SPEC® CFP2006 Result

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Intel Corporation

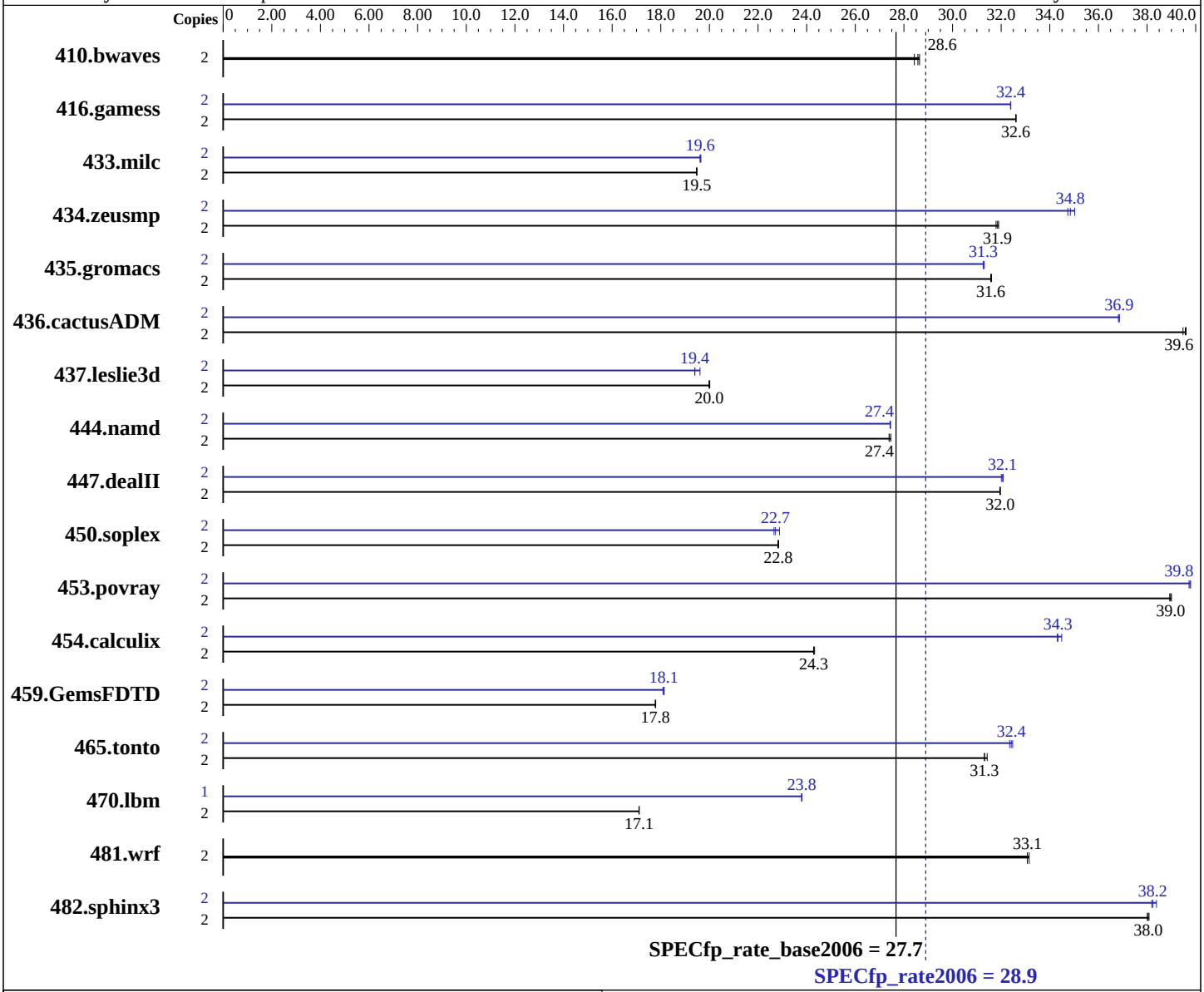
Intel Desktop Board DQ35JO (Intel Core 2 Duo E8200)

SPECfp®_rate2006 = 28.9

SPECfp_rate_base2006 = 27.7

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

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



Hardware

CPU Name:	Intel Core 2 Duo E8200
CPU Characteristics:	2.66 GHz, 1333 FSB
CPU MHz:	2667
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

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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

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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	**951**	**28.6**	949	28.6	956	28.4	2	**951**	**28.6**	949	28.6	956	28.4
416.gamess	2	1201	32.6	1201	32.6	**1201**	**32.6**	2	**1209**	**32.4**	1209	32.4	1209	32.4
433.milc	2	943	19.5	**943**	**19.5**	942	19.5	2	**935**	**19.6**	936	19.6	934	19.6
434.zeusmp	2	**571**	**31.9**	571	31.9	573	31.8	2	**522**	**34.8**	520	35.0	524	34.7
435.gromacs	2	**452**	**31.6**	452	31.6	452	31.6	2	**457**	**31.3**	457	31.3	456	31.3
436.cactusADM	2	603	39.6	**604**	**39.6**	605	39.5	2	**648**	**36.9**	648	36.9	649	36.8
437.leslie3d	2	**940**	**20.0**	939	20.0	941	20.0	2	**969**	**19.4**	969	19.4	959	19.6
444.namd	2	586	27.4	584	27.5	**585**	**27.4**	2	**585**	**27.4**	585	27.4	584	27.5
447.dealII	2	716	32.0	**716**	**32.0**	716	31.9	2	715	32.0	**714**	**32.1**	713	32.1
450.soplex	2	**731**	**22.8**	730	22.8	731	22.8	2	**734**	**22.7**	736	22.7	729	22.9
453.povray	2	273	39.0	273	38.9	**273**	**39.0**	2	**268**	**39.8**	268	39.7	267	39.8
454.calculix	2	**679**	**24.3**	678	24.3	679	24.3	2	481	34.3	478	34.5	**481**	**34.3**
459.GemsFDTD	2	1194	17.8	**1193**	**17.8**	1193	17.8	2	1173	18.1	1170	18.1	**1171**	**18.1**
465.tonto	2	629	31.3	**628**	**31.3**	626	31.4	2	608	32.3	**607**	**32.4**	606	32.5
470.lbm	2	1606	17.1	**1607**	**17.1**	1607	17.1	1	**577**	**23.8**	577	23.8	578	23.8
481.wrf	2	**675**	**33.1**	674	33.1	675	33.1	2	**675**	**33.1**	674	33.1	675	33.1
482.sphinx3	2	1024	38.1	1026	38.0	**1025**	**38.0**	2	**1019**	**38.2**	1015	38.4	1021	38.2

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

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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`

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