



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 25.3

Dell Precision M6300 (Intel X7900, 2.80 GHz)

SPECfp_rate_base2006 = 24.8

CPU2006 license: 55

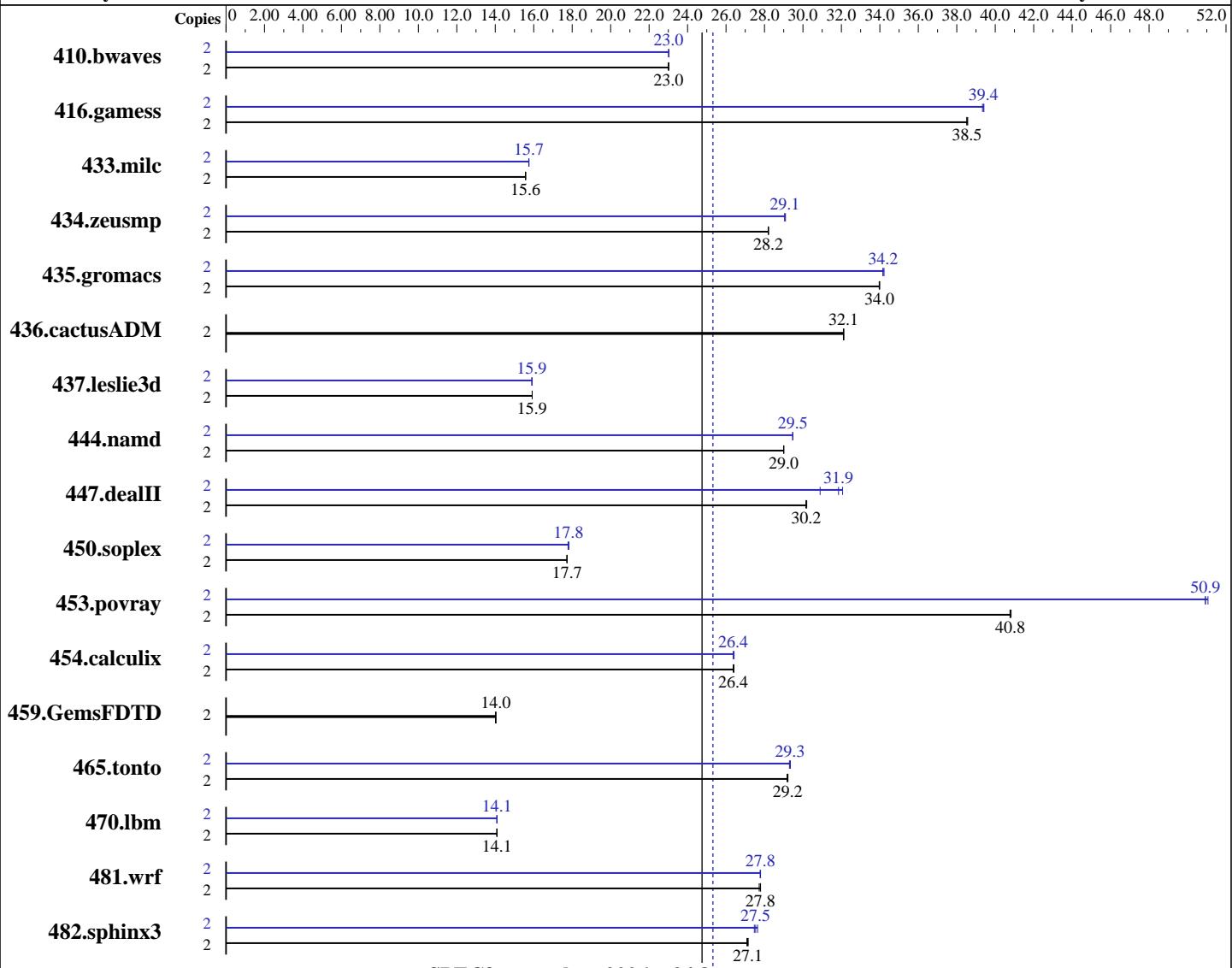
Test date: Aug-2007

Test sponsor: Dell Inc.

Hardware Availability: Aug-2007

Tested by: Dell Inc.

Software Availability: Jun-2007



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Hardware

CPU Name: Intel Core 2 Extreme X7900
CPU Characteristics: 800 MHz Bus Speed
CPU MHz: 2800
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

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	System State:	--
Other Cache:	None	Base Pointers:	32/64-bit
Memory:	4 GB (2x2 GB 667 MHz CL5 DDR2)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 120GB SATA 7200 RPM	Other Software:	MicroQuill SmartHeap Library 8.0 for x64
Other Hardware:	None		

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1182	23.0	<u>1181</u>	<u>23.0</u>	1181	23.0	2	1181	23.0	1181	23.0	<u>1181</u>	<u>23.0</u>
416.gamess	2	1016	38.5	1017	38.5	1015	38.6	2	996	39.3	994	39.4	994	39.4
433.milc	2	1179	15.6	1179	15.6	1179	15.6	2	1166	15.7	1165	15.8	1166	15.7
434.zeusmp	2	645	28.2	645	28.2	645	28.2	2	626	29.1	626	29.1	627	29.0
435.gromacs	2	420	34.0	420	34.0	420	34.0	2	418	34.2	417	34.2	418	34.2
436.cactusADM	2	744	32.1	744	32.1	744	32.1	2	744	32.1	744	32.1	744	32.1
437.leslie3d	2	1181	15.9	1181	15.9	1181	15.9	2	1181	15.9	1182	15.9	1182	15.9
444.namd	2	553	29.0	553	29.0	553	29.0	2	544	29.5	544	29.5	544	29.5
447.dealII	2	758	30.2	758	30.2	759	30.2	2	718	31.9	714	32.1	741	30.9
450.soplex	2	940	17.7	940	17.7	941	17.7	2	938	17.8	936	17.8	936	17.8
453.povray	2	261	40.8	261	40.8	261	40.8	2	209	50.9	209	50.9	208	51.1
454.calculix	2	625	26.4	625	26.4	625	26.4	2	626	26.4	625	26.4	625	26.4
459.GemsFDTD	2	1514	14.0	1512	14.0	1512	14.0	2	1514	14.0	1512	14.0	1512	14.0
465.tonto	2	674	29.2	675	29.2	673	29.2	2	671	29.3	671	29.3	672	29.3
470.lbm	2	1951	14.1	1951	14.1	1950	14.1	2	1951	14.1	1951	14.1	1951	14.1
481.wrf	2	806	27.7	804	27.8	804	27.8	2	804	27.8	804	27.8	804	27.8
482.sphinx3	2	1436	27.2	1437	27.1	1439	27.1	2	1419	27.5	1415	27.5	1410	27.6

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)

Base Compiler Invocation

C benchmarks:

 icl -Qstd=c99

C++ benchmarks:

 icl

Fortran benchmarks:

 ifort

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Base Compiler Invocation (Continued)

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 /F9500000000 shlW64M.lib
-link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx_features -Qauto_ilp32 /F9500000000 shlW64M.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F9500000000 -link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

-fast -Qauto_ilp32 /F9500000000 -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: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast  
         -Qunroll12 -Oa -Qauto_ilp32 /F9500000000 shlw64M.lib  
         -link /FORCE:MULTIPLE
```

```
470.lbm: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast  
         -Qunroll12 -Qscalar-rep- -Qprefetch -Qauto_ilp32  
         /F9500000000 shlw64M.lib                         -link /FORCE:MULTIPLE
```

```
482.sphinx3: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast  
         -Qunroll12 -Qauto_ilp32 /F9500000000 shlw64M.lib  
         -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
444.namd: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa  
         -Qcxx_features -Qauto_ilp32 /F9500000000 shlw64M.lib  
         -link /FORCE:MULTIPLE
```

```
447.dealII: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast  
         -Qprefetch -Qcxx_features -Qauto_ilp32 /F9500000000  
         shlw64M.lib                                 -link /FORCE:MULTIPLE
```

```
450.soplex: ONESTEP -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast  
         -Qcxx_features -Qauto_ilp32 /F9500000000 shlw64M.lib  
         -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

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
-Qunroll12 -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

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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