



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Intel Corporation

### SPECfp®\_rate2006 = 16.6

### Lenovo ThinkPad T60 (Intel Core Duo T2700)

### SPECfp\_rate\_base2006 = 16.4

CPU2006 license: 13

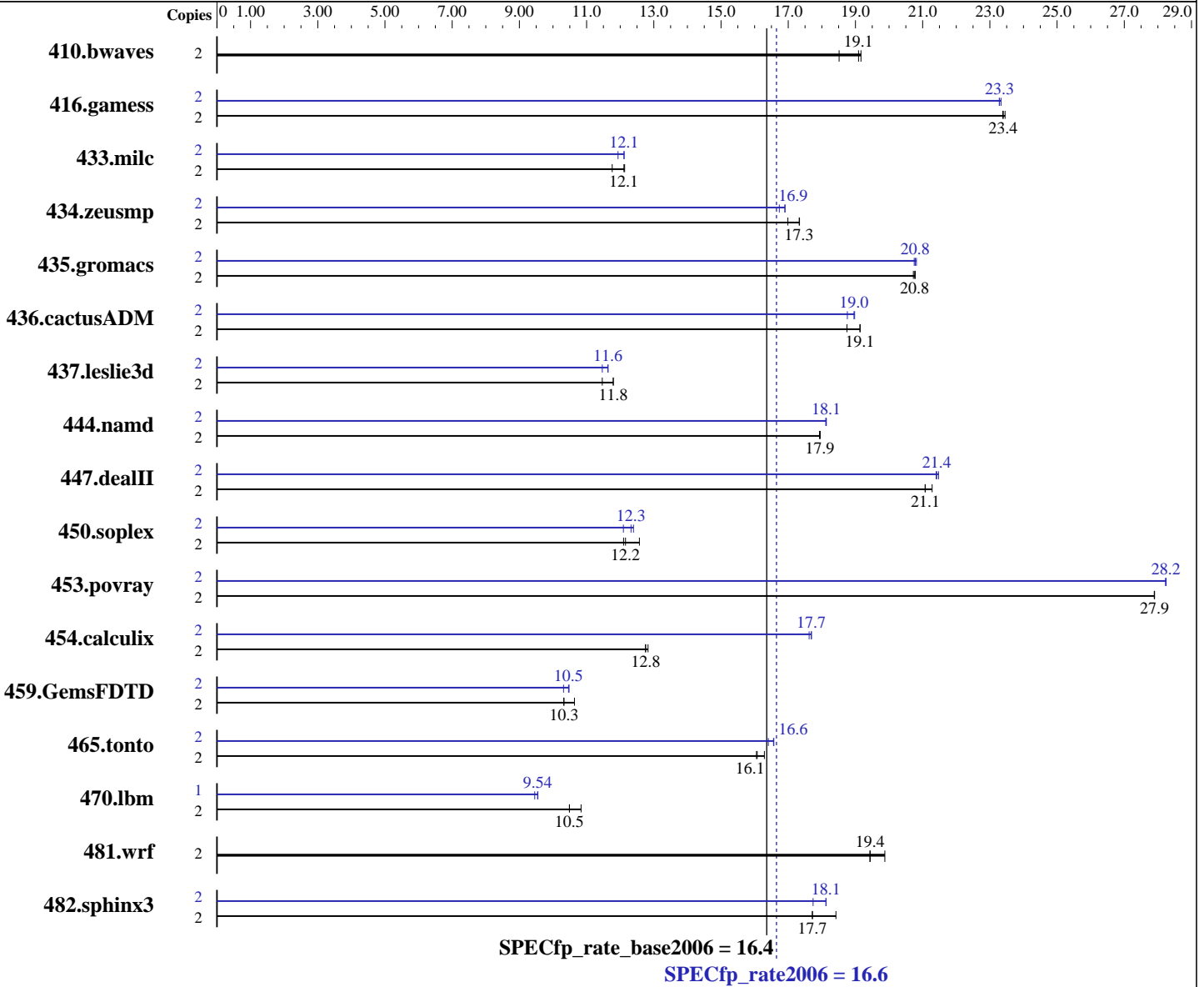
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



#### Hardware

CPU Name: Intel Core Duo T2700  
 CPU Characteristics: 2333  
 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: No  
 File System: NTFS  
 System State: Default

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp\_rate2006 = 16.6

Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECfp\_rate\_base2006 = 16.4

CPU2006 license: 13

Test date: Dec-2007

Test sponsor: Intel Corporation

Hardware Availability: Jan-2008

Tested by: Intel Corporation

Software Availability: Nov-2007

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	<b>1424</b>	<b>19.1</b>	1468	18.5	1418	19.2	2	<b>1424</b>	<b>19.1</b>	1468	18.5	1418	19.2
416.gamess	2	<b>1674</b>	<b>23.4</b>	1675	23.4	1670	23.5	2	1678	23.3	<b>1682</b>	<b>23.3</b>	1682	23.3
433.milc	2	<b>1516</b>	<b>12.1</b>	1561	11.8	1513	12.1	2	1515	12.1	<b>1516</b>	<b>12.1</b>	1538	11.9
434.zeusmp	2	1050	17.3	1071	17.0	<b>1050</b>	<b>17.3</b>	2	<b>1077</b>	<b>16.9</b>	1077	16.9	1088	16.7
435.gromacs	2	<b>688</b>	<b>20.8</b>	689	20.7	687	20.8	2	686	20.8	<b>687</b>	<b>20.8</b>	688	20.7
436.cactusADM	2	1249	19.1	1275	18.7	<b>1249</b>	<b>19.1</b>	2	1260	19.0	<b>1261</b>	<b>19.0</b>	1274	18.8
437.leslie3d	2	<b>1594</b>	<b>11.8</b>	1640	11.5	1594	11.8	2	<b>1616</b>	<b>11.6</b>	1616	11.6	1639	11.5
444.namd	2	<b>894</b>	<b>17.9</b>	895	17.9	894	17.9	2	885	18.1	<b>885</b>	<b>18.1</b>	885	18.1
447.dealII	2	1075	21.3	1086	21.1	<b>1085</b>	<b>21.1</b>	2	<b>1068</b>	<b>21.4</b>	1066	21.5	1069	21.4
450.soplex	2	1327	12.6	1379	12.1	<b>1372</b>	<b>12.2</b>	2	1346	12.4	<b>1354</b>	<b>12.3</b>	1379	12.1
453.povray	2	381	27.9	381	27.9	<b>381</b>	<b>27.9</b>	2	377	28.2	<b>377</b>	<b>28.2</b>	377	28.2
454.calculix	2	1286	12.8	1294	12.8	<b>1293</b>	<b>12.8</b>	2	933	17.7	<b>933</b>	<b>17.7</b>	936	17.6
459.GemsFDTD	2	1995	10.6	<b>2055</b>	<b>10.3</b>	2056	10.3	2	<b>2028</b>	<b>10.5</b>	2025	10.5	2057	10.3
465.tonto	2	1208	16.3	1226	16.1	<b>1224</b>	<b>16.1</b>	2	<b>1188</b>	<b>16.6</b>	1188	16.6	1199	16.4
470.lbm	2	2536	10.8	2620	10.5	<b>2620</b>	<b>10.5</b>	1	<b>1440</b>	<b>9.54</b>	1439	9.55	1453	9.46
481.wrf	2	1124	19.9	1150	19.4	<b>1149</b>	<b>19.4</b>	2	1124	19.9	1150	19.4	<b>1149</b>	<b>19.4</b>
482.sphinx3	2	2116	18.4	2200	17.7	<b>2200</b>	<b>17.7</b>	2	<b>2151</b>	<b>18.1</b>	2151	18.1	2197	17.7

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

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp\_rate2006 = 16.6

Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECfp\_rate\_base2006 = 16.4

CPU2006 license: 13

Test date: Dec-2007

Test sponsor: Intel Corporation

Hardware Availability: Jan-2008

Tested by: Intel Corporation

Software Availability: Nov-2007

## 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- /F1000000000

C++ benchmarks:

-QxP -Qipo -O3 -Qprec-div- -Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

-QxP -Qipo -O3 -Qprec-div- /F1000000000

Benchmarks using both Fortran and C:

-QxP -Qipo -O3 -Qprec-div- /F1000000000

## Peak Compiler Invocation

C benchmarks:

icl -Qvc8 -Qc99

C++ benchmarks:

icl -Qvc8

Fortran benchmarks:

ifort

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp\_rate2006 = 16.6

Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECfp\_rate\_base2006 = 16.4

CPU2006 license: 13

Test date: Dec-2007

Test sponsor: Intel Corporation

Hardware Availability: Jan-2008

Tested by: Intel Corporation

Software Availability: Nov-2007

## 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

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

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

C++ benchmarks:

444.namd: -QxP -Qipo -O3 -Qprec-div- -Oa -Qcxx\_features  
/F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

447.dealII: -QxP -Qipo -O3 -Qprec-div- -Qunroll2 -Qprefetch  
-Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

450.soplex: -QxP -Qipo -O3 -Qprec-div- -Qcxx\_features /F1000000000  
shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -QxP -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias  
-Qcxx\_features /F1000000000 shlw32m.lib  
-link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

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

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp\_rate2006 = 16.6

Lenovo ThinkPad T60 (Intel Core Duo T2700)

SPECfp\_rate\_base2006 = 16.4

CPU2006 license: 13

Test date: Dec-2007

Test sponsor: Intel Corporation

Hardware Availability: Jan-2008

Tested by: Intel Corporation

Software Availability: Nov-2007

## Peak Optimization Flags (Continued)

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

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

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

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

Benchmarks using both Fortran and C:

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

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

454.calculix: -QxP -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>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.0.  
Report generated on Tue Jul 22 16:11:50 2014 by SPEC CPU2006 PS/PDF formatter v6932.  
Originally published on 23 January 2008.