



SPEC® CFP2006 Result

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Hewlett-Packard Company

HP Integrity rx3600
(1.4GHz/12MB Dual-Core Intel Itanium 2)

SPECfp®2006 = 14.6

SPECfp_base2006 = 14.2

CPU2006 license: 03

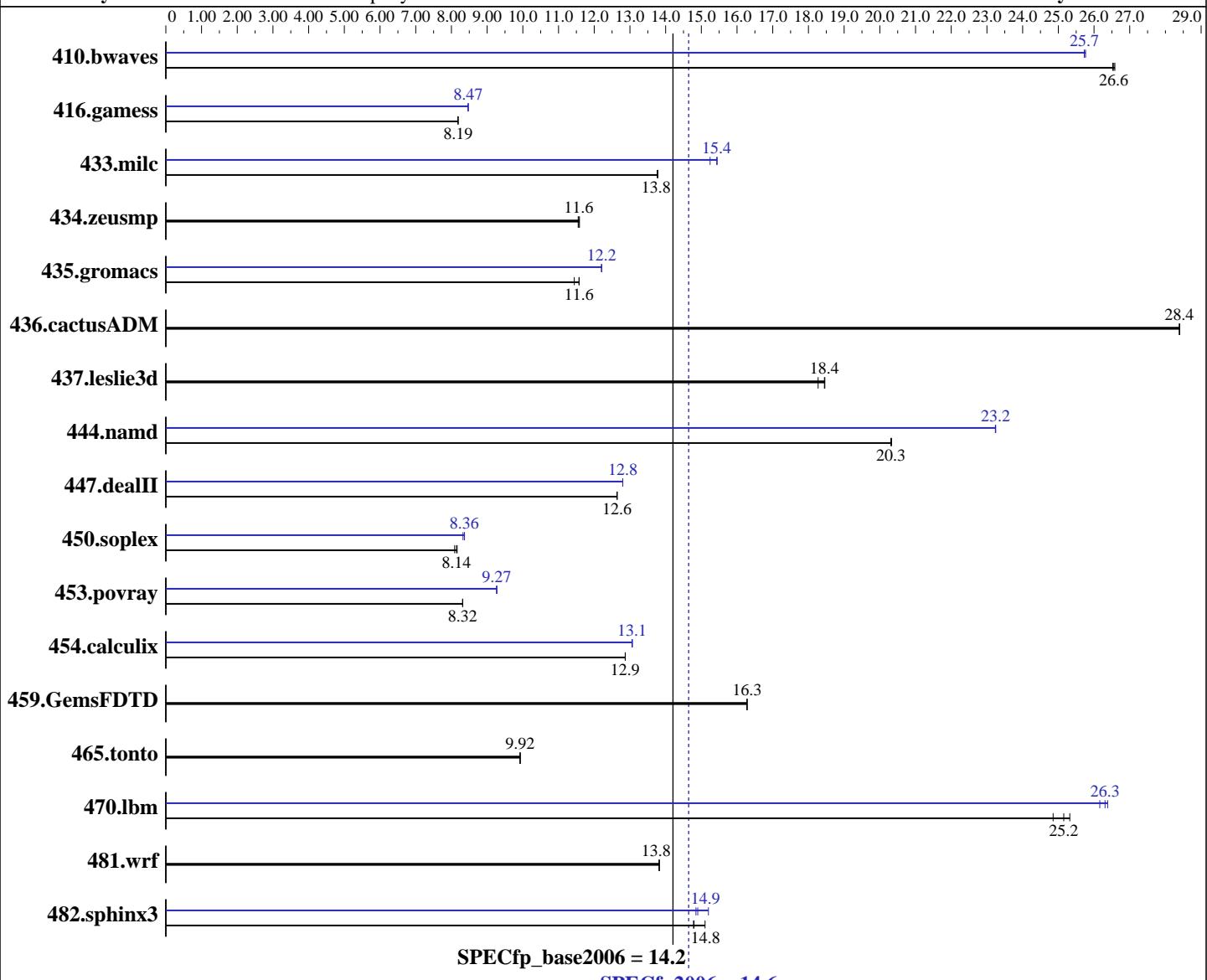
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Dec-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Dual-Core Intel Itanium 2 9020
CPU Characteristics: 1.4GHz/12MB, 533MHz FSB
CPU MHz: 1600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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 20060818)
Auto Parallel: Intel Fortran Compiler 9.1 for Linux (Build 20060818)
File System: No
System State: ext3
Multi-user: Multi-user

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L3 Cache: 6 MB I+D on chip per core
Other Cache: None
Memory: 16 GB (8x2GB DIMMs, AD124A 8-DIMM memory carrier)
Disk Subsystem: 2x73GB 10K RPM SAS (mirrored)
Other Hardware: None

Base Pointers: 64-bit
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	512	26.5	512	26.6	511	26.6	527	25.8	528	25.7	528	25.7
416.gamess	2392	8.19	2392	8.19	2393	8.18	2312	8.47	2312	8.47	2312	8.47
433.milc	666	13.8	666	13.8	667	13.8	594	15.4	602	15.2	595	15.4
434.zeusmp	788	11.6	787	11.6	785	11.6	788	11.6	787	11.6	785	11.6
435.gromacs	617	11.6	617	11.6	624	11.4	585	12.2	585	12.2	585	12.2
436.cactusADM	421	28.4	421	28.4	421	28.4	421	28.4	421	28.4	421	28.4
437.leslie3d	510	18.4	509	18.5	514	18.3	510	18.4	509	18.5	514	18.3
444.namd	395	20.3	395	20.3	395	20.3	345	23.2	345	23.2	345	23.2
447.dealII	905	12.6	905	12.6	905	12.6	894	12.8	894	12.8	894	12.8
450.soplex	1022	8.16	1031	8.09	1024	8.14	997	8.37	1002	8.32	997	8.36
453.povray	640	8.32	640	8.31	640	8.32	574	9.27	574	9.27	574	9.27
454.calculix	641	12.9	641	12.9	641	12.9	631	13.1	631	13.1	632	13.1
459.GemsFDTD	652	16.3	652	16.3	652	16.3	652	16.3	652	16.3	652	16.3
465.tonto	991	9.93	992	9.92	991	9.92	991	9.93	992	9.92	991	9.92
470.lbm	553	24.9	546	25.2	543	25.3	521	26.4	522	26.3	525	26.2
481.wrf	808	13.8	808	13.8	808	13.8	808	13.8	808	13.8	808	13.8
482.sphinx3	1290	15.1	1319	14.8	1317	14.8	1313	14.8	1308	14.9	1282	15.2

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

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

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: -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.20090715.html

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

http://www.spec.org/cpu2006/flags/IPF_intel91_flags.20090715.xml

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

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