



SPEC® CFP2006 Result

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Itaotec

SPECfp®_rate2006 = 43.2

Servidor Itaotec MX201 (Intel Xeon X5450)

SPECfp_rate_base2006 = 40.3

CPU2006 license: 9001

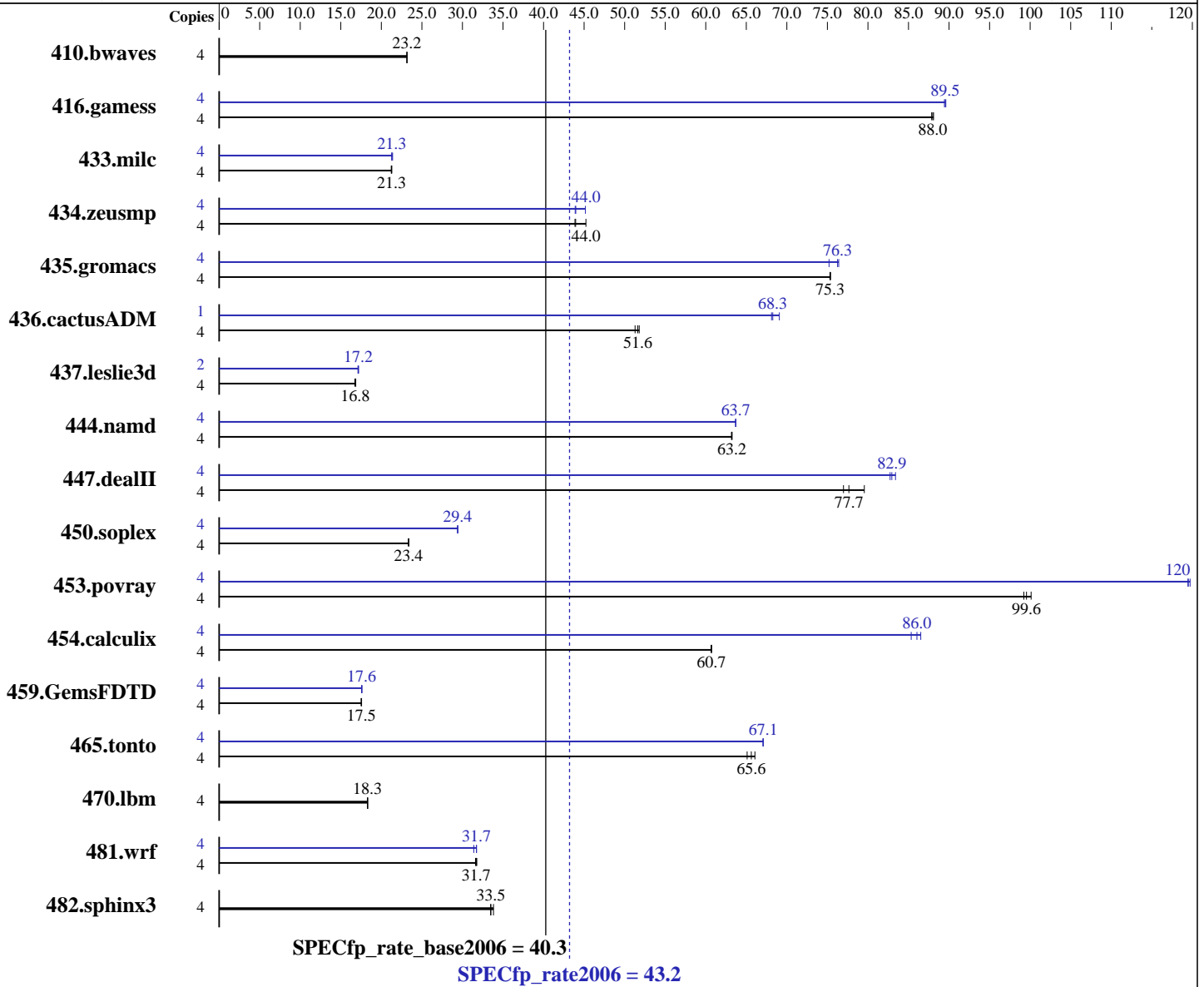
Test date: May-2008

Test sponsor: Itaotec

Hardware Availability: Dec-2007

Tested by: Itaotec

Software Availability: Jan-2008



Hardware

CPU Name: Intel Xeon X5450
 CPU Characteristics:
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 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-smpp
 Compiler: Intel C++ and Fortran Compiler for Linux version 10.1 Build 20080112 Package ID: l_cc_p_10.1.012, l_fc_p_10.1.012
 Auto Parallel: Yes
 File System: ReiserFS
 System State: Run Level 3 (multi-user)

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 * 2 GB PC2-5300 FBDIMM, CL-5-5-5, ECC)
Disk Subsystem: 1 x SCSI, 73GB, 15000 RPM
Other Hardware: None

Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: Binutils 2.17.10.50

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	<u>2348</u>	<u>23.2</u>	2346	23.2	2348	23.2	4	<u>2348</u>	<u>23.2</u>	2346	23.2	2348	23.2
416.gamess	4	889	88.1	891	87.9	<u>890</u>	<u>88.0</u>	4	876	89.4	<u>875</u>	<u>89.5</u>	874	89.6
433.milc	4	1725	21.3	<u>1728</u>	<u>21.3</u>	1731	21.2	4	<u>1723</u>	<u>21.3</u>	1717	21.4	1726	21.3
434.zeusmp	4	805	45.2	830	43.9	<u>828</u>	<u>44.0</u>	4	<u>828</u>	<u>44.0</u>	829	43.9	806	45.2
435.gromacs	4	379	75.4	<u>379</u>	<u>75.3</u>	379	75.3	4	374	76.4	380	75.2	<u>375</u>	<u>76.3</u>
436.cactusADM	4	<u>926</u>	<u>51.6</u>	932	51.3	923	51.8	1	173	69.1	<u>175</u>	<u>68.3</u>	175	68.1
437.leslie3d	4	<u>2238</u>	<u>16.8</u>	2247	16.7	2232	16.8	2	1098	17.1	<u>1095</u>	<u>17.2</u>	1094	17.2
444.namd	4	<u>507</u>	<u>63.2</u>	507	63.2	508	63.2	4	<u>504</u>	<u>63.7</u>	504	63.7	503	63.7
447.dealII	4	594	77.0	<u>589</u>	<u>77.7</u>	575	79.6	4	<u>552</u>	<u>82.9</u>	553	82.7	549	83.4
450.soplex	4	<u>1428</u>	<u>23.4</u>	1426	23.4	1430	23.3	4	1134	29.4	1135	29.4	<u>1134</u>	<u>29.4</u>
453.povray	4	213	100	214	99.2	<u>214</u>	<u>99.6</u>	4	<u>178</u>	<u>120</u>	178	120	178	119
454.calculix	4	<u>544</u>	<u>60.7</u>	543	60.7	544	60.7	4	<u>384</u>	<u>86.0</u>	387	85.3	381	86.5
459.GemsFDTD	4	<u>2421</u>	<u>17.5</u>	2416	17.6	2424	17.5	4	2410	17.6	2415	17.6	<u>2415</u>	<u>17.6</u>
465.tonto	4	596	66.1	605	65.1	<u>600</u>	<u>65.6</u>	4	587	67.1	587	67.1	<u>587</u>	<u>67.1</u>
470.lbm	4	3004	18.3	<u>3002</u>	<u>18.3</u>	3002	18.3	4	3004	18.3	<u>3002</u>	<u>18.3</u>	3002	18.3
481.wrf	4	<u>1409</u>	<u>31.7</u>	1406	31.8	1413	31.6	4	<u>1408</u>	<u>31.7</u>	1423	31.4	1408	31.7
482.sphinx3	4	2305	33.8	2329	33.5	<u>2326</u>	<u>33.5</u>	4	2305	33.8	2329	33.5	<u>2326</u>	<u>33.5</u>

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

Compiler Invocation Notes

OMP_NUM_THREADS set to number of cores
KMP_STACK_SIZE set to 64M
KMP_AFFINITY set to physical,0

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run.
'/usr/bin/taskset' used to bind benchmark copies to processors, except for 436.cactusADM at peak.



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Platform Notes

BIOS configuration:
Hardware Prefetch Disabled

General Notes

This result was measured on the Servidor Itaotec MX201.
The Servidor Itaotec MX201 and the Servidor Itaotec MX221 are electronically equivalent.

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



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Base Optimization Flags

C benchmarks:
-fast

C++ benchmarks:
-fast

Fortran benchmarks:
-fast

Benchmarks using both Fortran and C:
-fast

Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks (except as noted below):
icpc

450.soplex: /opt/intel/cc/10.1.012/bin/icpc -L/opt/intel/cc/10.1.012/lib
-I/opt/intel/cc/10.1.012/include

Fortran benchmarks (except as noted below):
ifort

437.leslie3d: /opt/intel/fc/10.1.012/bin/ifort -L/opt/intel/fc/10.1.012/lib
-I/opt/intel/fc/10.1.012/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

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Peak Portability Flags (Continued)

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

Peak Optimization Flags

C benchmarks:

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

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

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 -Ob0
-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 -unroll2 -Ob0
-prefetch

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

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Peak Optimization Flags (Continued)

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

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/Itaotec-ic10.1-FP-intel64-linux-flags.20090714.html>

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

<http://www.spec.org/cpu2006/flags/Itaotec-ic10.1-FP-intel64-linux-flags.20090714.xml>

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

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