SPEC® CFP2006 Result

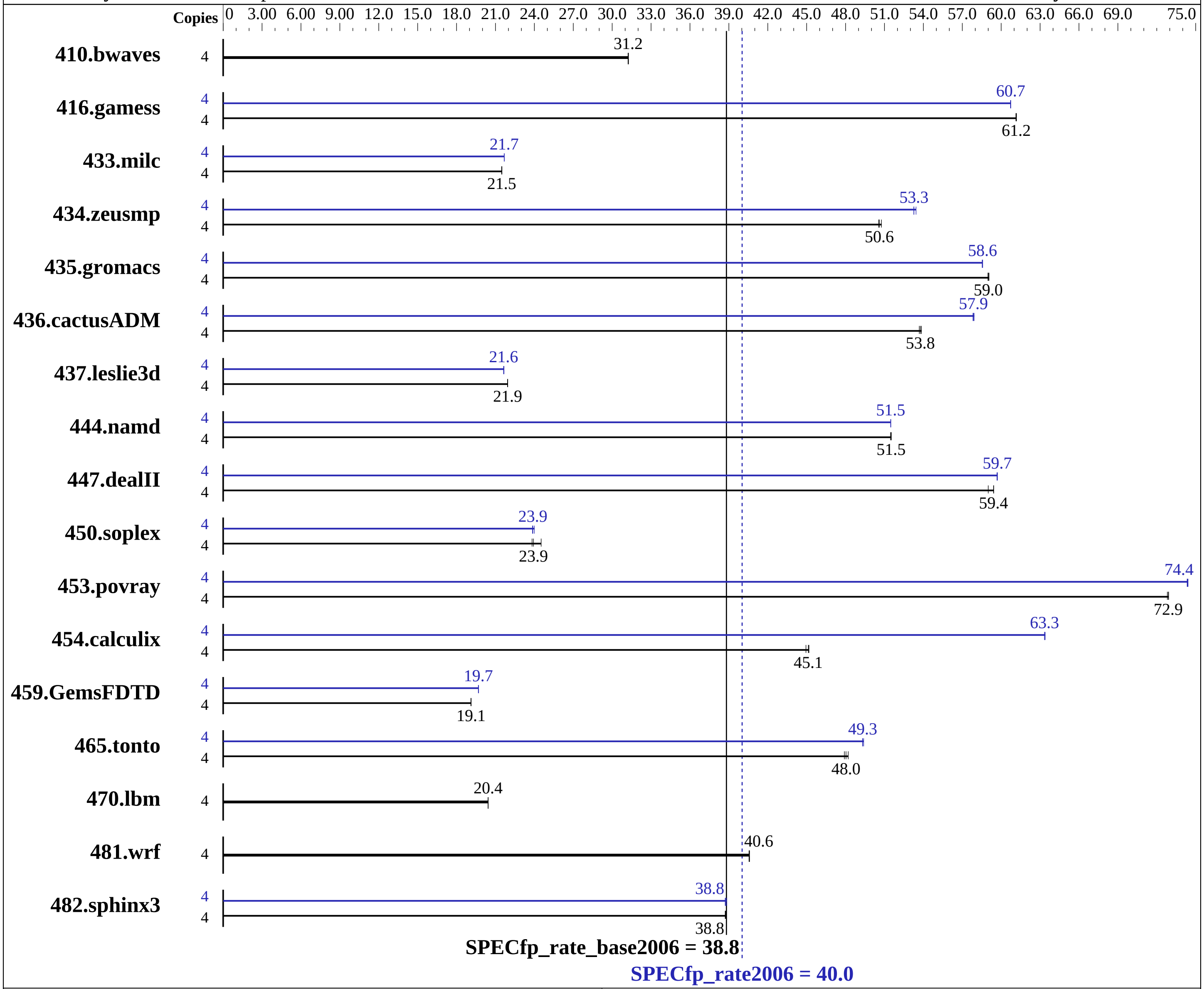
Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo Q9300)

SPECfp®_rate2006 = 40.0

SPECfp_rate_base2006 = 38.8

CPU2006 license:	13	**Test date:**	Feb-2008
Test sponsor:	Intel Corporation	**Hardware Availability:**	Mar-2008
Tested by:	Intel Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Core 2 Quad Q9300
CPU Characteristics:	2.50 GHz, 1333 FSB
CPU MHz:	2500
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:	6 MB I+D on chip per chip, 3 MB shared / 2 cores

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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

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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

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	1741	31.2	**1740**	**31.2**	1739	31.3	4	1741	31.2	**1740**	**31.2**	1739	31.3
416.gamess	4	1281	61.1	1280	61.2	**1280**	**61.2**	4	**1290**	**60.7**	1289	60.7	1290	60.7
433.milc	4	**1709**	**21.5**	1710	21.5	1708	21.5	4	1694	21.7	**1694**	**21.7**	1694	21.7
434.zeusmp	4	**719**	**50.6**	720	50.6	717	50.8	4	**683**	**53.3**	683	53.3	681	53.4
435.gromacs	4	484	59.1	484	59.0	**484**	**59.0**	4	488	58.6	**488**	**58.6**	488	58.5
436.cactusADM	4	888	53.8	**889**	**53.8**	890	53.7	4	827	57.8	**826**	**57.9**	825	57.9
437.leslie3d	4	1714	21.9	**1714**	**21.9**	1713	21.9	4	1736	21.7	1738	21.6	**1738**	**21.6**
444.namd	4	**623**	**51.5**	623	51.5	623	51.5	4	**623**	**51.5**	623	51.5	623	51.5
447.dealII	4	776	59.0	**770**	**59.4**	770	59.4	4	766	59.7	**767**	**59.7**	767	59.7
450.soplex	4	1400	23.8	1360	24.5	**1394**	**23.9**	4	**1397**	**23.9**	1398	23.9	1390	24.0
453.povray	4	292	72.9	**292**	**72.9**	292	72.8	4	286	74.4	**286**	**74.4**	286	74.3
454.calculix	4	734	44.9	730	45.2	**731**	**45.1**	4	**521**	**63.3**	521	63.4	521	63.3
459.GemsFDTD	4	**2220**	**19.1**	2220	19.1	2222	19.1	4	2157	19.7	**2156**	**19.7**	2155	19.7
465.tonto	4	817	48.2	822	47.9	**819**	**48.0**	4	798	49.3	797	49.4	**798**	**49.3**
470.lbm	4	2689	20.4	2689	20.4	**2689**	**20.4**	4	2689	20.4	2689	20.4	**2689**	**20.4**
481.wrf	4	1101	40.6	**1101**	**40.6**	1102	40.6	4	1101	40.6	**1101**	**40.6**	1102	40.6
482.sphinx3	4	2011	38.8	2014	38.7	**2012**	**38.8**	4	2008	38.8	2014	38.7	**2011**	**38.8**

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
```

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`

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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: `basepeak = yes`

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`

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Peak Optimization Flags (Continued)

434.zeusmp: `-QxT -O2 -Qprec-div- -Qunroll0 -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:

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-ic10.1-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`

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.0.
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