



SPEC[®] CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9450)

SPECfp[®]_rate2006 = 42.7

SPECfp_rate_base2006 = 41.1

CPU2006 license: 13

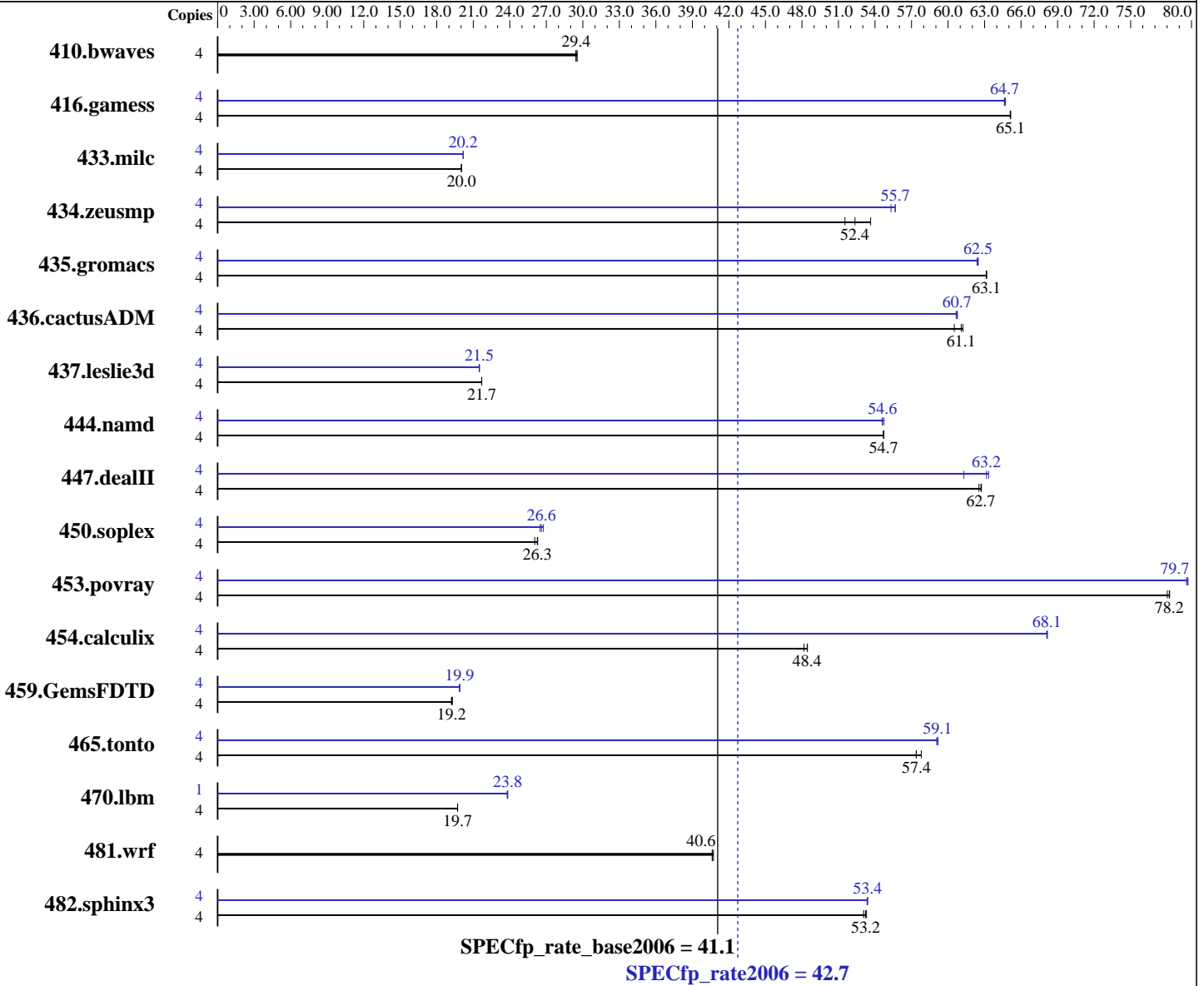
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Quad Q9450
 CPU Characteristics: 2.66 GHz, 1333 FSB
 CPU MHz: 2667
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Continued on next page

Software

Operating System: Windows Vista Ultimate (64-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

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9450)

SPECfp_rate2006 = 42.7

SPECfp_rate_base2006 = 41.1

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007

L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1GB Micron DDR2-800 CL5)
Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
Other Hardware: None

Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: 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	4	1846	29.4	1840	29.5	1847	29.4	4	1846	29.4	1840	29.5	1847	29.4		
416.gamess	4	1203	65.1	1202	65.1	1202	65.1	4	1210	64.7	1212	64.6	1211	64.7		
433.milc	4	1833	20.0	1833	20.0	1833	20.0	4	1821	20.2	1820	20.2	1820	20.2		
434.zeusmp	4	695	52.4	706	51.5	679	53.6	4	654	55.7	658	55.3	654	55.7		
435.gromacs	4	452	63.1	452	63.2	452	63.1	4	457	62.5	458	62.4	457	62.5		
436.cactusADM	4	783	61.1	790	60.5	781	61.2	4	787	60.8	787	60.7	788	60.7		
437.leslie3d	4	1734	21.7	1733	21.7	1733	21.7	4	1749	21.5	1749	21.5	1749	21.5		
444.namd	4	586	54.7	586	54.7	587	54.7	4	588	54.6	587	54.6	586	54.7		
447.dealII	4	729	62.7	732	62.5	730	62.7	4	725	63.2	723	63.3	747	61.3		
450.soplex	4	1269	26.3	1270	26.3	1281	26.0	4	1247	26.8	1259	26.5	1254	26.6		
453.povray	4	272	78.2	273	78.0	272	78.2	4	267	79.6	267	79.7	267	79.7		
454.calculix	4	685	48.2	681	48.5	681	48.4	4	485	68.1	484	68.1	484	68.2		
459.GemsFDTD	4	2200	19.3	2208	19.2	2209	19.2	4	2136	19.9	2133	19.9	2135	19.9		
465.tonto	4	686	57.4	686	57.4	681	57.8	4	666	59.1	665	59.2	666	59.1		
470.lbm	4	2790	19.7	2789	19.7	2788	19.7	1	577	23.8	577	23.8	578	23.8		
481.wrf	4	1097	40.7	1100	40.6	1100	40.6	4	1097	40.7	1100	40.6	1100	40.6		
482.sphinx3	4	1469	53.1	1465	53.2	1463	53.3	4	1461	53.4	1460	53.4	1460	53.4		

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

General Notes

Tested systems can be used with Shin-G ATX case, Antec NeoPower 480W power supply
Product description located as of 03/2008:

<http://www.intel.com/products/motherboard/DQ35JO/index.htm>

The system bus runs at 1333 MHz

System was configured with Asus EN8800GTX discrete graphics card

Binaries were built on Windows Vista Ultimate (32-bit)

The following VS 2005 SP1 updates were applied: KB926601 and KB932232

The start command with the /affinity switch was used to bind processes to cores



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9450)

SPECfp_rate2006 = 42.7

SPECfp_rate_base2006 = 41.1

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007

Base Compiler Invocation

C benchmarks:

`icl -Qvc8 -Qc99`

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:

`-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`

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9450)

SPECfp_rate2006 = 42.7

SPECfp_rate_base2006 = 41.1

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007

Peak Compiler Invocation (Continued)

Fortran benchmarks:
ifort

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: -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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9450)

SPECfp_rate2006 = 42.7

SPECfp_rate_base2006 = 41.1

CPU2006 license: 13

Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Mar-2008

Software Availability: Nov-2007

Peak Optimization Flags (Continued)

434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll10 -Qscalar-rep- /F1000000000

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll12 -Ob0 -Qprefetch /F1000000000

465.tonto: -fast -Qunroll14 -Qauto /F1000000000

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll12 -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-ic10.1-win32-flags.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.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 15:24:21 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 19 March 2008.