



SPEC[®] CFP2006 Result

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Dell Inc.

SPECfp[®]_rate2006 = 62.4

Dell Precision 690 (Intel Xeon X5365, 3.00 GHz)

SPECfp_rate_base2006 = 61.3

CPU2006 license: 55

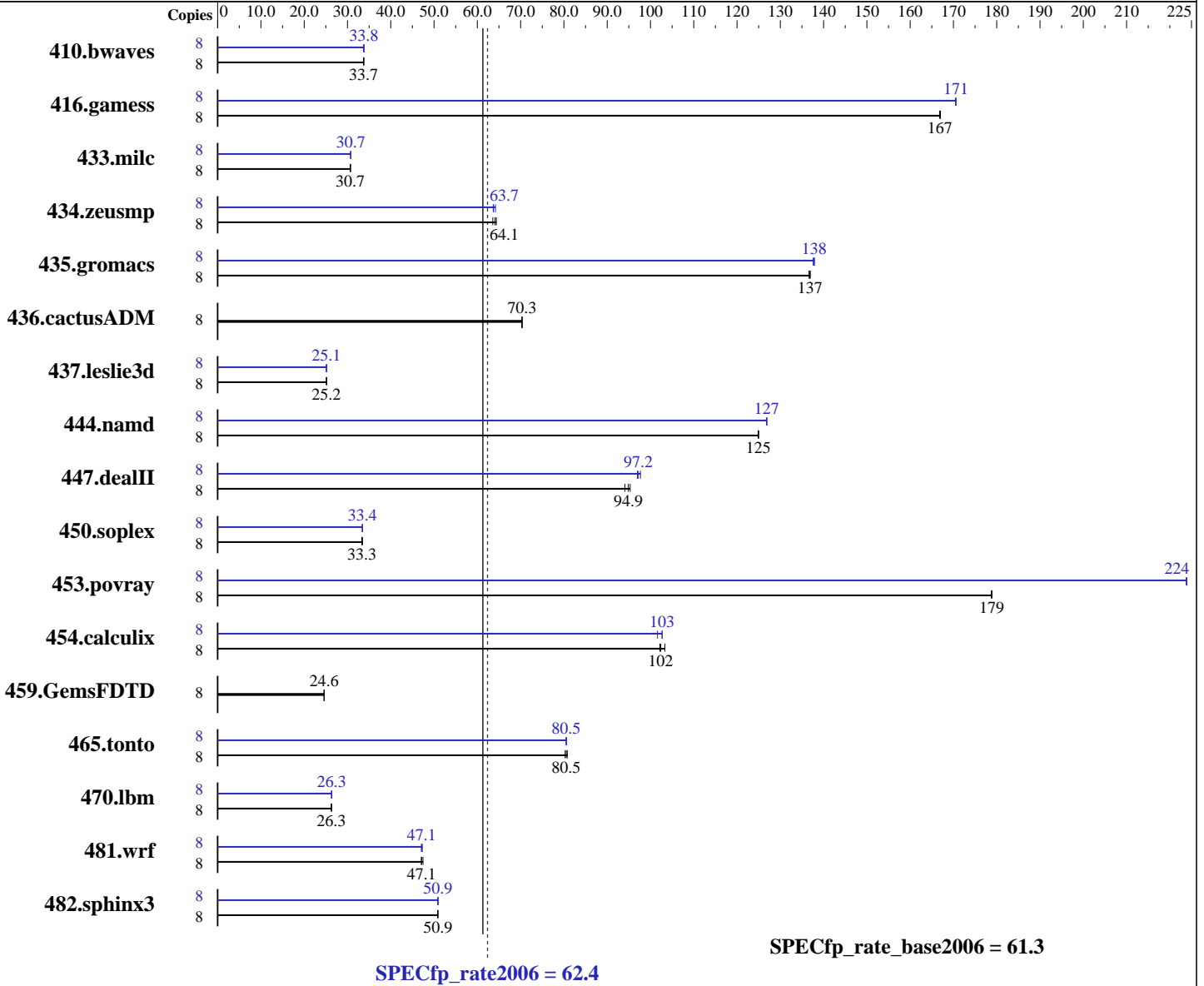
Test date: Aug-2007

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: 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

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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	8	3218	33.8	<u>3222</u>	<u>33.7</u>	3226	33.7	8	3214	33.8	<u>3221</u>	<u>33.8</u>	3222	33.7
416.gamess	8	<u>939</u>	<u>167</u>	939	167	938	167	8	919	170	918	171	<u>918</u>	<u>171</u>
433.milc	8	2393	30.7	2396	30.7	<u>2395</u>	<u>30.7</u>	8	2389	30.7	<u>2389</u>	<u>30.7</u>	2389	30.7
434.zeusmp	8	1131	64.4	<u>1136</u>	<u>64.1</u>	1145	63.6	8	<u>1142</u>	<u>63.7</u>	1143	63.7	1134	64.2
435.gromacs	8	418	137	417	137	<u>417</u>	<u>137</u>	8	414	138	415	138	<u>415</u>	<u>138</u>
436.cactusADM	8	1359	70.3	1359	70.3	<u>1359</u>	<u>70.3</u>	8	1359	70.3	1359	70.3	<u>1359</u>	<u>70.3</u>
437.leslie3d	8	2988	25.2	<u>2990</u>	<u>25.2</u>	2991	25.1	8	<u>2991</u>	<u>25.1</u>	2989	25.2	2993	25.1
444.namd	8	513	125	<u>514</u>	<u>125</u>	514	125	8	<u>506</u>	<u>127</u>	506	127	506	127
447.dealII	8	<u>965</u>	<u>94.9</u>	960	95.3	973	94.1	8	<u>941</u>	<u>97.2</u>	944	97.0	937	97.7
450.soplex	8	1994	33.5	<u>2001</u>	<u>33.3</u>	2002	33.3	8	1997	33.4	1994	33.5	<u>1996</u>	<u>33.4</u>
453.povray	8	238	179	<u>238</u>	<u>179</u>	238	179	8	190	224	<u>190</u>	<u>224</u>	190	224
454.calculix	8	639	103	<u>645</u>	<u>102</u>	646	102	8	649	102	<u>643</u>	<u>103</u>	643	103
459.GemsFDTD	8	3451	24.6	<u>3450</u>	<u>24.6</u>	3447	24.6	8	3451	24.6	<u>3450</u>	<u>24.6</u>	3447	24.6
465.tonto	8	980	80.3	<u>977</u>	<u>80.5</u>	974	80.8	8	977	80.6	978	80.5	<u>978</u>	<u>80.5</u>
470.lbm	8	<u>4181</u>	<u>26.3</u>	4174	26.3	4183	26.3	8	<u>4175</u>	<u>26.3</u>	4176	26.3	4175	26.3
481.wrf	8	1883	47.4	<u>1896</u>	<u>47.1</u>	1899	47.1	8	1890	47.3	<u>1897</u>	<u>47.1</u>	1897	47.1
482.sphinx3	8	3067	50.8	<u>3065</u>	<u>50.9</u>	3063	50.9	8	3063	50.9	<u>3063</u>	<u>50.9</u>	3064	50.9

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
-Qunroll2 -Oa -Qauto_ilp32 /F950000000 shlW64M.lib
-link /FORCE:MULTIPLE

470.lbm: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll2 -Qscalar-rep- -Qprefetch -Qauto_ilp32
/F950000000 shlW64M.lib -link /FORCE:MULTIPLE

482.sphinx3: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
-Qunroll2 -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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For other inquiries, please contact webmaster@spec.org.

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