



SPEC[®] CFP2006 Result

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Intel Corporation

SPECfp[®]_rate2006 = 8.35

Lenovo ThinkPad T43 (Intel Pentium M 780)

SPECfp_rate_base2006 = 8.22

CPU2006 license: 13

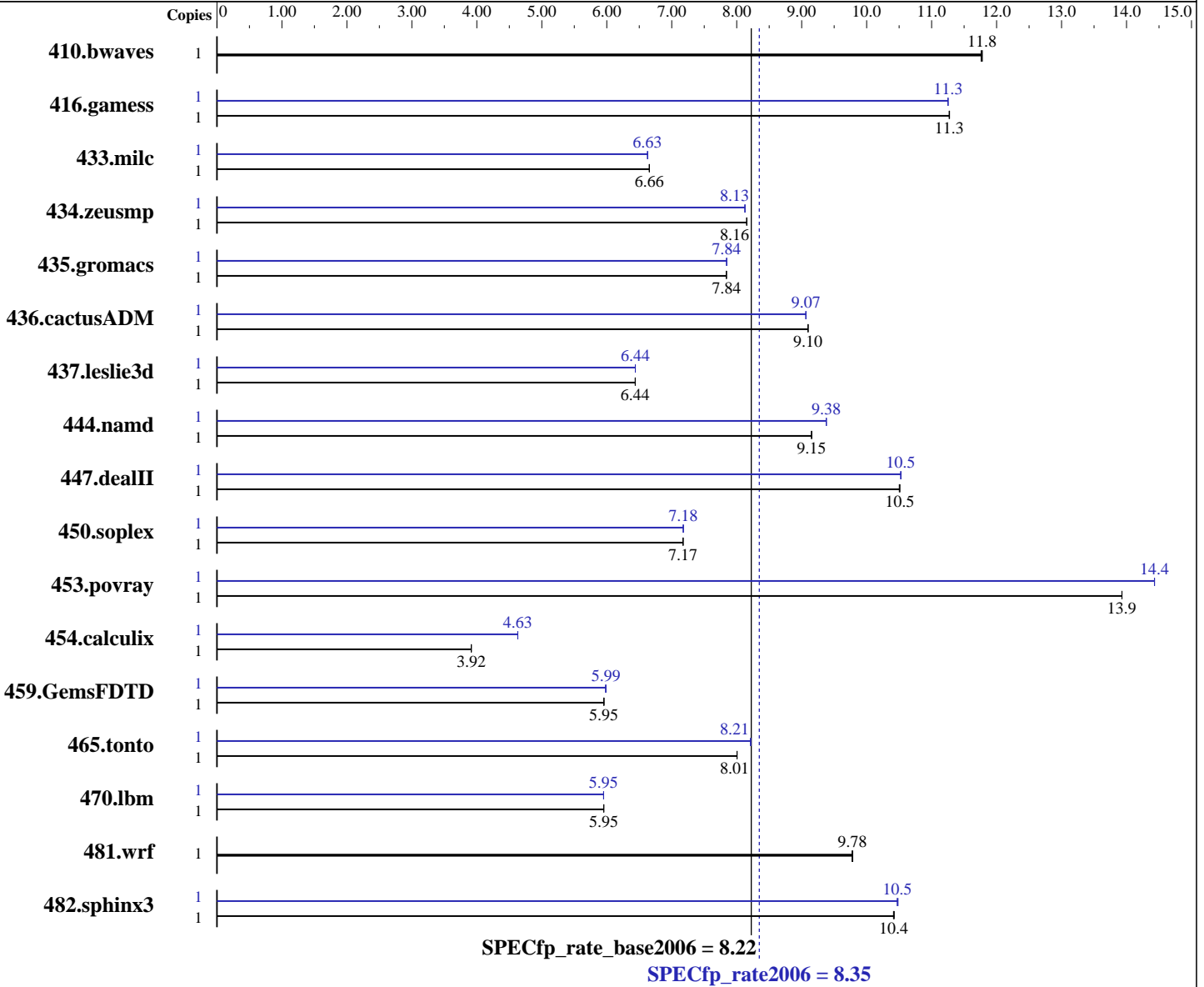
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Pentium M 780
 CPU Characteristics:
 CPU MHz: 2266
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per chip
 Secondary Cache: 2 MB I+D on chip per chip

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Software

Operating System: Windows Vista Ultimate (32-bit)
 Compiler: Intel C++ Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_cc_p_10.1.011
 Intel Fortran Compiler for IA32 version 10.1
 Build 20070913 Package ID: w_fc_p_10.1.011
 Microsoft Visual Studio 2005 SP1 (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: Hitachi 100 GB SATA, 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None
SmartHeap Library Version 8.1 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	1	1154	11.8	1155	11.8	1154	11.8	1	1154	11.8	1155	11.8	1154	11.8		
416.gamess	1	1736	11.3	1737	11.3	1737	11.3	1	1740	11.3	1740	11.3	1740	11.3		
433.milc	1	1380	6.65	1379	6.66	1379	6.66	1	1385	6.63	1385	6.63	1385	6.63		
434.zeusmp	1	1116	8.16	1116	8.16	1116	8.15	1	1120	8.13	1120	8.13	1120	8.13		
435.gromacs	1	911	7.84	910	7.84	910	7.84	1	910	7.84	910	7.84	910	7.85		
436.cactusADM	1	1314	9.10	1313	9.10	1313	9.10	1	1318	9.07	1318	9.07	1318	9.06		
437.leslie3d	1	1460	6.44	1460	6.44	1460	6.44	1	1460	6.44	1460	6.44	1460	6.44		
444.namd	1	876	9.15	876	9.15	876	9.15	1	855	9.38	855	9.38	855	9.38		
447.dealII	1	1088	10.5	1088	10.5	1089	10.5	1	1087	10.5	1087	10.5	1087	10.5		
450.soplex	1	1163	7.17	1162	7.17	1162	7.18	1	1162	7.18	1162	7.18	1162	7.18		
453.povray	1	382	13.9	382	13.9	382	13.9	1	369	14.4	369	14.4	369	14.4		
454.calculix	1	2108	3.91	2107	3.92	2107	3.92	1	1782	4.63	1781	4.63	1782	4.63		
459.GemsFDTD	1	1782	5.95	1782	5.95	1780	5.96	1	1772	5.99	1772	5.99	1774	5.98		
465.tonto	1	1229	8.01	1229	8.00	1229	8.01	1	1198	8.21	1198	8.21	1198	8.22		
470.lbm	1	2309	5.95	2307	5.95	2307	5.95	1	2309	5.95	2309	5.95	2308	5.95		
481.wrf	1	1142	9.78	1143	9.78	1141	9.79	1	1142	9.78	1143	9.78	1141	9.79		
482.sphinx3	1	1871	10.4	1872	10.4	1870	10.4	1	1861	10.5	1861	10.5	1859	10.5		

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

General Notes

The system bus runs at 533 MHz
Binaries were built on Windows Vista (32-bit)
The following VS 2005 SP1 updates were applied: KB926601 and KB932232

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

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Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
453.povray: -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase
481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:

-QxB -Qipo -O3 -Qprec-div- /F1000000000

C++ benchmarks:

-QxB -Qipo -O3 -Qprec-div- -Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-QxB -Qipo -O3 -Qprec-div- /F1000000000

Benchmarks using both Fortran and C:

-QxB -Qipo -O3 -Qprec-div- /F1000000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc8 -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
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: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Oa /F1000000000

470.lbm: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Qscalar-rep-
-Qprefetch /F1000000000

482.sphinx3: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -QxB -Qipo -O3 -Qprec-div- -Oa -Qcxx_features
/F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

447.dealII: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch
-Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

450.soplex: -QxB -Qipo -O3 -Qprec-div- -Qcxx_features /F1000000000
shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -QxB -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias
-Qcxx_features /F1000000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
-Qscalar-rep- /F1000000000

434.zeusmp: -QxB -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000

437.leslie3d: -QxB -Qipo -O3 -Qprec-div- -Qprefetch /F1000000000

459.GemsFDTD: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qprefetch
/F1000000000

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Peak Optimization Flags (Continued)

465.tonto: -QxB -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -QxB -Qipo -O3 -Qprec-div- -Oa -Qprefetch /F1000000000

436.cactusADM: -QxB -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch
/F1000000000

454.calculix: -QxB -Qipo -O3 -Qprec-div- -Qunroll-aggressive
/F1000000000

481.wrf: basepeak = yes

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.20090714.09.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.20090714.09.xml>

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For other inquiries, please contact webmaster@spec.org.

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