



SPEC® CFP2006 Result

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Cisco Systems

Cisco B200-M1 (Intel Xeon X5550, 2.66 GHz)

SPECfp[®]_rate2006 = 192

CPU2006 license: 9019

Test date: May-2009

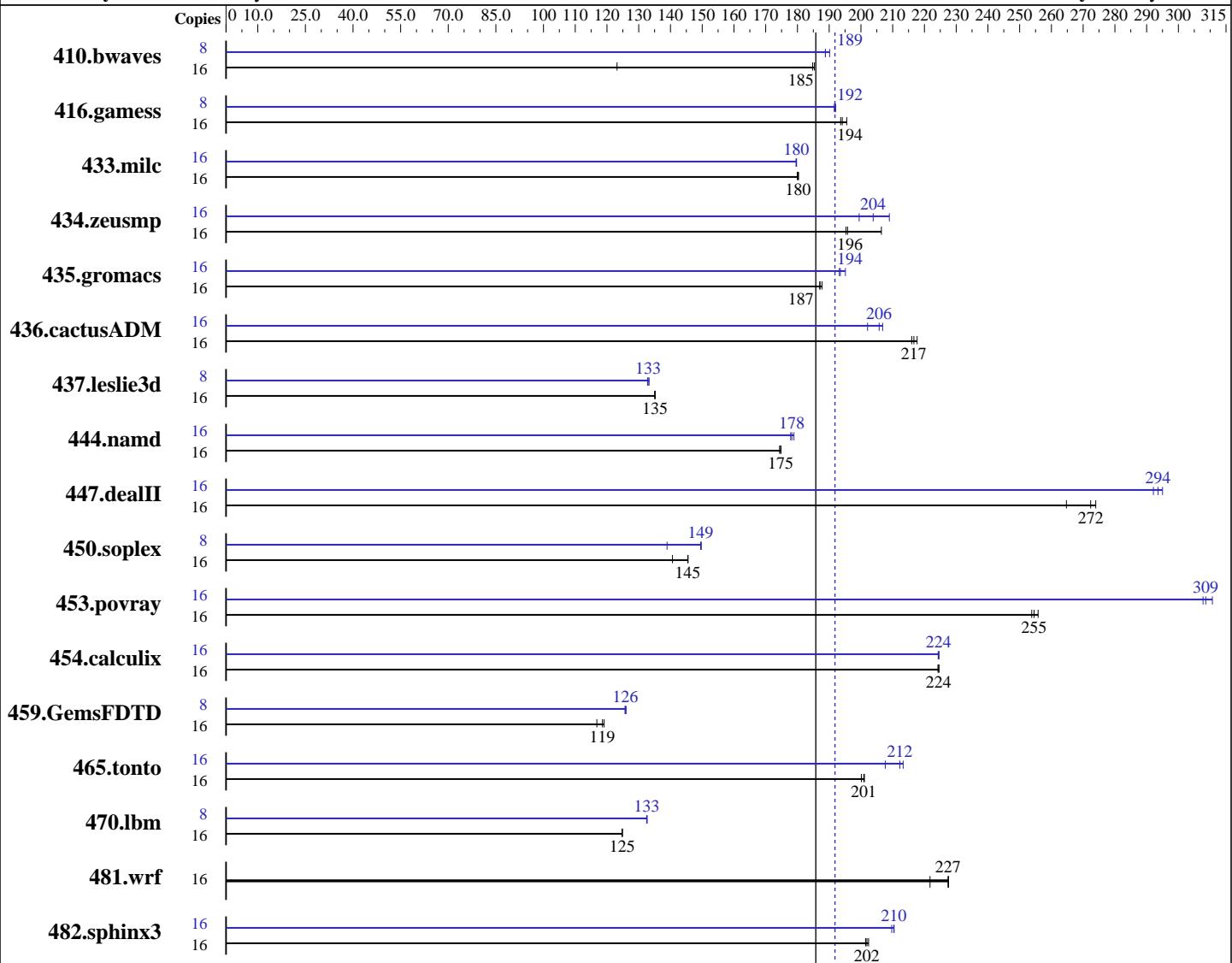
Test sponsor: Cisco Systems

Hardware Availability: May-2009

Tested by: Cisco Systems

Software Availability: May-2009

SPECfp_rate_base2006 = 186



SPECfp_rate_base2006 = 186

SPECfp_rate2006 = 192

Hardware

CPU Name: Intel Xeon X5550
CPU Characteristics: Intel Turbo Boost Technology up to 3.06 GHz
CPU MHz: 2667
FPU: Integrated
CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip, 2 threads/core
CPU(s) orderable: 1, 2 chips
Primary Cache: 32 KB I + 32 KB D on chip per core
Secondary Cache: 256 KB I+D on chip per core

Software

Operating System: SUSE Linux Enterprise Server 11 (x86_64), Kernel 2.6.27.19-5-default
Compiler: Intel C++ and Fortran Compiler 11.0 for Linux Build 20090131 Package ID: l_cproc_p_11.0.080, l_cprof_p_11.0.080
Auto Parallel: No
File System: ext3
System State: Run level 3 (multi-user)
Base Pointers: 64-bit

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| | | | |
|-----------------|---------------------------------|-----------------|-----------|
| L3 Cache: | 8 MB I+D on chip per chip | Peak Pointers: | 32/64-bit |
| Other Cache: | None | Other Software: | None |
| Memory: | 24 GB (6 x 4GB DDR3 1333 MHz) | | |
| Disk Subsystem: | 73 GB SAS ST973451SS, 15000 RPM | | |
| Other Hardware: | None | | |

Results Table

| Benchmark | Base | | | | | | | Peak | | | | | | |
|---------------|--------|---------|-------|-------------|------------|-------------|------------|--------|-------------|------------|------------|------------|-------------|------------|
| | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 16 | 1765 | 123 | 1173 | 185 | 1177 | 185 | 8 | 576 | 189 | 572 | 190 | 576 | 189 |
| 416.gamess | 16 | 1602 | 196 | 1614 | 194 | 1618 | 194 | 8 | 817 | 192 | 817 | 192 | 816 | 192 |
| 433.milc | 16 | 816 | 180 | 815 | 180 | 814 | 180 | 16 | 818 | 180 | 818 | 180 | 817 | 180 |
| 434.zeusmp | 16 | 705 | 206 | 746 | 195 | 744 | 196 | 16 | 730 | 199 | 697 | 209 | 714 | 204 |
| 435.gromacs | 16 | 608 | 188 | 611 | 187 | 611 | 187 | 16 | 586 | 195 | 591 | 193 | 590 | 194 |
| 436.cactusADM | 16 | 878 | 218 | 885 | 216 | 882 | 217 | 16 | 946 | 202 | 924 | 207 | 929 | 206 |
| 437.leslie3d | 16 | 1114 | 135 | 1113 | 135 | 1113 | 135 | 8 | 565 | 133 | 566 | 133 | 564 | 133 |
| 444.namd | 16 | 736 | 174 | 734 | 175 | 735 | 175 | 16 | 720 | 178 | 717 | 179 | 721 | 178 |
| 447.dealII | 16 | 691 | 265 | 672 | 272 | 668 | 274 | 16 | 620 | 295 | 623 | 294 | 627 | 292 |
| 450.soplex | 16 | 949 | 141 | 917 | 145 | 917 | 146 | 8 | 480 | 139 | 446 | 149 | 446 | 150 |
| 453.povray | 16 | 333 | 256 | 335 | 254 | 334 | 255 | 16 | 276 | 309 | 274 | 311 | 277 | 308 |
| 454.calculix | 16 | 589 | 224 | 588 | 225 | 588 | 224 | 16 | 588 | 225 | 588 | 224 | 588 | 224 |
| 459.GemsFDTD | 16 | 1453 | 117 | 1425 | 119 | 1432 | 119 | 8 | 675 | 126 | 675 | 126 | 673 | 126 |
| 465.tonto | 16 | 783 | 201 | 787 | 200 | 784 | 201 | 16 | 738 | 213 | 742 | 212 | 758 | 208 |
| 470.lbm | 16 | 1761 | 125 | 1761 | 125 | 1762 | 125 | 8 | 830 | 133 | 829 | 133 | 828 | 133 |
| 481.wrf | 16 | 785 | 228 | 786 | 227 | 806 | 222 | 16 | 785 | 228 | 786 | 227 | 806 | 222 |
| 482.sphinx3 | 16 | 1548 | 201 | 1541 | 202 | 1545 | 202 | 16 | 1487 | 210 | 1482 | 210 | 1482 | 210 |

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

Submit Notes

The config file option 'submit' was used.

numactl --localalloc --physcpubind=\$BIND was used to bind copies to the cores using following bind list:

bind = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15

Operating System Notes

ulimit -s unlimited was used to set the stack size



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General Notes

Submitted_by: "Ven Immani (immaniv)" <immaniv@cisco.com>
Submitted: Wed Jun 10 17:31:06 EDT 2009
Submission: cpu2006-20090601-07563.sub

Submitted_by: "Ven Immani (immaniv)" <immaniv@cisco.com>
Submitted: Wed Jun 10 17:36:06 EDT 2009
Submission: cpu2006-20090601-07563.sub

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:

-xSSE4.2 -ipo -O3 -no-prec-div -static

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

482.sphinx3: icc -m32

C++ benchmarks (except as noted below):

icpc

450.soplex: icpc -m32

Fortran benchmarks (except as noted below):

ifort

437.leslie3d: ifort -m32

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

Peak Optimization Flags

C benchmarks:

433.milc: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-fno-alias

470.lbm: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch
-auto-ilp32

482.sphinx3: -xSSE4.2 -ipo -O3 -no-prec-div -static -unroll2

C++ benchmarks:

444.namd: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-fno-alias -auto-ilp32

447.dealII: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -ansi-alias -scalar-rep-

450.soplex: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-malloc-options=3

453.povray: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xSSE4.2 -ipo -O3 -no-prec-div -static -opt-prefetch

416.gamess: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll2 -Ob0 -ansi-alias -scalar-rep-

434.zeusmp: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)

437.leslie3d: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-malloc-options=3 -opt-prefetch

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Peak Optimization Flags (Continued)

459.GemsFDTD: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll12 -Ob0 -opt-prefetch

465.tonto: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll14 -auto

Benchmarks using both Fortran and C:

435.gromacs: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-opt-prefetch -auto-ilp32

436.cactusADM: -xSSE4.2(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -static(pass 2) -prof-use(pass 2)
-unroll12 -opt-prefetch -auto-ilp32

454.calculix: -xSSE4.2 -ipo -O3 -no-prec-div -static -auto-ilp32

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-ic11.0-fp-linux64-revA.20090710.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.xml>

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

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