



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®_rate2006 = 86.3

Dell Precision T7400 (Intel Xeon X5492, 3.40 GHz)

SPECfp_rate_base2006 = 85.0

CPU2006 license: 55

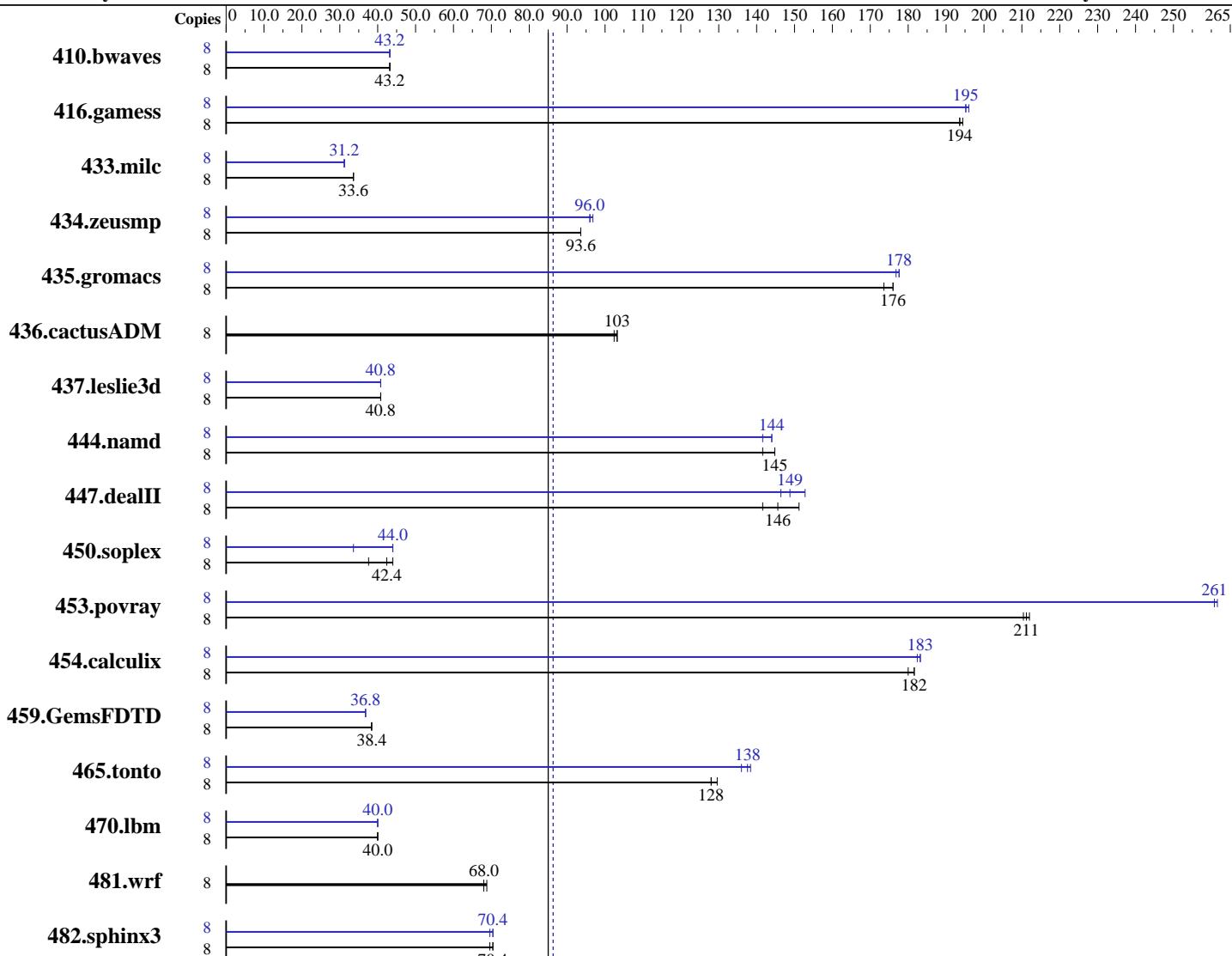
Test date: Nov-2008

Test sponsor: Dell Inc.

Hardware Availability: Sep-2008

Tested by: Dell Inc.

Software Availability: Nov-2008



Hardware

CPU Name: Intel Xeon X5492
 CPU Characteristics: 1600 MHz Bus Speed
 CPU MHz: 3400
 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 Vista Business SP1 (64-bit)
 Compiler: Intel C++ Compiler for Intel 64, Version 11.0
 Build 20080930 Package ID: w_cproc_p_11.0.061
 Intel Visual Fortran Compiler for Intel 64,
 Version 11.0
 Build 20080930 Package ID: w_cprof_p_11.0.061
 Microsoft Visual Studio 2008 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 DDR2-800 FB-DIMM, CL5)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 80 GB SATA 7200 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	2508	43.2	2507	43.2	2506	43.2	8	2505	43.2	2511	43.2	2508	43.2
416.gamess	8	806	194	808	194	808	194	8	802	195	800	196	802	195
433.milc	8	2180	33.6	2173	33.6	2173	33.6	8	2334	31.2	2336	31.2	2337	31.2
434.zeusmp	8	778	93.6	779	93.6	780	93.6	8	755	96.8	757	96.0	756	96.0
435.gromacs	8	329	174	325	176	324	176	8	323	177	321	178	322	178
436.cactusADM	8	932	102	929	103	929	103	8	932	102	929	103	929	103
437.leslie3d	8	1840	40.8	1844	40.8	1839	40.8	8	1847	40.8	1852	40.8	1848	40.8
444.namd	8	454	142	444	145	444	145	8	454	142	445	144	446	144
447.dealII	8	604	151	648	142	628	146	8	615	149	626	146	599	153
450.soplex	8	1587	42.4	1506	44.0	1780	37.6	8	2005	33.6	1513	44.0	1513	44.0
453.povray	8	201	212	202	210	201	211	8	163	261	163	262	163	261
454.calculix	8	363	182	363	182	367	180	8	363	182	361	183	361	183
459.GemsFDTD	8	2210	38.4	2223	38.4	2207	38.4	8	2300	36.8	2298	36.8	2298	36.8
465.tonto	8	606	130	615	128	616	128	8	572	138	570	138	578	136
470.lbm	8	2746	40.0	2743	40.0	2743	40.0	8	2743	40.0	2740	40.0	2740	40.0
481.wrf	8	1316	68.0	1297	68.8	1309	68.0	8	1316	68.0	1297	68.8	1309	68.0
482.sphinx3	8	2234	69.6	2213	70.4	2215	70.4	8	2238	69.6	2206	70.4	2209	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 -Qvc9 -Qstd=c99

C++ benchmarks:

 icl -Qvc9

Fortran benchmarks:

 ifort

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Base Compiler Invocation (Continued)

Benchmarks using both Fortran and C:

icl -Qvc9 -Qstd=c99 ifort

Base Portability Flags

```
410.bwaves: -DSPEC_CPU_P64 /assume:underscore
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:

-QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F512000000

C++ benchmarks:

-QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
-Qcxx_features /F512000000 shlw64m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000

Benchmarks using both Fortran and C:

-QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000



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Peak Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc9
```

Fortran benchmarks:

```
ifort
```

Benchmarks using both Fortran and C:

```
icl -Qvc9 -Qstd=c99 ifort
```

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
433.milc: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)  
          -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa /F512000000
```

```
470.lbm: -QxSSE4.1 -Qipo -O3 -Qprec-div- -Qopt-prefetch  
          /F512000000
```

```
482.sphinx3: -QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qunroll2  
             /F512000000
```

C++ benchmarks:

```
444.namd: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)  
          -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa /F512000000  
          shlw64m.lib -link /FORCE:MULTIPLE
```

```
447.dealII: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)  
            -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2  
            -Qansi-alias -Qscalar-rep- /F512000000 shlw64m.lib  
            -link /FORCE:MULTIPLE
```

```
450.soplex: -Qprof_gen(pass 1) -QxSSE4.1 -Qauto-ilp32  
            -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F512000000  
            shlw64m.lib -link /FORCE:MULTIPLE
```

```
453.povray: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)  
            -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4  
            -Qansi-alias /F512000000 shlw64m.lib
```

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Peak Optimization Flags (Continued)

453.povray (continued):

```
-link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
410.bwaves: -QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div-
-Qopt-prefetch /F10000000000

416.gamess: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0
-Qansi-alias -Qscalar-rep /F10000000000

434.zeusmp: -Qprof_gen(pass 1) -QxSSE4.1 -Qauto-ilp32
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F10000000000

437.leslie3d: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F10000000000

459.GemsFDTD: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0
-Qopt-prefetch /F10000000000

465.tonto: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto
/F10000000000
```

Benchmarks using both Fortran and C:

```
435.gromacs: -Qprof_gen(pass 1) -QxSSE4.1(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F10000000000

436.cactusADM: basepeak = yes

454.calculix: -QxSSE4.1 -Qauto-ilp32 -Qipo -O3 -Qprec-div- /F10000000000

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.ic11.0.windows.flags.html>

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

<http://www.spec.org/cpu2006/flags/dell.ic11.0.windows.flags.xml>



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