



SPEC® CFP2006 Result

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**Sun Microsystems
Sun Ultra 24**

**SPECfp®2006 = 21.4
SPECfp_base2006 = 19.8**

CPU2006 license: 6

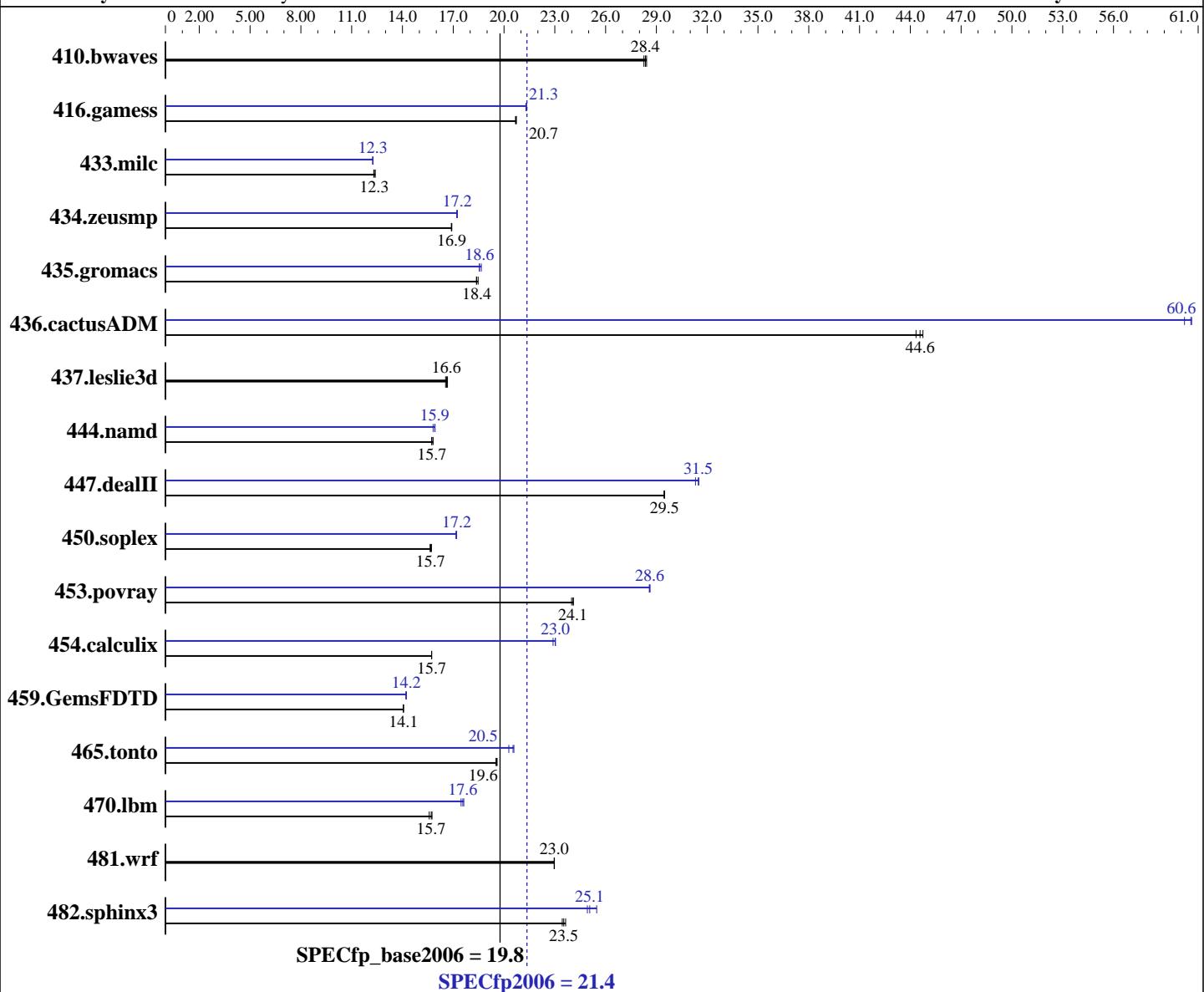
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Dec-2007

Hardware Availability: Oct-2007

Software Availability: Nov-2007



Hardware		Software	
CPU Name:	Intel Core 2 Extreme QX6850	Operating System:	SUSE LINUX Enterprise Server 10 SP1 for x86_64
CPU Characteristics:	3.00 GHz 1333 MHz FSB	Compiler:	Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070913
CPU MHz:	3000	Auto Parallel:	Yes
FPU:	Integrated	File System:	ReiserFS
CPU(s) enabled:	4 cores, 1 chip, 4 cores/chip	System State:	Multi-user, run level 3
CPU(s) orderable:	1 (order by number of chips)	Base Pointers:	64-bit
Primary Cache:	32 KB I + 32 KB D on chip per core	Peak Pointers:	32/64-bit
Secondary Cache:	8 MB I+D on chip per chip, 4 MB shared / 2 cores		

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L3 Cache:	None	Other Software:	SmartHeap library V8.1
Other Cache:	None		Binutils 2.17.50.0.15
Memory:	8 GB (4x2GB DDR2 PC2-5300 2rank CAS 5-5-5 with ECC)		
Disk Subsystem:	SATA, 250 GB, 7200 RPM		
Other Hardware:	None		

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio										
410.bwaves	481	28.3	478	28.4	479	28.4	481	28.3	478	28.4	479	28.4
416.gamess	945	20.7	945	20.7	947	20.7	920	21.3	919	21.3	918	21.3
433.milc	744	12.3	741	12.4	746	12.3	749	12.3	750	12.2	749	12.3
434.zeusmp	538	16.9	539	16.9	538	16.9	529	17.2	528	17.2	528	17.2
435.gromacs	387	18.5	389	18.4	388	18.4	383	18.7	385	18.5	385	18.6
436.cactusADM	270	44.3	267	44.7	268	44.6	197	60.6	199	60.2	197	60.6
437.leslie3d	564	16.7	568	16.5	566	16.6	564	16.7	568	16.5	566	16.6
444.namd	510	15.7	510	15.7	507	15.8	507	15.8	504	15.9	504	15.9
447.dealII	388	29.5	388	29.4	388	29.5	363	31.5	363	31.5	365	31.3
450.soplex	531	15.7	534	15.6	532	15.7	485	17.2	485	17.2	486	17.2
453.povray	222	24.0	221	24.1	221	24.1	186	28.6	186	28.6	186	28.6
454.calculix	525	15.7	525	15.7	525	15.7	360	22.9	358	23.0	358	23.0
459.GemsFDTD	754	14.1	755	14.1	756	14.0	746	14.2	745	14.2	747	14.2
465.tonto	502	19.6	503	19.6	504	19.5	478	20.6	485	20.3	479	20.5
470.lbm	873	15.7	875	15.7	882	15.6	787	17.5	782	17.6	780	17.6
481.wrf	486	23.0	487	23.0	486	23.0	486	23.0	487	23.0	486	23.0
482.sphinx3	831	23.4	824	23.6	828	23.5	765	25.5	782	24.9	778	25.1

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
 OMP_NUM_THREADS set to 4
 KMP_STACKSIZE set to 200M
 KMP_AFFINITY set to physical,0

Platform Notes

Default BIOS configurations were used.



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General Notes

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

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

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Base Optimization Flags (Continued)

Fortran benchmarks:

-fast -parallel

Benchmarks using both Fortran and C:

-fast -parallel

Peak Compiler Invocation

C benchmarks (except as noted below):

/opt/intel/cc/10.1.008-32bit/bin/icc -L/opt/intel/cc/10.1.008-32bit/lib
-I/opt/intel/cc/10.1.008-32bit/include

433.milc: icc

C++ benchmarks (except as noted below):

icpc

450.soplex: /opt/intel/cc/10.1.008-32bit/bin/icpc
-L/opt/intel/cc/10.1.008-32bit/lib
-I/opt/intel/cc/10.1.008-32bit/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



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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 -unroll2
-scalar-rep- -prefetch -opt-malloc-options=3

482.sphinx3: -fast -unroll2

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 -unroll2
-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 -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -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 -unroll2 -O0
-prefetch -parallel

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -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 -unroll2
-prefetch -parallel -auto-ilp32

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

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Peak Optimization Flags (Continued)

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-FP-intel64-linux-flags.20090714.20.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.20.xml>

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

Tested with SPEC CPU2006 v1.0.

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