



SPEC® CFP2006 Result

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Intel Corporation

SPECfp®_rate2006 = 112

Intel DH67BLB3 Motherboard (Intel Core i7-2600K)

SPECfp_rate_base2006 = 109

CPU2006 license: 13

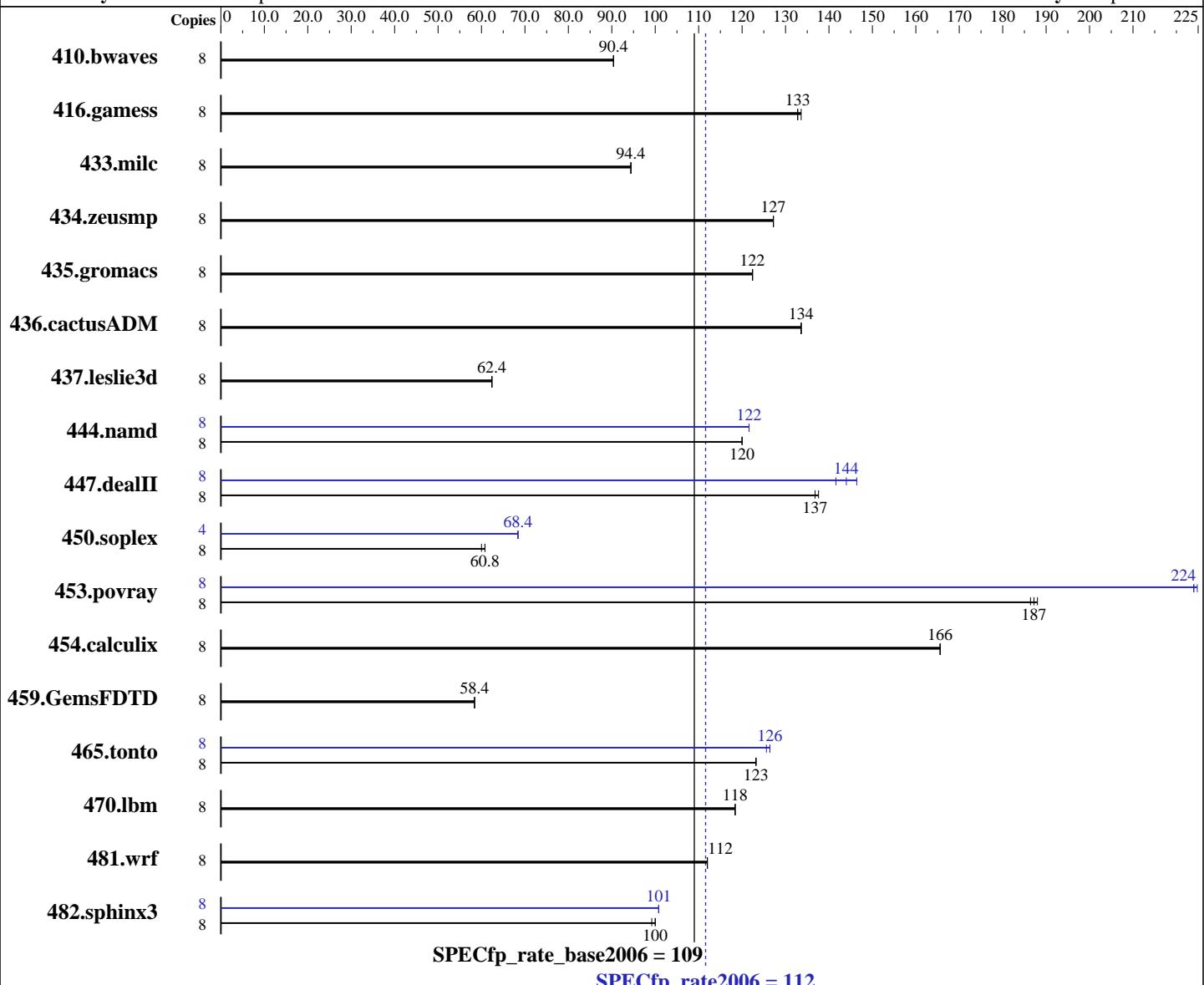
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Apr-2011

Hardware Availability: Mar-2011

Software Availability: Apr-2011



Hardware		Software	
CPU Name:	Intel Core i7-2600K	Operating System:	Windows 7 Ultimate (64-bit)
CPU Characteristics:	Intel Turbo Boost Technology up to 3.8 GHz	Compiler:	Intel C++ Compiler XE for Intel64 Version 12.0.3.163 Build 20110217
CPU MHz:	3400		Intel Visual Fortran Compiler XE for Intel64 Version 12.0.3.163 Build 20110217
FPU:	Integrated		Microsoft Visual Studio 2008 Professional SP1 (for libraries)
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip, 2 threads/core	Auto Parallel:	No
CPU(s) orderable:	1 chip	File System:	NTFS
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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L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB (2 x 4 GB 2Rx8 PC3-10600U-9)
 Disk Subsystem: Seagate 1 TB SATA, 7200 RPM
 Other Hardware: None

System State: Default
 Base Pointers: 32/64-bit
 Peak Pointers: 32/64-bit
 Other Software: SmartHeap Library Version 9.01 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	1208	90.4	1206	90.4	1206	90.4	8	1208	90.4	1206	90.4	1206	90.4
416.gamess	8	1176	134	1180	133	1181	133	8	1176	134	1180	133	1181	133
433.milc	8	777	94.4	777	94.4	777	94.4	8	777	94.4	777	94.4	777	94.4
434.zeusmp	8	571	127	571	127	573	127	8	571	127	571	127	573	127
435.gromacs	8	466	122	467	122	467	122	8	466	122	467	122	467	122
436.cactusADM	8	716	134	715	134	714	134	8	716	134	715	134	714	134
437.leslie3d	8	1205	62.4	1205	62.4	1206	62.4	8	1205	62.4	1205	62.4	1206	62.4
444.namd	8	535	120	535	120	535	120	8	528	122	527	122	528	122
447.dealII	8	668	137	667	137	665	138	8	645	142	634	144	627	146
450.soplex	8	1104	60.8	1102	60.8	1105	60.0	4	487	68.4	488	68.4	488	68.4
453.povray	8	226	188	227	187	228	186	8	190	224	189	225	190	224
454.calculix	8	398	166	399	166	398	166	8	398	166	399	166	398	166
459.GemsFDTD	8	1462	58.4	1462	58.4	1462	58.4	8	1462	58.4	1462	58.4	1462	58.4
465.tonto	8	640	123	638	123	638	123	8	625	126	621	126	625	126
470.lbm	8	926	118	926	118	927	118	8	926	118	926	118	927	118
481.wrf	8	799	112	799	112	799	112	8	799	112	799	112	799	112
482.sphinx3	8	1565	100	1563	100	1566	99.2	8	1552	101	1550	101	1551	101

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.

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

General Notes

Tested systems can be used with Shin-G ATX case,
 PC Power and Cooling 1200W power supply

Base Compiler Invocation

C benchmarks:

icl -Qvc9 -Qstd=c99

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Base Compiler Invocation (Continued)

C++ benchmarks:

 icl -Qvc9

Fortran benchmarks:

 ifort

Benchmarks using both Fortran and C:

 icl -Qvc9 -Qstd=c99 ifort

Base Portability Flags

```
410.bwaves: -DSPEC_CPU_P64 -names:lowercase
416.games: -DSPEC_CPU_P64
433.milc: -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -DSPEC_CPU_P64
436.cactusADM: -DSPEC_CPU_P64 /names:lowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -DSPEC_CPU_P64 -DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER /names:lowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -DSPEC_CPU_P64
```

Base Optimization Flags

C benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F1000000000
          -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qcxx-features
-Qauto-ilp32 /F1000000000 shlw64M.lib                  -link /FORCE:MULTIPLE
```

Fortran benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias /F1000000000
          -link /FORCE:MULTIPLE
```

Benchmarks using both Fortran and C:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qauto-ilp32 /F1000000000
          -link /FORCE:MULTIPLE
```



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Peak Compiler Invocation

C benchmarks:

```
icl -Qvc9 -Qstd=c99
```

C++ benchmarks:

```
icl -Qvc9
```

Fortran benchmarks:

```
ifort
```

Benchmarks using both Fortran and C:

```
icl -Qvc9 -Qstd=c99 ifort
```

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
433.milc: basepeak = yes
```

```
470.lbm: basepeak = yes
```

```
482.sphinx3: -QxAVX -Qipo -O3 -Qprec-div- -Qunroll2 -Qansi-alias  
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
444.namd: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo  
-O3 -Qprec-div- -Oa -Qauto-ilp32 /F1000000000 shlw64M.lib  
-link /FORCE:MULTIPLE
```

```
447.dealII: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qunroll2 -Qansi-alias -Qscalar-rep-  
-Qauto-ilp32 /F1000000000 shlw64M.lib  
-link /FORCE:MULTIPLE
```

```
450.soplex: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo  
-O3 -Qauto-ilp32 /F1000000000 shlw64M.lib  
-link /FORCE:MULTIPLE
```

```
453.povray: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo  
-O3 -Qprec-div- -Qopt-prefetch -Qauto-ilp32 /F1000000000  
shlw64M.lib -link /FORCE:MULTIPLE
```

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Peak Optimization Flags (Continued)

Fortran benchmarks:

```
410.bwaves: basepeak = yes  
416.gamess: basepeak = yes  
434.zeusmp: basepeak = yes  
437.leslie3d: basepeak = yes  
459.GemsFDTD: basepeak = yes  
  
465.tonto: -QxAVX(pass 2) -Qprof_gen(pass 1) -Qprof_use(pass 2) -Qipo  
           -O3 -Qprec-div- -Qunroll14 -Qauto /F1000000000  
           -link /FORCE:MULTIPLE
```

Benchmarks using both Fortran and C:

```
435.gromacs: basepeak = yes  
436.cactusADM: basepeak = yes  
454.calculix: basepeak = yes  
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-ic12-winx64-revB.html>
<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12-winx64-revB.xml>
<http://www.spec.org/cpu2006/flags/Intel-Windows-Platform-Settings.xml>

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

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