



SPEC[®] CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.
(Test Sponsor: Intel Corporation)

SPECfp[®]_rate2006 = 23.9

XPS M1730 (Intel Core 2 Extreme X7900)

SPECfp_rate_base2006 = 23.3

CPU2006 license: 13

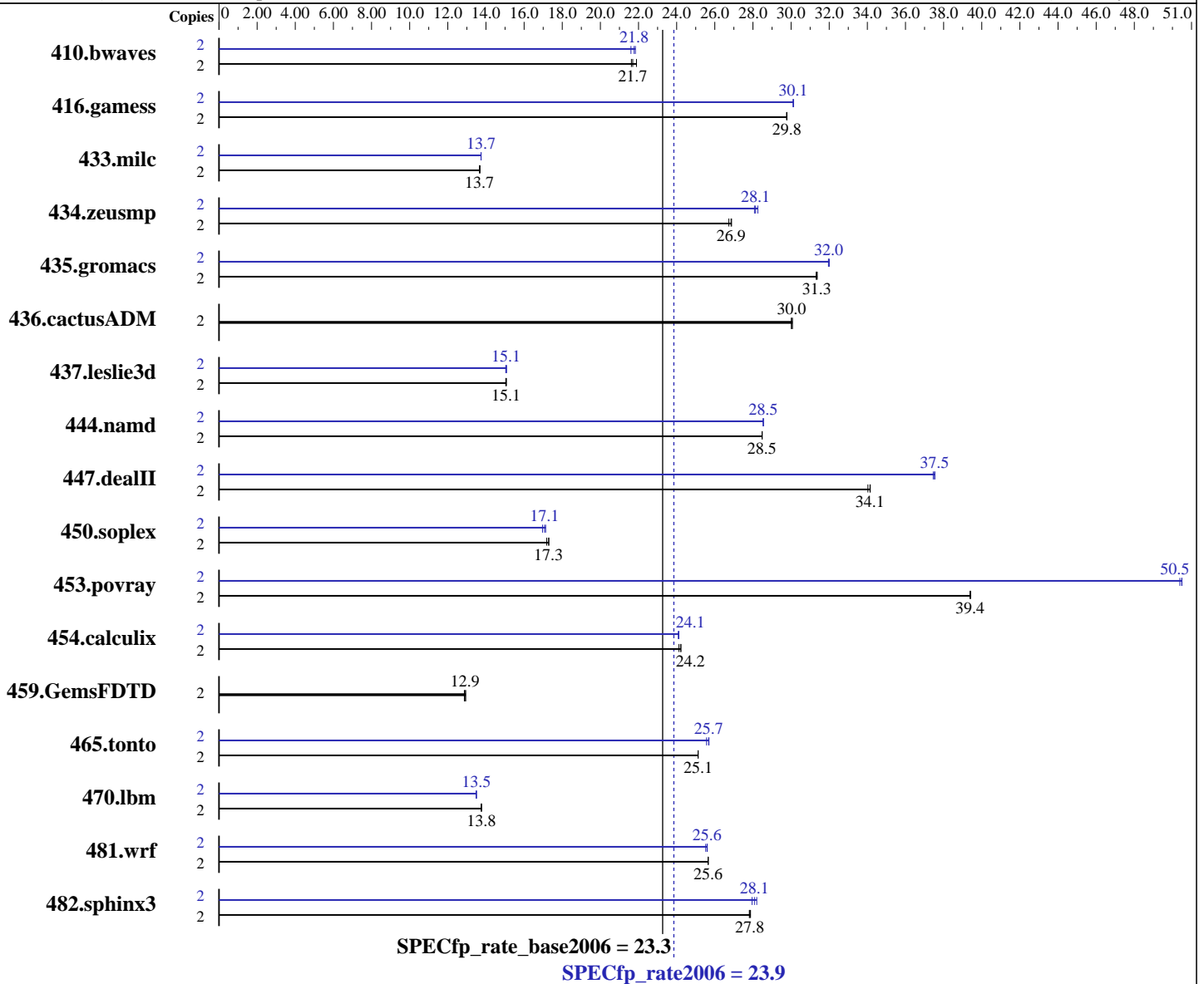
Test date: Jul-2007

Test sponsor: Intel Corporation

Hardware Availability: Aug-2007

Tested by: Intel Corporation

Software Availability: May-2007



Hardware

CPU Name: Intel Core 2 Extreme X7900
 CPU Characteristics: 2800
 CPU MHz: Integrated
 FPU: 2 cores, 1 chip, 2 cores/chip
 CPU(s) enabled: 1 chip
 CPU(s) orderable: 32 KB I + 32 KB D on chip per core
 Primary Cache: 4 MB I+D on chip per chip
 Secondary Cache:

Continued on next page

Software

Operating System: Windows Vista Ultimate (32-bit)
 Compiler: Intel C++ and Fortran Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default
 Base Pointers: 32-bit

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.
(Test Sponsor: Intel Corporation)

SPECfp_rate2006 = 23.9

XPS M1730 (Intel Core 2 Extreme X7900)

SPECfp_rate_base2006 = 23.3

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jul-2007
Hardware Availability: Aug-2007
Software Availability: May-2007

L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Qimonda DDR2-667 CL5)
Disk Subsystem: 80GB SATA, 7200 RPM
Other Hardware: None

Peak Pointers: 32-bit
Other Software: SmartHeap Library Version 8.0 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	1257	21.6	<u>1253</u>	<u>21.7</u>	1241	21.9	2	1258	21.6	1245	21.8	<u>1249</u>	<u>21.8</u>
416.gamess	2	<u>1315</u>	<u>29.8</u>	1315	29.8	1315	29.8	2	1300	30.1	<u>1300</u>	<u>30.1</u>	1301	30.1
433.milc	2	<u>1344</u>	<u>13.7</u>	1341	13.7	1344	13.7	2	1336	13.7	1336	13.7	<u>1336</u>	<u>13.7</u>
434.zeusmp	2	677	26.9	<u>678</u>	<u>26.9</u>	681	26.7	2	648	28.1	<u>647</u>	<u>28.1</u>	644	28.3
435.gromacs	2	<u>456</u>	<u>31.3</u>	455	31.4	456	31.3	2	<u>447</u>	<u>32.0</u>	447	32.0	446	32.0
436.cactusADM	2	795	30.1	<u>796</u>	<u>30.0</u>	796	30.0	2	795	30.1	<u>796</u>	<u>30.0</u>	796	30.0
437.leslie3d	2	1247	15.1	<u>1249</u>	<u>15.1</u>	1250	15.0	2	1247	15.1	1250	15.0	<u>1248</u>	<u>15.1</u>
444.namd	2	<u>563</u>	<u>28.5</u>	563	28.5	563	28.5	2	562	28.5	562	28.5	<u>562</u>	<u>28.5</u>
447.dealII	2	672	34.0	670	34.2	<u>670</u>	<u>34.1</u>	2	<u>610</u>	<u>37.5</u>	611	37.5	609	37.5
450.soplex	2	964	17.3	<u>965</u>	<u>17.3</u>	971	17.2	2	974	17.1	983	17.0	<u>977</u>	<u>17.1</u>
453.povray	2	270	39.4	270	39.4	<u>270</u>	<u>39.4</u>	2	211	50.4	211	50.5	<u>211</u>	<u>50.5</u>
454.calculix	2	<u>681</u>	<u>24.2</u>	684	24.1	681	24.2	2	684	24.1	<u>684</u>	<u>24.1</u>	685	24.1
459.GemsFDTD	2	1640	12.9	1649	12.9	<u>1645</u>	<u>12.9</u>	2	1640	12.9	1649	12.9	<u>1645</u>	<u>12.9</u>
465.tonto	2	783	25.1	<u>783</u>	<u>25.1</u>	783	25.1	2	766	25.7	770	25.6	<u>766</u>	<u>25.7</u>
470.lbm	2	<u>1997</u>	<u>13.8</u>	1997	13.8	1997	13.8	2	2036	13.5	<u>2036</u>	<u>13.5</u>	2036	13.5
481.wrf	2	<u>871</u>	<u>25.6</u>	871	25.7	871	25.6	2	<u>873</u>	<u>25.6</u>	875	25.5	872	25.6
482.sphinx3	2	1398	27.9	1402	27.8	<u>1400</u>	<u>27.8</u>	2	1382	28.2	1394	28.0	<u>1388</u>	<u>28.1</u>

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

General Notes

nVidia GeForce 8700M GT discrete graphics card
Binaries were built on Windows XP Professional SP2
The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
icl -Qvc7.1 -Qc99

C++ benchmarks:
icl -Qvc7.1

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

(Test Sponsor: Intel Corporation)

SPECfp_rate2006 = 23.9

XPS M1730 (Intel Core 2 Extreme X7900)

SPECfp_rate_base2006 = 23.3

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Aug-2007

Software Availability: May-2007

Base Compiler Invocation (Continued)

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort

Base Portability Flags

436.cactusADM: -Qlowercase /assume:underscore

444.namd: -TP

447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T

453.povray: -DSPEC_CPU_WINDOWS_ICL

454.calculix: -DSPEC_CPU_NOZMODIFIER -Qlowercase

481.wrf: -DSPEC_CPU_WINDOWS_ICL

Base Optimization Flags

C benchmarks:

-fast /F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

-fast -Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

-fast /F950000000

Benchmarks using both Fortran and C:

-fast /F950000000

Peak Compiler Invocation

C benchmarks:

icl -Qvc7.1 -Qc99

C++ benchmarks:

icl -Qvc7.1

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icl -Qvc7.1 -Qc99 ifort



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.
(Test Sponsor: Intel Corporation)

SPECfp_rate2006 = 23.9

XPS M1730 (Intel Core 2 Extreme X7900)

SPECfp_rate_base2006 = 23.3

CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jul-2007
Hardware Availability: Aug-2007
Software Availability: May-2007

Peak Portability Flags

436.cactusADM: -Qlowercase /assume:underscore
444.namd: -TP
447.dealII: -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
-DBOOST_NO_INTRINSIC_WCHAR_T
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: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Oa
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE
470.lbm: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
-Qscalar-rep- -Qprefetch /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE
482.sphinx3: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE

C++ benchmarks:

444.namd: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE
447.dealIII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qprefetch
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE
450.soplex: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx_features
/F950000000 shlw32m.lib -link /FORCE:MULTIPLE
453.povray: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qansi-alias
-Qcxx_features /F950000000 shlw32m.lib
-link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -fast /F950000000
416.gamess: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qunroll2 -Ob0
-Qansi-alias -Qscalar-rep- /F950000000
434.zeusmp: -Qprof_gen(pass 1) -Qprof_use(pass 2) -QxT -O2 -Qprec_div-
-Qunroll0 -Qscalar-rep- /F950000000

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Dell Inc.

(Test Sponsor: Intel Corporation)

SPECfp_rate2006 = 23.9

XPS M1730 (Intel Core 2 Extreme X7900)

SPECfp_rate_base2006 = 23.3

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Aug-2007

Software Availability: May-2007

Peak Optimization Flags (Continued)

437.leslie3d: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast /F950000000

459.GemsFDTD: basepeak = yes

465.tonto: Same as 437.leslie3d

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Oa
/F950000000

436.cactusADM: basepeak = yes

454.calculix: -fast /F950000000

481.wrf: Same as 454.calculix

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.20090714.47.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.20090714.47.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 12:34:02 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 18 September 2007.