



SPEC® CFP2006 Result

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ASUSTeK Computer Inc.

SPECfp®_rate2006 = 90.8

ASUS DSEB-DG Server Motherboard (Intel XEON X5482)

SPECfp_rate_base2006 = 80.6

CPU2006 license: 001034

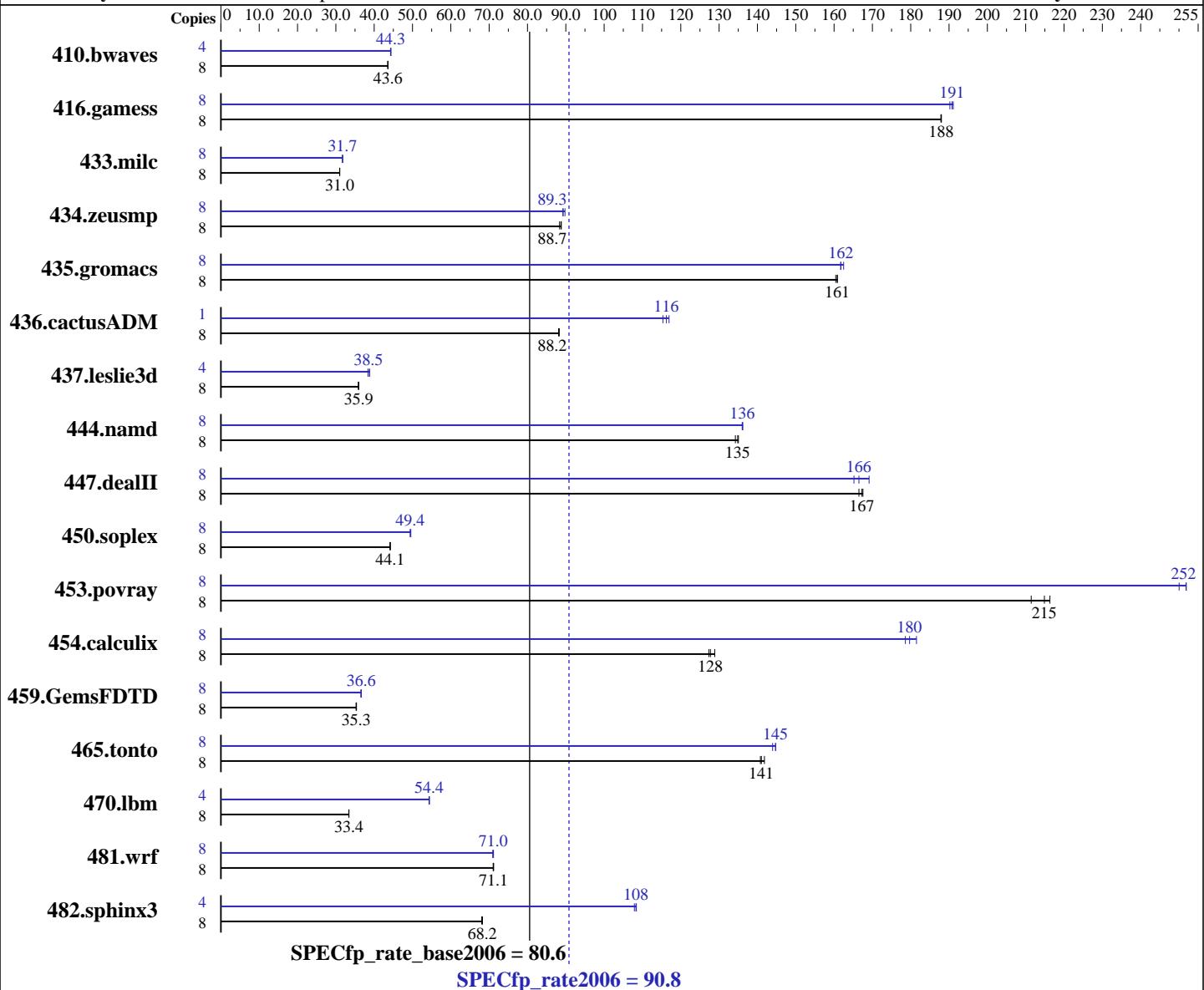
Test date: Aug-2008

Test sponsor: ASUSTeK Computer Inc.

Hardware Availability: Feb-2008

Tested by: ASUSTeK Computer Inc.

Software Availability: Feb-2008



Hardware

CPU Name: Intel Xeon X5482
CPU Characteristics: 1600 MHz Bus Speed
CPU MHz: 3200
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
CPU(s) orderable: 1,2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 12 MB I+D on chip per chip, 6 MB shared / 2 cores

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smp
Compiler: Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: 1_cc_p_10.1.008, l_fc_p_10.1.008
Auto Parallel: Yes
File System: ReiserFS
System State: Multi-user, run level 3
Base Pointers: 64-bit

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L3 Cache: None
 Other Cache: None
 Memory: 32 GB (8 X 4GB PC2-6400F, CL5, FBDIMM)
 Disk Subsystem: Seagate ST3500830AS 500GB SATAII, 7200RPM
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: binutils-2.17.50

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	2495	43.6	2495	43.6	2495	43.6	4	1228	44.3	1227	44.3	1225	44.4
416.gamess	8	834	188	833	188	833	188	8	821	191	820	191	823	190
433.milc	8	2369	31.0	2371	31.0	2368	31.0	8	2313	31.7	2314	31.7	2313	31.8
434.zeusmp	8	820	88.7	820	88.8	824	88.4	8	815	89.3	811	89.8	815	89.3
435.gromacs	8	355	161	355	161	356	160	8	352	163	353	162	353	162
436.cactusADM	8	1085	88.1	1083	88.3	1084	88.2	1	102	117	104	115	103	116
437.leslie3d	8	2091	36.0	2093	35.9	2096	35.9	4	980	38.4	968	38.8	977	38.5
444.namd	8	478	134	475	135	476	135	8	471	136	472	136	472	136
447.dealII	8	547	167	550	166	546	168	8	541	169	554	165	550	166
450.soplex	8	1509	44.2	1511	44.1	1511	44.1	8	1346	49.6	1350	49.4	1350	49.4
453.povray	8	201	211	198	215	197	216	8	169	252	169	252	170	250
454.calculix	8	518	127	512	129	517	128	8	367	180	364	182	370	179
459.GemsFDTD	8	2407	35.3	2399	35.4	2402	35.3	8	2316	36.7	2316	36.6	2325	36.5
465.tonto	8	555	142	559	141	558	141	8	544	145	544	145	547	144
470.lbm	8	3294	33.4	3291	33.4	3290	33.4	4	1011	54.4	1011	54.3	1011	54.4
481.wrf	8	1256	71.1	1256	71.2	1258	71.0	8	1260	70.9	1258	71.0	1256	71.1
482.sphinx3	8	2286	68.2	2285	68.2	2291	68.1	4	720	108	723	108	719	108

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
 OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to physical,0
 KMP_STACKSIZE set to 200M

General Notes

All benchmarks compiled in 64-bit mode except 450.soplex,
 470.lbm and 482.sphinx3, at peak, are compiled in 32-bit mode



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Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64
```

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast



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Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

433.milc: icc

C++ benchmarks (except as noted below):

```
icpc
```

```
450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

Fortran benchmarks (except as noted below):

```
ifort
```

```
437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/include
```

Benchmarks using both Fortran and C:

```
icc ifort
```

Peak Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64  
416.gamess: -DSPEC_CPU_LP64  
    433.milc: -DSPEC_CPU_LP64  
434.zeusmp: -DSPEC_CPU_LP64  
435.gromacs: -DSPEC_CPU_LP64 -nofor_main  
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main  
    444.namd: -DSPEC_CPU_LP64  
    447.dealII: -DSPEC_CPU_LP64  
    453.povray: -DSPEC_CPU_LP64  
454.calculix: -DSPEC_CPU_LP64 -nofor_main  
459.GemsFDTD: -DSPEC_CPU_LP64  
    465.tonto: -DSPEC_CPU_LP64  
    481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
-auto-ilp32
```

```
470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12  
-scalar-rep -prefetch -opt-malloc-options=3
```

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Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll12

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12 -O0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll12
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.html>



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You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-fp-linux64-revC.20090713.xml>

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

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