



SPEC® CFP2006 Result

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Intel Corporation

Intel DH77KC motherboard (Intel Core i7-3770T)

SPECfp®_rate2006 = 121

SPECfp_rate_base2006 = 119

CPU2006 license: 13

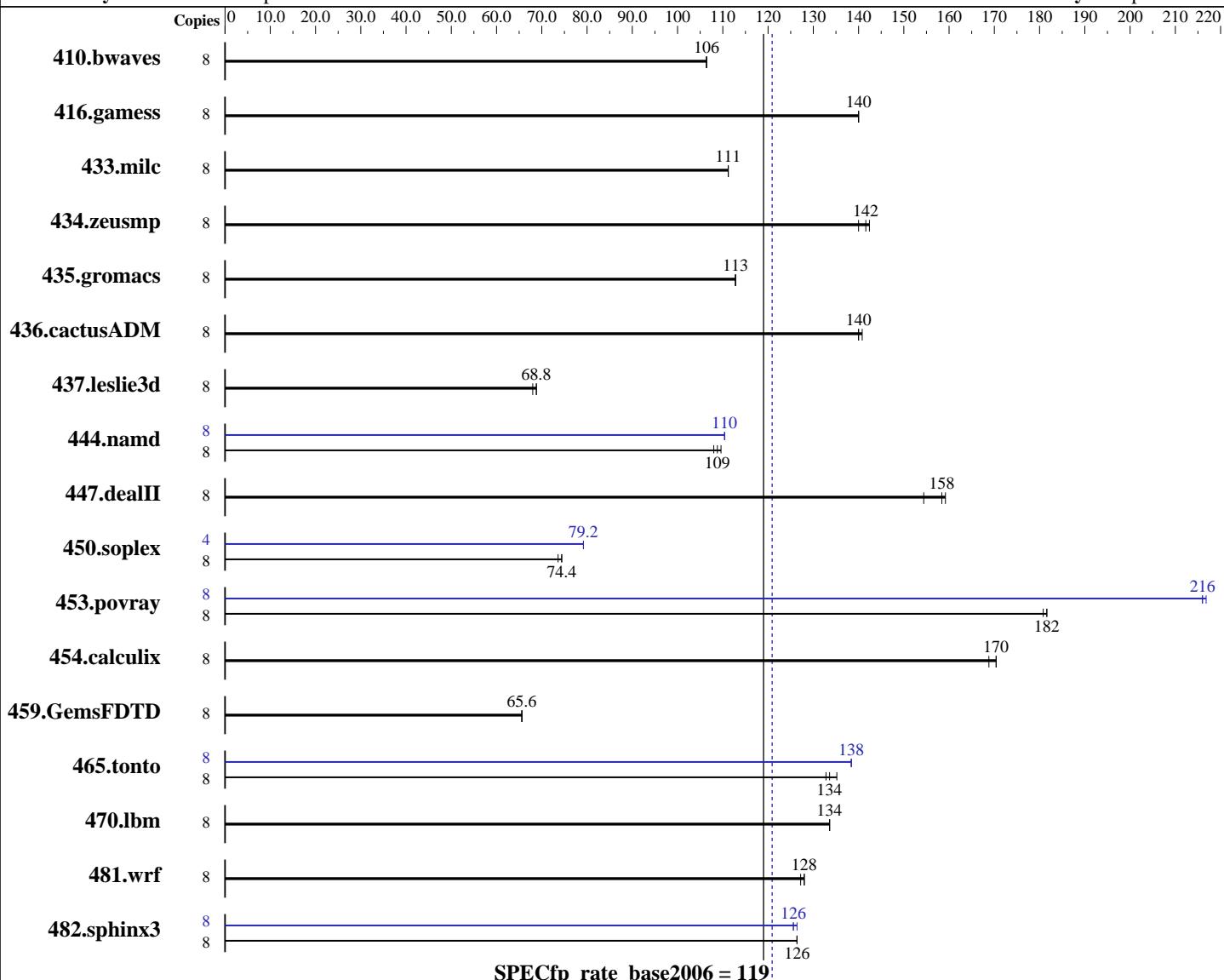
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: May-2012

Hardware Availability: Apr-2012

Software Availability: Apr-2011



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Hardware

CPU Name: Intel Core i7-3770T
 CPU Characteristics: Intel Turbo Boost Technology up to 3.70 GHz
 CPU MHz: 2500
 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

Software

Operating System: Microsoft Windows 7 Ultimate (64-bit)
 Compiler: 6.1.7601 Service Pack 1 Build 7601
 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
 File System: NTFS

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L3 Cache: 8 MB I+D on chip per chip
 Other Cache: None
 Memory: 8 GB (2 x 4 GB 2Rx4 PC3-12800U-11)
 Disk Subsystem: 1 TB Seagate 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	1026	106	1022	106	1022	106	8	1026	106	1022	106	1022	106
416.gamess	8	1122	140	1122	140	1122	140	8	1122	140	1122	140	1122	140
433.milc	8	662	111	662	111	662	111	8	662	111	662	111	662	111
434.zeusmp	8	514	142	521	140	511	142	8	514	142	521	140	511	142
435.gromacs	8	507	113	507	113	507	113	8	507	113	507	113	507	113
436.cactusADM	8	681	140	681	140	680	141	8	681	140	681	140	680	141
437.leslie3d	8	1097	68.8	1111	68.0	1098	68.8	8	1097	68.8	1111	68.0	1098	68.8
444.namd	8	586	110	590	109	596	108	8	582	110	583	110	582	110
447.dealII	8	594	154	579	158	574	159	8	594	154	579	158	574	159
450.soplex	8	901	74.4	903	73.6	901	74.4	4	422	79.2	421	79.2	422	79.2
453.povray	8	235	182	235	181	234	182	8	197	217	197	216	197	216
454.calculix	8	392	169	387	170	388	170	8	392	169	387	170	388	170
459.GemsFDTD	8	1294	65.6	1295	65.6	1294	65.6	8	1294	65.6	1295	65.6	1294	65.6
465.tonto	8	589	134	584	135	591	133	8	570	138	570	138	569	138
470.lbm	8	823	134	823	134	823	134	8	823	134	823	134	823	134
481.wrf	8	701	127	700	128	700	128	8	701	127	700	128	700	128
482.sphinx3	8	1231	126	1230	126	1233	126	8	1242	126	1239	126	1236	126

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

Compiler Invocation Notes

To compile these binaries, the Intel Compiler was set up to generate 64-bit binaries with the command:
 "ipsxe-comp-vars.bat intel64 vs2008" (shortcut provided in the Intel(r) Parallel Studio XE 2011 program folder)

Submit Notes

Processes were bound to specific processors using the start command with the /affinity switch.
 The config file option 'submit' was used to generate the affinity mask for each process.



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Platform Notes

```
Sysinfo program C:\CPU200~1.17A/Docs/sysinfo
$Rev: 6775 $ $Date:: 2011-08-16 #\$ \8787f7622badcf24e01c368b1db4377c
running on CltE840F2070017 Sat May 5 19:39:58 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  : DH77KC_
Processor(s) : 1 Processor(s) Installed.
[01]: Intel64 Family 6 Model 58 Stepping 9 GenuineIntel ~2501 Mhz
BIOS Version  : Intel Corp. KCH7710H.86A.0069.2012.0224.1825, 2/24/2012
Total Physical Memory: 8,090 MB
```

```
Trying 'wmic cpu get /value'
DeviceID     : CPU0
L2CacheSize  : 1024
L3CacheSize  : 8192
MaxClockSpeed: 2501
Name         : Intel(R) Core(TM) i7-3770T CPU @ 2.50GHz
NumberOfCores: 4
NumberOfLogicalProcessors: 8
```

(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
```

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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: 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:

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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>

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

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