



SPEC® CFP2006 Result

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Intel Corporation

Supermicro SuperServer 6026T-NTR+ (Intel Xeon L5506, 2.13 GHz)

SPECfp®2006 = 26.5

SPECfp_base2006 = 24.5

CPU2006 license: 13

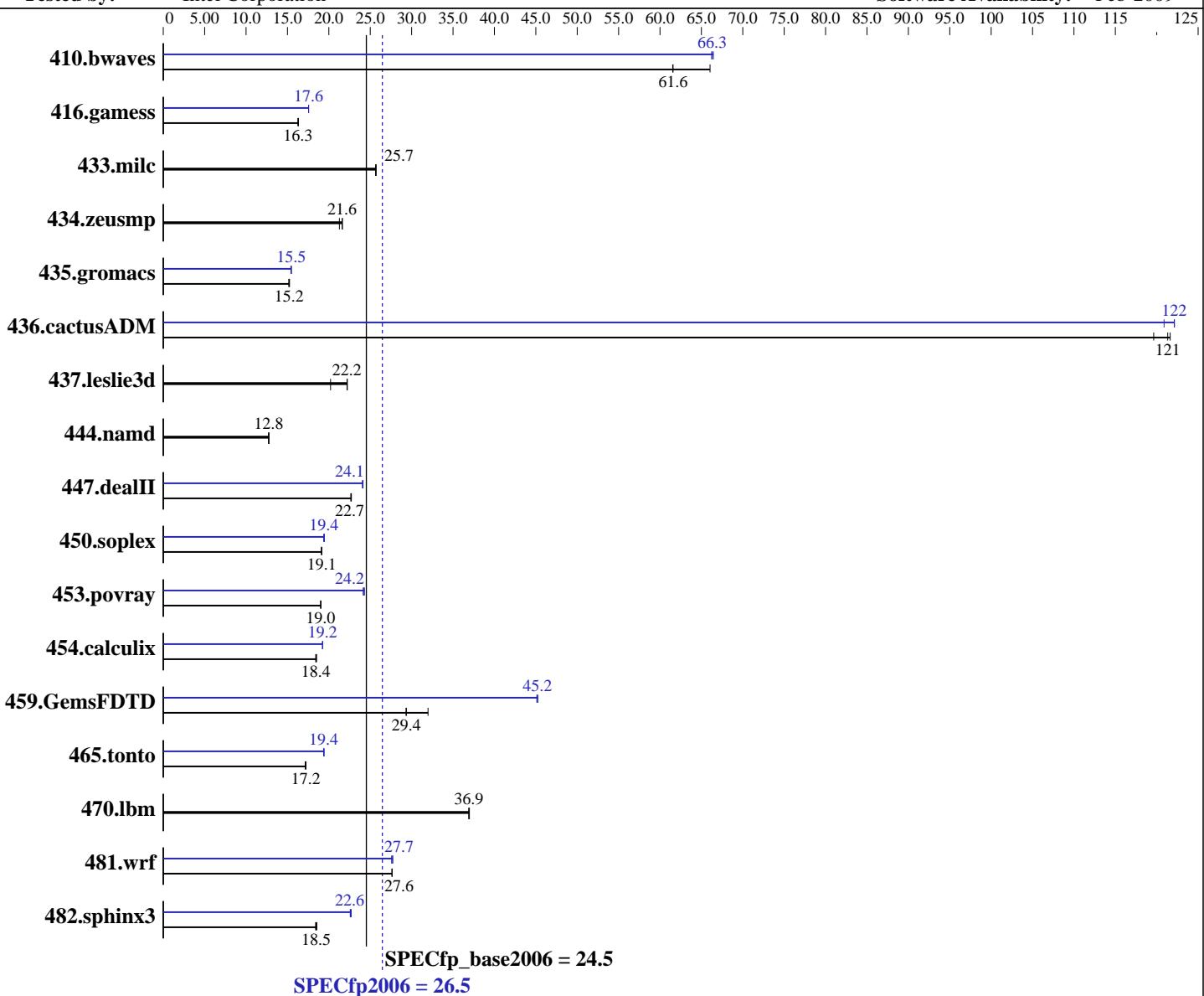
Test sponsor: Intel Corporation

Tested by: Intel Corporation

Test date: Mar-2009

Hardware Availability: Mar-2009

Software Availability: Feb-2009



Hardware

CPU Name: Intel Xeon L5506
CPU Characteristics:
CPU MHz: 2133
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: 256 KB I+D on chip per core

Software

Operating System: SuSe Linux SLES10 SP2, Kernel 2.6.16.60-0.34-smp for x86_64
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: Yes
File System: ReiserFS
System State: Run level 3 (multi-user)
Base Pointers: 64-bit

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L3 Cache: 4 MB I+D on chip per chip
 Other Cache: None
 Memory: 24 GB (12 x 2GB DDR3-1066, CL7)
 Disk Subsystem: 1 x 150 GB SATA, 10000RPM
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: Binutils 2.18.50.0.7.20080502

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio								
410.bwaves	221	61.5	206	66.0	<u>221</u>	<u>61.6</u>	205	66.2	205	66.4	<u>205</u>	<u>66.3</u>
416.gamess	<u>1201</u>	<u>16.3</u>	1204	16.3	1199	16.3	<u>1116</u>	<u>17.5</u>	<u>1115</u>	<u>17.6</u>	1115	17.6
433.milc	<u>358</u>	<u>25.7</u>	357	25.7	358	25.7	<u>358</u>	<u>25.7</u>	357	25.7	358	25.7
434.zeusmp	<u>421</u>	<u>21.6</u>	421	21.6	428	21.3	<u>421</u>	<u>21.6</u>	421	21.6	428	21.3
435.gromacs	468	15.3	<u>470</u>	<u>15.2</u>	471	15.2	461	15.5	<u>462</u>	<u>15.5</u>	463	15.4
436.cactusADM	98.3	122	<u>98.5</u>	<u>121</u>	99.9	120	<u>97.9</u>	<u>122</u>	97.8	122	98.9	121
437.leslie3d	<u>424</u>	<u>22.2</u>	465	20.2	423	22.2	<u>424</u>	<u>22.2</u>	465	20.2	423	22.2
444.namd	629	12.8	631	12.7	<u>629</u>	<u>12.8</u>	629	12.8	631	12.7	<u>629</u>	<u>12.8</u>
447.dealII	503	22.7	505	22.6	<u>504</u>	<u>22.7</u>	476	24.0	<u>474</u>	<u>24.1</u>	474	24.1
450.soplex	437	19.1	436	19.1	<u>436</u>	<u>19.1</u>	<u>429</u>	<u>19.4</u>	429	19.5	430	19.4
453.povray	279	19.0	280	19.0	<u>280</u>	<u>19.0</u>	219	24.3	<u>219</u>	<u>24.2</u>	220	24.1
454.calculix	<u>447</u>	<u>18.4</u>	445	18.5	448	18.4	<u>429</u>	19.2	429	19.2	<u>429</u>	<u>19.2</u>
459.GemsFDTD	<u>361</u>	<u>29.4</u>	362	29.3	332	32.0	<u>235</u>	45.1	<u>235</u>	<u>45.2</u>	235	45.2
465.tonto	571	17.2	574	17.2	<u>572</u>	<u>17.2</u>	<u>507</u>	<u>19.4</u>	506	19.4	508	19.4
470.lbm	372	37.0	372	36.9	<u>372</u>	<u>36.9</u>	<u>372</u>	37.0	372	36.9	<u>372</u>	<u>36.9</u>
481.wrf	<u>404</u>	<u>27.6</u>	404	27.7	404	27.6	<u>403</u>	<u>27.7</u>	405	27.6	403	27.7
482.sphinx3	1059	18.4	1051	18.6	<u>1056</u>	<u>18.5</u>	<u>862</u>	<u>22.6</u>	863	22.6	858	22.7

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

General Notes

OMP_NUM_THREADS set to number of cores
 KMP_AFFINITY set to granularity=fine,scatter
 KMP_STACKSIZE set to 200M

Base Compiler Invocation

C benchmarks:
 icc

C++ benchmarks:
 icpc

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Base Compiler Invocation (Continued)

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:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

C++ benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:

-xSSE4.2 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

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Peak Compiler Invocation (Continued)

482.sphinx3: `icc -m32`

C++ benchmarks (except as noted below):

`icpc`

450.soplex: `icpc -m32`

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`
 470.lbm: `-DSPEC_CPU_LP64`
 481.wrf: `-DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX`

Peak Optimization Flags

C benchmarks:

433.milc: `basepeak = yes`

470.lbm: `basepeak = yes`

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

C++ benchmarks:

444.namd: `basepeak = yes`

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Peak Optimization Flags (Continued)

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 -opt-prefetch

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
 -parallel

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: basepeak = yes

437.leslie3d: basepeak = yes

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)
 -unroll2 -Ob0 -opt-prefetch -parallel

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)
 -unroll4 -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)
 -unroll2 -opt-prefetch -parallel -auto-ilp32

454.calculix: -xsse4 .2 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: -xsse4 .2 -ipo -O3 -no-prec-div -static -opt-prefetch
 -parallel -auto-ilp32



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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.20090710.04.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.20090710.04.xml>

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Tested with SPEC CPU2006 v1.1.

Report generated on Tue Jul 22 23:29:45 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 31 March 2009.