



SPEC[®] CFP2006 Result

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Supermicro

SuperServer 5017C-LF (X9SCL-F, Intel Xeon E3-1265LV2)

SPECfp[®]2006 = **65.2**

SPECfp_base2006 = **62.7**

CPU2006 license: 001176

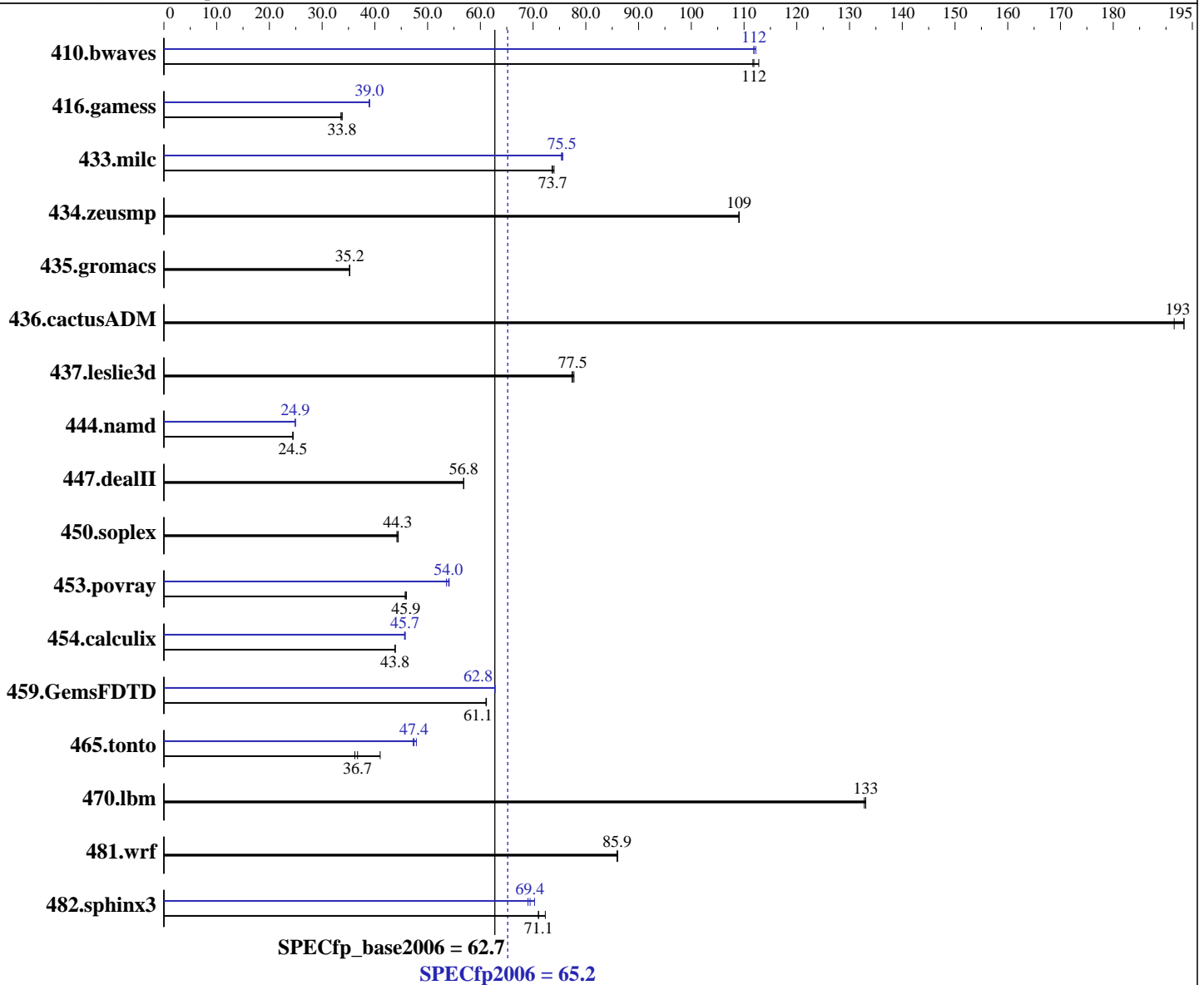
Test sponsor: Supermicro

Tested by: Supermicro

Test date: Jun-2012

Hardware Availability: May-2012

Software Availability: Dec-2011



Hardware

CPU Name: Intel Xeon E3-1265L v2
 CPU Characteristics: Intel Turbo Boost Technology up to 3.50 GHz
 CPU MHz: 2500
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 4 cores/chip, 2 threads/core
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 256 KB I+D on chip per core

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Software

Operating System: Red Hat Enterprise Linux Server release 6.2 (Santiago), Kernel 2.6.32-220.el6.x86_64
 Compiler: C/C++: Version 12.1.0.225 of Intel C++ Studio XE for Linux; Fortran: Version 12.1.0.225 of Intel Fortran Studio XE for Linux
 Auto Parallel: Yes
 File System: ext4

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L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 16 GB (2 x 8 GB 2Rx8 PC3-12800E-11, ECC)
Disk Subsystem: 1 x 500 GB SATA II, 7200 RPM
Other Hardware: None

System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	120	113	<u>121</u>	<u>112</u>	122	112	<u>121</u>	<u>112</u>	121	112	121	112
416.gamess	583	33.6	<u>580</u>	<u>33.8</u>	580	33.8	502	39.0	503	38.9	<u>502</u>	<u>39.0</u>
433.milc	<u>125</u>	<u>73.7</u>	124	74.0	125	73.6	121	75.6	<u>122</u>	<u>75.5</u>	122	75.4
434.zeusmp	83.4	109	83.5	109	<u>83.5</u>	<u>109</u>	83.4	109	83.5	109	<u>83.5</u>	<u>109</u>
435.gromacs	203	35.2	<u>203</u>	<u>35.2</u>	203	35.2	203	35.2	<u>203</u>	<u>35.2</u>	203	35.2
436.cactusADM	<u>61.8</u>	<u>193</u>	61.8	193	62.4	192	<u>61.8</u>	<u>193</u>	61.8	193	62.4	192
437.leslie3d	121	77.8	<u>121</u>	<u>77.5</u>	121	77.4	121	77.8	<u>121</u>	<u>77.5</u>	121	77.4
444.namd	328	24.5	328	24.5	<u>328</u>	<u>24.5</u>	<u>322</u>	<u>24.9</u>	322	24.9	322	24.9
447.dealII	<u>201</u>	<u>56.8</u>	201	56.9	201	56.8	<u>201</u>	<u>56.8</u>	201	56.9	201	56.8
450.soplex	188	44.4	<u>188</u>	<u>44.3</u>	189	44.2	188	44.4	<u>188</u>	<u>44.3</u>	189	44.2
453.povray	116	45.7	116	46.0	<u>116</u>	<u>45.9</u>	98.3	54.1	<u>98.6</u>	<u>54.0</u>	99.3	53.6
454.calculix	188	43.9	<u>188</u>	<u>43.8</u>	188	43.8	180	45.8	<u>181</u>	<u>45.7</u>	181	45.6
459.GemsFDTD	<u>174</u>	<u>61.1</u>	173	61.2	174	61.1	169	62.8	<u>169</u>	<u>62.8</u>	169	62.7
465.tonto	240	41.0	<u>268</u>	<u>36.7</u>	272	36.2	<u>207</u>	<u>47.4</u>	208	47.3	206	47.9
470.lbm	103	133	<u>103</u>	<u>133</u>	103	133	103	133	<u>103</u>	<u>133</u>	103	133
481.wrf	<u>130</u>	<u>85.9</u>	130	86.0	130	85.9	<u>130</u>	<u>85.9</u>	130	86.0	130	85.9
482.sphinx3	270	72.3	275	71.0	<u>274</u>	<u>71.1</u>	277	70.3	<u>281</u>	<u>69.4</u>	282	69.0

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

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"
Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled

General Notes

Environment variables set by runspec before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu2006/libs/32:/home/cpu2006/libs/64"
OMP_NUM_THREADS = "4"

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RHEL5.5



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Base Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64

Fortran benchmarks:
ifort -m64

Benchmarks using both Fortran and C:
icc -m64 ifort -m64

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.lelie3d: -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:
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
-ansi-alias

C++ benchmarks:
-xAVX -ipo -O3 -no-prec-div -static -opt-prefetch -ansi-alias

Fortran benchmarks:
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:
-xAVX -ipo -O3 -no-prec-div -static -parallel -opt-prefetch
-ansi-alias



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Peak Compiler Invocation

C benchmarks:
icc -m64

C++ benchmarks:
icpc -m64

Fortran benchmarks:
ifort -m64

Benchmarks using both Fortran and C:
icc -m64 ifort -m64

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

433.milc: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -static -auto-ilp32
-ansi-alias

470.lbm: basepeak = yes

482.sphinx3: -xAVX -ipo -O3 -no-prec-div -unroll2 -ansi-alias
-parallel

C++ benchmarks:

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

447.dealIII: basepeak = yes

450.soplex: basepeak = yes

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

Fortran benchmarks:

410.bwaves: -xAVX -ipo -O3 -no-prec-div -opt-prefetch -parallel
-static

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Peak Optimization Flags (Continued)

416.gamess: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -scalar-rep- -static

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll2
-inline-level=0 -opt-prefetch -parallel

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -inline-calloc
-opt-malloc-options=3 -auto -unroll4

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: -xAVX -ipo -O3 -no-prec-div -auto-ilp32 -ansi-alias

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-ic12.1-official-linux64.20111122.html>

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

<http://www.spec.org/cpu2006/flags/Intel-ic12.1-official-linux64.20111122.xml>

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

Tested with SPEC CPU2006 v1.2.
Report generated on Thu Jul 24 09:40:38 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 3 July 2012.