SPEC® CFP2006 Result

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Hewlett-Packard Company

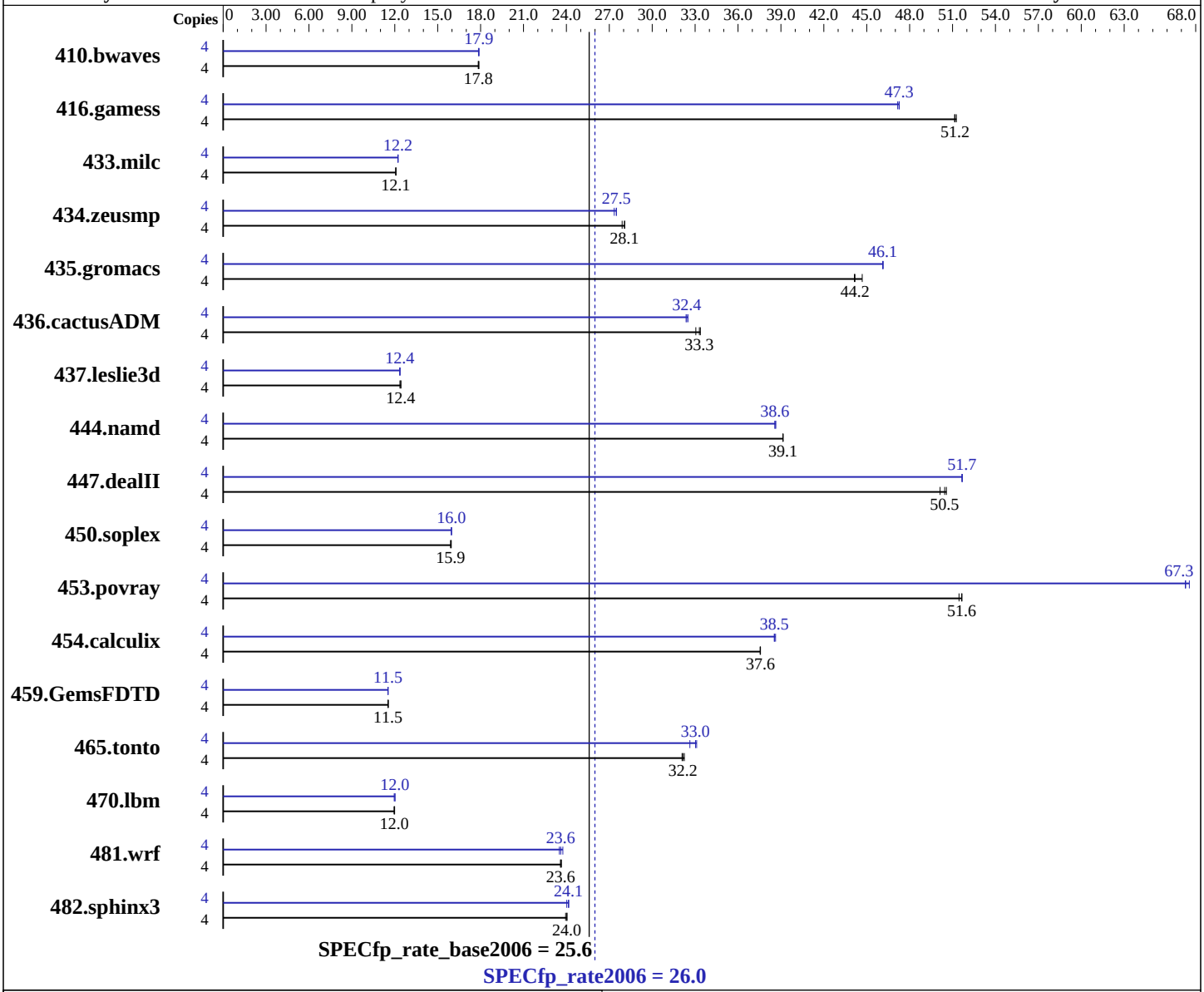
ProLiant DL360 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp®_rate2006 = 26.0

SPECfp_rate_base2006 = 25.6

CPU2006 license: 3
Test sponsor: Hewlett-Packard Company
Tested by: Hewlett-Packard Company

Test date: Feb-2007
Hardware Availability: Jan-2007
Software Availability: Nov-2006



Hardware

CPU Name:	Intel Xeon E5320
CPU Characteristics:	1.86 GHz, 2x4 MB L2 shared, 1066 MHz system bus
CPU MHz:	1860
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores

Continued on next page

Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64) kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: l_cc_c_9.1.045 Intel Fortran Compiler for Intel EM64T-based applications, Version 9.1 Build 20061101, Package ID: l_fc_c_9.1.040
Auto Parallel:	No

Continued on next page

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L3 Cache:	None	File System:	ext2
Other Cache:	None	System State:	Multi-user run level 3
Memory:	16 GB (8x2 GB PC2-5300F CL5)	Base Pointers:	64-bit
Disk Subsystem:	2x72 GB 10k SAS	Peak Pointers:	32/64-bit
Other Hardware:	None	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	3047	17.8	3039	17.9	**3046**	**17.8**	4	3039	17.9	**3040**	**17.9**	3045	17.9
416.gamess	4	1528	51.3	1531	51.1	**1530**	**51.2**	4	1657	47.3	**1657**	**47.3**	1661	47.2
433.milc	4	3041	12.1	3041	12.1	**3041**	**12.1**	4	3003	12.2	**3003**	**12.2**	3004	12.2
434.zeusmp	4	1305	27.9	1296	28.1	**1297**	**28.1**	4	1331	27.3	1324	27.5	**1324**	**27.5**
435.gromacs	4	647	44.1	639	44.7	**646**	**44.2**	4	619	46.1	619	46.1	**619**	**46.1**
436.cactusADM	4	1433	33.4	1446	33.1	**1435**	**33.3**	4	1471	32.5	**1475**	**32.4**	1477	32.4
437.leslie3d	4	**3029**	**12.4**	3025	12.4	3042	12.4	4	3039	12.4	**3043**	**12.4**	3045	12.3
444.namd	4	819	39.2	**820**	**39.1**	820	39.1	4	831	38.6	830	38.6	**831**	**38.6**
447.dealII	4	**907**	**50.5**	913	50.1	905	50.6	4	885	51.7	886	51.7	**886**	**51.7**
450.soplex	4	2091	16.0	2097	15.9	**2096**	**15.9**	4	2089	16.0	2091	16.0	**2090**	**16.0**
453.povray	4	**412**	**51.6**	412	51.7	414	51.5	4	315	67.6	**316**	**67.3**	316	67.3
454.calculix	4	878	37.6	**878**	**37.6**	879	37.5	4	856	38.5	854	38.6	**856**	**38.5**
459.GemsFDTD	4	3674	11.6	**3681**	**11.5**	3683	11.5	4	3680	11.5	**3681**	**11.5**	3684	11.5
465.tonto	4	1221	32.2	**1224**	**32.2**	1227	32.1	4	1189	33.1	**1192**	**33.0**	1206	32.6
470.lbm	4	4584	12.0	4599	11.9	**4590**	**12.0**	4	4575	12.0	4595	12.0	**4575**	**12.0**
481.wrf	4	1889	23.7	1894	23.6	**1894**	**23.6**	4	**1893**	**23.6**	1901	23.5	1881	23.8
482.sphinx3	4	3243	24.0	3256	23.9	**3244**	**24.0**	4	**3230**	**24.1**	3226	24.2	3245	24.0

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Platform Notes

```
Power Regulator set to Static High Performance Mode in BIOS.
Adjacent Sector Prefetch Disabled in BIOS.
"/usr/bin/taskset" used to bind processes to CPUs.
Environment stack size set to 'unlimited'
```

Base Compiler Invocation

C benchmarks:
`icc`

C++ benchmarks:
`icpc`

Continued on next page

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_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
icc

Continued on next page

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:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

C++ benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

Fortran benchmarks:
-prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:
-prof_gen(pass 1) -prof_use(pass 2) -fast -auto_ilp32

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/hp-ic91-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/hp-ic91-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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