SPEC® CFP2006 Result

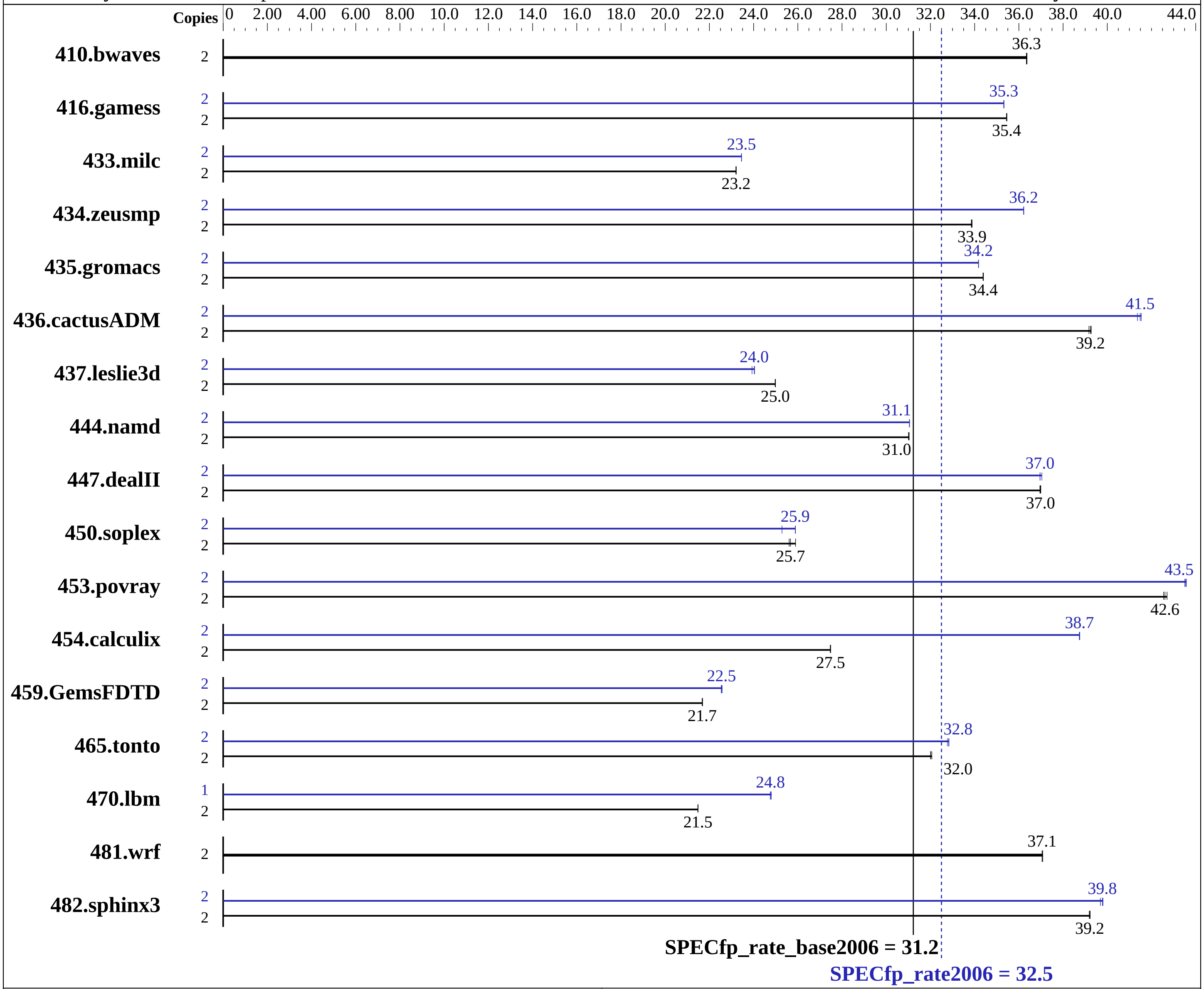
Intel Corporation

SPECfp®_rate2006 = 32.5

Asus P5E3 Deluxe (Intel Core 2 Duo E6850)

SPECfp_rate_base2006 = 31.2

CPU2006 license:	13	**Test date:**	Nov-2007
Test sponsor:	Intel Corporation	**Hardware Availability:**	Nov-2007
Tested by:	Intel Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Core 2 Duo E6850
CPU Characteristics:	3.00 GHz 1333 MHz FSB
CPU MHz:	3000
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 Vista64 Ultimate
Compiler:	Intel C++ Compiler for IA32 version 10.1 Build 20070913 Package ID: w_cc_p_10.1.011 Intel Fortran Compiler for IA32 version 10.1 Build 20070913 Package ID: w_fc_p_10.1.011 Microsoft Visual Studio 2005 SP1 (for libraries)
Auto Parallel:	No
File System:	NTFS
System State:	Default

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L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Corsair TWIN3X2048-1333C9DHX DDR3-1333 CL9)
Disk Subsystem: Seagate 320GB NCQ SATA, 16MB cache, 7200 RPM
Other Hardware: None

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	2	747	36.4	748	36.3	**748**	**36.3**	2	747	36.4	748	36.3	**748**	**36.3**
416.gamess	2	1105	35.4	**1105**	**35.4**	1104	35.5	2	**1109**	**35.3**	1109	35.3	1108	35.3
433.milc	2	791	23.2	**791**	**23.2**	791	23.2	2	783	23.4	783	23.5	**783**	**23.5**
434.zeusmp	2	**537**	**33.9**	538	33.8	537	33.9	2	502	36.2	503	36.2	**503**	**36.2**
435.gromacs	2	415	34.4	415	34.4	**415**	**34.4**	2	418	34.2	**418**	**34.2**	418	34.2
436.cactusADM	2	610	39.2	609	39.3	**609**	**39.2**	2	**576**	**41.5**	578	41.4	575	41.5
437.leslie3d	2	**753**	**25.0**	752	25.0	753	25.0	2	782	24.0	**782**	**24.0**	786	23.9
444.namd	2	517	31.0	517	31.0	**517**	**31.0**	2	**517**	**31.1**	517	31.0	517	31.1
447.dealII	2	618	37.0	619	37.0	**619**	**37.0**	2	619	37.0	**619**	**37.0**	618	37.0
450.soplex	2	644	25.9	651	25.6	**650**	**25.7**	2	644	25.9	660	25.3	**644**	**25.9**
453.povray	2	**250**	**42.6**	250	42.5	249	42.7	2	**244**	**43.5**	245	43.5	244	43.6
454.calculix	2	600	27.5	601	27.5	**600**	**27.5**	2	426	38.7	**426**	**38.7**	426	38.8
459.GemsFDTD	2	978	21.7	979	21.7	**979**	**21.7**	2	940	22.6	942	22.5	**941**	**22.5**
465.tonto	2	614	32.1	**615**	**32.0**	615	32.0	2	**600**	**32.8**	601	32.8	599	32.8
470.lbm	2	1279	21.5	1280	21.5	**1279**	**21.5**	1	555	24.8	554	24.8	**555**	**24.8**
481.wrf	2	602	37.1	603	37.1	**603**	**37.1**	2	602	37.1	603	37.1	**603**	**37.1**
482.sphinx3	2	**994**	**39.2**	995	39.2	994	39.2	2	**980**	**39.8**	982	39.7	979	39.8

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 11/2007:
http://www.asus.com/products.aspx?l1=3&l2=11&l3=572&l4=0&model=1872&modelmenu=1
The system bus runs at 1333 MHz
System was configured with Asus EN8800GTX discrete graphics card
Binaries were built on Windows Vista32
The following VS 2005 SP1 updates were applied: KB926601 and KB932232
The start command with the /affinity switch was used to bind processes to cores
```

Base Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

Fortran benchmarks:
```
ifort
```

Benchmarks using both Fortran and C:
```
icl -Qvc8 -Qc99 ifort
```

Base 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:
```
-fast /F1000000000
```

C++ benchmarks:
```
-fast -Qcxx_features /F1000000000 shlw32m.lib
           -link /FORCE:MULTIPLE
```

Fortran benchmarks:
```
-fast /F1000000000
```

Benchmarks using both Fortran and C:
```
-fast /F1000000000
```

Peak Compiler Invocation

C benchmarks:
```
icl -Qvc8 -Qc99
```

C++ benchmarks:
```
icl -Qvc8
```

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Test date: Nov-2007
Hardware Availability: Nov-2007
Software Availability: Nov-2007

Peak Compiler Invocation (Continued)

Fortran benchmarks:
    ifort

Benchmarks using both Fortran and C:
    icl -Qvc8 -Qc99 ifort

Peak 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

Peak Optimization Flags

C benchmarks:

433.milc: -fast -Qunroll2 -Oa /F1000000000

470.lbm: -fast -Qunroll2 -Qscalar-rep- -Qprefetch /F1000000000

482.sphinx3: -fast -Qunroll2 /F1000000000

C++ benchmarks:

444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

447.dealII: -fast -Qunroll2 -Qprefetch -Qcxx_features /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

450.soplex: -fast -Qcxx_features /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

453.povray: -fast -Qunroll4 -Qansi-alias -Qcxx_features /F1000000000 shlw32m.lib -link /FORCE:MULTIPLE

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -fast -Qunroll2 -Ob0 -Qansi-alias -Qscalar-rep- /F1000000000

Continued on next page

Peak Optimization Flags (Continued)

434.zeusmp: `-QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000`

437.leslie3d: `-fast -Qprefetch /F1000000000`

459.GemsFDTD: `-fast -Qunroll2 -Ob0 -Qprefetch /F1000000000`

465.tonto: `-fast -Qunroll4 -Qauto /F1000000000`

Benchmarks using both Fortran and C:

435.gromacs: `-fast -Oa -Qprefetch /F1000000000`

436.cactusADM: `-fast -Qunroll2 -Qprefetch /F1000000000`

454.calculix: `-fast -Qunroll-aggressive /F1000000000`

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-ic10-ia32-intel64-linux-flags.20090714.09.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.20090714.09.xml

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

Tested with SPEC CPU2006 v1.0.
Report generated on Tue Jul 22 14:33:26 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 27 November 2007.