



# SPEC® CFP2006 Result

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Dell Inc.  
(Test Sponsor: Intel Corporation)

SPECfp®\_rate2006 = 20.4

XPS M1710 (Intel Core 2 Duo T7600)

SPECfp\_rate\_base2006 = 19.9

CPU2006 license: 13

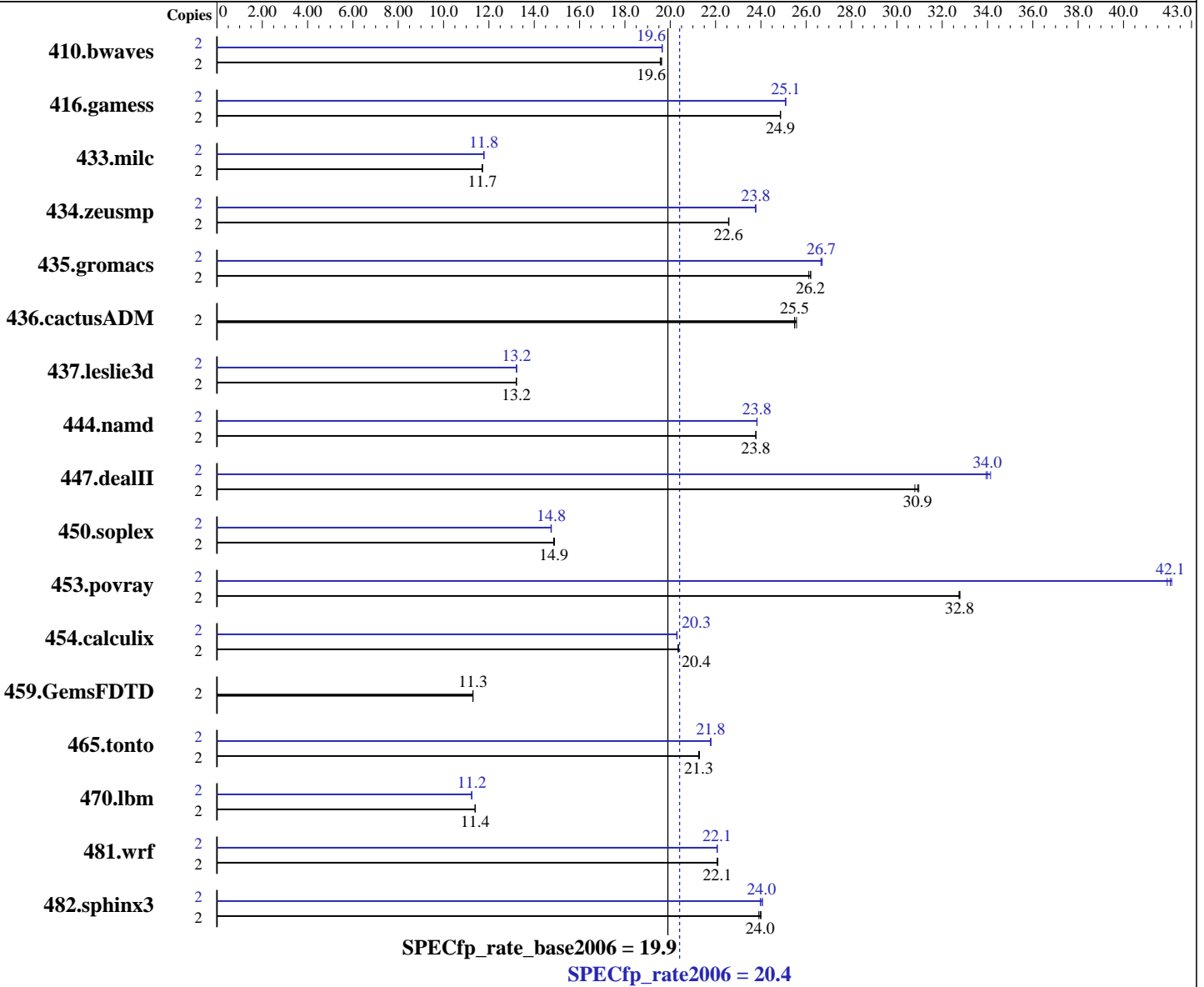
Test date: Jul-2007

Test sponsor: Intel Corporation

Hardware Availability: Jul-2007

Tested by: Intel Corporation

Software Availability: May-2007



### Hardware

CPU Name: Intel Core 2 Duo T7600  
 CPU Characteristics: 2333  
 CPU MHz: Integrated  
 FPU: 2 cores, 1 chip, 2 cores/chip  
 CPU(s) enabled: 1 chip  
 CPU(s) orderable: 32 KB I + 32 KB D on chip per core  
 Primary Cache: 4 MB I+D on chip per chip  
 Secondary Cache:

Continued on next page

### Software

Operating System: Windows Vista Ultimate (32-bit)  
 Compiler: Intel C++ and Fortran Compiler for IA32 version 10.0  
 Build 20070426 Package ID: W\_CC\_P\_10.0.025  
 Microsoft Visual Studio .Net 2003 (for libraries)  
 Auto Parallel: No  
 File System: NTFS  
 System State: Default  
 Base Pointers: 32-bit

Continued on next page



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

Peak Pointers: 32-bit  
Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>

## Results Table

| Benchmark     | Base   |             |             |             |             |             |             | Peak   |             |             |             |             |             |             |
|---------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|
|               | Copies | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       | Copies | Seconds     | Ratio       | Seconds     | Ratio       | Seconds     | Ratio       |
| 410.bwaves    | 2      | 1390        | 19.6        | <b>1386</b> | <b>19.6</b> | 1385        | 19.6        | 2      | 1383        | 19.7        | 1384        | 19.6        | <b>1384</b> | <b>19.6</b> |
| 416.gamess    | 2      | <b>1575</b> | <b>24.9</b> | 1575        | 24.9        | 1575        | 24.9        | 2      | 1561        | 25.1        | <b>1561</b> | <b>25.1</b> | 1560        | 25.1        |
| 433.milc      | 2      | 1569        | 11.7        | 1567        | 11.7        | <b>1568</b> | <b>11.7</b> | 2      | <b>1559</b> | <b>11.8</b> | 1559        | 11.8        | 1558        | 11.8        |
| 434.zeusmp    | 2      | <b>806</b>  | <b>22.6</b> | 806         | 22.6        | 806         | 22.6        | 2      | 766         | 23.8        | 766         | 23.8        | <b>766</b>  | <b>23.8</b> |
| 435.gromacs   | 2      | 547         | 26.1        | 545         | 26.2        | <b>545</b>  | <b>26.2</b> | 2      | 536         | 26.7        | <b>536</b>  | <b>26.7</b> | 535         | 26.7        |
| 436.cactusADM | 2      | 935         | 25.6        | <b>938</b>  | <b>25.5</b> | 938         | 25.5        | 2      | 935         | 25.6        | <b>938</b>  | <b>25.5</b> | 938         | 25.5        |
| 437.leslie3d  | 2      | 1422        | 13.2        | <b>1423</b> | <b>13.2</b> | 1423        | 13.2        | 2      | 1423        | 13.2        | 1422        | 13.2        | <b>1422</b> | <b>13.2</b> |
| 444.namd      | 2      | 674         | 23.8        | <b>675</b>  | <b>23.8</b> | 675         | 23.8        | 2      | 673         | 23.8        | 673         | 23.8        | <b>673</b>  | <b>23.8</b> |
| 447.dealII    | 2      | 743         | 30.8        | <b>740</b>  | <b>30.9</b> | 739         | 31.0        | 2      | 670         | 34.1        | <b>673</b>  | <b>34.0</b> | 674         | 33.9        |
| 450.soplex    | 2      | 1123        | 14.9        | 1120        | 14.9        | <b>1122</b> | <b>14.9</b> | 2      | 1131        | 14.8        | <b>1131</b> | <b>14.8</b> | 1132        | 14.7        |
| 453.povray    | 2      | 325         | 32.8        | 325         | 32.7        | <b>325</b>  | <b>32.8</b> | 2      | 254         | 41.9        | <b>253</b>  | <b>42.1</b> | 253         | 42.1        |
| 454.calculix  | 2      | 811         | 20.4        | <b>811</b>  | <b>20.4</b> | 810         | 20.4        | 2      | 813         | 20.3        | <b>813</b>  | <b>20.3</b> | 813         | 20.3        |
| 459.GemsFDTD  | 2      | 1879        | 11.3        | <b>1879</b> | <b>11.3</b> | 1878        | 11.3        | 2      | 1879        | 11.3        | <b>1879</b> | <b>11.3</b> | 1878        | 11.3        |
| 465.tonto     | 2      | 926         | 21.3        | <b>926</b>  | <b>21.3</b> | 924         | 21.3        | 2      | 904         | 21.8        | <b>903</b>  | <b>21.8</b> | 903         | 21.8        |
| 470.lbm       | 2      | 2412        | 11.4        | 2412        | 11.4        | <b>2412</b> | <b>11.4</b> | 2      | 2445        | 11.2        | 2444        | 11.2        | <b>2444</b> | <b>11.2</b> |
| 481.wrf       | 2      | <b>1012</b> | <b>22.1</b> | 1012        | 22.1        | 1011        | 22.1        | 2      | 1012        | 22.1        | 1013        | 22.1        | <b>1013</b> | <b>22.1</b> |
| 482.sphinx3   | 2      | <b>1626</b> | <b>24.0</b> | 1624        | 24.0        | 1630        | 23.9        | 2      | 1619        | 24.1        | <b>1622</b> | <b>24.0</b> | 1626        | 24.0        |

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

## General Notes

nVidia GeForce Go 7950 discrete graphics card  
Binaries were built on Windows XP Professional SP2  
The start command with the /affinity switch was used to bind processes to cores

## Base Compiler Invocation

C benchmarks:  
icl -Qvc7.1 -Qc99

C++ benchmarks:  
icl -Qvc7.1

Continued on next page



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**Test date:** Jul-2007

**Hardware Availability:** Jul-2007

**Software Availability:** May-2007

## 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:

-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F950000000

Benchmarks using both Fortran and C:

-fast /F950000000

## Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort



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## 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) -fast -Qunroll2 -Oa  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE  
470.lbm: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
-Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
482.sphinx3: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

### C++ benchmarks:

444.namd: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Oa  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
447.dealII: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qprefetch  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE  
450.soplex: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qcxx\_features  
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE  
453.povray: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qansi-alias  
-Qcxx\_features /F950000000 shlw32m.lib  
-link /FORCE:MULTIPLE

### Fortran benchmarks:

410.bwaves: -fast /F950000000  
416.gamess: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast -Qunroll2 -Ob0  
-Qansi-alias -Qscalar-rep- /F950000000  
434.zeusmp: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -QxT -O2 -Qprec\_div-  
-Qunroll10 -Qscalar-rep- /F950000000

Continued on next page



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## Peak Optimization Flags (Continued)

437.leslie3d: -Qprof\_gen(pass 1) -Qprof\_use(pass 2) -fast /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) -fast -Oa  
/F950000000

436.cactusADM: basepeak = yes

454.calculix: -fast /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.20090714.47.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.20090714.47.xml>

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

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