



SPEC[®] CFP2006 Result

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Intel Corporation

SPECfp[®]2006 = 16.9

Intel DG965WH motherboard (Intel Core 2 Duo E6700)

SPECfp_base2006 = 16.3

CPU2006 license: 13

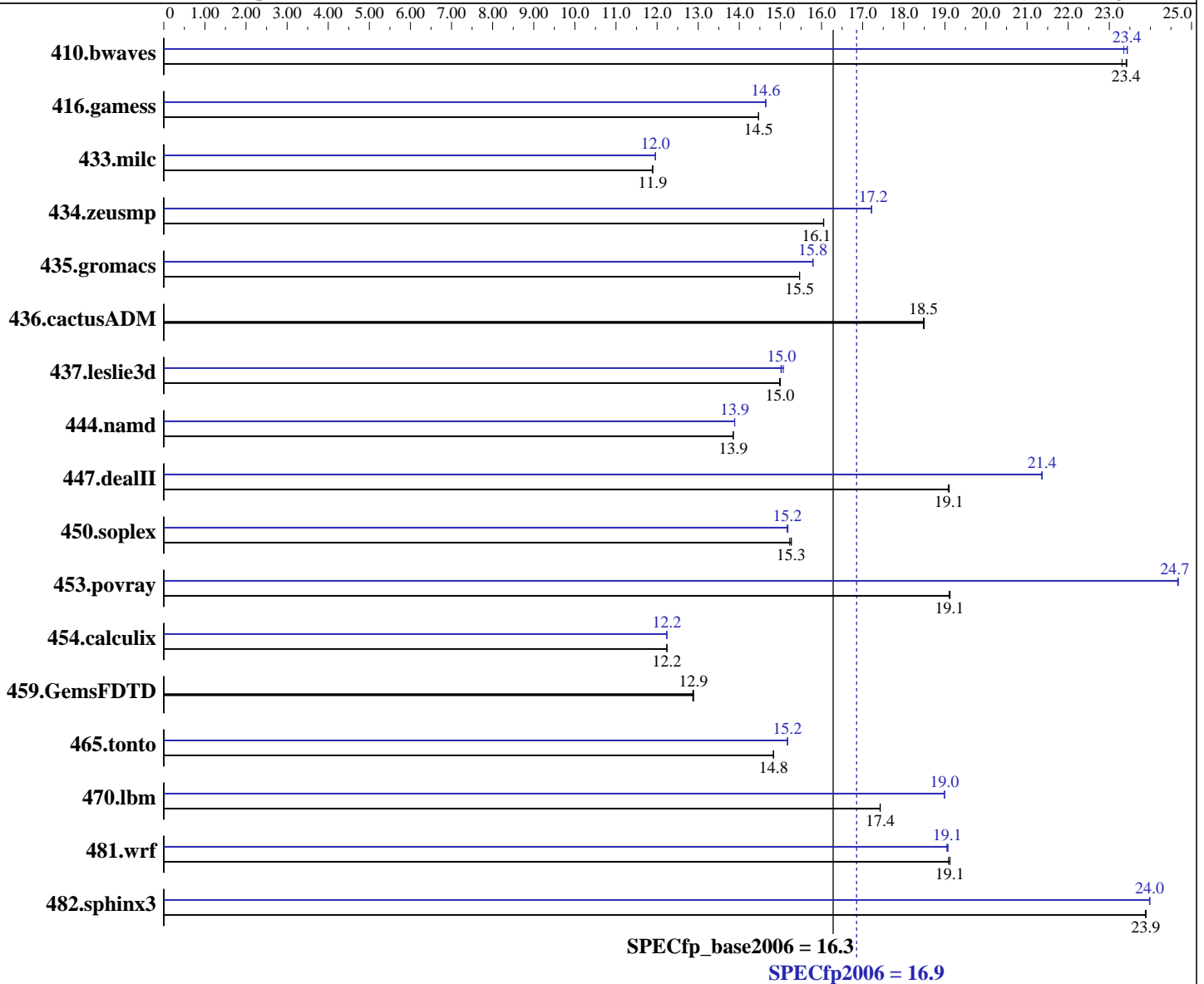
Test date: Jun-2007

Test sponsor: Intel Corporation

Hardware Availability: Aug-2006

Tested by: Intel Corporation

Software Availability: Aug-2006



Hardware

CPU Name: Intel Core 2 Duo E6700
 CPU Characteristics: 2.67 GHz, 1066 MHz bus
 CPU MHz: 2667
 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: 4 MB I+D on chip per chip

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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	581	23.4	583	23.3	580	23.4	580	23.4	580	23.4	582	23.4
416.gamess	1353	14.5	1353	14.5	1353	14.5	1337	14.6	1337	14.6	1337	14.6
433.milc	772	11.9	772	11.9	772	11.9	768	12.0	767	12.0	768	12.0
434.zeusmp	567	16.0	567	16.1	567	16.1	529	17.2	529	17.2	528	17.2
435.gromacs	462	15.5	462	15.5	462	15.5	452	15.8	452	15.8	452	15.8
436.cactusADM	647	18.5	646	18.5	647	18.5	647	18.5	646	18.5	647	18.5
437.leslie3d	627	15.0	627	15.0	627	15.0	624	15.1	626	15.0	626	15.0
444.namd	579	13.8	579	13.9	579	13.9	578	13.9	578	13.9	577	13.9
447.dealII	600	19.1	599	19.1	599	19.1	536	21.4	535	21.4	535	21.4
450.soplex	546	15.3	547	15.3	548	15.2	550	15.2	549	15.2	550	15.2
453.povray	278	19.1	278	19.1	278	19.1	216	24.7	216	24.7	216	24.7
454.calculix	674	12.2	674	12.2	674	12.2	674	12.2	674	12.2	674	12.2
459.GemsFDTD	823	12.9	825	12.9	824	12.9	823	12.9	825	12.9	824	12.9
465.tonto	664	14.8	664	14.8	663	14.8	649	15.2	649	15.2	648	15.2
470.lbm	788	17.4	789	17.4	788	17.4	723	19.0	724	19.0	724	19.0
481.wrf	585	19.1	584	19.1	584	19.1	586	19.1	586	19.1	585	19.1
482.sphinx3	816	23.9	816	23.9	816	23.9	813	24.0	813	24.0	813	24.0

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/DG965WH/index.htm>
 The system bus runs at 1066 MHz
 System has a discrete gfx card - Asus EN8800GTX/HTDP/768M w/ nVidia 8800GTX
 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.

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 12:49:50 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 8 August 2007.