SPEC® CFP2006 Result

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Intel Corporation

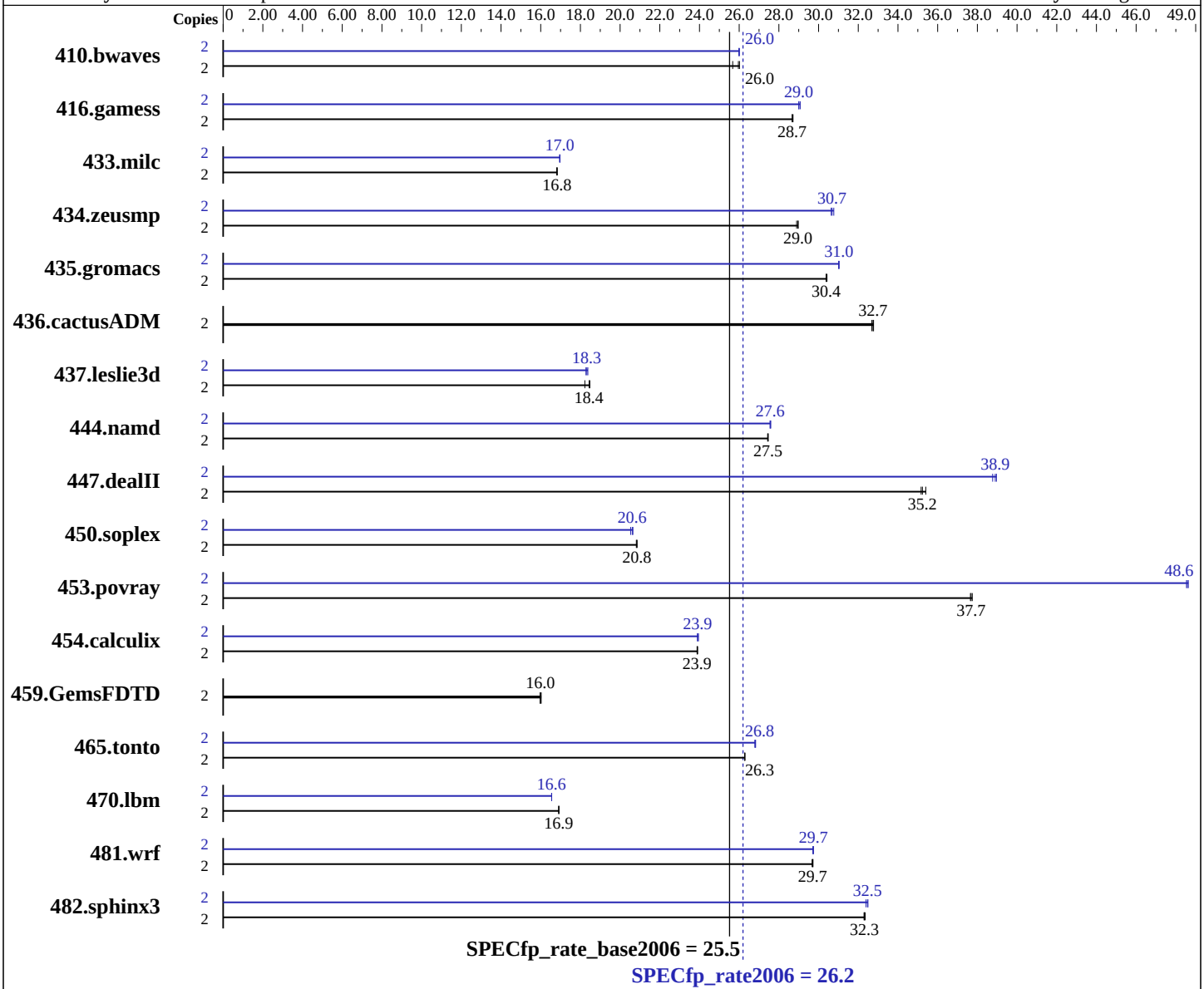
Intel DG965WH motherboard (Intel Core 2 Duo E6700)

SPECfp®_rate2006 = 26.2

SPECfp_rate_base2006 = 25.5

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

Test date: Jun-2007
Hardware Availability: Aug-2006
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1059	25.7	1045	26.0	**1047**	**26.0**	2	1046	26.0	1045	26.0	**1046**	**26.0**
416.gamess	2	1366	28.7	1364	28.7	**1366**	**28.7**	2	1347	29.1	**1350**	**29.0**	1350	29.0
433.milc	2	**1091**	**16.8**	1093	16.8	1091	16.8	2	1082	17.0	1083	17.0	**1082**	**17.0**
434.zeusmp	2	628	29.0	630	28.9	**629**	**29.0**	2	592	30.8	**593**	**30.7**	594	30.6
435.gromacs	2	**470**	**30.4**	469	30.4	470	30.4	2	**460**	**31.0**	461	31.0	460	31.0
436.cactusADM	2	729	32.8	731	32.7	**730**	**32.7**	2	729	32.8	731	32.7	**730**	**32.7**
437.leslie3d	2	**1020**	**18.4**	1032	18.2	1018	18.5	2	1029	18.3	1023	18.4	**1026**	**18.3**
444.namd	2	585	27.4	**584**	**27.5**	584	27.5	2	581	27.6	**582**	**27.6**	582	27.6
447.dealII	2	646	35.4	**649**	**35.2**	651	35.2	2	590	38.8	587	39.0	**588**	**38.9**
450.soplex	2	**800**	**20.8**	801	20.8	800	20.9	2	808	20.6	**809**	**20.6**	812	20.5
453.povray	2	283	37.7	282	37.7	**282**	**37.7**	2	**219**	**48.6**	219	48.6	219	48.5
454.calculix	2	**691**	**23.9**	690	23.9	691	23.9	2	689	23.9	691	23.9	**690**	**23.9**
459.GemsFDTD	2	1324	16.0	**1327**	**16.0**	1329	16.0	2	1324	16.0	**1327**	**16.0**	1329	16.0
465.tonto	2	749	26.3	749	26.3	**749**	**26.3**	2	734	26.8	**734**	**26.8**	735	26.8
470.lbm	2	1625	16.9	**1625**	**16.9**	1625	16.9	2	**1660**	**16.6**	1660	16.6	1661	16.5
481.wrf	2	752	29.7	753	29.7	**752**	**29.7**	2	752	29.7	751	29.7	**751**	**29.7**
482.sphinx3	2	1207	32.3	**1207**	**32.3**	1205	32.3	2	1200	32.5	1204	32.4	**1201**	**32.5**

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
The start command with the /affinity switch was used to bind processes to cores
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc7.1 -Qc99
```

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
```

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Peak Compiler Invocation (Continued)

Fortran benchmarks:
ifort

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

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Peak Optimization Flags (Continued)

Fortran benchmarks:

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`

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