



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

SPECfp®_rate2006 = 77.5

Express5800/GT110d-S (Intel Core i3-2120)

SPECfp_rate_base2006 = 76.0

CPU2006 license: 9006

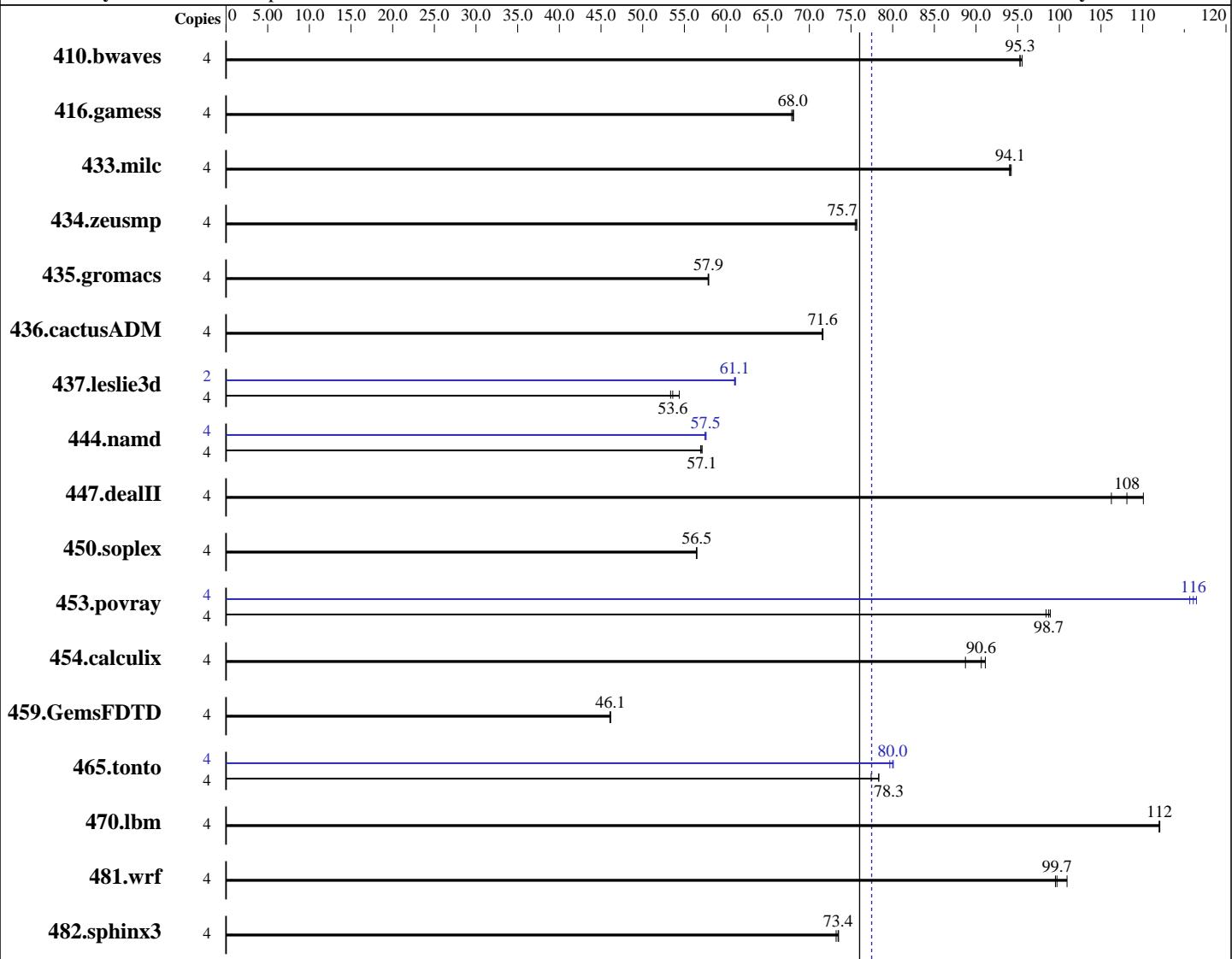
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Sep-2011

Hardware Availability: Jun-2011

Software Availability: Mar-2011



SPECfp_rate_base2006 = 76.0

SPECfp_rate2006 = 77.5

Hardware

CPU Name: Intel Core i3-2120
 CPU Characteristics:
 CPU MHz:
 FPU:
 CPU(s) enabled:
 CPU(s) orderable:
 Primary Cache:
 Secondary Cache:

3300
 Integrated
 2 cores, 1 chip, 2 cores/chip, 2 threads/core
 1 chip
 32 KB I + 32 KB D on chip per core
 256 KB I+D on chip per core

Software

Operating System: SUSE Linux Enterprise Server 11 SP1 (x86_64),
 Kernel 2.6.32.12-0.7-default
 Compiler: Intel C++ and Fortran Intel 64 Compiler XE for
 applications running on Intel 64,
 Version 12.0.3.174 Build 20110309
 Auto Parallel: No
 File System: ext3
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit

Continued on next page

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/GT110d-S (Intel Core i3-2120)

SPECfp_rate2006 = 77.5

SPECfp_rate_base2006 = 76.0

CPU2006 license: 9006

Test date: Sep-2011

Test sponsor: NEC Corporation

Hardware Availability: Jun-2011

Tested by: NEC Corporation

Software Availability: Mar-2011

L3 Cache: 3 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 160 GB SATA, 7200 RPM
 Other Hardware: None

Peak Pointers: 32/64-bit
 Other Software: None

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	4	569	95.5	570	95.3	571	95.3	4	569	95.5	570	95.3	571	95.3
416.gamess	4	1152	68.0	1154	67.9	1150	68.1	4	1152	68.0	1154	67.9	1150	68.1
433.milc	4	390	94.2	391	94.0	390	94.1	4	390	94.2	391	94.0	390	94.1
434.zeusmp	4	481	75.7	482	75.5	481	75.7	4	481	75.7	482	75.5	481	75.7
435.gromacs	4	494	57.8	493	57.9	493	57.9	4	494	57.8	493	57.9	493	57.9
436.cactusADM	4	668	71.5	667	71.6	668	71.6	4	668	71.5	667	71.6	668	71.6
437.leslie3d	4	691	54.4	705	53.3	701	53.6	2	308	61.0	308	61.1	308	61.1
444.namd	4	562	57.1	563	56.9	562	57.1	4	557	57.6	558	57.5	558	57.5
447.dealII	4	431	106	423	108	416	110	4	431	106	423	108	416	110
450.soplex	4	591	56.5	591	56.5	591	56.5	4	591	56.5	591	56.5	591	56.5
453.povray	4	216	98.7	215	98.9	216	98.4	4	183	116	183	116	184	116
454.calculix	4	364	90.6	362	91.1	372	88.7	4	364	90.6	362	91.1	372	88.7
459.GemsFDTD	4	921	46.1	920	46.1	920	46.2	4	921	46.1	920	46.1	920	46.2
465.tonto	4	503	78.3	502	78.3	508	77.4	4	494	79.7	492	80.0	492	80.1
470.lbm	4	490	112	491	112	491	112	4	490	112	491	112	491	112
481.wrf	4	443	101	448	99.7	449	99.5	4	443	101	448	99.7	449	99.5
482.sphinx3	4	1065	73.2	1061	73.4	1061	73.5	4	1065	73.2	1061	73.4	1061	73.5

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 was used to bind copies to the cores

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
 Huge pages were not configured for this run

Platform Notes

Default BIOS settings were used.



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/GT110d-S (Intel Core i3-2120)

SPECfp_rate2006 = 77.5

SPECfp_rate_base2006 = 76.0

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Sep-2011

Hardware Availability: Jun-2011

Software Availability: Mar-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 -ansi-alias

C++ benchmarks:

-xAVX -ipo -O3 -no-prec-div -static -ansi-alias

Fortran benchmarks:

-xAVX -ipo -O3 -no-prec-div -static

Benchmarks using both Fortran and C:

-xAVX -ipo -O3 -no-prec-div -static -ansi-alias



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/GT110d-S (Intel Core i3-2120)

SPECfp_rate2006 = 77.5

SPECfp_rate_base2006 = 76.0

CPU2006 license: 9006

Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Sep-2011

Hardware Availability: Jun-2011

Software Availability: Mar-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: basepeak = yes

470.lbm: basepeak = yes

482.sphinx3: basepeak = yes

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.dealII: 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) -unroll14 -ansi-alias
-B /usr/share/libhugetlbfsl -Wl,-melf_x86_64 -Wl,-hugetlbfsl-link=BDT

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

Continued on next page



SPEC CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/GT110d-S (Intel Core i3-2120)

SPECfp_rate2006 = 77.5

CPU2006 license: 9006

Test date: Sep-2011

Test sponsor: NEC Corporation

Hardware Availability: Jun-2011

Tested by: NEC Corporation

Software Availability: Mar-2011

Peak Optimization Flags (Continued)

434.zeusmp: basepeak = yes

437.leslie3d: -xAVX -ipo -O3 -no-prec-div
-B /usr/share/libhugetlbfss/ -Wl,-melf_x86_64 -Wl,-hugetlbfss-link=BDT

459.GemsFDTD: basepeak = yes

465.tonto: -xAVX(pass 2) -prof-gen(pass 1) -ipo(pass 2) -O3(pass 2)
-no-prec-div(pass 2) -prof-use(pass 2) -unroll4 -auto
-inline-calloc -opt-malloc-options=3
-B /usr/share/libhugetlbfss/ -Wl,-melf_x86_64 -Wl,-hugetlbfss-link=BDT

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes

436.cactusADM: basepeak = yes

454.calculix: basepeak = yes

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.html>
<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revF.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-ic12.0-linux64-revB.xml>
<http://www.spec.org/cpu2006/flags/NEC-Intel-Linux-Settings-flags-revF.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 v1.1.

Report generated on Wed Jul 23 21:39:57 2014 by SPEC CPU2006 PS/PDF formatter v6932.

Originally published on 27 September 2011.