



SPEC® CFP2006 Result

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Intel Corporation

Alienware Area-51 M15x-R1 (Intel Core 2 Extreme X9000)

SPECfp®_rate2006 = 26.0

SPECfp_rate_base2006 = 24.6

CPU2006 license: 13

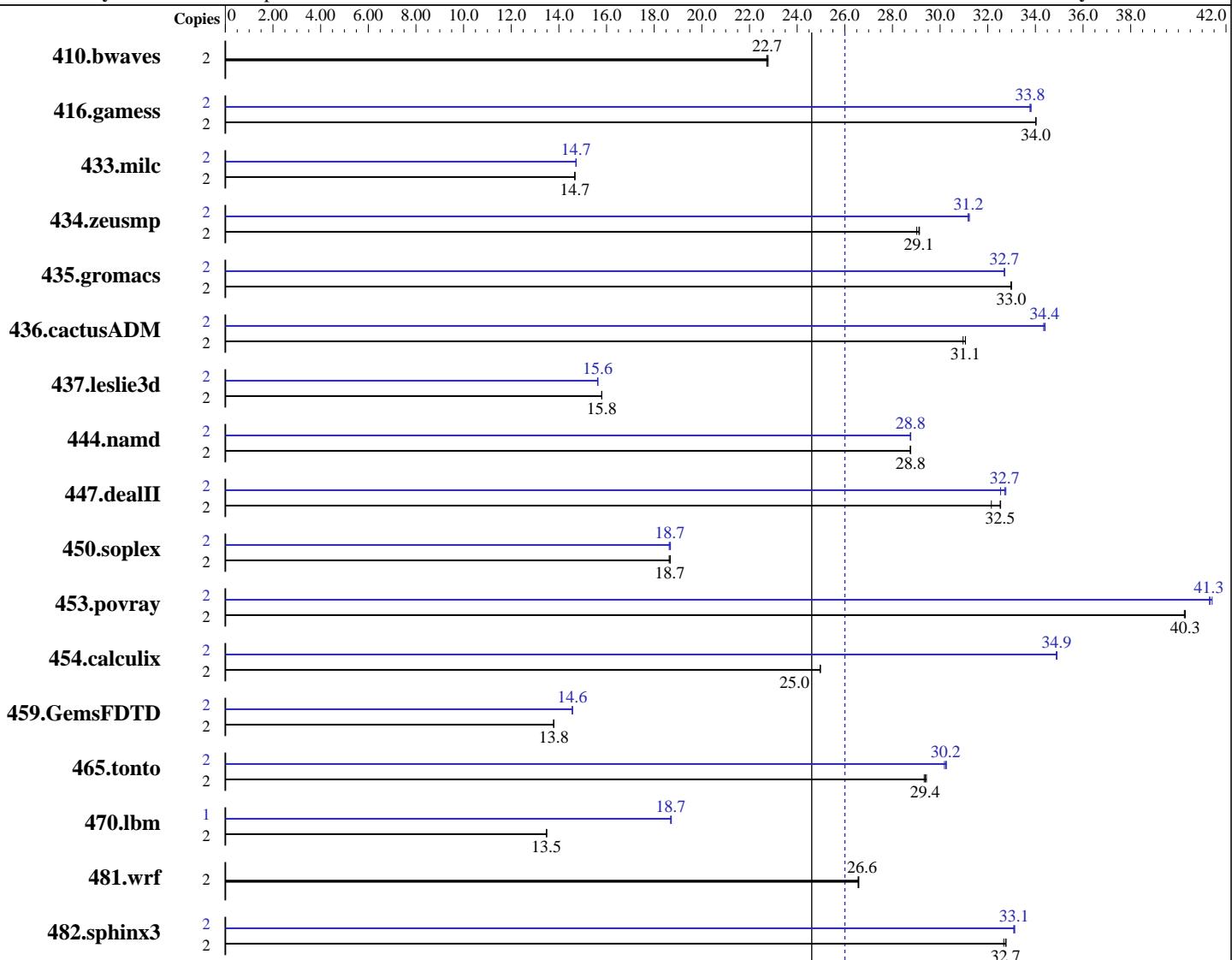
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Dec-2007

Hardware Availability: Jan-2008

Software Availability: Nov-2007



SPECfp_rate_base2006 = 24.6

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Hardware

CPU Name: Intel Core 2 Extreme X9000
 CPU Characteristics:
 CPU MHz:
 FPU:
 CPU(s) enabled:
 CPU(s) orderable:
 Primary Cache:
 Secondary Cache:

Software

Operating System: Windows Vista Ultimate(32-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: Yes
 File System: NTFS
 System State: Default

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L3 Cache: None
 Other Cache: None
 Memory: 2 GB (2x1GB Qimonda DDR2-667 CL5)
 Disk Subsystem: Fujitsu 120GB GB SATA, 7200 RPM
 Other Hardware: None

Base Pointers: 32-bit
 Peak Pointers: 32-bit
 Other Software: None
 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	1196	22.7	1195	22.7	1193	22.8	2	1196	22.7	1195	22.7	1193	22.8
416.gamess	2	1151	34.0	1151	34.0	1151	34.0	2	1159	33.8	1159	33.8	1158	33.8
433.milc	2	1251	14.7	1251	14.7	1252	14.7	2	1247	14.7	1248	14.7	1247	14.7
434.zeusmp	2	625	29.1	627	29.0	625	29.1	2	584	31.2	584	31.2	583	31.2
435.gromacs	2	433	33.0	433	33.0	433	33.0	2	437	32.7	437	32.7	437	32.7
436.cactusADM	2	769	31.1	772	31.0	769	31.1	2	695	34.4	696	34.3	695	34.4
437.leslie3d	2	1190	15.8	1190	15.8	1190	15.8	2	1203	15.6	1202	15.6	1203	15.6
444.namd	2	558	28.8	558	28.8	558	28.8	2	558	28.8	558	28.8	558	28.8
447.dealII	2	712	32.2	703	32.5	704	32.5	2	698	32.8	699	32.7	703	32.5
450.soplex	2	895	18.6	893	18.7	894	18.7	2	895	18.6	894	18.7	893	18.7
453.povray	2	264	40.3	264	40.3	264	40.3	2	258	41.3	257	41.3	257	41.4
454.calculix	2	661	25.0	661	25.0	661	25.0	2	473	34.9	473	34.9	473	34.9
459.GemsFDTD	2	1540	13.8	1538	13.8	1540	13.8	2	1457	14.6	1457	14.6	1457	14.6
465.tonto	2	669	29.4	670	29.4	671	29.3	2	651	30.2	650	30.3	652	30.2
470.lbm	2	2038	13.5	2038	13.5	2038	13.5	1	735	18.7	735	18.7	734	18.7
481.wrf	2	841	26.6	841	26.6	840	26.6	2	841	26.6	841	26.6	840	26.6
482.sphinx3	2	1189	32.8	1190	32.7	1193	32.7	2	1178	33.1	1178	33.1	1176	33.1

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

General Notes

The system bus runs at 800 MHz

Binaries were built on Windows Vista32

The following VS 2005 SP1 updates were applied: KB926601 and KB932232

OMP_NUM_THREADS set to number of cores

KMP_AFFINITY set to physical,0

The start command with the /affinity switch was used to bind processes to cores

Base Compiler Invocation

C benchmarks:
 icl -Qvc8 -Qc99

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Base Compiler Invocation (Continued)

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:

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C++ benchmarks:

 icl -Qvc8

Fortran benchmarks:

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Peak Compiler Invocation (Continued)

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 -Qunroll12 -Oa /F1000000000
470.lbm: -fast -Qunroll12 -Qscalar-rep- -Qprefetch /F1000000000
482.sphinx3: -fast -Qunroll12 /F1000000000
```

C++ benchmarks:

```
444.namd: -fast -Oa -Qcxx_features /F1000000000 shlw32m.lib
           -link /FORCE:MULTIPLE
447.dealII: -fast -Qunroll12 -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 -Qunroll12 -Ob0 -Qansi-alias -Qscalar-rep-
           /F1000000000
434.zeusmp: -QxT -O2 -Qprec-div- -Qunroll0 -Qscalar-rep- /F1000000000
```

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Peak Optimization Flags (Continued)

437.leslie3d: -fast -Qprefetch /F1000000000

459.GemsFDTD: -fast -Qunroll12 -Ob0 -Qprefetch /F1000000000

465.tonto: -fast -Qunroll14 -Qauto /F1000000000

Benchmarks using both Fortran and C:

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

436.cactusADM: -fast -Qunroll12 -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>

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

Tested with SPEC CPU2006 v1.0.

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