



# SPEC® CFP2006 Result

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Dell Inc.  
(Test Sponsor: Intel Corporation)

SPECfp®2006 = 10.1

Dell XPS M1710 (Intel Core Duo T2600)

SPECfp\_base2006 = 9.91

CPU2006 license: 13

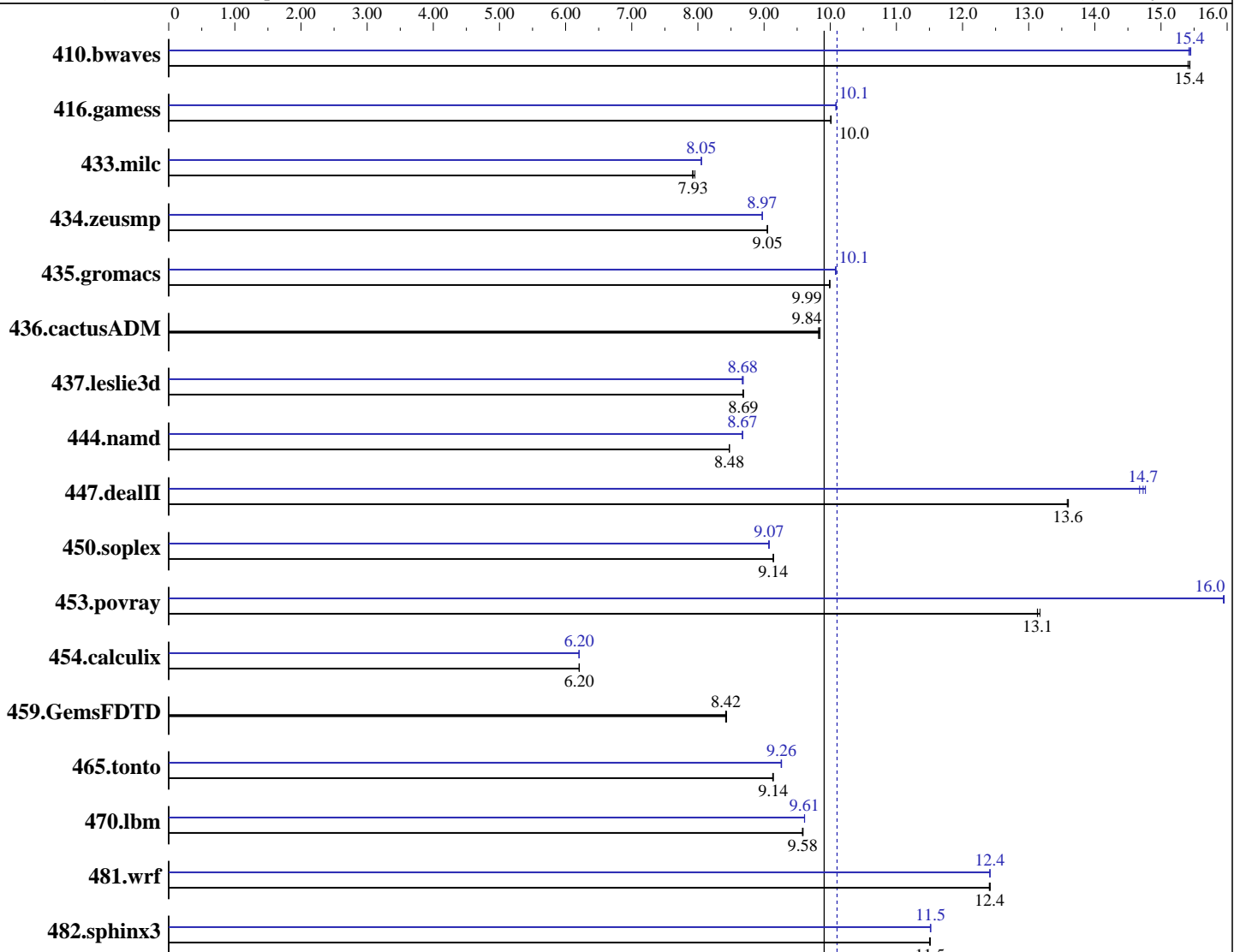
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jun-2007

Hardware Availability: Jun-2007

Software Availability: May-2007



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### Hardware

CPU Name: Intel Core Duo T2600  
 CPU Characteristics: 2.17 GHz, 2MB L2, 667 MHz bus  
 CPU MHz: 2167  
 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: 2 MB I+D on chip per chip

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### Software

Operating System: Windows Vista32 Ultimate  
 Compiler: Intel C++ Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Intel Fortran Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_FC\_P\_10.0.025  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default

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L3 Cache: None  
Other Cache: None  
Memory: 2 GB (2x1GB Hynix DDR2-667 CL5)  
Disk Subsystem: 100GB Hitachi SATA, 7200RPM  
Other Hardware: None

Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: None  
SmartHeap Library Version 8.0 from <http://www.microquill.com/>

## Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	880	15.4	<b>881</b>	<b>15.4</b>	882	15.4	881	15.4	880	15.5	<b>880</b>	<b>15.4</b>
416.gamess	1955	10.0	1957	10.0	<b>1956</b>	<b>10.0</b>	1941	10.1	<b>1941</b>	<b>10.1</b>	1941	10.1
433.milc	1154	7.95	1159	7.92	<b>1158</b>	<b>7.93</b>	1140	8.05	1140	8.05	<b>1140</b>	<b>8.05</b>
434.zeusmp	<b>1005</b>	<b>9.05</b>	1006	9.05	1005	9.06	1014	8.97	1014	8.97	<b>1014</b>	<b>8.97</b>
435.gromacs	715	9.99	<b>715</b>	<b>9.99</b>	714	10.0	708	10.1	708	10.1	<b>708</b>	<b>10.1</b>
436.cactusADM	1217	9.82	<b>1215</b>	<b>9.84</b>	1214	9.85	1217	9.82	<b>1215</b>	<b>9.84</b>	1214	9.85
437.leslie3d	1082	8.69	1083	8.68	<b>1082</b>	<b>8.69</b>	1082	8.69	<b>1083</b>	<b>8.68</b>	1084	8.67
444.namd	<b>946</b>	<b>8.48</b>	947	8.47	946	8.48	925	8.67	<b>925</b>	<b>8.67</b>	925	8.67
447.dealII	<b>842</b>	<b>13.6</b>	842	13.6	841	13.6	<b>777</b>	<b>14.7</b>	775	14.8	779	14.7
450.soplex	<b>913</b>	<b>9.14</b>	912	9.14	913	9.14	919	9.07	919	9.08	<b>919</b>	<b>9.07</b>
453.povray	404	13.2	405	13.1	<b>405</b>	<b>13.1</b>	<b>333</b>	<b>16.0</b>	334	15.9	333	16.0
454.calculix	1330	6.20	<b>1330</b>	<b>6.20</b>	1329	6.21	1330	6.20	<b>1330</b>	<b>6.20</b>	1330	6.20
459.GemsFDTD	1260	8.42	<b>1260</b>	<b>8.42</b>	1258	8.43	1260	8.42	<b>1260</b>	<b>8.42</b>	1258	8.43
465.tonto	1077	9.14	1078	9.13	<b>1077</b>	<b>9.14</b>	1063	9.26	1062	9.26	<b>1062</b>	<b>9.26</b>
470.lbm	<b>1434</b>	<b>9.58</b>	1434	9.58	1433	9.59	1430	9.61	1429	9.61	<b>1430</b>	<b>9.61</b>
481.wrf	<b>900</b>	<b>12.4</b>	900	12.4	899	12.4	<b>900</b>	<b>12.4</b>	900	12.4	900	12.4
482.sphinx3	1695	11.5	1693	11.5	<b>1693</b>	<b>11.5</b>	1693	11.5	<b>1692</b>	<b>11.5</b>	1692	11.5

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

## General Notes

The system bus runs at 667 MHz  
System was configured with an nVIDIA GeForce Go 7900 GTX graphics card  
Binaries were built on Windows XP Professional SP2

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

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## Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -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:

-QxP -Qipo -O3 -Qprec-div- /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

C++ benchmarks:

-QxP -Qipo -O3 -Qprec-div- -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-QxP -Qipo -O3 -Qprec-div- /F950000000

Benchmarks using both Fortran and C:

-QxP -Qipo -O3 -Qprec-div- /F950000000

## Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

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## Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:  
icl -Qvc7.1 -Qc99 ifort

## 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:

433.milc: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qunroll2 -Oa /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

470.lbm: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qunroll2 -Qscalar-rep- -Qprefetch /F950000000  
shlw32m.lib -link /FORCE:MULTIPLE

482.sphinx3: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qunroll2 /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Oa -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

447.dealII: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qprefetch -Qcxx\_features /F950000000  
shlw32m.lib -link /FORCE:MULTIPLE

450.soplex: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

453.povray: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qansi-alias -Qcxx\_features /F950000000  
shlw32m.lib -link /FORCE:MULTIPLE

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## Peak Optimization Flags (Continued)

Fortran benchmarks:

410.bwaves: -QxP -Qipo -O3 -Qprec-div- /F950000000

416.gamess: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-  
/F950000000

434.zeusmp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -O2 -Qprec\_div-  
-Qunroll10 -Qscalar-rep- /F950000000

437.leslie3d: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxP -Qipo -O3  
-Qprec-div- /F950000000

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) -QxP -Qipo -O3  
-Qprec-div- -Oa /F950000000

436.cactusADM: basepeak = yes

454.calculix: -QxP -Qipo -O3 -Qprec-div- /F950000000

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/Intel-ic10-ia32-intel64-linux-flags.20090714.43.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10-ia32-intel64-linux-flags.20090714.43.xml>

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For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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