



SPEC® CFP2006 Result

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Intel Corporation

Intel DQ965GF motherboard (Intel Core 2 Quad Q6700)

SPECfp®2006 = 16.6

SPECfp_base2006 = 16.1

CPU2006 license: 13

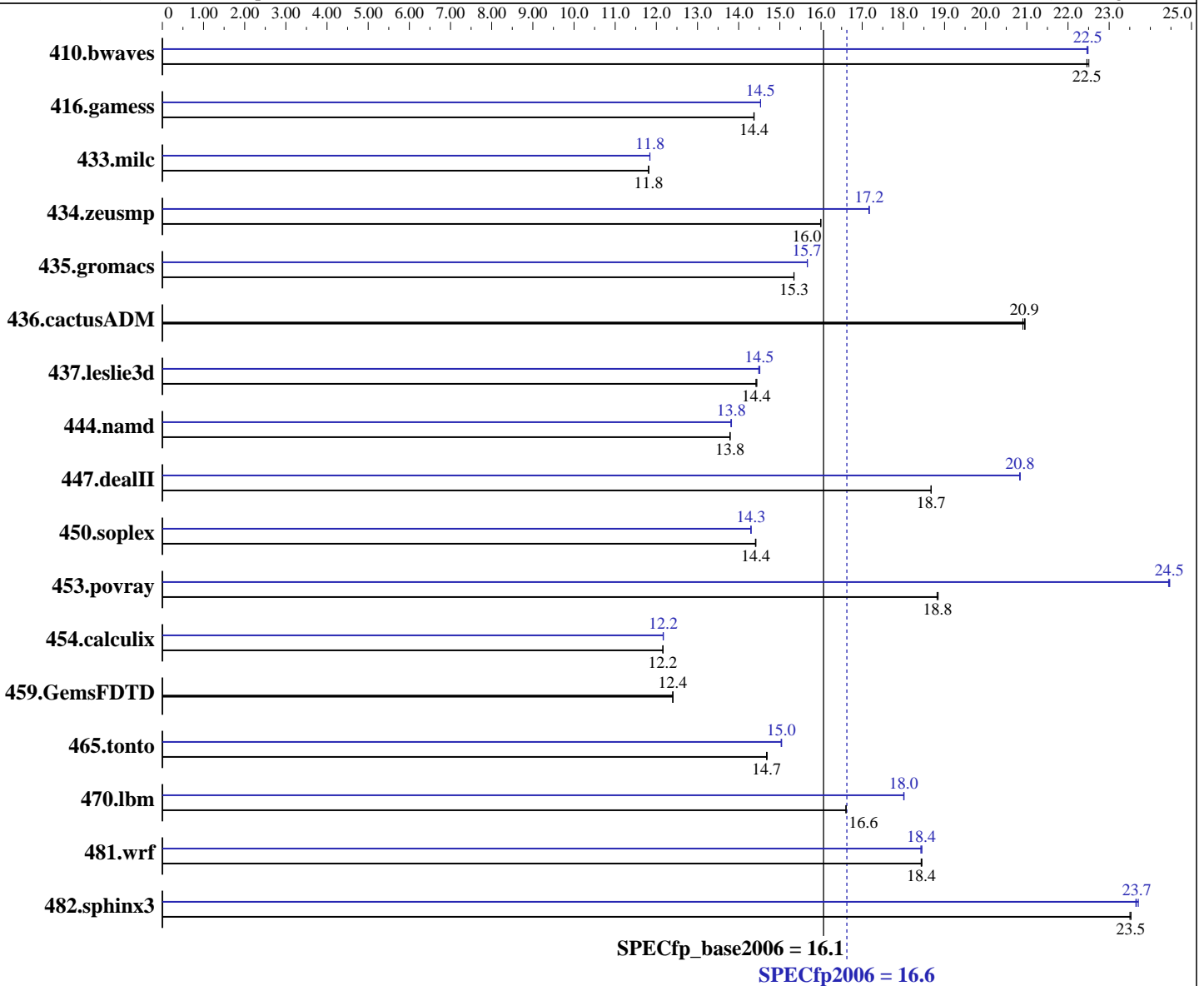
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Jul-2007

Hardware Availability: Jul-2007

Software Availability: Aug-2006



Hardware

CPU Name: Intel Core 2 Quad Q6700
 CPU Characteristics: 2.67 GHz, 1066 MHz bus
 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: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

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Software

Operating System: Windows Vista32 Ultimate
 Compiler: Intel C++ Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_CC_P_10.0.025
 Intel Fortran Compiler for IA32 version 10.0
 Build 20070426 Package ID: W_FC_P_10.0.025
 Microsoft Visual Studio .Net 2003 (for libraries)
 Auto Parallel: No
 File System: NTFS
 System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)
 Disk Subsystem: Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II
 Other Hardware: None

Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: SmartHeap Library Version 8.0 from <http://www.microquill.com/>

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	604	22.5	605	22.5	605	22.5	605	22.5	605	22.5	604	22.5
416.gamess	1363	14.4	1362	14.4	1362	14.4	1347	14.5	1348	14.5	1347	14.5
433.milc	777	11.8	777	11.8	777	11.8	775	11.8	775	11.8	775	11.8
434.zeusmp	569	16.0	569	16.0	569	16.0	530	17.2	530	17.2	530	17.2
435.gromacs	465	15.3	465	15.3	465	15.3	456	15.7	456	15.7	456	15.7
436.cactusADM	572	20.9	571	20.9	570	21.0	572	20.9	571	20.9	570	21.0
437.leslie3d	652	14.4	651	14.4	652	14.4	648	14.5	649	14.5	648	14.5
444.namd	582	13.8	582	13.8	581	13.8	581	13.8	580	13.8	580	13.8
447.dealII	613	18.7	612	18.7	613	18.7	549	20.8	549	20.8	549	20.8
450.soplex	579	14.4	579	14.4	578	14.4	583	14.3	583	14.3	583	14.3
453.povray	283	18.8	282	18.8	282	18.8	217	24.5	217	24.5	218	24.4
454.calculix	679	12.2	679	12.2	678	12.2	678	12.2	678	12.2	678	12.2
459.GemsFDTD	856	12.4	855	12.4	856	12.4	856	12.4	855	12.4	856	12.4
465.tonto	670	14.7	670	14.7	670	14.7	654	15.0	654	15.0	655	15.0
470.lbm	827	16.6	827	16.6	827	16.6	763	18.0	763	18.0	763	18.0
481.wrf	606	18.4	606	18.4	605	18.5	606	18.4	606	18.4	605	18.5
482.sphinx3	829	23.5	828	23.5	828	23.5	822	23.7	824	23.6	823	23.7

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 7/2007:

<http://www.intel.com/products/motherboard/DQ965GF/index.htm>

The system bus runs at 1066 MHz

System was configured with integrated graphics card

Binaries were built on Windows XP Professional SP2 with 4GB of RAM and /3GB boot switch

Base Compiler Invocation

C benchmarks:

```
icl -Qvc7.1 -Qc99
```

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Base Compiler Invocation (Continued)

C++ benchmarks:

icl -Qvc7.1

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

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Peak Compiler Invocation (Continued)

Benchmarks using both Fortran and C:
icl -Qvc7.1 -Qc99 ifort

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.dealII: -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:

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Peak Optimization Flags (Continued)

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-
-Qunroll10 -Qscalar-rep- /F950000000

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.20090714.42.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.20090714.42.xml>

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For other inquiries, please contact webmaster@spec.org.

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