



# SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

**Intel Corporation**

**SPECfp®\_rate2006 = 102**

Intel DH67BL Motherboard (Intel Core i5-2320)

**SPECfp\_rate\_base2006 = 100**

CPU2006 license: 13

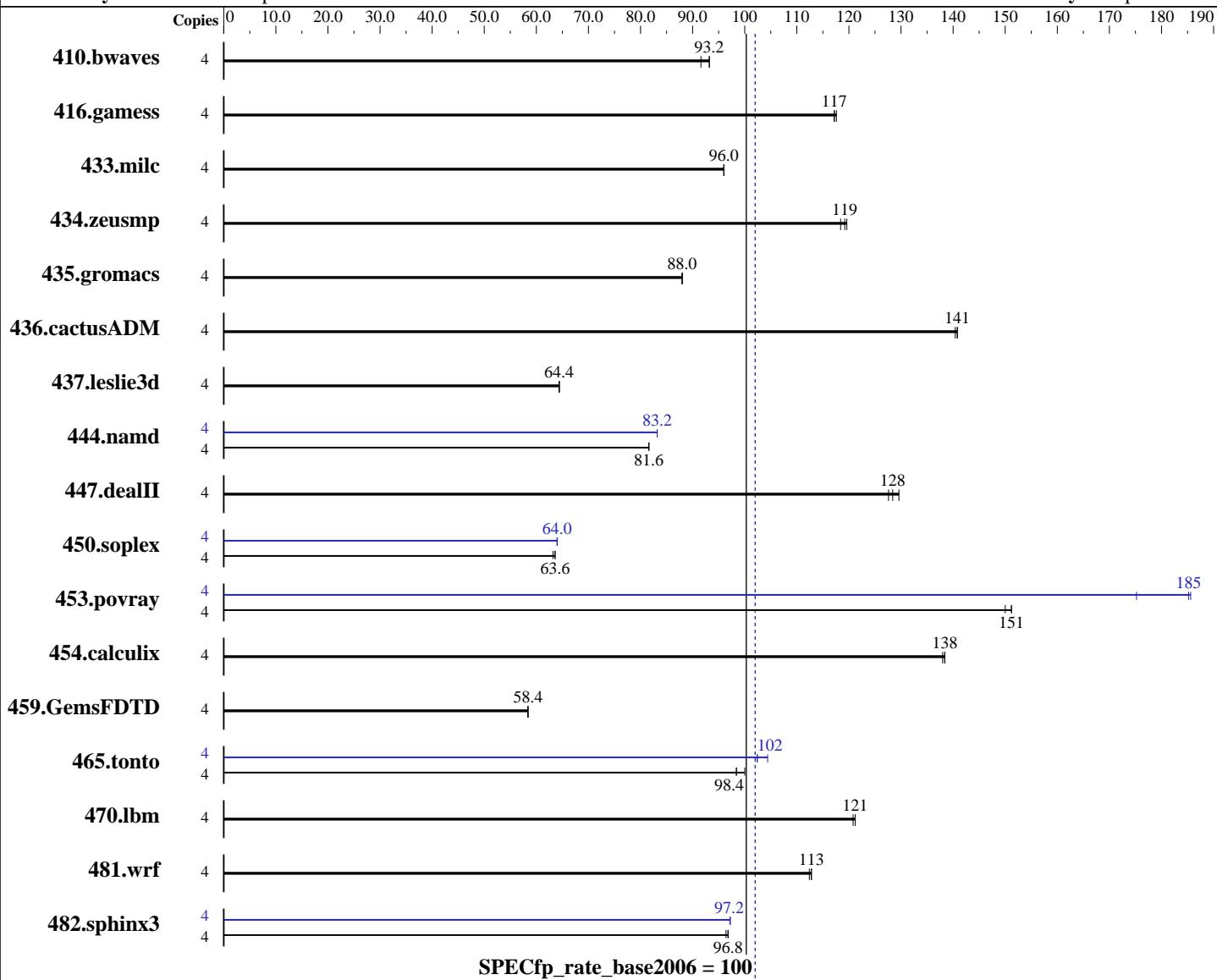
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: May-2012

Hardware Availability: Sep-2011

Software Availability: Apr-2011



**SPECfp\_rate\_base2006 = 100**

**SPECfp\_rate2006 = 102**

## Hardware

CPU Name: Intel Core i5-2320  
CPU Characteristics: Intel Turbo Boost Technology up to 3.3 GHz  
CPU MHz: 3000  
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: 256 KB I+D on chip per core

## Software

Operating System: Microsoft Windows 7 Ultimate 6.1.7601 Service Pack 1 Build 7601  
Compiler: C/C++: Version 12.1.0.229 of Intel C++ Studio XE for Windows;  
Fortran: Version 12.1.0.229 of Intel Fortran Studio XE for Windows;  
Libraries: Version 15.00.30729.01 of Microsoft Visual Studio 2008 Professional SP1  
Auto Parallel: No

Continued on next page

Continued on next page





# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

## Intel Corporation

Intel DH67BL Motherboard (Intel Core i5-2320)

**SPECfp\_rate2006 = 102**

CPU2006 license: 13

**Test date:** May-2012

**Test sponsor:** Intel Corporation

**Hardware Availability:** Sep-2011

**Tested by:** Intel Corporation

**Software Availability:** Apr-2011

## Platform Notes

```
Sysinfo program C:\CPU200~1.17A/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on Clte06995D78610 Sat May 5 12:34:05 2012
```

This section contains SUT (System Under Test) info as seen by some common utilities. To remove or add to this section, see:  
<http://www.spec.org/cpu2006/Docs/config.html#sysinfo>

```
Trying 'systeminfo'
OS Name      : Microsoft Windows 7 Ultimate
OS Version   : 6.1.7601 Service Pack 1 Build 7601
System Manufacturer: INTEL_
System Model  : DH67BL_
Processor(s) : 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 42 Stepping 7 GenuineIntel ~3001 Mhz
BIOS Version  : Intel Corp. BLH6710H.86A.0125.2011.0705.1517, 7/5/2011
Total Physical Memory: 4,003 MB
```

```
Trying 'wmic cpu get /value'
DeviceID     : CPU0
L2CacheSize  : 1024
L3CacheSize  : 6144
MaxClockSpeed : 3001
Name         : Intel(R) Core(TM) i5-2320 CPU @ 3.00GHz
NumberOfCores : 4
NumberOfLogicalProcessors: 4
```

(End of data from sysinfo program)

## Component Notes

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

## General Notes

Binaries compiled on a system with 1x Intel Core i7-860 CPU  
+ 8GB memory using Windows 7 Enterprise 64-bit

## Base Compiler Invocation

C benchmarks:

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

C++ benchmarks:

```
icl -Qvc9
```

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

**SPECfp\_rate2006 = 102**

Intel DH67BL Motherboard (Intel Core i5-2320)

**SPECfp\_rate\_base2006 = 100**

CPU2006 license: 13

Test date: May-2012

Test sponsor: Intel Corporation

Hardware Availability: Sep-2011

Tested by: Intel Corporation

Software Availability: Apr-2011

## Base Compiler Invocation (Continued)

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.gamess: -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 -Qopt-prefetch
-Qauto-ilp32 /F1000000000 -link /FORCE:MULTIPLE
```

C++ benchmarks:

```
-QxAVX -Qipo -O3 -Qprec-div- -Qansi-alias -Qopt-prefetch
-Qcxx-features -Qauto-ilp32 /F1000000000 shlW64M.lib
-link /FORCE:MULTIPLE
```

Fortran benchmarks:

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

Benchmarks using both Fortran and C:

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



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

**SPECfp\_rate2006 = 102**

Intel DH67BL Motherboard (Intel Core i5-2320)

**SPECfp\_rate\_base2006 = 100**

**CPU2006 license:** 13

**Test date:** May-2012

**Test sponsor:** Intel Corporation

**Hardware Availability:** Sep-2011

**Tested by:** Intel Corporation

**Software Availability:** Apr-2011

## 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: basepeak = yes
```

```
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
```

Fortran benchmarks:

Continued on next page



# SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Intel Corporation

**SPECfp\_rate2006 = 102**

Intel DH67BL Motherboard (Intel Core i5-2320)

**SPECfp\_rate\_base2006 = 100**

**CPU2006 license:** 13

**Test date:** May-2012

**Test sponsor:** Intel Corporation

**Hardware Availability:** Sep-2011

**Tested by:** Intel Corporation

**Software Availability:** Apr-2011

## Peak Optimization Flags (Continued)

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 file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-windows.20120117.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-windows.20120117.xml>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.2.

Report generated on Thu Jul 24 11:02:13 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 29 August 2012.