SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Lenovo ThinkPad T60 (Intel Core Duo T2700)

$SPECfp^{®}2006 =$ 　　10.9

$SPECfp\_base2006 =$ 　　10.5

CPU2006 license: 13　　　　　　　　　　　　　　　　　　　　**Test date:** Dec-2007
Test sponsor: Intel Corporation　　　　　　　　　　　　　**Hardware Availability:** Jan-2008
Tested by: Intel Corporation　　　　　　　　　　　　　　**Software Availability:** Nov-2007

Benchmark	Base	Peak
410.bwaves	18.2	18.5
416.gamess	11.7	11.8
433.milc	8.31	8.61
434.zeusmp	9.65	9.40
435.gromacs	10.7	10.7
436.cactusADM	13.3	13.4
437.leslie3d	9.10	
444.namd	9.11	9.20
447.dealII	11.2	11.3
450.soplex	8.96	9.18
453.povray	13.9	14.0
454.calculix	6.53	9.28
459.GemsFDTD	9.36	
465.tonto	9.51	9.81
470.lbm	9.54	9.65
481.wrf	13.2	
482.sphinx3	11.5	12.0

SPECfp_base2006 = 10.5

SPECfp2006 = 10.9

Hardware

CPU Name: Intel Core Duo T2700
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: 2 MB I+D on chip per chip

Continued on next page

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: Yes
File System: NTFS
System State: Default

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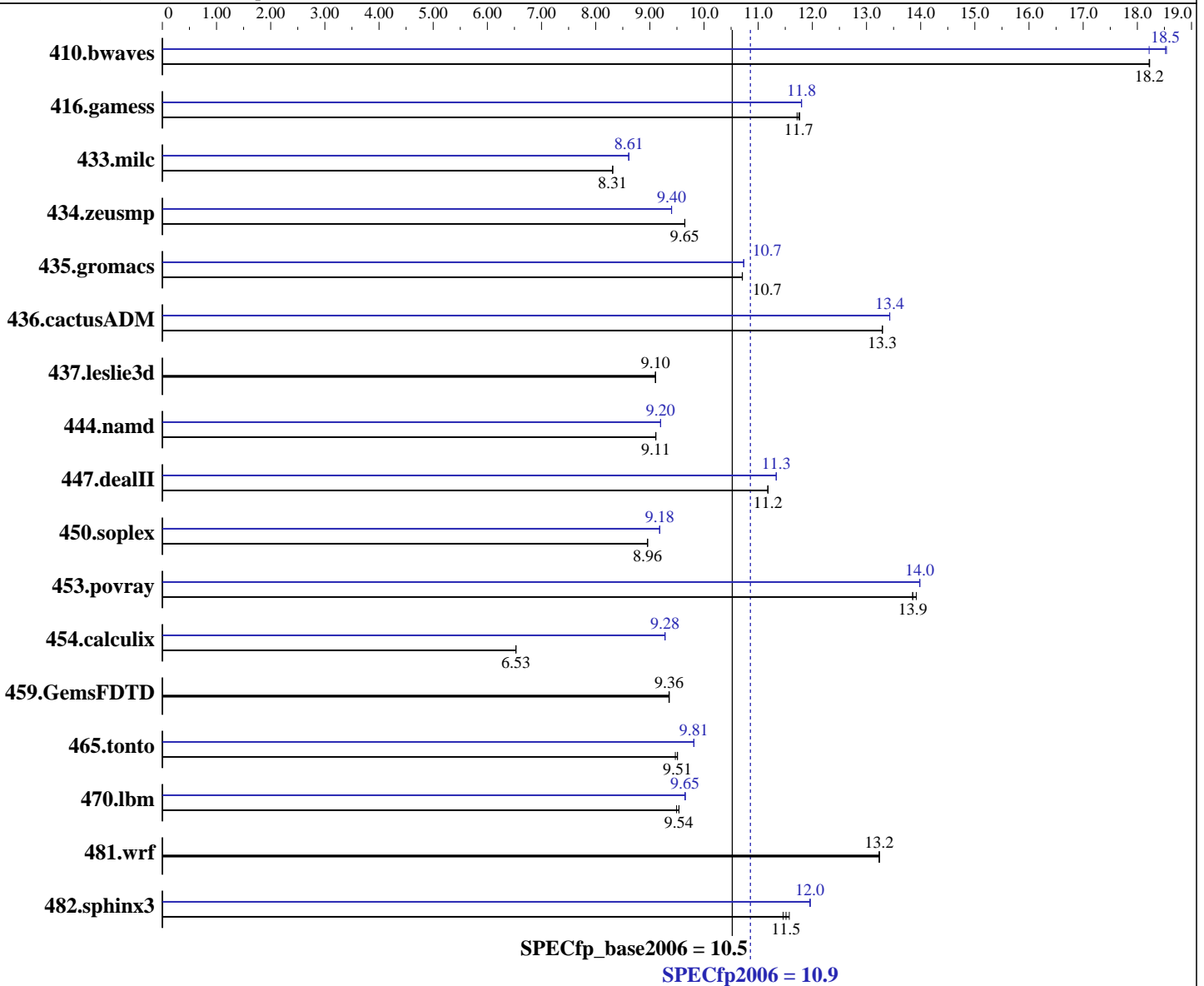| SPECfp2006 =	10.9
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L3 Cache:	None
Other Cache:	None
Memory:	2 GB (2x1GB Hynix DDR2-667 CL5)
Disk Subsystem:	Hitachi 100 GB SATA, 7200 RPM
Other Hardware:	None

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 Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	746	18.2	**746**	**18.2**	746	18.2	746	18.2	**734**	**18.5**	733	18.5
416.gamess	**1667**	**11.7**	1664	11.8	1671	11.7	1660	11.8	**1659**	**11.8**	1659	11.8
433.milc	1105	8.31	**1104**	**8.31**	1104	8.32	1066	8.61	**1066**	**8.61**	1066	8.61
434.zeusmp	**943**	**9.65**	943	9.65	944	9.64	968	9.40	968	9.40	**968**	**9.40**
435.gromacs	**667**	**10.7**	667	10.7	667	10.7	665	10.7	665	10.7	**665**	**10.7**
436.cactusADM	899	13.3	**899**	**13.3**	899	13.3	890	13.4	890	13.4	**890**	**13.4**
437.leslie3d	1032	9.11	**1033**	**9.10**	1033	9.10	1032	9.11	**1033**	**9.10**	1033	9.10
444.namd	**880**	**9.11**	880	9.11	880	9.11	872	9.20	**872**	**9.20**	872	9.20
447.dealII	1024	11.2	**1023**	**11.2**	1023	11.2	1010	11.3	1009	11.3	**1009**	**11.3**
450.soplex	**931**	**8.96**	931	8.96	931	8.96	908	9.18	**908**	**9.18**	908	9.18
453.povray	**384**	**13.9**	382	13.9	384	13.9	381	14.0	380	14.0	**380**	**14.0**
454.calculix	1264	6.53	1264	6.53	**1264**	**6.53**	**889**	**9.28**	889	9.28	889	9.28
459.GemsFDTD	1134	9.36	1134	9.35	**1134**	**9.36**	1134	9.36	1134	9.35	**1134**	**9.36**
465.tonto	1039	9.47	**1035**	**9.51**	1035	9.51	1002	9.82	1003	9.81	**1003**	**9.81**
470.lbm	1447	9.49	1440	9.54	**1441**	**9.54**	1423	9.66	**1424**	**9.65**	1424	9.65
481.wrf	**844**	**13.2**	844	13.2	844	13.2	**844**	**13.2**	844	13.2	844	13.2
482.sphinx3	**1693**	**11.5**	1684	11.6	1701	11.5	**1630**	**12.0**	1630	12.0	1629	12.0

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
Binaries were built on Windows Vista (32-bit)
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

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Base Compiler Invocation (Continued)

C++ benchmarks:
```
icl -Qvc8
```

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:
```
-QxP -Qipo -O3 -Qprec-div- -Qparallel /F1000000000 libguide40.lib
```

C++ benchmarks:
```
-QxP -Qipo -O3 -Qprec-div- -Qparallel -Qcxx_features /F1000000000
shlw32m.lib libguide40.lib           -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-QxP -Qipo -O3 -Qprec-div- -Qparallel /F1000000000 libguide40.lib
```

Benchmarks using both Fortran and C:
```
-QxP -Qipo -O3 -Qprec-div- -Qparallel /F1000000000 libguide40.lib
```

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Fortran benchmarks:
```
ifort
```

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Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

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: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Oa /F1000000000
                libguide40.lib

      470.lbm: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qscalar-rep-
               -Qprefetch /F1000000000 libguide40.lib

   482.sphinx3: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000
                libguide40.lib
```

C++ benchmarks:

```
     444.namd: -QxP -Qipo -O3 -Qprec-div- -Oa -Qcxx_features
               /F1000000000 shlw32m.lib libguide40.lib
                     -link /FORCE:MULTIPLE

    447.dealII: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch
                -Qcxx_features /F1000000000 shlw32m.lib libguide40.lib
                     -link /FORCE:MULTIPLE

    450.soplex: -QxP -Qipo -O3 -Qprec-div- -Qparallel -Qcxx_features
                /F1000000000 shlw32m.lib libguide40.lib
                     -link /FORCE:MULTIPLE

    453.povray: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qcxx_features
                /F1000000000 shlw32m.lib libguide40.lib
                     -link /FORCE:MULTIPLE
```

Fortran benchmarks:

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Peak Optimization Flags (Continued)

410.bwaves: -QxP -Qipo -O3 -Qprec-div- -Qparallel -Qprefetch
/F1000000000 libguide40.lib

416.gamess: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias
-Qscalar-rep- /F1000000000 libguide40.lib

434.zeusmp: -QxP -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000
libguide40.lib

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000
libguide40.lib

Benchmarks using both Fortran and C:

435.gromacs: -QxP -Qipo -O3 -Qprec-div- -Oa -Qprefetch /F1000000000
libguide40.lib

436.cactusADM: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qparallel
-Qprefetch /F1000000000 libguide40.lib

454.calculix: -QxP -Qipo -O3 -Qprec-div- -Qunroll-aggressive
/F1000000000 libguide40.lib

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

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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