



SPEC® CFP2006 Result

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Dell Inc.

SPECfp®2006 = 36.6

Dell Precision T7500 (Intel Xeon X5570, 2.93 GHz)

SPECfp_base2006 = 35.4

CPU2006 license: 55

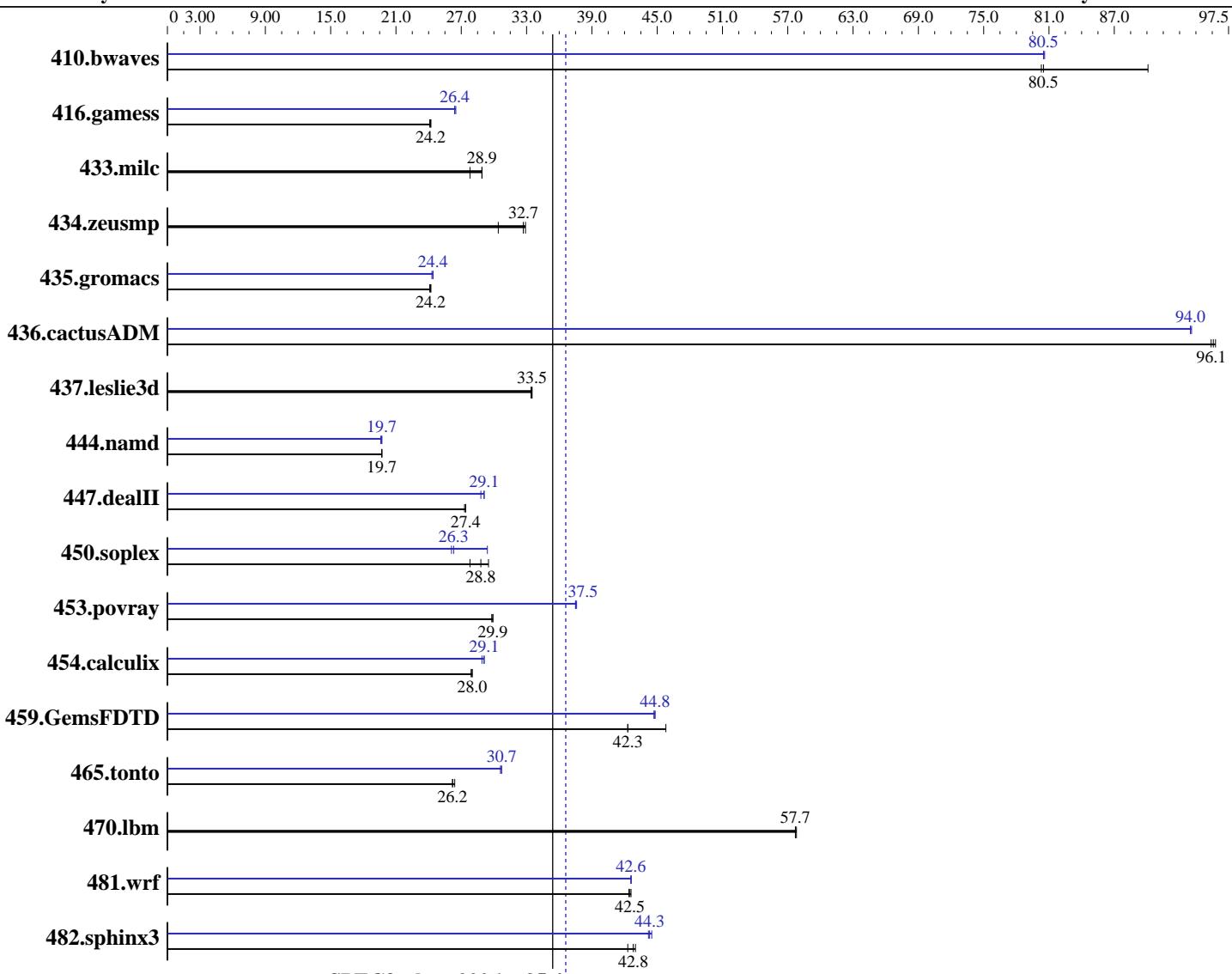
Test sponsor: Dell Inc.

Tested by: Dell Inc.

Test date: Mar-2009

Hardware Availability: Apr-2009

Software Availability: Feb-2009



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Hardware

CPU Name: Intel Xeon X5570
CPU Characteristics: Intel Turbo Boost Technology up to 3.33 GHz
CPU MHz: 2933
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: 256 KB I+D on chip per core

Software

Operating System: Windows Vista Business SP1 (64-bit)
Compiler: Intel C++ Compiler for Intel 64, Version 11.0
Build 20090131 Package ID: w_cproc_p_11.0.072
Intel Visual Fortran Compiler for Intel 64,
Version 11.0
Build 20090131 Package ID: w_cprof_p_11.0.072
Microsoft Visual Studio 2008 SP1
Auto Parallel: Yes
File System: NTFS

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L3 Cache:	8 MB I+D on chip per chip	System State:	Default
Other Cache:	None	Base Pointers:	32/64-bit
Memory:	24 GB (6x4 GB DDR3-1333R, ECC, CL9)	Peak Pointers:	32/64-bit
Disk Subsystem:	1 x 146 GB SAS 15000 RPM	Other Software:	MicroQuill SmartHeap Library 8.1 for x64
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio										
410.bwaves	169	80.3	169	80.5	151	90.1	169	80.5	169	80.5	169	80.6
416.gamess	810	24.2	809	24.2	811	24.1	741	26.4	741	26.4	740	26.5
433.milc	318	28.9	318	28.9	330	27.8	318	28.9	318	28.9	330	27.8
434.zeusmp	278	32.7	277	32.9	299	30.4	278	32.7	277	32.9	299	30.4
435.gromacs	296	24.1	295	24.2	295	24.2	293	24.3	293	24.4	293	24.4
436.cactusADM	124	96.3	125	95.9	124	96.1	127	94.1	127	94.0	127	94.0
437.leslie3d	281	33.5	281	33.5	281	33.4	281	33.5	281	33.5	281	33.4
444.namd	406	19.7	407	19.7	407	19.7	408	19.6	407	19.7	408	19.7
447.dealII	418	27.4	417	27.4	419	27.3	394	29.1	398	28.8	394	29.1
450.soplex	283	29.5	290	28.8	301	27.8	318	26.3	320	26.1	283	29.4
453.povray	178	29.8	178	29.9	178	29.9	142	37.5	142	37.5	142	37.6
454.calculix	295	27.9	295	28.0	295	28.0	286	28.9	283	29.1	284	29.1
459.GemsFDTD	251	42.3	232	45.8	251	42.3	237	44.7	237	44.8	237	44.8
465.tonto	376	26.2	375	26.2	373	26.4	320	30.7	321	30.6	321	30.7
470.lbm	238	57.7	238	57.7	238	57.8	238	57.7	238	57.7	238	57.8
481.wrf	262	42.6	264	42.4	263	42.5	262	42.6	262	42.6	263	42.6
482.sphinx3	453	43.0	455	42.8	461	42.3	441	44.2	438	44.5	440	44.3

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

Platform Notes

BIOS Settings

Memory Node Interleaving set to NUMA.

General Notes

Binaries were built on Windows Vista Business (64-bit)

Base Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

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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: basepeak = yes
```

```
470.lbm: basepeak = yes
```

```
482.sphinx3: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- -Qunroll2  
/F512000000
```

C++ benchmarks:

```
444.namd: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)  
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa /F512000000  
shlw64mt.lib -link /FORCE:MULTIPLE
```

```
447.dealII: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)  
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2  
-Qopt-prefetch -Qansi-alias -Qscalar-rep- /F512000000  
shlw64mt.lib -link /FORCE:MULTIPLE
```

```
450.soplex: -Qprof_gen(pass 1) -QxSSE4.2 -Qauto-ilp32  
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F512000000  
shlw64mt.lib -link /FORCE:MULTIPLE
```

```
453.povray: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)  
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4  
-Qansi-alias /F512000000 shlw64mt.lib  
-link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

Fortran benchmarks:

```
410.bwaves: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div-
-Qopt-prefetch -Qparallel /F1000000000
```

```
416.gamess: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0
-Qansi-alias -Qscalar-rep- /F1000000000
```

```
434.zeusmp: basepeak = yes
```

```
437.leslie3d: basepeak = yes
```

```
459.GemsFDTD: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0
-Qopt-prefetch -Qparallel /F1000000000
```

```
465.tonto: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto
/F1000000000
```

Benchmarks using both Fortran and C:

```
435.gromacs: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch
/F1000000000
```

```
436.cactusADM: -Qprof_gen(pass 1) -QxSSE4.2(pass 2) -Qauto-ilp32(pass 2)
-Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2
-Qopt-prefetch -Qparallel /F1000000000
```

```
454.calculix: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div- /F1000000000
```

```
481.wrf: -QxSSE4.2 -Qauto-ilp32 -Qipo -O3 -Qprec-div-
-Qopt-prefetch -Qparallel /F1000000000
```

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.20090710.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.20090710.xml>



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