1006	45.5	4	978	46.8	992	46.1	996	45.9
450.soplex	4	1571	21.2	1573	21.2	1603	20.8	4	1549	21.5	1564	21.3	1549	21.5
453.povray	4	649	32.8	649	32.8	651	32.7	4	580	36.7	580	36.7	580	36.7
454.calculix	4	660	50.0	661	49.9	661	50.0	4	651	50.7	651	50.7	654	50.4
459.GemsFDTD	4	2896	14.7	2873	14.8	2895	14.7	4	2896	14.7	2873	14.8	2895	14.7
465.tonto	4	1075	36.6	1074	36.6	1075	36.6	4	1075	36.6	1074	36.6	1075	36.6
470.lbm	4	3573	15.4	3537	15.5	3516	15.6	4	3606	15.2	3534	15.6	3476	15.8
481.wrf	4	1411	31.7	1390	32.1	1406	31.8	4	1411	31.7	1390	32.1	1406	31.8
482.sphinx3	4	1491	52.3	1499	52.0	1477	52.8	4	1510	51.6	1457	53.5	1459	53.4

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

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.dealIII: -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

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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.html

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

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

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

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