



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp®_rate2006 = 21.7

Lenovo ThinkPad T61 (Intel Core 2 Duo T7800)

SPECfp_rate_base2006 = 21.4

CPU2006 license: 13

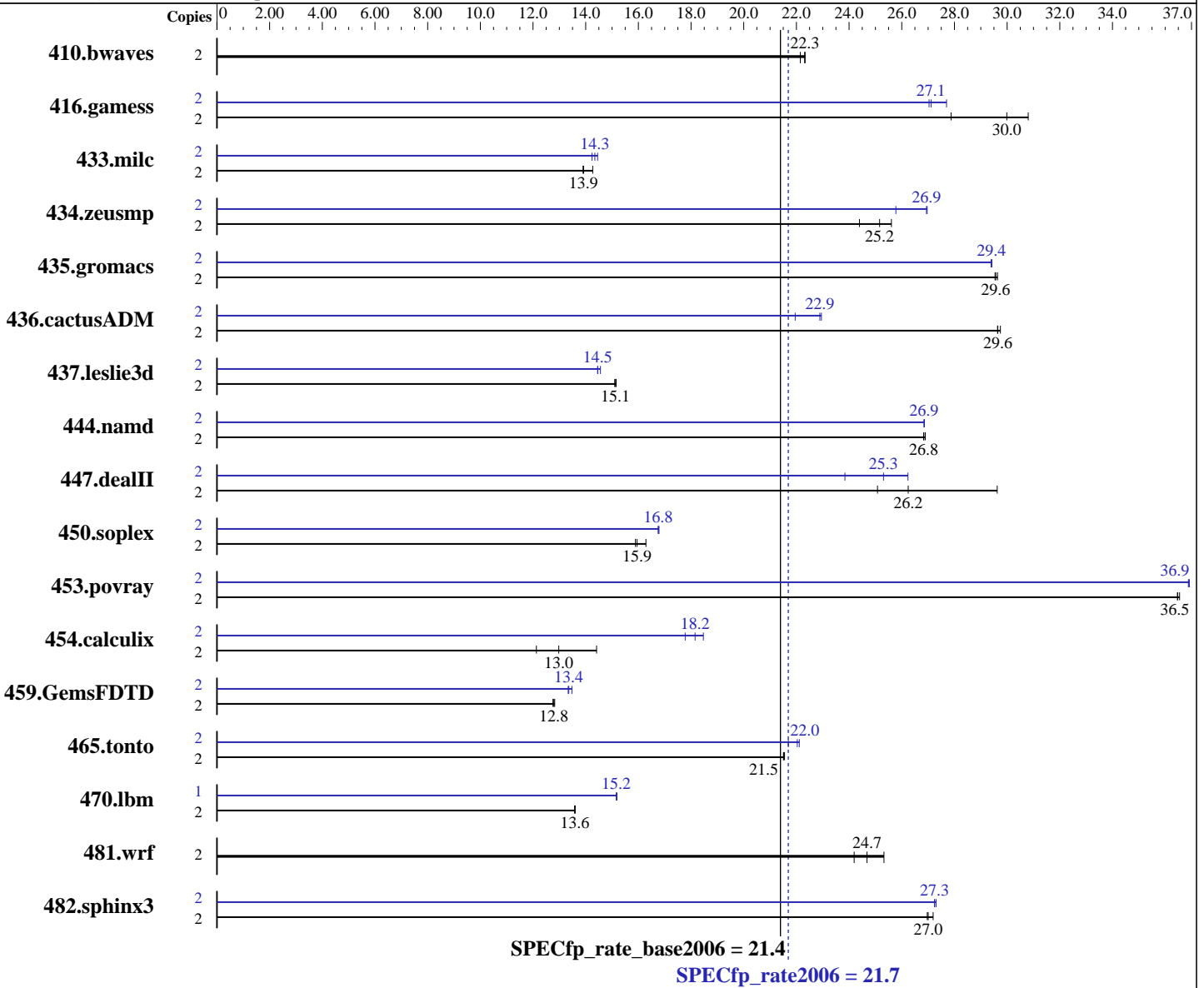
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Duo T7800
 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: 4 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 = 21.7

Lenovo ThinkPad T61 (Intel Core 2 Duo T7800)

SPECfp_rate_base2006 = 21.4

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	1217	22.3	<u>1218</u>	<u>22.3</u>	1227	22.1	2	1217	22.3	<u>1218</u>	<u>22.3</u>	1227	22.1
416.gamess	2	1271	30.8	1405	27.9	<u>1306</u>	<u>30.0</u>	2	<u>1444</u>	<u>27.1</u>	1448	27.0	1414	27.7
433.milc	2	1287	14.3	1321	13.9	<u>1319</u>	<u>13.9</u>	2	1270	14.5	<u>1280</u>	<u>14.3</u>	1289	14.2
434.zeusmp	2	746	24.4	711	25.6	<u>723</u>	<u>25.2</u>	2	<u>676</u>	<u>26.9</u>	706	25.8	675	27.0
435.gromacs	2	482	29.6	<u>483</u>	<u>29.6</u>	483	29.5	2	485	29.4	<u>486</u>	<u>29.4</u>	486	29.4
436.cactusADM	2	803	29.7	<u>806</u>	<u>29.6</u>	806	29.6	2	<u>1044</u>	<u>22.9</u>	1089	22.0	1041	22.9
437.leslie3d	2	1240	15.2	<u>1242</u>	<u>15.1</u>	1245	15.1	2	1291	14.6	1301	14.5	<u>1301</u>	<u>14.5</u>
444.namd	2	596	26.9	598	26.8	<u>598</u>	<u>26.8</u>	2	<u>597</u>	<u>26.9</u>	597	26.9	598	26.8
447.dealII	2	772	29.6	912	25.1	<u>872</u>	<u>26.2</u>	2	<u>904</u>	<u>25.3</u>	960	23.8	872	26.2
450.soplex	2	1050	15.9	1024	16.3	<u>1046</u>	<u>15.9</u>	2	996	16.8	994	16.8	<u>995</u>	<u>16.8</u>
453.povray	2	291	36.5	<u>292</u>	<u>36.5</u>	292	36.5	2	<u>288</u>	<u>36.9</u>	288	36.9	288	36.9
454.calculix	2	1145	14.4	<u>1271</u>	<u>13.0</u>	1360	12.1	2	928	17.8	893	18.5	<u>909</u>	<u>18.2</u>
459.GemsFDTD	2	<u>1659</u>	<u>12.8</u>	1655	12.8	1663	12.8	2	1575	13.5	<u>1589</u>	<u>13.4</u>	1591	13.3
465.tonto	2	913	21.5	<u>915</u>	<u>21.5</u>	915	21.5	2	890	22.1	907	21.7	<u>893</u>	<u>22.0</u>
470.lbm	2	2020	13.6	<u>2022</u>	<u>13.6</u>	2024	13.6	1	906	15.2	905	15.2	<u>906</u>	<u>15.2</u>
481.wrf	2	882	25.3	<u>905</u>	<u>24.7</u>	923	24.2	2	882	25.3	<u>905</u>	<u>24.7</u>	923	24.2
482.sphinx3	2	1434	27.2	<u>1444</u>	<u>27.0</u>	1445	27.0	2	1427	27.3	1431	27.2	<u>1430</u>	<u>27.3</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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp_rate2006 = 21.7

Lenovo ThinkPad T61 (Intel Core 2 Duo T7800)

SPECfp_rate_base2006 = 21.4

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)

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



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp_rate2006 = 21.7

Lenovo ThinkPad T61 (Intel Core 2 Duo T7800)

SPECfp_rate_base2006 = 21.4

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007

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:

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

SPECfp_rate2006 = 21.7

Lenovo ThinkPad T61 (Intel Core 2 Duo T7800)

SPECfp_rate_base2006 = 21.4

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007

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>

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.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 16:11:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 23 January 2008.