SPEC® CFP2006 Result

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Dell Inc.

(Test Sponsor: Intel Corporation)

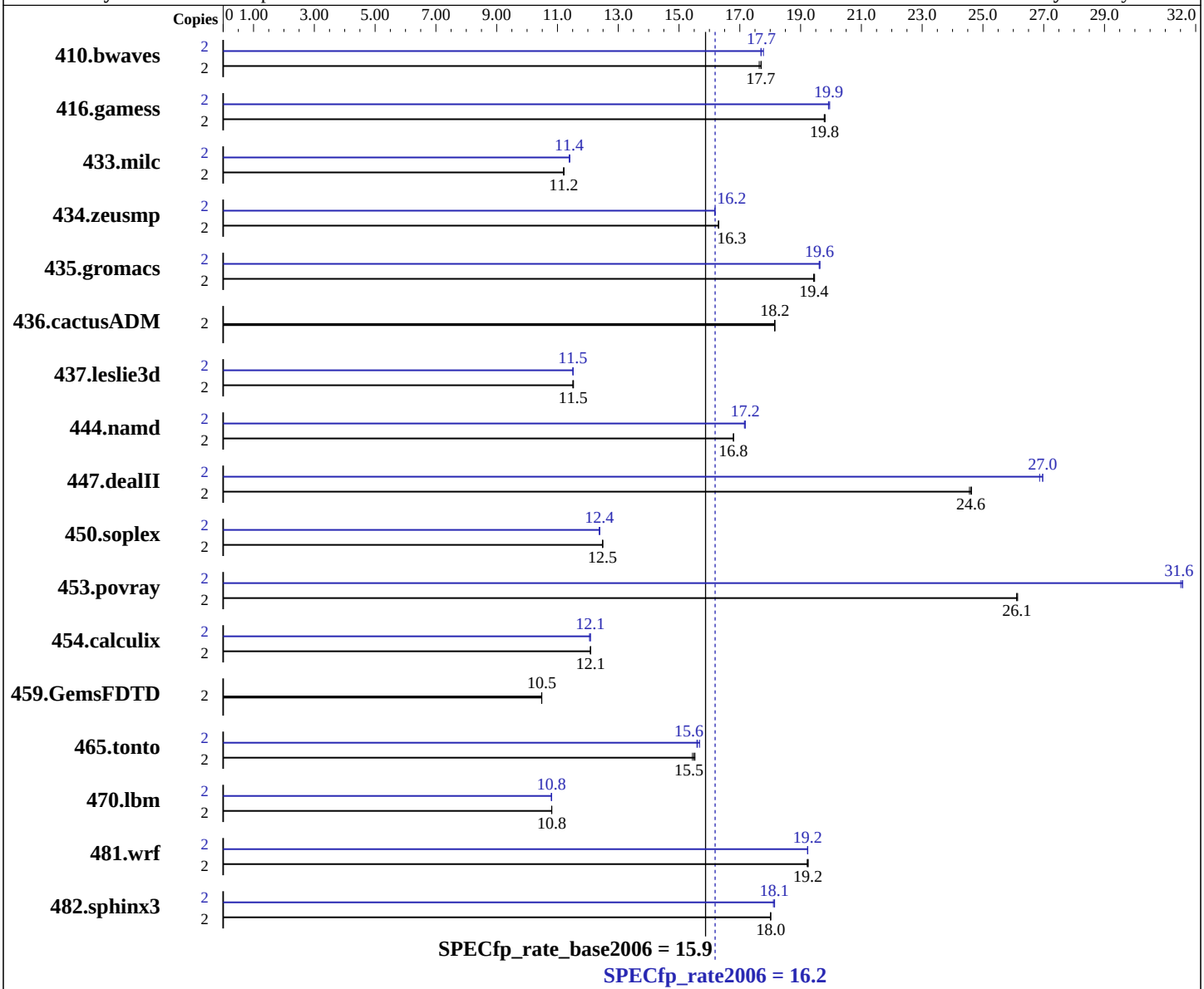
Dell XPS M1710 (Intel Core Duo T2600)

SPECfp®_rate2006 = 16.2

SPECfp_rate_base2006 = 15.9

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jun-2007
Hardware Availability: Jun-2007
Software Availability: May-2007



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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1541	17.6	1535	17.7	**1536**	**17.7**	2	**1535**	**17.7**	1529	17.8	1536	17.7
416.gamess	2	**1979**	**19.8**	1980	19.8	1977	19.8	2	1962	20.0	1966	19.9	**1965**	**19.9**
433.milc	2	1639	11.2	1637	11.2	**1638**	**11.2**	2	1612	11.4	1609	11.4	**1612**	**11.4**
434.zeusmp	2	1116	16.3	**1116**	**16.3**	1117	16.3	2	1125	16.2	1124	16.2	**1125**	**16.2**
435.gromacs	2	734	19.5	735	19.4	**734**	**19.4**	2	728	19.6	**728**	**19.6**	727	19.6
436.cactusADM	2	**1317**	**18.2**	1317	18.1	1316	18.2	2	**1317**	**18.2**	1317	18.1	1316	18.2
437.leslie3d	2	**1633**	**11.5**	1631	11.5	1634	11.5	2	**1633**	**11.5**	1634	11.5	1633	11.5
444.namd	2	955	16.8	955	16.8	**955**	**16.8**	2	**934**	**17.2**	934	17.2	935	17.2
447.dealII	2	**930**	**24.6**	929	24.6	932	24.6	2	**849**	**27.0**	852	26.9	848	27.0
450.soplex	2	1337	12.5	1335	12.5	**1336**	**12.5**	2	1348	12.4	1346	12.4	**1347**	**12.4**
453.povray	2	407	26.1	408	26.1	**407**	**26.1**	2	**337**	**31.6**	338	31.5	337	31.6
454.calculix	2	**1365**	**12.1**	1365	12.1	1365	12.1	2	1369	12.1	1365	12.1	**1366**	**12.1**
459.GemsFDTD	2	2025	10.5	2024	10.5	**2024**	**10.5**	2	2025	10.5	2024	10.5	**2024**	**10.5**
465.tonto	2	**1270**	**15.5**	1274	15.4	1268	15.5	2	1255	15.7	1263	15.6	**1261**	**15.6**
470.lbm	2	2541	10.8	**2542**	**10.8**	2543	10.8	2	**2543**	**10.8**	2542	10.8	2545	10.8
481.wrf	2	1160	19.3	1162	19.2	**1161**	**19.2**	2	**1161**	**19.2**	1162	19.2	1161	19.2
482.sphinx3	2	2163	18.0	**2164**	**18.0**	2164	18.0	2	**2149**	**18.1**	2153	18.1	2148	18.1

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
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
```

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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

Continued on next page

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- -Qunroll0 -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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