



SPEC[®] CFP2006 Result

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Dell Inc.

SPECfp[®]_rate2006 = 36.9

Dell Precision 690 (Intel Xeon X5365, 3.00 GHz)

SPECfp_rate_base2006 = 36.2

CPU2006 license: 55

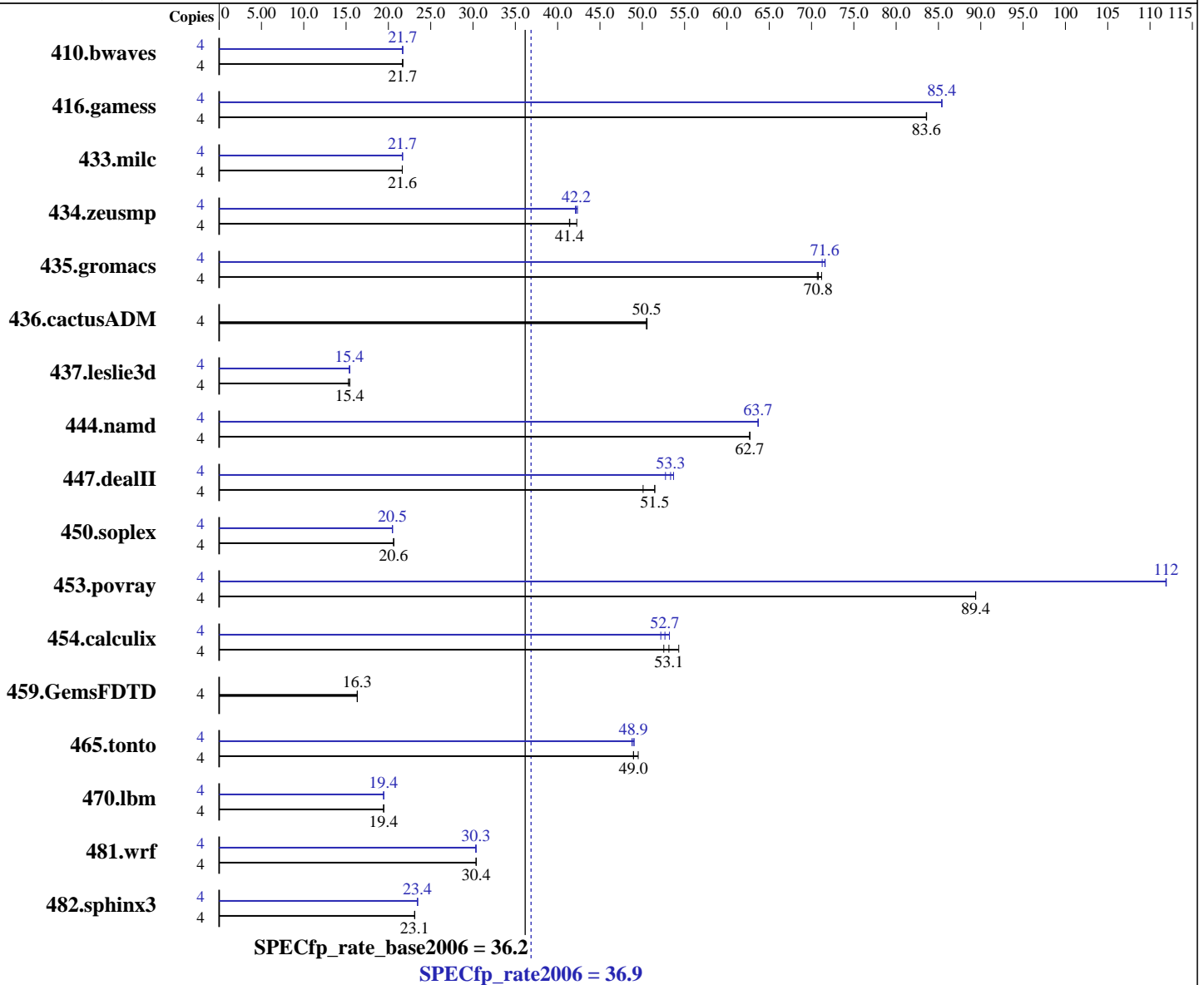
Test date: Jul-2007

Test sponsor: Dell Inc.

Hardware Availability: Aug-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



Hardware

CPU Name: Intel Xeon X5365
 CPU Characteristics: 1333 MHz Bus Speed
 CPU MHz: 3000
 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

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Software

Operating System: Windows XP Professional x64 Edition SP2
 Compiler: Intel C++ Compiler for Intel 64, Version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Intel Visual Fortran Compiler for Intel 64,
 Version 10.0
 Build 20070426 Package ID: W_FC_P_10.0.025
 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 667 MHz ECC CL5 FB-DIMM)
 Disk Subsystem: 1 x 73GB SAS 10K RPM
 Other Hardware: None

System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.0 for x64

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	2505	21.7	2509	21.7	<u>2506</u>	<u>21.7</u>	4	2504	21.7	2509	21.7	<u>2507</u>	<u>21.7</u>
416.gamess	4	937	83.6	<u>937</u>	<u>83.6</u>	937	83.6	4	<u>917</u>	<u>85.4</u>	917	85.4	917	85.4
433.milc	4	<u>1697</u>	<u>21.6</u>	1697	21.6	1696	21.6	4	1693	21.7	<u>1695</u>	<u>21.7</u>	1696	21.7
434.zeusmp	4	879	41.4	<u>878</u>	<u>41.4</u>	861	42.3	4	865	42.1	860	42.3	<u>862</u>	<u>42.2</u>
435.gromacs	4	<u>403</u>	<u>70.8</u>	401	71.2	404	70.7	4	401	71.3	<u>399</u>	<u>71.6</u>	399	71.6
436.cactusADM	4	<u>946</u>	<u>50.5</u>	945	50.6	947	50.5	4	<u>946</u>	<u>50.5</u>	945	50.6	947	50.5
437.leslie3d	4	2437	15.4	2462	15.3	<u>2438</u>	<u>15.4</u>	4	2442	15.4	<u>2441</u>	<u>15.4</u>	2437	15.4
444.namd	4	512	62.7	512	62.7	<u>512</u>	<u>62.7</u>	4	<u>504</u>	<u>63.7</u>	504	63.7	504	63.7
447.dealII	4	<u>889</u>	<u>51.5</u>	889	51.5	913	50.1	4	868	52.7	852	53.7	<u>858</u>	<u>53.3</u>
450.soplex	4	1618	20.6	<u>1617</u>	<u>20.6</u>	1617	20.6	4	1629	20.5	<u>1629</u>	<u>20.5</u>	1628	20.5
453.povray	4	238	89.4	<u>238</u>	<u>89.4</u>	238	89.4	4	<u>190</u>	<u>112</u>	190	112	190	112
454.calculix	4	<u>621</u>	<u>53.1</u>	608	54.3	628	52.5	4	<u>626</u>	<u>52.7</u>	620	53.2	632	52.2
459.GemsFDTD	4	<u>2599</u>	<u>16.3</u>	2598	16.3	2603	16.3	4	<u>2599</u>	<u>16.3</u>	2598	16.3	2603	16.3
465.tonto	4	804	49.0	795	49.5	<u>804</u>	<u>49.0</u>	4	<u>804</u>	<u>48.9</u>	807	48.8	803	49.0
470.lbm	4	2826	19.4	2826	19.4	<u>2826</u>	<u>19.4</u>	4	2826	19.4	<u>2827</u>	<u>19.4</u>	2827	19.4
481.wrf	4	<u>1471</u>	<u>30.4</u>	1472	30.4	1471	30.4	4	1473	30.3	<u>1473</u>	<u>30.3</u>	1472	30.4
482.sphinx3	4	3376	23.1	3372	23.1	<u>3374</u>	<u>23.1</u>	4	3326	23.4	3324	23.5	<u>3326</u>	<u>23.4</u>

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

General Notes

Binaries were built on Windows Vista Ultimate (64-bit)

BIOS Settings

Snoop Filter : OFF
 Adjacent Cache Line Prefetch : OFF
 Hardware Prefetcher : OFF

Snoop Filter

Preserves cache coherency while minimizing snoops to remote nodes.

Adjacent Cache Line Prefetch

Prefetch data in order to shorten execution cycles and maximize data processing efficiency.

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General Notes (Continued)

Optimization for high-frequency FSB applicatons: ON

Base Compiler Invocation

C benchmarks:

icl -Qstd=c99

C++ benchmarks:

icl

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

Base Optimization Flags

C benchmarks:

-fast -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

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Base Optimization Flags (Continued)

C++ benchmarks:

-fast -Qcxx_features -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F950000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-fast -Qauto_ilp32 /F950000000 -link /FORCE:MULTIPLE

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: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll12 -Oa -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

470.lbm: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll12 -Qscalar-rep- -Qprefetch -Qauto_ilp32
/F950000000 shlW64M.lib -link /FORCE:MULTIPLE

482.sphinx3: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll12 -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

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Peak Optimization Flags (Continued)

C++ benchmarks:

444.namd: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
-Qcxx_features -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

447.dealIII: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qprefetch -Qcxx_features -Qauto_ilp32 /F950000000
shlW64M.lib -link /FORCE:MULTIPLE

450.soplex: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qcxx_features -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

453.povray: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qansi-alias -Qcxx_features -Qauto_ilp32 /F950000000
shlW64M.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: ONESTEP -fast /F950000000 -link /FORCE:MULTIPLE

416.gamess: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F950000000
-link /FORCE:MULTIPLE

434.zeusmp: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2
-Qprec-div- -Qunroll10 -Qscalar-rep- /F950000000
-link /FORCE:MULTIPLE

437.leslie3d: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
/F950000000 -link /FORCE:MULTIPLE

459.GemsFDTD: basepeak = yes

465.tonto: Same as 437.leslie3d

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
-Qauto_ilp32 /F950000000 -link /FORCE:MULTIPLE

436.cactusADM: basepeak = yes

454.calculix: -fast -Qauto_ilp32 /F950000000
-link /FORCE:MULTIPLE

481.wrf: Same as 454.calculix



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

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

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

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

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