



SPEC® CFP2006 Result

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ASUSTeK Computer Inc.

SPECfp®2006 = 25.1

ASUS DSEB-DG Server Motherboard (Intel XEON X5482)

SPECfp_base2006 = 21.2

CPU2006 license: 001034

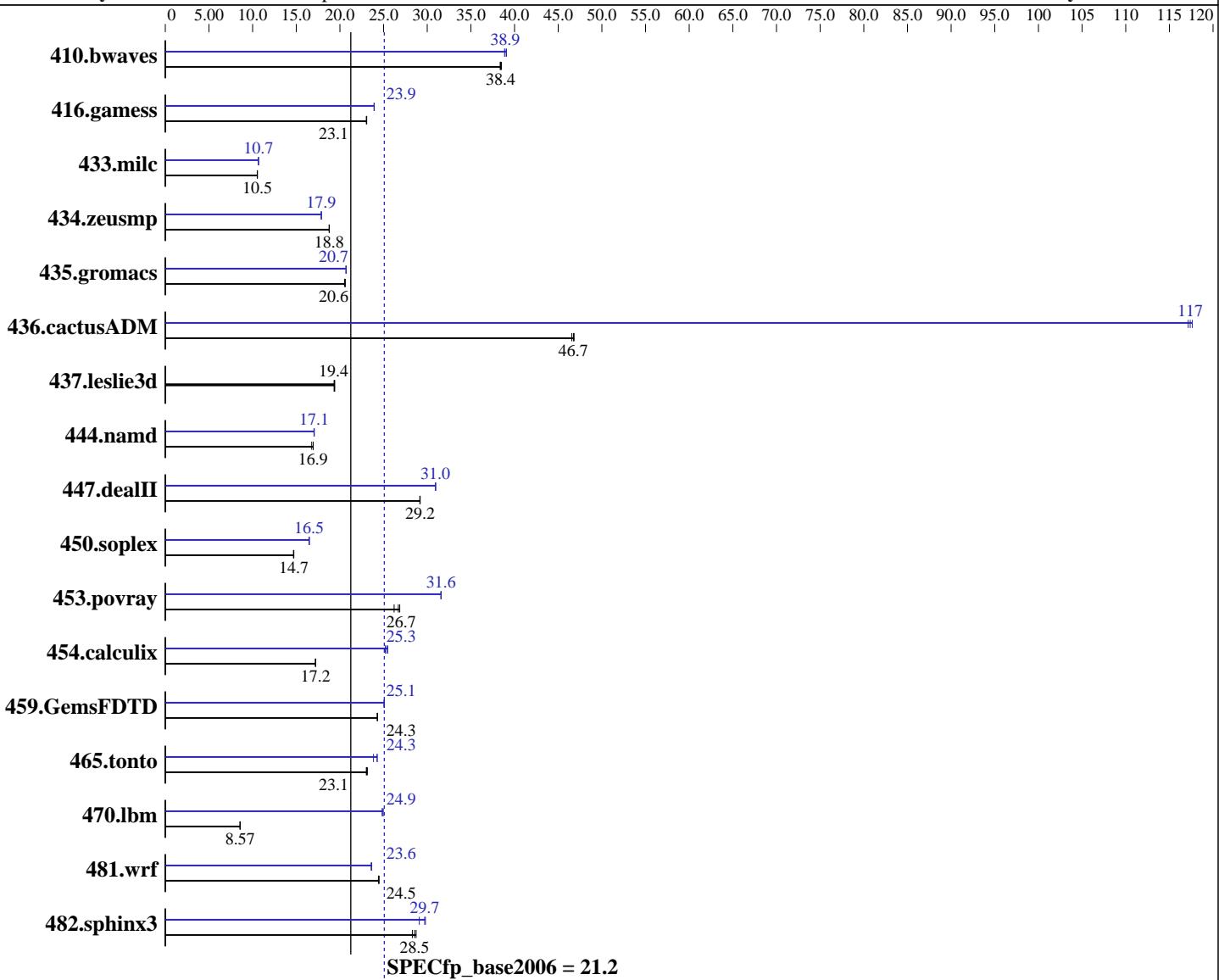
Test date: Aug-2008

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

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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, 1_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					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	354	38.4	353	38.5	<u>354</u>	<u>38.4</u>	<u>349</u>	<u>38.9</u>	348	39.1	350	38.9
416.gamess	850	23.0	<u>849</u>	<u>23.1</u>	849	23.1	818	23.9	819	23.9	<u>819</u>	<u>23.9</u>
433.milc	870	10.5	872	10.5	<u>870</u>	<u>10.5</u>	860	10.7	<u>861</u>	<u>10.7</u>	861	10.7
434.zeusmp	485	18.8	485	18.8	<u>485</u>	<u>18.8</u>	509	17.9	<u>509</u>	<u>17.9</u>	509	17.9
435.gromacs	348	20.5	347	20.6	<u>347</u>	<u>20.6</u>	<u>345</u>	<u>20.7</u>	345	20.7	345	20.7
436.cactusADM	<u>256</u>	<u>46.7</u>	257	46.6	255	46.8	102	118	102	117	<u>102</u>	<u>117</u>
437.leslie3d	<u>485</u>	<u>19.4</u>	484	19.4	486	19.3	<u>485</u>	<u>19.4</u>	484	19.4	486	19.3
444.namd	473	16.9	478	16.8	<u>473</u>	<u>16.9</u>	<u>470</u>	<u>17.1</u>	471	17.0	470	17.1
447.dealII	<u>392</u>	<u>29.2</u>	392	29.2	392	29.2	369	31.0	370	30.9	<u>370</u>	<u>31.0</u>
450.soplex	<u>567</u>	<u>14.7</u>	567	14.7	568	14.7	<u>506</u>	<u>16.5</u>	505	16.5	506	16.5
453.povray	<u>199</u>	<u>26.7</u>	203	26.2	198	26.9	<u>168</u>	<u>31.6</u>	169	31.6	168	31.6
454.calculix	<u>480</u>	<u>17.2</u>	480	17.2	480	17.2	324	25.5	<u>325</u>	<u>25.3</u>	327	25.2
459.GemsFDTD	437	24.3	437	24.3	<u>437</u>	<u>24.3</u>	423	25.1	<u>423</u>	<u>25.1</u>	424	25.0
465.tonto	425	23.1	<u>427</u>	<u>23.1</u>	427	23.0	413	23.8	<u>406</u>	<u>24.3</u>	405	24.3
470.lbm	1606	8.56	<u>1604</u>	<u>8.57</u>	1602	8.58	550	25.0	553	24.9	<u>553</u>	<u>24.9</u>
481.wrf	458	24.4	<u>457</u>	<u>24.5</u>	456	24.5	473	23.6	473	23.6	<u>473</u>	<u>23.6</u>
482.sphinx3	678	28.7	689	28.3	<u>683</u>	<u>28.5</u>	<u>656</u>	<u>29.7</u>	670	29.1	654	29.8

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 64M

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 -parallel

C++ benchmarks:
-fast -parallel

Fortran benchmarks:
-fast -parallel

Benchmarks using both Fortran and C:
-fast -parallel



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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:

ifort

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
437.leslie3d: -DSPEC_CPU_LP64
    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 -parallel

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: basepeak = yes

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

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 -parallel -prefetch -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>

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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