



SPEC® CFP2006 Result

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Hewlett-Packard Company

ProLiant DL380 G5
(1.86 GHz, Intel Xeon processor E5320)

SPECfp[®]_rate2006 = 43.7

SPECfp_rate_base2006 = 43.1

CPU2006 license: 3

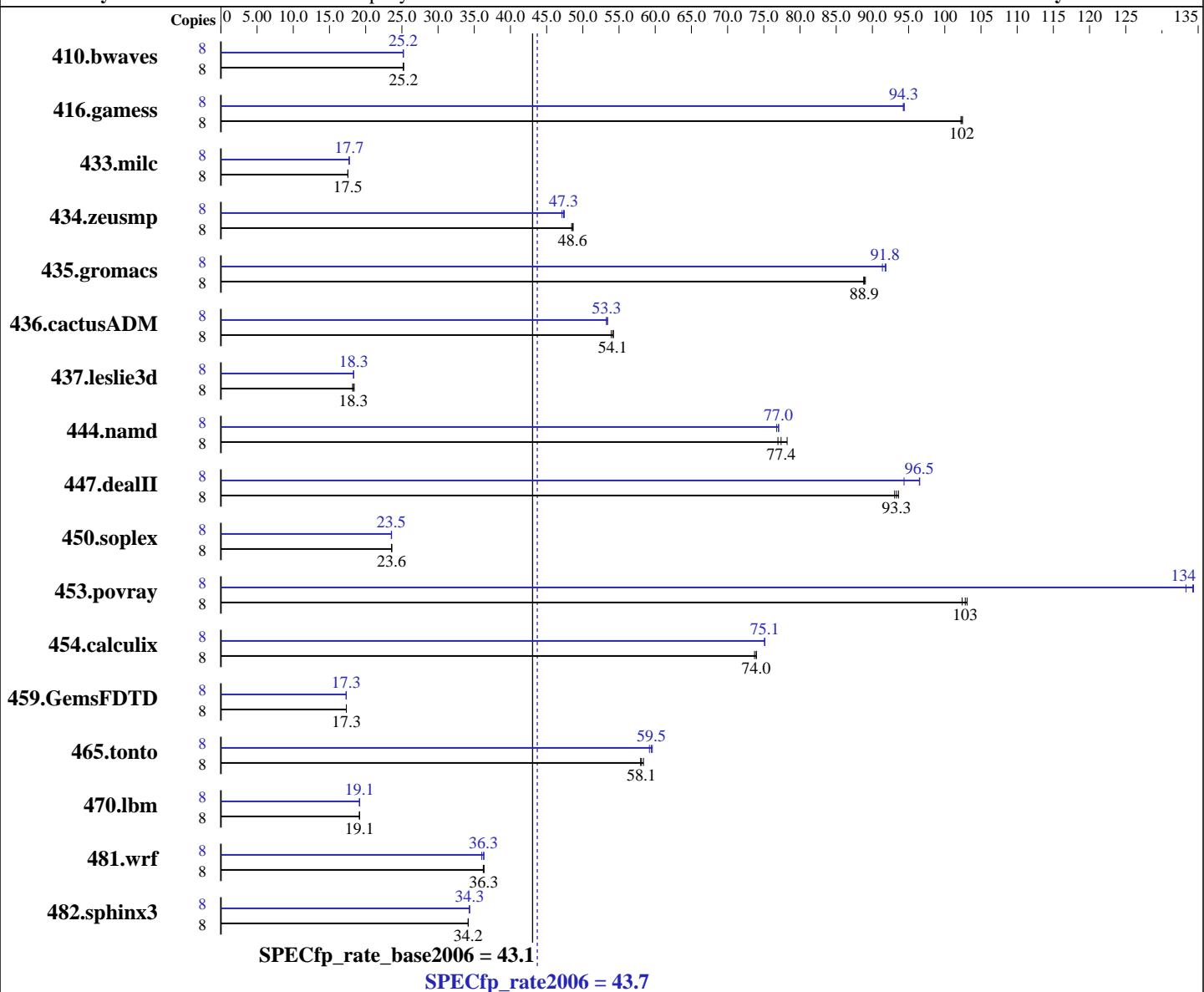
Test sponsor: Hewlett-Packard Company

Tested by: Hewlett-Packard Company

Test date: Feb-2007

Hardware Availability: Nov-2006

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: 8 cores, 2 chips, 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

Software

Operating System: SuSE Linux Enterprise Server 10 (x86_64)
Compiler: kernel 2.6.16.21-0.8-smp
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
Other Cache: None
Memory: 16 GB (8x2 GB PC2-5300F CL5)
Disk Subsystem: 4x36 GB 10 K SAS
Other Hardware: None

File System: ext2
System State: Multi-user run level 3
Base Pointers: 64-bit
Peak Pointers: 32/64-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	4317	25.2	<u>4311</u>	<u>25.2</u>	4307	25.2	8	4313	25.2	4315	25.2	<u>4315</u>	<u>25.2</u>
416.gamess	8	1529	102	<u>1531</u>	<u>102</u>	1532	102	8	1662	94.3	<u>1660</u>	<u>94.3</u>	1659	94.4
433.milc	8	4184	17.6	<u>4185</u>	<u>17.5</u>	4186	17.5	8	4144	17.7	4142	17.7	<u>4144</u>	<u>17.7</u>
434.zeusmp	8	1502	48.5	1496	48.7	<u>1498</u>	<u>48.6</u>	8	1534	47.4	1545	47.1	<u>1538</u>	<u>47.3</u>
435.gromacs	8	643	88.8	<u>643</u>	<u>88.9</u>	642	89.0	8	622	91.9	<u>622</u>	<u>91.8</u>	625	91.4
436.cactusADM	8	1773	53.9	1763	54.2	<u>1766</u>	<u>54.1</u>	8	1789	53.4	1795	53.3	<u>1794</u>	<u>53.3</u>
437.leslie3d	8	4084	18.4	4133	18.2	<u>4111</u>	<u>18.3</u>	8	4097	18.4	4105	18.3	<u>4101</u>	<u>18.3</u>
444.namd	8	<u>829</u>	<u>77.4</u>	820	78.2	834	77.0	8	<u>833</u>	<u>77.0</u>	833	77.1	836	76.8
447.dealII	8	983	93.1	978	93.6	<u>981</u>	<u>93.3</u>	8	970	94.4	948	96.5	<u>949</u>	<u>96.5</u>
450.soplex	8	2829	23.6	<u>2829</u>	<u>23.6</u>	2827	23.6	8	2829	23.6	2833	23.5	<u>2833</u>	<u>23.5</u>
453.povray	8	<u>414</u>	<u>103</u>	413	103	416	102	8	<u>317</u>	<u>134</u>	317	134	319	133
454.calculix	8	<u>892</u>	<u>74.0</u>	895	73.7	892	74.0	8	879	75.1	<u>879</u>	<u>75.1</u>	878	75.1
459.GemsFDTD	8	4898	17.3	4898	17.3	<u>4898</u>	<u>17.3</u>	8	4909	17.3	<u>4903</u>	<u>17.3</u>	4899	17.3
465.tonto	8	1348	58.4	<u>1355</u>	<u>58.1</u>	1358	58.0	8	1321	59.6	<u>1324</u>	<u>59.5</u>	1330	59.2
470.lbm	8	5741	19.1	<u>5741</u>	<u>19.1</u>	5740	19.2	8	5740	19.1	<u>5740</u>	<u>19.1</u>	5739	19.2
481.wrf	8	2466	36.2	2459	36.3	<u>2460</u>	<u>36.3</u>	8	<u>2463</u>	<u>36.3</u>	2480	36.0	<u>2459</u>	<u>36.3</u>
482.sphinx3	8	<u>4565</u>	<u>34.2</u>	4565	34.2	4561	34.2	8	<u>4541</u>	<u>34.3</u>	4537	34.4	<u>4544</u>	<u>34.3</u>

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.

"ulimit -s unlimited" set

Base Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Continued on next page



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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_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



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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:

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

Tested with SPEC CPU2006 v1.0.

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