



# SPEC<sup>®</sup> CFP2006 Result

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## Intel Corporation

## SPECfp<sup>®</sup>\_rate2006 = 24.6

### Lenovo ThinkPad T61 (Intel Core 2 Duo T9500)

## SPECfp\_rate\_base2006 = 23.4

CPU2006 license: 13

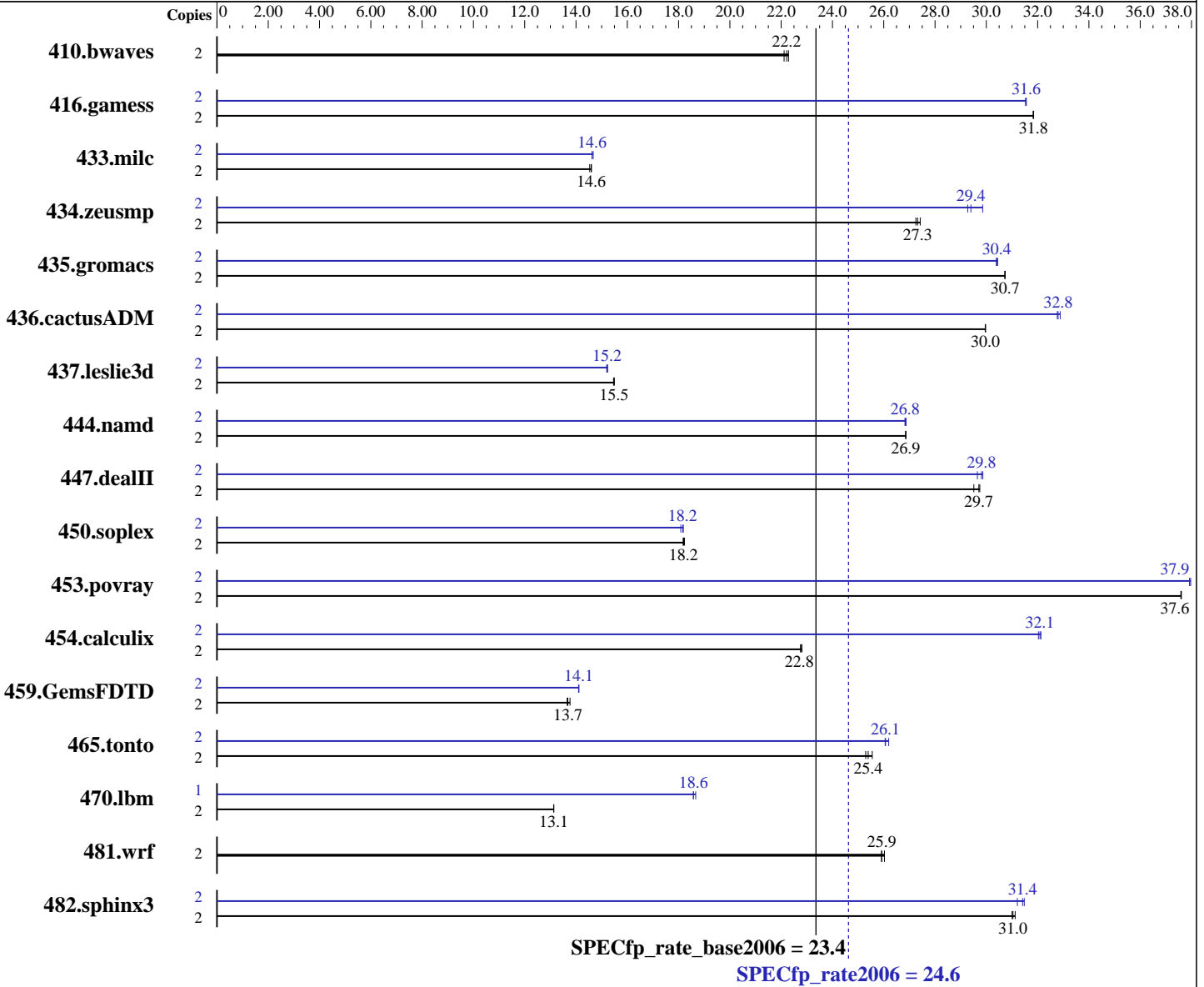
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



### Hardware

CPU Name: Intel Core 2 Duo T9500  
 CPU Characteristics:  
 CPU MHz: 2600  
 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: 6 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	2	1220	22.3	1229	22.1	<u>1224</u>	<u>22.2</u>	2	1220	22.3	1229	22.1	<u>1224</u>	<u>22.2</u>
416.gamess	2	1230	31.8	<u>1230</u>	<u>31.8</u>	1230	31.8	2	1241	31.6	<u>1241</u>	<u>31.6</u>	1242	31.5
433.milc	2	1257	14.6	1263	14.5	<u>1258</u>	<u>14.6</u>	2	1251	14.7	1255	14.6	<u>1255</u>	<u>14.6</u>
434.zeusmp	2	<u>666</u>	<u>27.3</u>	664	27.4	668	27.3	2	<u>619</u>	<u>29.4</u>	622	29.3	610	29.9
435.gromacs	2	<u>465</u>	<u>30.7</u>	465	30.7	465	30.7	2	469	30.4	<u>470</u>	<u>30.4</u>	470	30.4
436.cactusADM	2	<u>798</u>	<u>30.0</u>	798	30.0	797	30.0	2	727	32.9	<u>729</u>	<u>32.8</u>	729	32.8
437.leslie3d	2	<u>1214</u>	<u>15.5</u>	1216	15.5	1213	15.5	2	1234	15.2	1237	15.2	<u>1235</u>	<u>15.2</u>
444.namd	2	<u>597</u>	<u>26.9</u>	597	26.9	597	26.9	2	597	26.9	598	26.8	<u>598</u>	<u>26.8</u>
447.dealII	2	<u>770</u>	<u>29.7</u>	775	29.5	769	29.7	2	772	29.7	766	29.9	<u>768</u>	<u>29.8</u>
450.soplex	2	918	18.2	915	18.2	<u>917</u>	<u>18.2</u>	2	922	18.1	917	18.2	<u>918</u>	<u>18.2</u>
453.povray	2	283	37.6	283	37.6	<u>283</u>	<u>37.6</u>	2	280	38.0	<u>281</u>	<u>37.9</u>	281	37.9
454.calculix	2	<u>725</u>	<u>22.8</u>	725	22.8	723	22.8	2	514	32.1	<u>514</u>	<u>32.1</u>	515	32.0
459.GemsFDTD	2	<u>1551</u>	<u>13.7</u>	1554	13.7	1541	13.8	2	1504	14.1	1505	14.1	<u>1504</u>	<u>14.1</u>
465.tonto	2	778	25.3	<u>775</u>	<u>25.4</u>	770	25.6	2	751	26.2	755	26.1	<u>755</u>	<u>26.1</u>
470.lbm	2	2093	13.1	<u>2093</u>	<u>13.1</u>	2092	13.1	1	736	18.7	740	18.6	<u>740</u>	<u>18.6</u>
481.wrf	2	862	25.9	<u>862</u>	<u>25.9</u>	858	26.0	2	862	25.9	<u>862</u>	<u>25.9</u>	858	26.0
482.sphinx3	2	1252	31.1	<u>1256</u>	<u>31.0</u>	1257	31.0	2	1238	31.5	1249	31.2	<u>1241</u>	<u>31.4</u>

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

## General Notes

The system bus runs at 800 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:

-fast /F1000000000

C++ benchmarks:

-fast -Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F1000000000

Benchmarks using both Fortran and C:

-fast /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: -fast -Qunroll2 -Oa /F1000000000
470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000
482.sphinx3: -fast -Qunroll2 /F1000000000

```

C++ benchmarks:

```

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
        -link /FORCE:MULTIPLE
447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000
        shlw32m.lib -link /FORCE:MULTIPLE
450.soplex: -fast -Qcxx_features /F1000000000 shlw32m.lib
        -link /FORCE:MULTIPLE
453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000
        shlw32m.lib -link /FORCE:MULTIPLE

```

Fortran benchmarks:

```

410.bwaves: basepeak = yes
416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep-
        /F1000000000
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000
437.leslie3d: -fast -Qprefetch /F1000000000
459.GemsFDTD: -fast -Qunroll2 -Ob0 -Qprefetch /F1000000000
465.tonto: -fast -Qunroll4 -Qauto /F1000000000

```

Benchmarks using both Fortran and C:

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## Peak Optimization Flags (Continued)

435.gromacs: -fast -Oa -Qprefetch /F1000000000

436.cactusADM: -fast -Qunroll2 -Qprefetch /F1000000000

454.calculix: -fast -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](mailto:webmaster@spec.org).

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