



SPEC® CFP2006 Result

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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

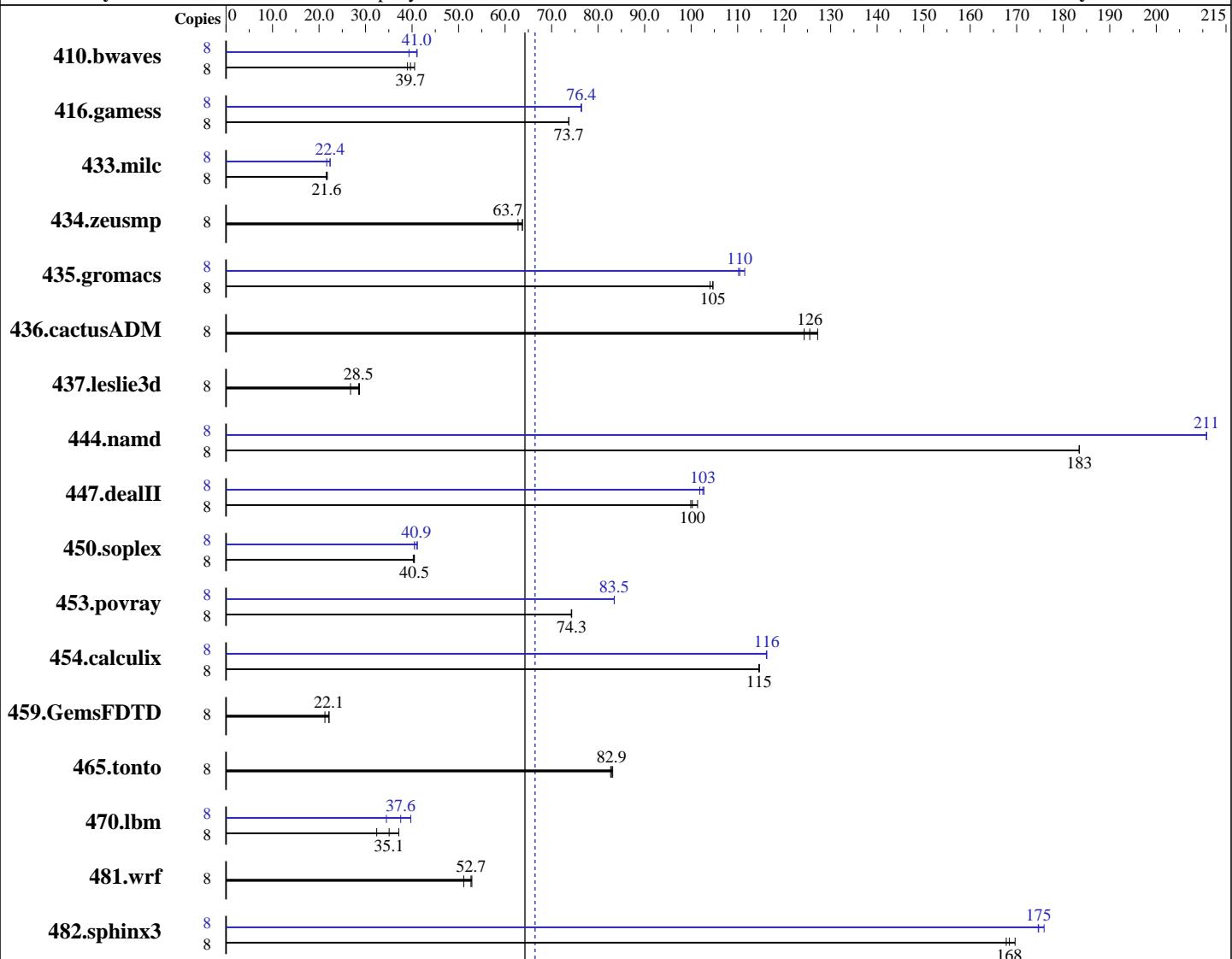
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Oct-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006



SPECfp_rate_base2006 = 64.3

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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

Software

Operating System: Red Hat Enterprise Linux AS release 4 (Update 4)
Compiler: Intel C++ Compiler for Itanium version 9.1 (Build 20060818)
Auto Parallel: Intel Fortran90 Compiler for Itanium version 9.1 (Build 20060818)
File System: No
System State: ext3
Base Pointers: Multi-user
64-bit

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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

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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

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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

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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

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