



SPEC® CFP2006 Result

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Hewlett-Packard Company

SPECfp®2006 = 15.6

HP Integrity rx2620
(1.6GHz/18MB Dual-Core Intel Itanium 2)

SPECfp_base2006 = 15.1

CPU2006 license: 03

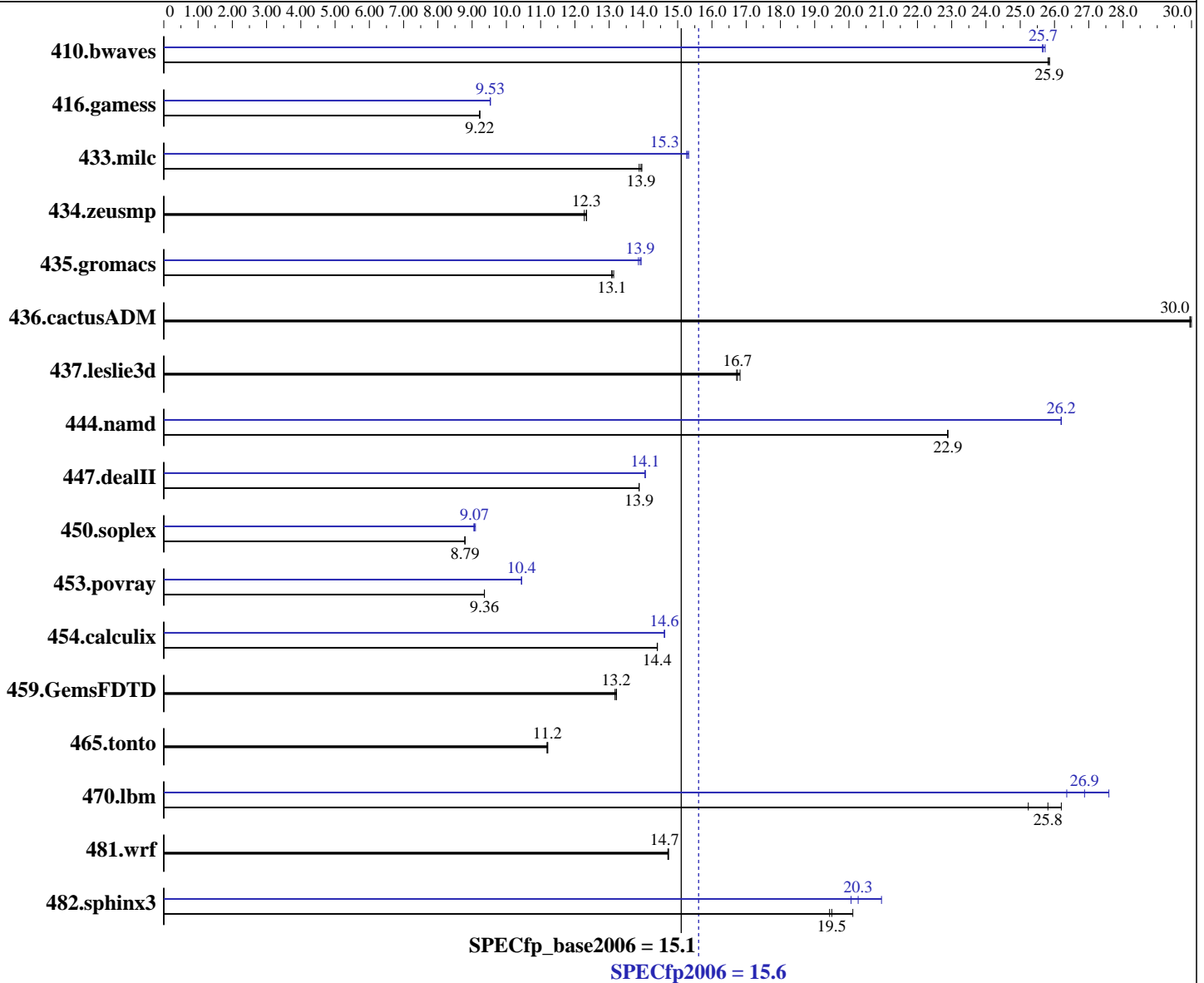
Test date: Oct-2006

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 9040
 CPU Characteristics: 1.6GHz/18MB, 400MHz 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

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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: 9 MB I+D on chip per core
Other Cache: None
Memory: 24 GB (12x2GB DIMMs)
Disk Subsystem: 36GB 15K RPM SCSI
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	527	25.8	526	25.9	526	25.9	530	25.6	528	25.7	529	25.7
416.gamess	2123	9.22	2123	9.22	2123	9.22	2054	9.53	2055	9.53	2054	9.53
433.milc	662	13.9	658	14.0	659	13.9	599	15.3	601	15.3	600	15.3
434.zeusmp	741	12.3	737	12.3	738	12.3	741	12.3	737	12.3	738	12.3
435.gromacs	546	13.1	544	13.1	546	13.1	513	13.9	512	13.9	515	13.9
436.cactusADM	399	30.0	399	30.0	398	30.0	399	30.0	399	30.0	398	30.0
437.leslie3d	561	16.7	559	16.8	562	16.7	561	16.7	559	16.8	562	16.7
444.namd	351	22.9	350	22.9	350	22.9	306	26.2	306	26.2	306	26.2
447.dealII	825	13.9	825	13.9	824	13.9	814	14.1	814	14.1	814	14.0
450.soplex	948	8.80	949	8.79	949	8.79	917	9.10	920	9.07	921	9.05
453.povray	568	9.36	569	9.36	568	9.36	510	10.4	509	10.4	509	10.4
454.calculix	572	14.4	573	14.4	573	14.4	564	14.6	564	14.6	565	14.6
459.GemsFDTD	806	13.2	803	13.2	803	13.2	806	13.2	803	13.2	803	13.2
465.tonto	878	11.2	879	11.2	879	11.2	878	11.2	879	11.2	879	11.2
470.lbm	544	25.2	532	25.8	524	26.2	521	26.4	498	27.6	511	26.9
481.wrf	758	14.7	758	14.7	759	14.7	758	14.7	758	14.7	759	14.7
482.sphinx3	969	20.1	1000	19.5	1003	19.4	930	21.0	972	20.1	962	20.3

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

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