



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

SPECfp®2006 = 55.7

SuperServer 5037MC-H8TRF (X9SCD-F, Intel E3-1260L)

SPECfp_base2006 = 52.8

CPU2006 license: 001176

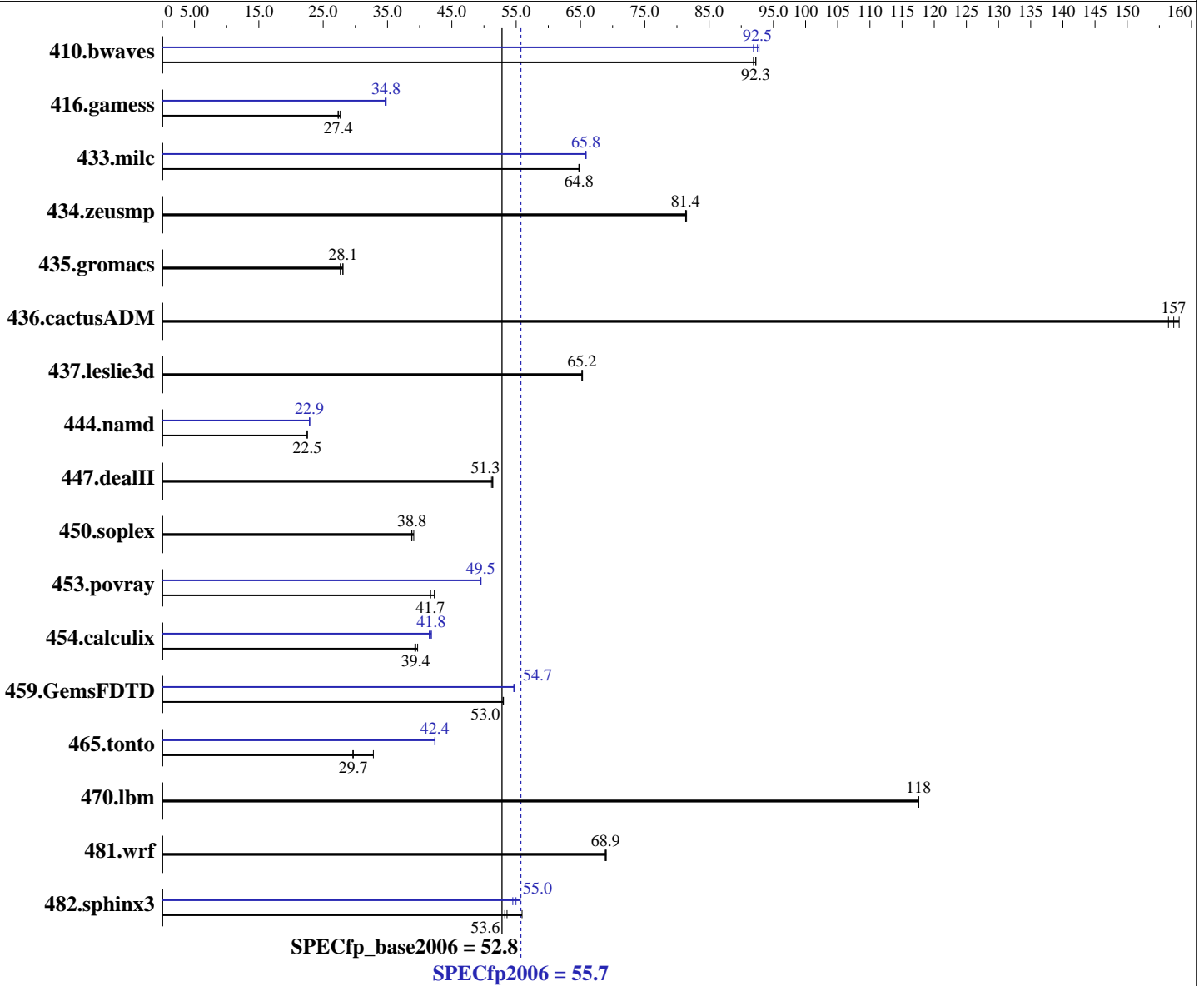
Test date: Mar-2012

Test sponsor: Supermicro

Hardware Availability: Aug-2011

Tested by: Supermicro

Software Availability: Oct-2011



Hardware

CPU Name: Intel Xeon E3-1260L
 CPU Characteristics: Intel Turbo Boost Technology up to 3.30 GHz
 CPU MHz: 2400
 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

Continued on next page

Software

Operating System: Red Hat Enterprise Linux Server Release 6.1, Kernel 2.6.32-131.0.15.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
 System State: Run level 3 (multi-user)

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

SPECfp2006 = **55.7**

SuperServer 5037MC-H8TRF (X9SCD-F, Intel E3-1260L)

SPECfp_base2006 = **52.8**

CPU2006 license: 001176

Test date: Mar-2012

Test sponsor: Supermicro

Hardware Availability: Aug-2011

Tested by: Supermicro

Software Availability: Oct-2011

L3 Cache: 8 MB I+D on chip per chip
Other Cache: None
Memory: 8 GB (2 x 4 GB 2Rx8 PC3-10600E-9, ECC)
Disk Subsystem: 1 x 500 GB SATA III, 7200 RPM
Other Hardware: None

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	<u>147</u>	<u>92.3</u>	147	92.3	148	91.9	148	91.9	146	92.8	<u>147</u>	<u>92.5</u>
416.gamess	<u>716</u>	<u>27.4</u>	716	27.3	709	27.6	563	34.8	565	34.6	<u>563</u>	<u>34.8</u>
433.milc	142	64.8	<u>142</u>	<u>64.8</u>	142	64.8	139	65.9	139	65.8	<u>139</u>	<u>65.8</u>
434.zeusmp	112	81.5	<u>112</u>	<u>81.4</u>	112	81.4	112	81.5	<u>112</u>	<u>81.4</u>	112	81.4
435.gromacs	258	27.7	<u>254</u>	<u>28.1</u>	254	28.1	258	27.7	<u>254</u>	<u>28.1</u>	254	28.1
436.cactusADM	<u>76.0</u>	<u>157</u>	75.6	158	76.4	156	<u>76.0</u>	<u>157</u>	75.6	158	76.4	156
437.leslie3d	<u>144</u>	<u>65.2</u>	144	65.3	144	65.2	<u>144</u>	<u>65.2</u>	144	65.3	144	65.2
444.namd	<u>356</u>	<u>22.5</u>	356	22.5	356	22.5	350	22.9	351	22.9	<u>350</u>	<u>22.9</u>
447.dealII	223	51.4	<u>223</u>	<u>51.3</u>	224	51.2	223	51.4	<u>223</u>	<u>51.3</u>	224	51.2
450.soplex	213	39.1	215	38.8	<u>215</u>	<u>38.8</u>	213	39.1	215	38.8	<u>215</u>	<u>38.8</u>
453.povray	<u>128</u>	<u>41.7</u>	128	41.7	126	42.3	107	49.6	108	49.5	<u>107</u>	<u>49.5</u>
454.calculix	208	39.7	<u>209</u>	<u>39.4</u>	210	39.3	<u>197</u>	<u>41.8</u>	199	41.5	197	41.8
459.GemsFDTD	200	53.0	<u>200</u>	<u>53.0</u>	200	53.0	194	54.7	<u>194</u>	<u>54.7</u>	194	54.6
465.tonto	<u>331</u>	<u>29.7</u>	300	32.8	332	29.6	<u>232</u>	<u>42.4</u>	232	42.4	232	42.4
470.lbm	<u>117</u>	<u>118</u>	117	118	117	118	<u>117</u>	<u>118</u>	117	118	117	118
481.wrf	162	68.8	<u>162</u>	<u>68.9</u>	162	69.0	162	68.8	<u>162</u>	<u>68.9</u>	162	69.0
482.sphinx3	<u>364</u>	<u>53.6</u>	349	55.9	366	53.2	<u>355</u>	<u>55.0</u>	358	54.5	350	55.6

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"

General Notes

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

Binaries compiled on a system with 1x Core i7-860 CPU + 8GB memory using RHEL5.5
Transparent Huge Pages enabled with:
echo always > /sys/kernel/mm/redhat_transparent_hugepage/enabled



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

SPECfp2006 = 55.7

SuperServer 5037MC-H8TRF (X9SCD-F, Intel E3-1260L)

SPECfp_base2006 = 52.8

CPU2006 license: 001176

Test date: Mar-2012

Test sponsor: Supermicro

Hardware Availability: Aug-2011

Tested by: Supermicro

Software Availability: Oct-2011

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.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:

-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



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

SPECfp2006 = 55.7

SuperServer 5037MC-H8TRF (X9SCD-F, Intel E3-1260L)

SPECfp_base2006 = 52.8

CPU2006 license: 001176
Test sponsor: Supermicro
Tested by: Supermicro

Test date: Mar-2012
Hardware Availability: Aug-2011
Software Availability: Oct-2011

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

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

Supermicro

SPECfp2006 = 55.7

SuperServer 5037MC-H8TRF (X9SCD-F, Intel E3-1260L)

SPECfp_base2006 = 52.8

CPU2006 license: 001176

Test date: Mar-2012

Test sponsor: Supermicro

Hardware Availability: Aug-2011

Tested by: Supermicro

Software Availability: Oct-2011

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>

SPEC and SPECfp are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

Tested with SPEC CPU2006 v1.2.
Report generated on Thu Jul 24 04:18:40 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 24 April 2012.