



SPEC[®] CFP2006 Result

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Dell Inc.

SPECfp[®]2006 = 16.2

Dell Precision 390 (Intel X6800, 2.93 GHz)

SPECfp_base2006 = 16.0

CPU2006 license: 55

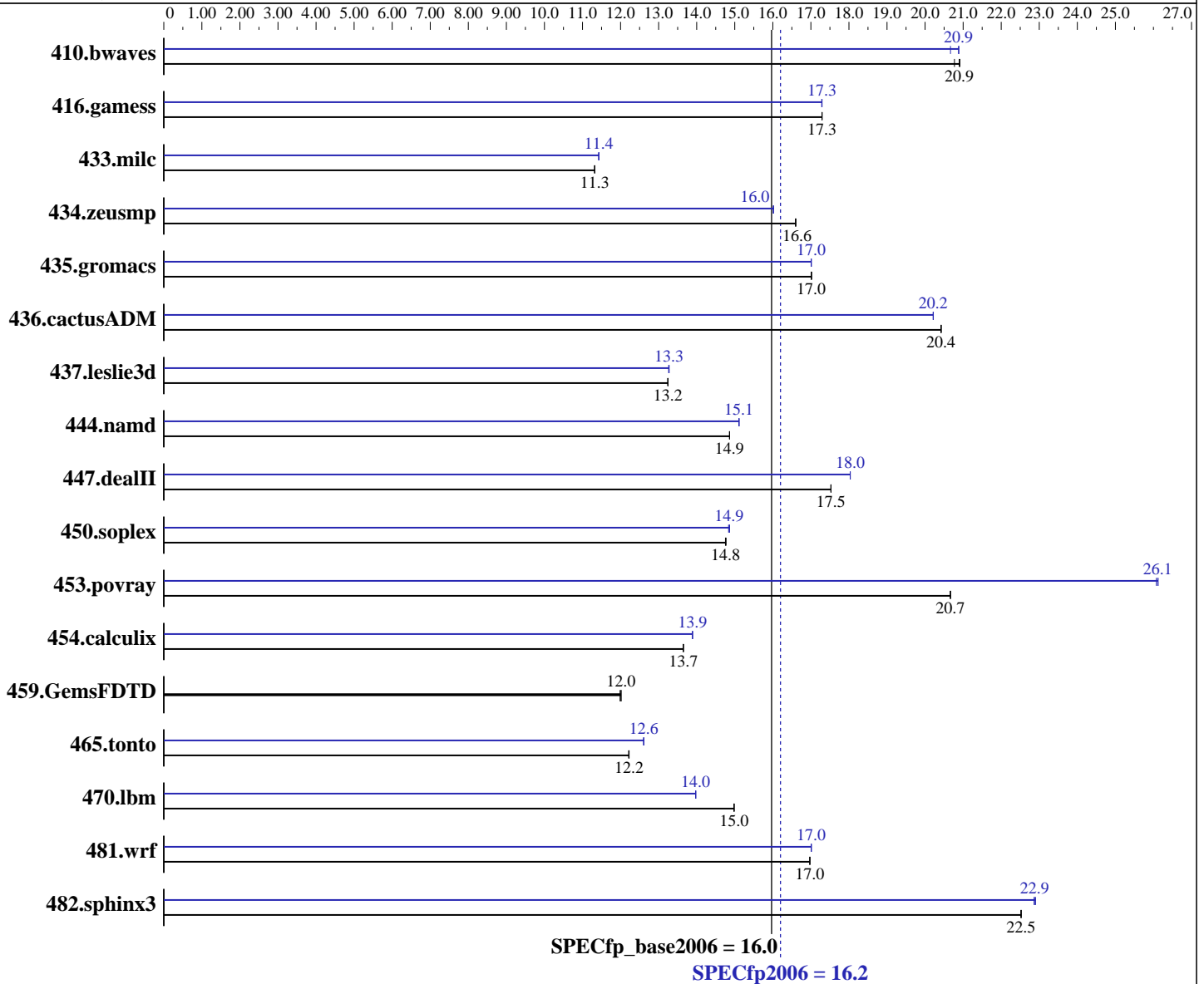
Test date: Dec-2006

Test sponsor: Dell Inc.

Hardware Availability: Jul-2006

Tested by: Dell Inc.

Software Availability: Nov-2006



Hardware

CPU Name: Intel Core 2 Extreme X6800
 CPU Characteristics: 1066 MHz System Bus
 CPU MHz: 2933
 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: 4 GB (4x1GB 667 MHz ECC 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	650	20.9	654	20.8	650	20.9	658	20.7	651	20.9	651	20.9
416.gamess	1132	17.3	1132	17.3	1132	17.3	1133	17.3	1132	17.3	1132	17.3
433.milc	811	11.3	811	11.3	811	11.3	804	11.4	803	11.4	803	11.4
434.zeusmp	548	16.6	548	16.6	548	16.6	568	16.0	568	16.0	568	16.0
435.gromacs	420	17.0	420	17.0	420	17.0	420	17.0	420	17.0	420	17.0
436.cactusADM	585	20.4	585	20.4	585	20.4	591	20.2	591	20.2	591	20.2
437.leslie3d	710	13.2	710	13.2	709	13.2	708	13.3	708	13.3	709	13.3
444.namd	540	14.9	540	14.9	540	14.9	531	15.1	531	15.1	531	15.1
447.dealII	653	17.5	653	17.5	653	17.5	634	18.0	634	18.0	634	18.0
450.soplex	565	14.8	565	14.8	565	14.8	562	14.8	561	14.9	561	14.9
453.povray	257	20.7	257	20.7	257	20.7	204	26.1	204	26.1	204	26.1
454.calculix	605	13.6	604	13.7	604	13.7	594	13.9	594	13.9	594	13.9
459.GemsFDTD	885	12.0	883	12.0	883	12.0	885	12.0	883	12.0	883	12.0
465.tonto	806	12.2	805	12.2	805	12.2	780	12.6	780	12.6	781	12.6
470.lbm	917	15.0	917	15.0	917	15.0	983	14.0	983	14.0	983	14.0
481.wrf	658	17.0	658	17.0	658	17.0	657	17.0	657	17.0	657	17.0
482.sphinx3	865	22.5	865	22.5	866	22.5	852	22.9	851	22.9	852	22.9

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

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