SPEC® CFP2006 Result

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Dell Inc.

(Test Sponsor: Intel Corporation)

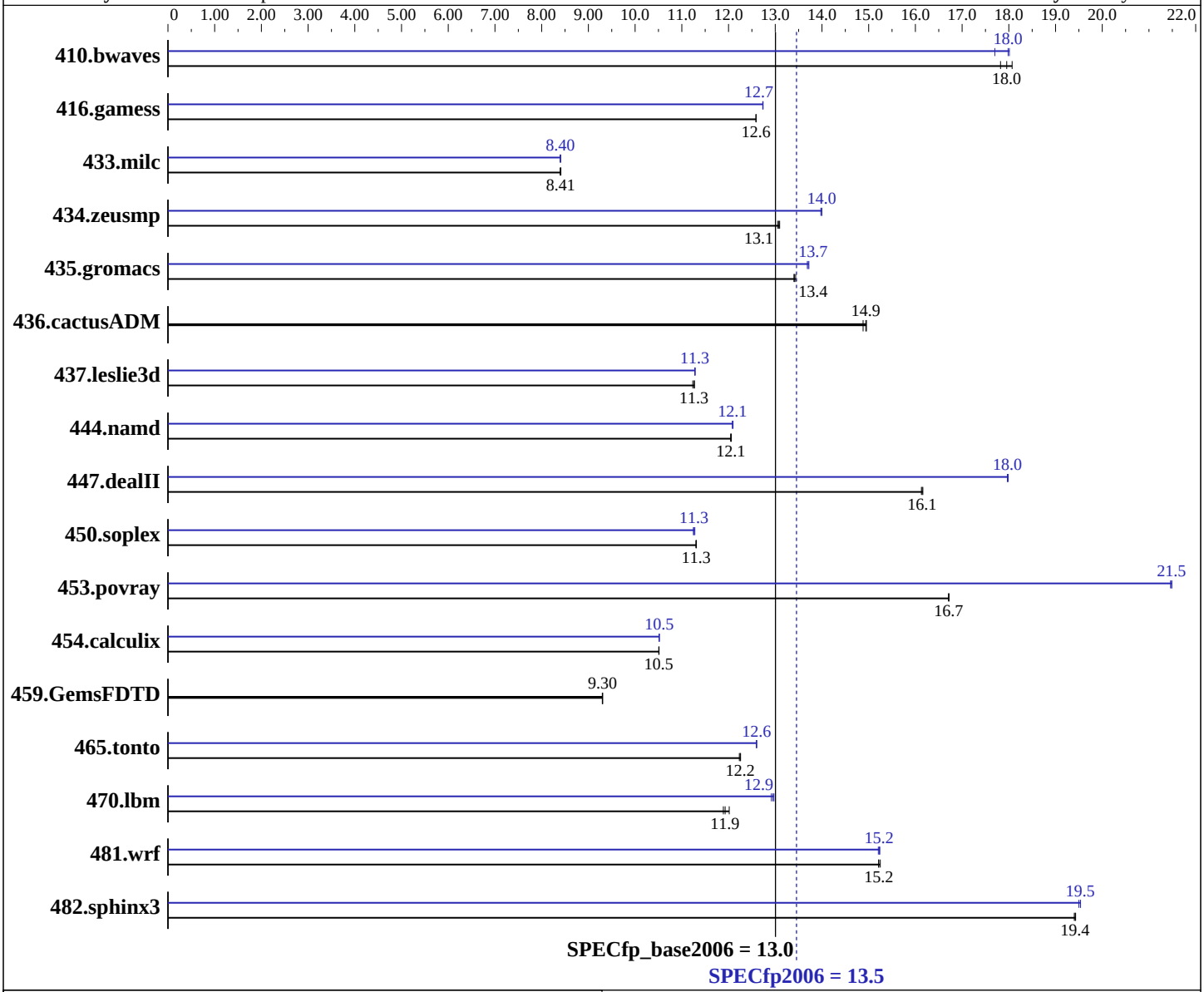
XPS M1710 (Intel Core 2 Duo T7600)

SPECfp®2006 = 13.5

SPECfp_base2006 = 13.0

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

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



Hardware

CPU Name:	Intel Core 2 Duo T7600
CPU Characteristics:	
CPU MHz:	2333
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:	4 MB I+D on chip per chip

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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

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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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	752	18.1	**757**	**18.0**	763	17.8	755	18.0	768	17.7	**756**	**18.0**
416.gamess	**1555**	**12.6**	1555	12.6	1556	12.6	**1537**	**12.7**	1537	12.7	1538	12.7
433.milc	1091	8.41	**1092**	**8.41**	1094	8.39	1094	8.39	1092	8.41	**1092**	**8.40**
434.zeusmp	695	13.1	**696**	**13.1**	697	13.1	651	14.0	650	14.0	**650**	**14.0**
435.gromacs	531	13.4	533	13.4	**533**	**13.4**	**521**	**13.7**	520	13.7	522	13.7
436.cactusADM	**800**	**14.9**	803	14.9	799	15.0	**800**	**14.9**	803	14.9	799	15.0
437.leslie3d	834	11.3	837	11.2	**835**	**11.3**	**833**	**11.3**	833	11.3	833	11.3
444.namd	666	12.0	665	12.1	**665**	**12.1**	664	12.1	663	12.1	**663**	**12.1**
447.dealII	**709**	**16.1**	708	16.2	709	16.1	**637**	**18.0**	637	18.0	636	18.0
450.soplex	**737**	**11.3**	738	11.3	737	11.3	739	11.3	**741**	**11.3**	742	11.2
453.povray	318	16.7	318	16.7	**318**	**16.7**	**248**	**21.5**	248	21.5	248	21.5
454.calculix	785	10.5	785	10.5	**785**	**10.5**	784	10.5	**784**	**10.5**	785	10.5
459.GemsFDTD	1140	9.31	1141	9.30	**1141**	**9.30**	1140	9.31	1141	9.30	**1141**	**9.30**
465.tonto	805	12.2	803	12.3	**803**	**12.2**	**781**	**12.6**	781	12.6	781	12.6
470.lbm	1156	11.9	1144	12.0	**1152**	**11.9**	1059	13.0	1064	12.9	**1061**	**12.9**
481.wrf	**734**	**15.2**	733	15.2	734	15.2	735	15.2	733	15.2	**734**	**15.2**
482.sphinx3	1005	19.4	**1004**	**19.4**	1003	19.4	**998**	**19.5**	1000	19.5	998	19.5

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
```

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:
-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

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-
-Qunroll0 -Qscalar-rep- /F950000000

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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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