SPEC® CFP2006 Result

ASUSTeK Computer Inc.

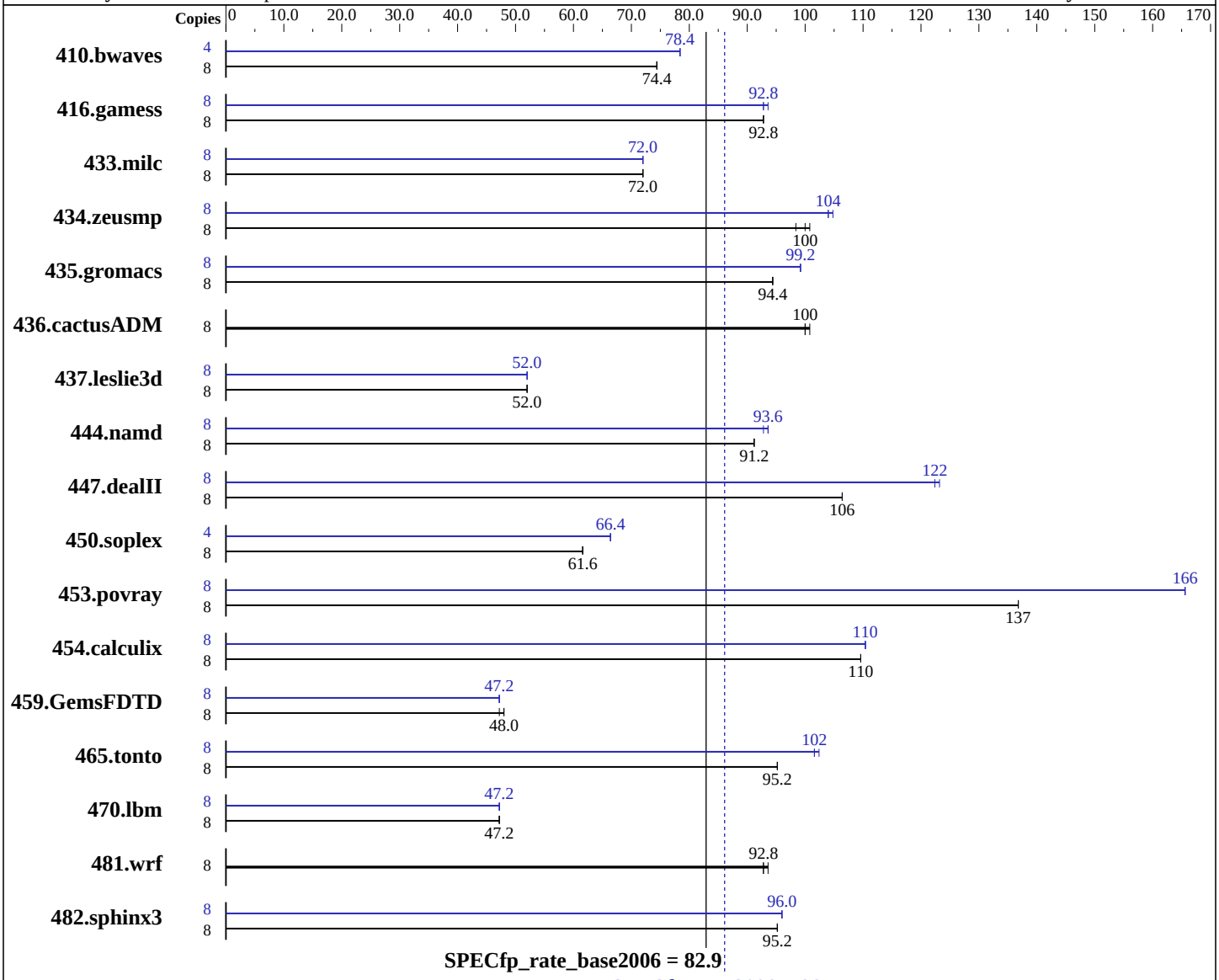
Asus P6T Deluxe (Intel Core i7-965 Extreme Edition)

SPECfp®_rate2006 = 86.1

SPECfp_rate_base2006 = 82.9

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

Test date: Oct-2008
Hardware Availability: Nov-2008
Software Availability: Nov-2008



Hardware

CPU Name:	Intel Core i7-965 Extreme Edition
CPU Characteristics:	Intel Turbo Boost Technology up to 3.46 GHz
CPU MHz:	3200
FPU:	Integrated
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core
CPU(s) orderable:	1 chip
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core

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Software

Operating System:	Windows Vista Ultimate w/ SP1 (64-bit)
Compiler:	Intel C++ Compiler Professional 11.0 for IA32 Build 20080930 Package ID: w_cproc_p_11.0.054 Intel Visual Fortran Compiler Professional 11.0 for IA32 Build 20080930 Package ID: w_cprof_p_11.0.054 Microsoft Visual Studio 2008 (for libraries)
Auto Parallel:	No
File System:	NTFS

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Hardware (Continued)

L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 12 GB (6 x 2GB Samsung M378B5673DZ1-CF8 DDR3-1066 CL7)
Disk Subsystem: 80 GB Intel X-25M SATA Solid-State Drive
Other Hardware: None

Software (Continued)

System State: Default
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	8	1465	74.4	**1466**	**74.4**	1467	74.4	4	694	78.4	**694**	**78.4**	694	78.4
416.gamess	8	**1688**	**92.8**	1688	92.8	1682	92.8	8	**1681**	**92.8**	1674	93.6	1693	92.8
433.milc	8	1021	72.0	**1021**	**72.0**	1021	72.0	8	1022	72.0	**1022**	**72.0**	1022	72.0
434.zeusmp	8	**729**	**100**	741	98.4	721	101	8	**698**	**104**	698	104	694	105
435.gromacs	8	605	94.4	**605**	**94.4**	605	94.4	8	577	99.2	577	99.2	**577**	**99.2**
436.cactusADM	8	951	101	**955**	**100**	958	100	8	951	101	**955**	**100**	958	100
437.leslie3d	8	1438	52.0	**1439**	**52.0**	1443	52.0	8	1440	52.0	1440	52.0	**1440**	**52.0**
444.namd	8	705	91.2	704	91.2	**704**	**91.2**	8	690	92.8	**688**	**93.6**	688	93.6
447.dealII	8	861	106	863	106	**861**	**106**	8	742	123	**746**	**122**	746	122
450.soplex	8	**1083**	**61.6**	1083	61.6	1084	61.6	4	503	66.4	503	66.4	**503**	**66.4**
453.povray	8	311	137	310	137	**311**	**137**	8	257	166	**257**	**166**	257	166
454.calculix	8	**602**	**110**	602	110	602	110	8	**598**	**110**	598	110	598	110
459.GemsFDTD	8	1784	47.2	1782	48.0	**1783**	**48.0**	8	1796	47.2	**1794**	**47.2**	1790	47.2
465.tonto	8	827	95.2	**826**	**95.2**	825	95.2	8	769	102	**772**	**102**	776	102
470.lbm	8	**2337**	**47.2**	2337	47.2	2336	47.2	8	**2337**	**47.2**	2337	47.2	2336	47.2
481.wrf	8	955	93.6	**959**	**92.8**	961	92.8	8	955	93.6	**959**	**92.8**	961	92.8
482.sphinx3	8	1636	95.2	1634	95.2	**1635**	**95.2**	8	1630	96.0	1629	96.0	**1629**	**96.0**

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

```
The config file option 'submit' was used.
```

General Notes

```
Tested systems can be used with Shin-G ATX case,
PC Power and Cooling 1200W power supply
System was configured with nVidia GTX 280 discrete graphics card
Binaries were built on Windows Vista Ultimate (32-bit)
```

Compiler Invocation

C benchmarks:
```
icl -Qvc9 -Qc99
```

C++ benchmarks:
```
icl -Qvc9
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc9 -Qc99 ifort
```

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:
```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000
```

C++ benchmarks:
```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch -Qcxx-features
/F1000000000 shlw32m.lib            -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000
```

Benchmarks using both Fortran and C:
```
-QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000
```

Peak Optimization Flags

C benchmarks:

433.milc: `-QxSSE4.2`(pass 2) `-Qprof_gen`(pass 1) `-Qprof_use`(pass 2)
`-Qipo -O3 -Qprec-div- -Oa /F1000000000`

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Peak Optimization Flags (Continued)

470.lbm: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

482.sphinx3: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Oa /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

447.dealII: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias -Qscalar-rep- /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

450.soplex: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qansi-alias /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: -QxSSE4.2 -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

416.gamess: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000

434.zeusmp: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- /F1000000000

437.leslie3d: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

459.GemsFDTD: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll2 -Ob0 -Qopt-prefetch /F1000000000

465.tonto: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qunroll4 -Qauto /F1000000000

Benchmarks using both Fortran and C:

435.gromacs: -QxSSE4.2(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo -O3 -Qprec-div- -Qopt-prefetch /F1000000000

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Peak Optimization Flags (Continued)

436.cactusADM: `basepeak = yes`

454.calculix: `-QxSSE4.2 -Qipo -O3 -Qprec-div- /F1000000000`

481.wrf: `basepeak = yes`

The flags files that were used to format this result can be browsed at
`http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.html`
`http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.html`

You can also download the XML flags sources by saving the following links:
`http://www.spec.org/cpu2006/flags/Intel-ic11.0-win32-revA.20090713.xml`
`http://www.spec.org/cpu2006/flags/Intel-Win32-Platform.xml`

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

Tested with SPEC CPU2006 v1.1.
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