SPEC® CFP2006 Result

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Intel Corporation

Intel DQ965GF motherboard (Intel Core 2 Quad Q6600)

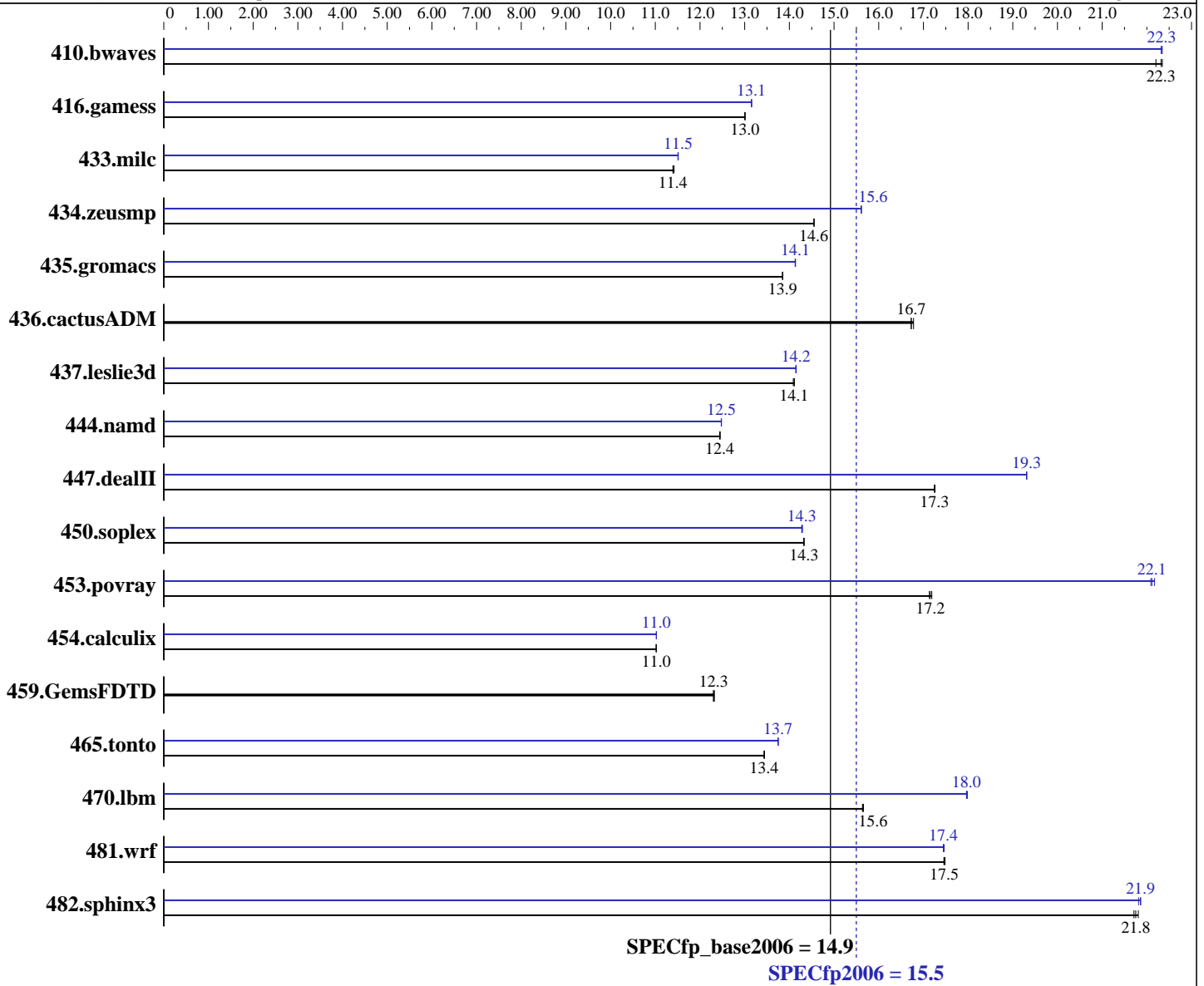$SPECfp^{®}2006 = $ 15.5

$SPECfp_base2006 = $ 14.9

Benchmark	Peak	Base
410.bwaves	22.3	22.3
416.gamess	13.1	13.0
433.milc	11.5	11.4
434.zeusmp	15.6	14.6
435.gromacs	14.1	13.9
436.cactusADM		16.7
437.leslie3d	14.2	14.1
444.namd	12.5	12.4
447.dealII	19.3	17.3
450.soplex	14.3	14.3
453.povray	22.1	17.2
454.calculix	11.0	11.0
459.GemsFDTD		12.3
465.tonto	13.7	13.4
470.lbm	18.0	15.6
481.wrf	17.4	17.5
482.sphinx3	21.9	21.8

SPECfp_base2006 = 14.9

SPECfp2006 = 15.5

Hardware

CPU Name: Intel Core 2 Quad Q6600
CPU Characteristics: 2.40 GHz, 1066 MHz bus
CPU MHz: 2400
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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CPU2006 license: 13		**Test date:**	Jun-2007
Test sponsor: Intel Corporation		**Hardware Availability:**	Jan-2007
Tested by: Intel Corporation		**Software Availability:**	Aug-2006

L3 Cache:	None	Base Pointers:	32-bit
Other Cache:	None	Peak Pointers:	32-bit
Memory:	2 GB (2 1GB Micron MT16HTF12864AY-80ED4 DDR2 800, CL5)	Other Software:	SmartHeap Library Version 8.0 from http://www.microquill.com/
Disk Subsystem:	Seagate ST3320620AS 320GB Barracuda 7200.10 NCQ SATA II		
Other Hardware:	None		

Results Table

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
410.bwaves	612	22.2	**609**	**22.3**	608	22.3	**609**	**22.3**	608	22.3	609	22.3
416.gamess	1505	13.0	1506	13.0	**1505**	**13.0**	1488	13.2	**1489**	**13.1**	1489	13.1
433.milc	804	11.4	806	11.4	**806**	**11.4**	798	11.5	797	11.5	**798**	**11.5**
434.zeusmp	625	14.5	625	14.6	**625**	**14.6**	583	15.6	583	15.6	**583**	**15.6**
435.gromacs	515	13.9	516	13.8	**516**	**13.9**	505	14.1	505	14.1	**505**	**14.1**
436.cactusADM	**714**	**16.7**	712	16.8	714	16.7	**714**	**16.7**	712	16.8	714	16.7
437.leslie3d	667	14.1	666	14.1	**666**	**14.1**	664	14.2	**664**	**14.2**	665	14.1
444.namd	644	12.5	645	12.4	**645**	**12.4**	**643**	**12.5**	643	12.5	643	12.5
447.dealII	**663**	**17.3**	663	17.2	663	17.3	592	19.3	**592**	**19.3**	593	19.3
450.soplex	582	14.3	**582**	**14.3**	582	14.3	584	14.3	584	14.3	**584**	**14.3**
453.povray	310	17.2	**310**	**17.2**	311	17.1	240	22.2	**241**	**22.1**	241	22.1
454.calculix	749	11.0	**749**	**11.0**	748	11.0	**748**	**11.0**	749	11.0	748	11.0
459.GemsFDTD	863	12.3	**862**	**12.3**	861	12.3	863	12.3	**862**	**12.3**	861	12.3
465.tonto	**732**	**13.4**	733	13.4	732	13.4	716	13.7	716	13.8	**716**	**13.7**
470.lbm	**878**	**15.6**	879	15.6	878	15.7	**765**	**18.0**	765	18.0	764	18.0
481.wrf	**639**	**17.5**	640	17.5	639	17.5	640	17.4	640	17.5	**640**	**17.4**
482.sphinx3	894	21.8	898	21.7	**896**	**21.8**	893	21.8	**892**	**21.9**	891	21.9

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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CPU2006 license: 13
Test sponsor: Intel Corporation
Tested by: Intel Corporation

Test date: Jun-2007
Hardware Availability: Jan-2007
Software Availability: Aug-2006

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-`
`-Qunroll0 -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`

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

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