



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 58.8

Dell Precision T7400 (Intel Xeon X5272, 3.40 GHz)

SPECfp_rate_base2006 = 54.1

CPU2006 license: 55

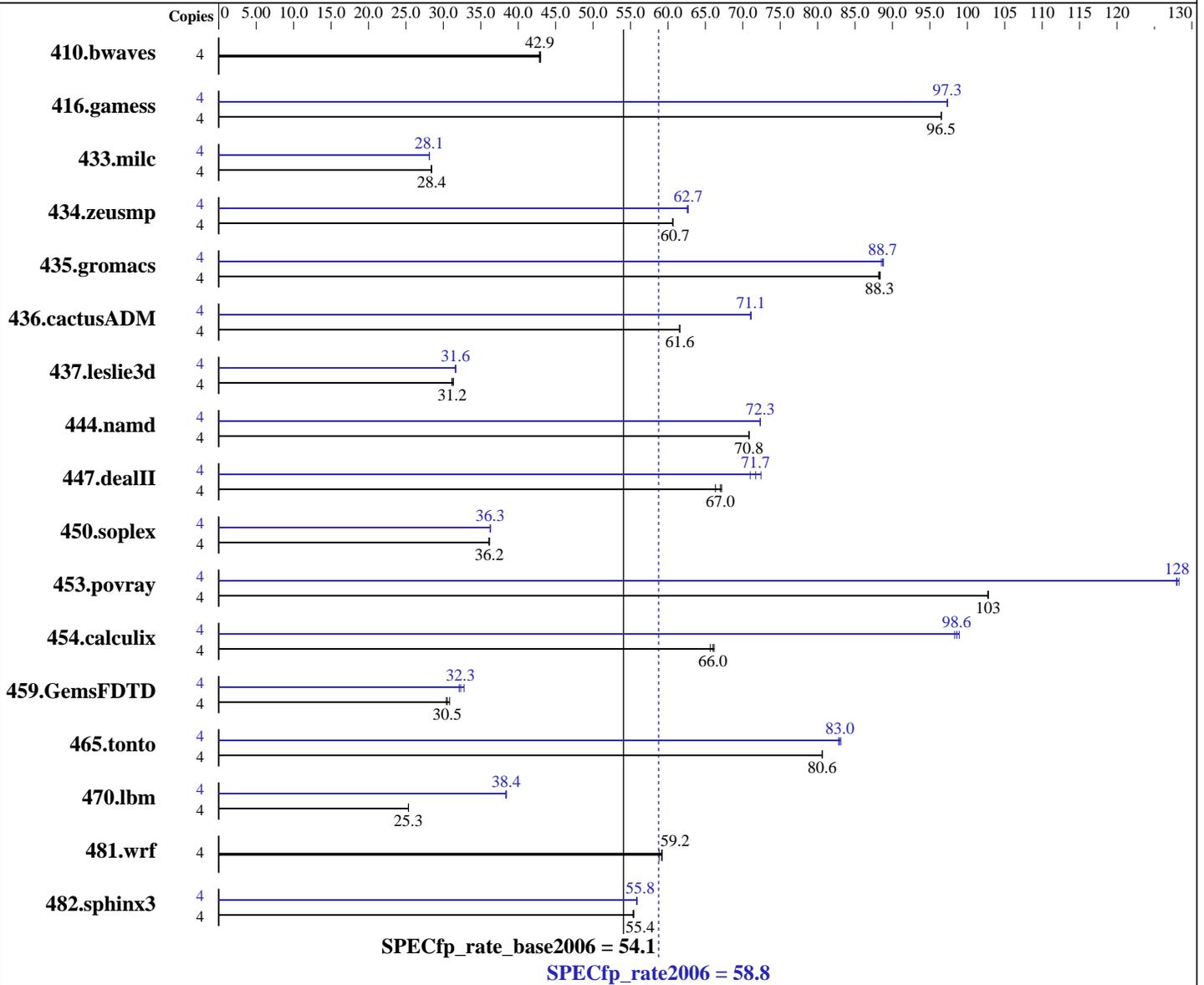
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Apr-2008

Hardware Availability: Jan-2008

Software Availability: Mar-2008



Hardware

CPU Name: Intel Xeon X5272
 CPU Characteristics: 1600 MHz Bus Speed
 CPU MHz: 3400
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 6 MB I+D on chip per chip

Continued on next page

Software

Operating System: Windows Vista Ultimate (64-bit)
 Compiler: Intel C++ Compiler for Intel 64, Version 10.1
 Build 20080312 Package ID: w_cc_p_10.1.021
 Intel Visual Fortran Compiler for Intel 64,
 Version 10.0
 Build 20080312 Package ID: w_fc_p_10.1.021
 Microsoft Visual Studio 2005 SP1

Auto Parallel: No
 File System: NTFS

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8x2 GB 800 MHz CL5 FB-DIMM)
Disk Subsystem: 1 x 160 GB SATA 7200 RPM
Other Hardware: None

System State: Default
Base Pointers: 32/64-bit
Peak Pointers: 32/64-bit
Other Software: MicroQuill SmartHeap Library 8.1 for x64

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1264	43.0	1268	42.9	<u>1267</u>	<u>42.9</u>	4	1264	43.0	1268	42.9	<u>1267</u>	<u>42.9</u>
416.gamess	4	812	96.5	811	96.5	<u>811</u>	<u>96.5</u>	4	<u>805</u>	<u>97.3</u>	804	97.4	805	97.3
433.milc	4	1294	28.4	<u>1291</u>	<u>28.4</u>	1291	28.5	4	<u>1306</u>	<u>28.1</u>	1306	28.1	1304	28.2
434.zeusmp	4	600	60.6	<u>600</u>	<u>60.7</u>	600	60.7	4	580	62.7	582	62.6	<u>580</u>	<u>62.7</u>
435.gromacs	4	<u>324</u>	<u>88.3</u>	323	88.4	324	88.2	4	<u>322</u>	<u>88.7</u>	323	88.5	322	88.8
436.cactusADM	4	<u>776</u>	<u>61.6</u>	776	61.6	777	61.5	4	673	71.0	<u>672</u>	<u>71.1</u>	672	71.1
437.leslie3d	4	1206	31.2	1199	31.4	<u>1206</u>	<u>31.2</u>	4	<u>1189</u>	<u>31.6</u>	1187	31.7	1189	31.6
444.namd	4	453	70.8	<u>453</u>	<u>70.8</u>	453	70.8	4	443	72.4	444	72.3	<u>443</u>	<u>72.3</u>
447.dealII	4	681	67.2	690	66.3	<u>683</u>	<u>67.0</u>	4	645	71.0	<u>638</u>	<u>71.7</u>	632	72.4
450.soplex	4	<u>923</u>	<u>36.2</u>	922	36.2	925	36.1	4	<u>920</u>	<u>36.3</u>	919	36.3	920	36.3
453.povray	4	207	103	207	103	<u>207</u>	<u>103</u>	4	<u>166</u>	<u>128</u>	166	128	166	128
454.calculix	4	499	66.2	503	65.7	<u>500</u>	<u>66.0</u>	4	336	98.3	<u>335</u>	<u>98.6</u>	334	98.9
459.GemsFDTD	4	1396	30.4	1376	30.8	<u>1390</u>	<u>30.5</u>	4	1295	32.8	1322	32.1	<u>1314</u>	<u>32.3</u>
465.tonto	4	488	80.6	488	80.6	<u>488</u>	<u>80.6</u>	4	474	83.1	<u>474</u>	<u>83.0</u>	475	82.8
470.lbm	4	2169	25.3	<u>2168</u>	<u>25.3</u>	2168	25.3	4	<u>1431</u>	<u>38.4</u>	1434	38.3	1431	38.4
481.wrf	4	759	58.8	754	59.2	<u>755</u>	<u>59.2</u>	4	759	58.8	754	59.2	<u>755</u>	<u>59.2</u>
482.sphinx3	4	1409	55.3	1406	55.4	<u>1407</u>	<u>55.4</u>	4	1395	55.9	<u>1396</u>	<u>55.8</u>	1397	55.8

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

General Notes

BIOS Settings
Adjacent Cache Line Prefetch set to ON

Base Compiler Invocation

C benchmarks:
ic1 -Qstd=c99

C++ benchmarks:
ic1

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qstd=c99 ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64
 416.gamess: -DSPEC_CPU_P64
 433.milc: -DSPEC_CPU_P64
 434.zeusmp: -DSPEC_CPU_P64
 435.gromacs: -DSPEC_CPU_P64
 436.cactusADM: -DSPEC_CPU_P64 -Qlowercase /assume:underscore
 437.leslie3d: -DSPEC_CPU_P64
 444.namd: -DSPEC_CPU_P64 /TP
 447.dealII: -DSPEC_CPU_P64 -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
 450.soplex: -DSPEC_CPU_P64
 453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
 454.calculix: -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER -Qlowercase
 459.GemsFDTD: -DSPEC_CPU_P64
 465.tonto: -DSPEC_CPU_P64
 470.lbm: -DSPEC_CPU_P64
 481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
 482.sphinx3: -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:
-fast -Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qauto-ilp32 -Qcxx_features /F1000000000 shlw64m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:
-fast -Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast -Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE



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Peak Compiler Invocation

C benchmarks:
icl -Qstd=c99

C++ benchmarks:
icl

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qstd=c99 ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Oa /F1000000000 -link /FORCE:MULTIPLE

470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

482.sphinx3: -fast -Qauto-ilp32 -Qunroll2 /F1000000000
-link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Oa -Qcxx_features /F1000000000 shlw64m.lib
-link /FORCE:MULTIPLE

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Qprefetch -Qcxx_features /F1000000000
shlw64m.lib -link /FORCE:MULTIPLE

450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qcxx_features /F1000000000 shlw64m.lib
-link /FORCE:MULTIPLE

453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
shlw64m.lib -link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000
-link /FORCE:MULTIPLE

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qprec-div-
-Qunroll10 -Qscalar-rep- /F1000000000
-link /FORCE:MULTIPLE

437.leslie3d: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qprefetch /F1000000000 -link /FORCE:MULTIPLE

459.GemsFDTD: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Ob0 -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

465.tonto: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll4 -Qauto /F1000000000
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Oa -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

454.calculix: -fast -Qauto-ilp32 -Qunroll-aggressive /F1000000000
-link /FORCE:MULTIPLE

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.xml>



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