



SPEC[®] CFP2006 Result

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Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8400)

SPECfp[®]_rate2006 = 30.9

SPECfp_rate_base2006 = 29.5

CPU2006 license: 13

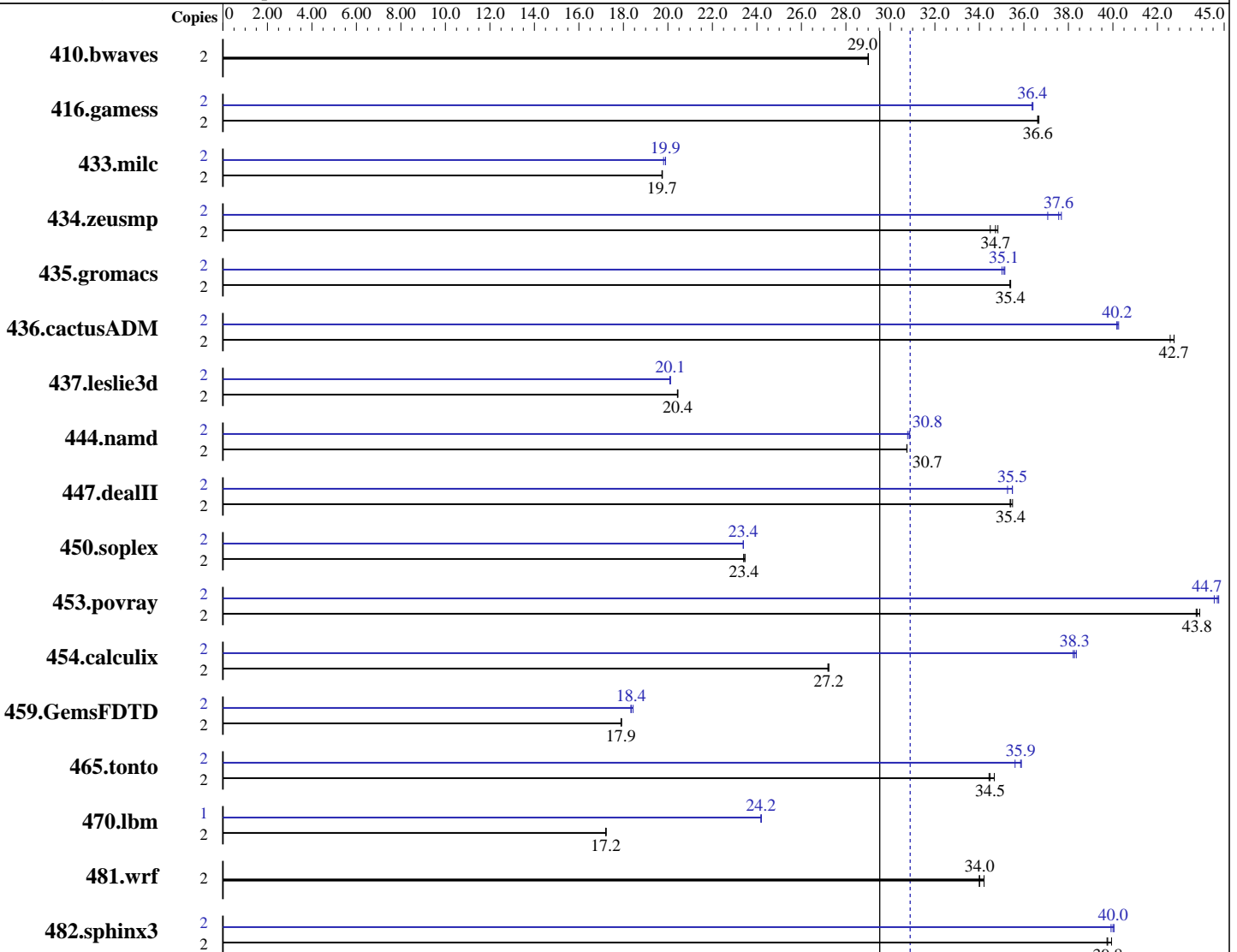
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Feb-2008

Hardware Availability: Feb-2008

Software Availability: Nov-2007



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Hardware

CPU Name: Intel Core 2 Duo E8400
 CPU Characteristics: 3.00 GHz, 1333 FSB
 CPU MHz: 3000
 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: 6 MB I+D on chip per chip

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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

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB 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	2	937	29.0	937	29.0	937	29.0	2	937	29.0	937	29.0	937	29.0
416.gamess	2	1069	36.6	1068	36.7	1069	36.6	2	1076	36.4	1077	36.4	1076	36.4
433.milc	2	929	19.8	930	19.7	930	19.7	2	923	19.9	927	19.8	923	19.9
434.zeusmp	2	528	34.5	524	34.7	523	34.8	2	485	37.6	491	37.1	483	37.7
435.gromacs	2	404	35.4	404	35.4	403	35.4	2	407	35.1	406	35.1	408	35.0
436.cactusADM	2	559	42.7	559	42.8	561	42.6	2	595	40.2	595	40.2	594	40.3
437.leslie3d	2	919	20.5	920	20.4	920	20.4	2	936	20.1	935	20.1	935	20.1
444.namd	2	522	30.7	522	30.7	522	30.7	2	521	30.8	520	30.9	520	30.8
447.dealII	2	646	35.4	647	35.4	645	35.5	2	645	35.5	645	35.5	649	35.3
450.soplex	2	713	23.4	712	23.4	711	23.5	2	713	23.4	713	23.4	713	23.4
453.povray	2	243	43.8	243	43.7	242	43.9	2	238	44.8	238	44.7	239	44.6
454.calculix	2	606	27.2	606	27.2	607	27.2	2	431	38.3	430	38.4	432	38.2
459.GemsFDTD	2	1186	17.9	1184	17.9	1186	17.9	2	1151	18.4	1157	18.3	1156	18.4
465.tonto	2	568	34.7	571	34.5	572	34.4	2	549	35.9	553	35.6	548	35.9
470.lbm	2	1597	17.2	1597	17.2	1595	17.2	1	568	24.2	568	24.2	568	24.2
481.wrf	2	657	34.0	657	34.0	653	34.2	2	657	34.0	657	34.0	653	34.2
482.sphinx3	2	981	39.7	980	39.8	976	39.9	2	974	40.0	977	39.9	973	40.1

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



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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: -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

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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>

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

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