



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 81.4

Dell Precision T7400 (Intel Xeon X5482, 3.20 GHz)

SPECfp_rate_base2006 = 76.8

CPU2006 license: 55

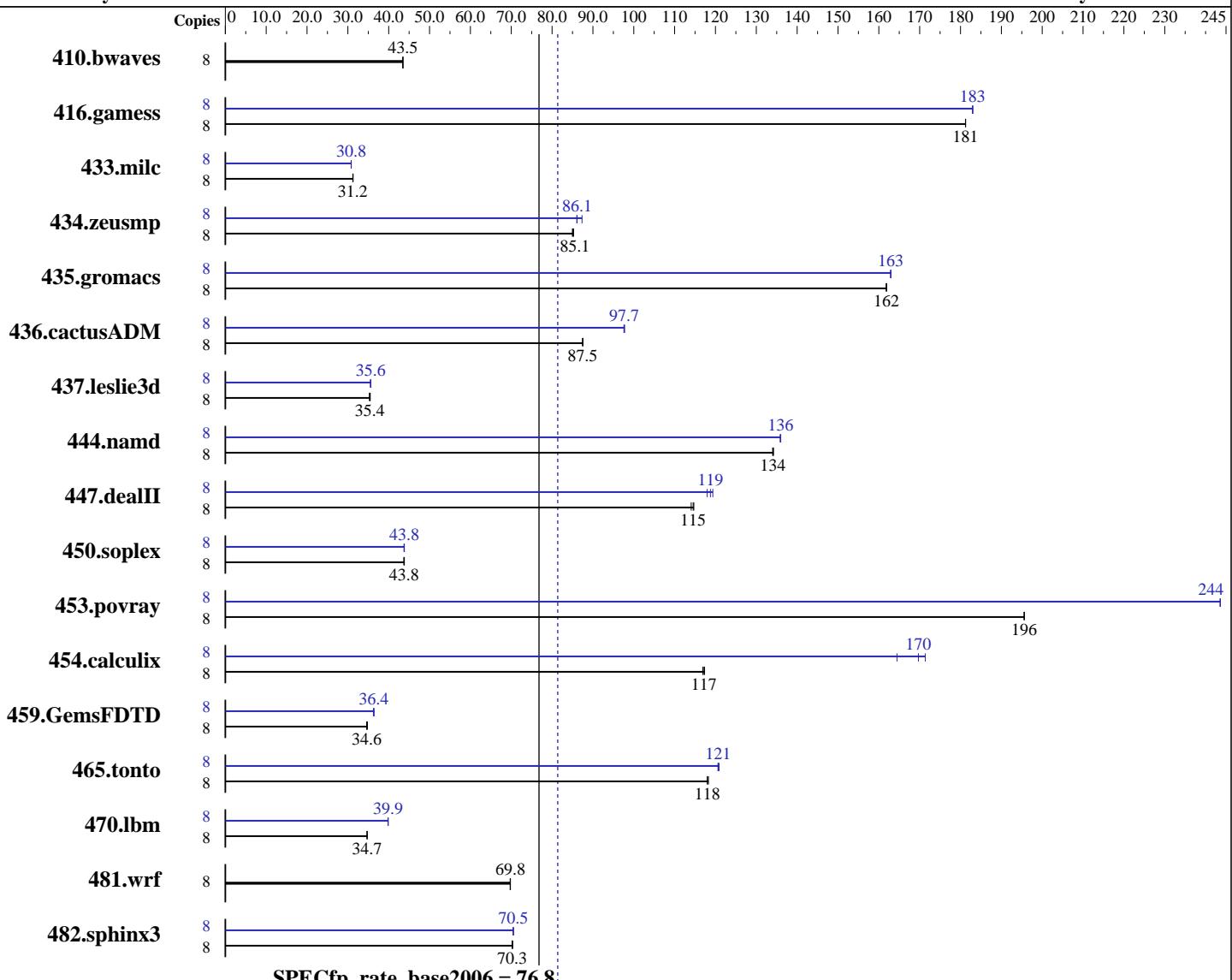
Test date: Dec-2007

Test sponsor: Dell Inc.

Hardware Availability: Nov-2007

Tested by: Dell Inc.

Software Availability: Nov-2007



Hardware

CPU Name: Intel Xeon X5482
 CPU Characteristics: 1600 MHz Bus Speed
 CPU MHz: 3200
 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: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Software

Operating System: Windows XP Professional x64 Edition SP2
 Compiler: Intel C++ Compiler for Intel 64, Version 10.1
 Build 20070809 Package ID: w_cc_p_10.1.011
 Intel Visual Fortran Compiler for Intel 64, Version 10.0
 Build 20070809 Package ID: w_fc_p_10.1.011
 Microsoft Visual Studio 2005 SP1
 Auto Parallel: No
 File System: NTFS

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L3 Cache:	None	System State:	Default
Other Cache:	None	Base Pointers:	32/64-bit
Memory:	16 GB (8x2 GB 800 MHz FB-DIMM CL5)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 73 GB SAS 10K RPM	Other Software:	MicroQuill SmartHeap Library 8.1 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	8	2502	43.5	2501	43.5	2501	43.5	8	2502	43.5	2501	43.5	2501	43.5
416.gamess	8	864	181	864	181	864	181	8	856	183	856	183	856	183
433.milc	8	2347	31.3	2352	31.2	2352	31.2	8	2384	30.8	2382	30.8	2383	30.8
434.zeusmp	8	857	85.0	856	85.1	854	85.3	8	846	86.1	845	86.1	834	87.3
435.gromacs	8	353	162	353	162	353	162	8	351	163	351	163	351	163
436.cactusADM	8	1093	87.5	1092	87.5	1093	87.5	8	978	97.7	979	97.7	980	97.6
437.leslie3d	8	2132	35.3	2120	35.5	2125	35.4	8	2118	35.5	2110	35.6	2113	35.6
444.namd	8	478	134	479	134	479	134	8	472	136	472	136	472	136
447.dealII	8	802	114	799	115	798	115	8	771	119	767	119	776	118
450.soplex	8	1527	43.7	1522	43.8	1523	43.8	8	1525	43.7	1522	43.8	1523	43.8
453.povray	8	218	196	218	196	218	196	8	175	244	175	244	175	244
454.calculix	8	562	117	565	117	563	117	8	401	164	385	171	389	170
459.GemsFDTD	8	2440	34.8	2451	34.6	2453	34.6	8	2332	36.4	2334	36.4	2341	36.3
465.tonto	8	666	118	667	118	667	118	8	652	121	653	121	651	121
470.lbm	8	3165	34.7	3168	34.7	3168	34.7	8	2757	39.9	2760	39.8	2758	39.9
481.wrf	8	1280	69.8	1282	69.7	1280	69.8	8	1280	69.8	1282	69.7	1280	69.8
482.sphinx3	8	2216	70.4	2219	70.3	2221	70.2	8	2211	70.5	2210	70.6	2213	70.4

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

```

Base Optimization Flags

C benchmarks:

```
-fast -Qauto-ilp32 /F100000000000 shlw64m.lib
  -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
-fast -Qauto-ilp32 -Qcxx_features /F100000000000 shlw64m.lib
  -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
-fast -Qauto-ilp32 /F100000000000           -link /FORCE:MULTIPLE
```

Benchmarks using both Fortran and C:

```
-fast -Qauto-ilp32 /F100000000000           -link /FORCE:MULTIPLE
```

Peak Compiler Invocation

C benchmarks:

icl -Qstd=c99

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Peak Compiler Invocation (Continued)

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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
          -Qunroll2 -Oa /F10000000000 shlw64m.lib  
          -link /FORCE:MULTIPLE
```

```
470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
          -Qunroll2 -Qscalar-rep- -Qprefetch /F10000000000  
          shlw64m.lib           -link /FORCE:MULTIPLE
```

```
482.sphinx3: -fast -Qauto-ilp32 -Qunroll2 /F10000000000 shlw64m.lib  
             -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
          -Oa -Qcxx_features /F10000000000 shlw64m.lib  
          -link /FORCE:MULTIPLE
```

```
447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
            -Qunroll2 -Qprefetch -Qcxx_features /F10000000000  
            shlw64m.lib           -link /FORCE:MULTIPLE
```

```
450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
            -Qcxx_features /F10000000000 shlw64m.lib  
            -link /FORCE:MULTIPLE
```

```
453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32  
            -Qunroll4 -Qansi-alias -Qcxx_features /F10000000000  
            shlw64m.lib           -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000
-link /FORCE:MULTIPLE

434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qprec-div-
-Qunroll0 -Qscalar-rep- /F1000000000
-link /FORCE:MULTIPLE

437.leslie3d: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qprefetch /F1000000000 -link /FORCE:MULTIPLE

459.GemsFDTD: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Ob0 -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

465.tonto: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll4 -Qauto /F1000000000
-link /FORCE:MULTIPLE

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Oa -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

436.cactusADM: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qauto-ilp32
-Qunroll2 -Qprefetch /F1000000000
-link /FORCE:MULTIPLE

454.calculix: -fast -Qauto-ilp32 -Qunroll-aggressive /F1000000000
-link /FORCE:MULTIPLE

481.wrf: basepeak = yes

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

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.01.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic10.1.windows.flags.20090714.01.xml>



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