



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

Dell Precision M90 (Intel T7600,
2.33 GHz)

SPECfp®2006 = 12.7

SPECfp_base2006 = 12.5

CPU2006 license: 55

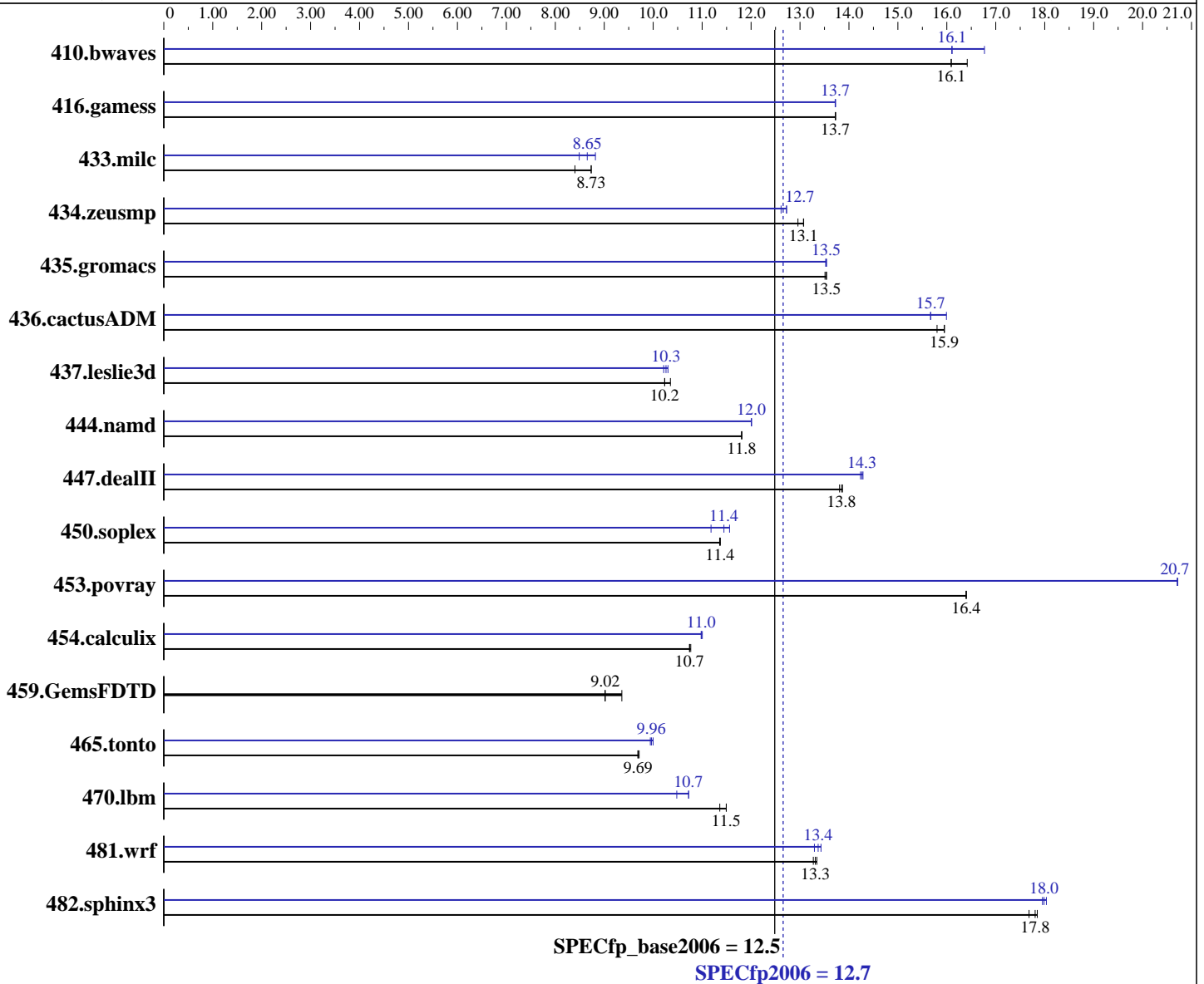
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Dec-2006

Hardware Availability: Sep-2006

Software Availability: Nov-2006



Hardware

CPU Name: Intel Core 2 Duo T7600
 CPU Characteristics: 667 MHz System Bus
 CPU MHz: 2333
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip

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Software

Operating System: Windows XP Professional SP2
 Compiler: Intel C++ Compiler 9.1 for IA32 (20061103Z)
 Intel FORTRAN Compiler 9.1 for IA32 (20061103Z)
 Microsoft Visual Studio 2005
 MicroQuill SmartHeap Library 8.0

Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1 GB 667 MHz CL5 DDR2 SDRAM)
Disk Subsystem: 1 x 80 GB SATA 7200 RPM
Other Hardware: None

Peak Pointers: 32-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	845	16.1	845	16.1	828	16.4	810	16.8	844	16.1	844	16.1
416.gamess	1427	13.7	1427	13.7	1427	13.7	1427	13.7	1427	13.7	1427	13.7
433.milc	1051	8.73	1093	8.40	1051	8.73	1041	8.82	1061	8.65	1082	8.49
434.zeusmp	702	13.0	696	13.1	696	13.1	715	12.7	721	12.6	715	12.7
435.gromacs	528	13.5	527	13.5	527	13.5	528	13.5	528	13.5	527	13.5
436.cactusADM	749	16.0	749	15.9	756	15.8	747	16.0	763	15.7	763	15.7
437.leslie3d	908	10.4	919	10.2	918	10.2	912	10.3	916	10.3	920	10.2
444.namd	679	11.8	679	11.8	679	11.8	668	12.0	668	12.0	668	12.0
447.dealII	829	13.8	826	13.8	825	13.9	804	14.2	801	14.3	802	14.3
450.soplex	734	11.4	734	11.4	733	11.4	746	11.2	721	11.6	729	11.4
453.povray	325	16.4	324	16.4	324	16.4	257	20.7	257	20.7	257	20.7
454.calculix	768	10.7	768	10.7	766	10.8	750	11.0	751	11.0	751	11.0
459.GemsFDTD	1177	9.02	1134	9.36	1176	9.02	1177	9.02	1134	9.36	1176	9.02
465.tonto	1013	9.71	1016	9.69	1016	9.69	990	9.94	984	10.0	987	9.96
470.lbm	1196	11.5	1209	11.4	1195	11.5	1281	10.7	1281	10.7	1311	10.5
481.wrf	842	13.3	839	13.3	837	13.3	840	13.3	835	13.4	832	13.4
482.sphinx3	1102	17.7	1092	17.8	1095	17.8	1081	18.0	1084	18.0	1086	18.0

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

General Notes

32-bit binaries were built on Windows XP Professional x64 Edition

Base Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Fortran benchmarks:
ifort

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
icl -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:
-fast /F512000000 shlW32M.lib -link /FORCE:MULTIPLE

C++ benchmarks:
-fast -Qcxx_features /F512000000 shlW32M.lib
-link /FORCE:MULTIPLE

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

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

Peak Compiler Invocation

C benchmarks:
icl -Qc99

C++ benchmarks:
icl

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qc99 ifort



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Peak Portability Flags

```

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
           -DBOOST_NO_INTRINSIC_WCHAR_T
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

```

Peak Optimization Flags

C benchmarks:

```

ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F512000000
shlW32M.lib -link /FORCE:MULTIPLE

```

C++ benchmarks:

```

ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F512000000 shlW32M.lib -link /FORCE:MULTIPLE

```

Fortran benchmarks:

```

410.bwaves: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast
             /F1000000000 -link /FORCE:MULTIPLE
416.gamess: ONESTEP -fast /F1000000000 -link /FORCE:MULTIPLE
434.zeusmp: Same as 410.bwaves
437.leslie3d: Same as 410.bwaves
459.GemsFDTD: basepeak = yes
465.tonto: Same as 410.bwaves

```

Benchmarks using both Fortran and C:

```

435.gromacs: -fast /F1000000000 -link /FORCE:MULTIPLE
436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F1000000000
               -link /FORCE:MULTIPLE
454.calculix: Same as 436.cactusADM
481.wrf: Same as 435.gromacs

```

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

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.html>



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

<http://www.spec.org/cpu2006/flags/dell.cpu2006.ic91.flags.20090715.xml>

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