SPEC® CFP2006 Result

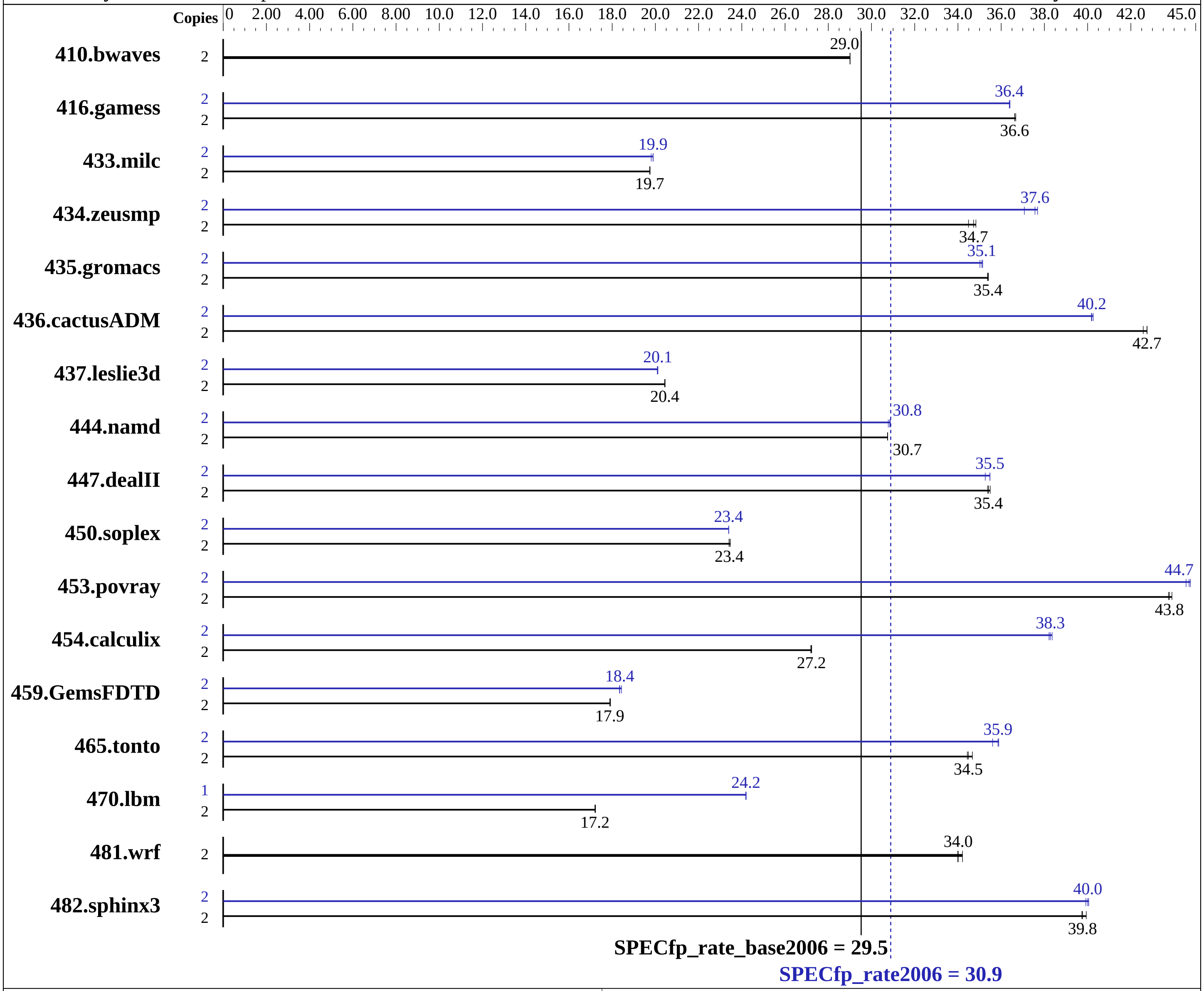
Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8400)

SPECfp®_rate2006 = 30.9

SPECfp_rate_base2006 = 29.5

CPU2006 license:	13	**Test date:**	Feb-2008
Test sponsor:	Intel Corporation	**Hardware Availability:**	Feb-2008
Tested by:	Intel Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Core 2 Duo E8400
CPU Characteristics:	3.00 GHz, 1333 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:	6 MB I+D on chip per chip

Continued on next page

Software

Operating System:	Windows Vista Ultimate (64-bit)
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

Continued on next page

SPEC CFP2006 Result

Intel Corporation

Intel Desktop Board DQ35JO (Intel Core 2 Duo E8400)

SPECfp_rate2006 = 30.9

SPECfp_rate_base2006 = 29.5

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

Test date: Feb-2008
Hardware Availability: Feb-2008
Software Availability: Nov-2007

L3 Cache: None
Other Cache: None
Memory: 2 GB (2x1GB Micron DDR2-800 CL5)
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	937	29.0	937	29.0	**937**	**29.0**	2	937	29.0	937	29.0	**937**	**29.0**
416.gamess	2	1069	36.6	1068	36.7	**1069**	**36.6**	2	1076	36.4	1077	36.4	**1076**	**36.4**
433.milc	2	929	19.8	930	19.7	**930**	**19.7**	2	**923**	**19.9**	927	19.8	923	19.9
434.zeusmp	2	528	34.5	**524**	**34.7**	523	34.8	2	**485**	**37.6**	491	37.1	483	37.7
435.gromacs	2	**404**	**35.4**	404	35.4	403	35.4	2	**407**	**35.1**	406	35.1	408	35.0
436.cactusADM	2	**559**	**42.7**	559	42.8	561	42.6	2	595	40.2	**595**	**40.2**	594	40.3
437.leslie3d	2	919	20.5	**920**	**20.4**	920	20.4	2	936	20.1	935	20.1	**935**	**20.1**
444.namd	2	522	30.7	**522**	**30.7**	522	30.7	2	521	30.8	520	30.9	**520**	**30.8**
447.dealII	2	**646**	**35.4**	647	35.4	645	35.5	2	645	35.5	**645**	**35.5**	649	35.3
450.soplex	2	713	23.4	**712**	**23.4**	711	23.5	2	713	23.4	**713**	**23.4**	713	23.4
453.povray	2	**243**	**43.8**	243	43.7	242	43.9	2	238	44.8	**238**	**44.7**	239	44.6
454.calculix	2	606	27.2	**606**	**27.2**	607	27.2	2	**431**	**38.3**	430	38.4	432	38.2
459.GemsFDTD	2	**1186**	**17.9**	1184	17.9	1186	17.9	2	1151	18.4	1157	18.3	**1156**	**18.4**
465.tonto	2	568	34.7	**571**	**34.5**	572	34.4	2	**549**	**35.9**	553	35.6	548	35.9
470.lbm	2	**1597**	**17.2**	1597	17.2	1595	17.2	1	568	24.2	**568**	**24.2**	568	24.2
481.wrf	2	**657**	**34.0**	657	34.0	653	34.2	2	**657**	**34.0**	657	34.0	653	34.2
482.sphinx3	2	981	39.7	**980**	**39.8**	976	39.9	2	**974**	**40.0**	977	39.9	973	40.1

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 03/2008:
http://www.intel.com/products/motherboard/DQ35JO/index.htm
The system bus runs at 1333 MHz
System was configured with Asus EN8800GTX discrete graphics card
Binaries were built on Windows Vista Ultimate (32-bit)
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
```

Continued on next page

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-ic10.1-win32-flags.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-win32-flags.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 15:28:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 19 March 2008.