



SPEC® CFP2006 Result

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NEC Corporation

Express5800/110Rh-1
(Intel Xeon processor 3040)

SPECfp®2006 = 12.3

SPECfp_base2006 = 12.0

CPU2006 license: 9006

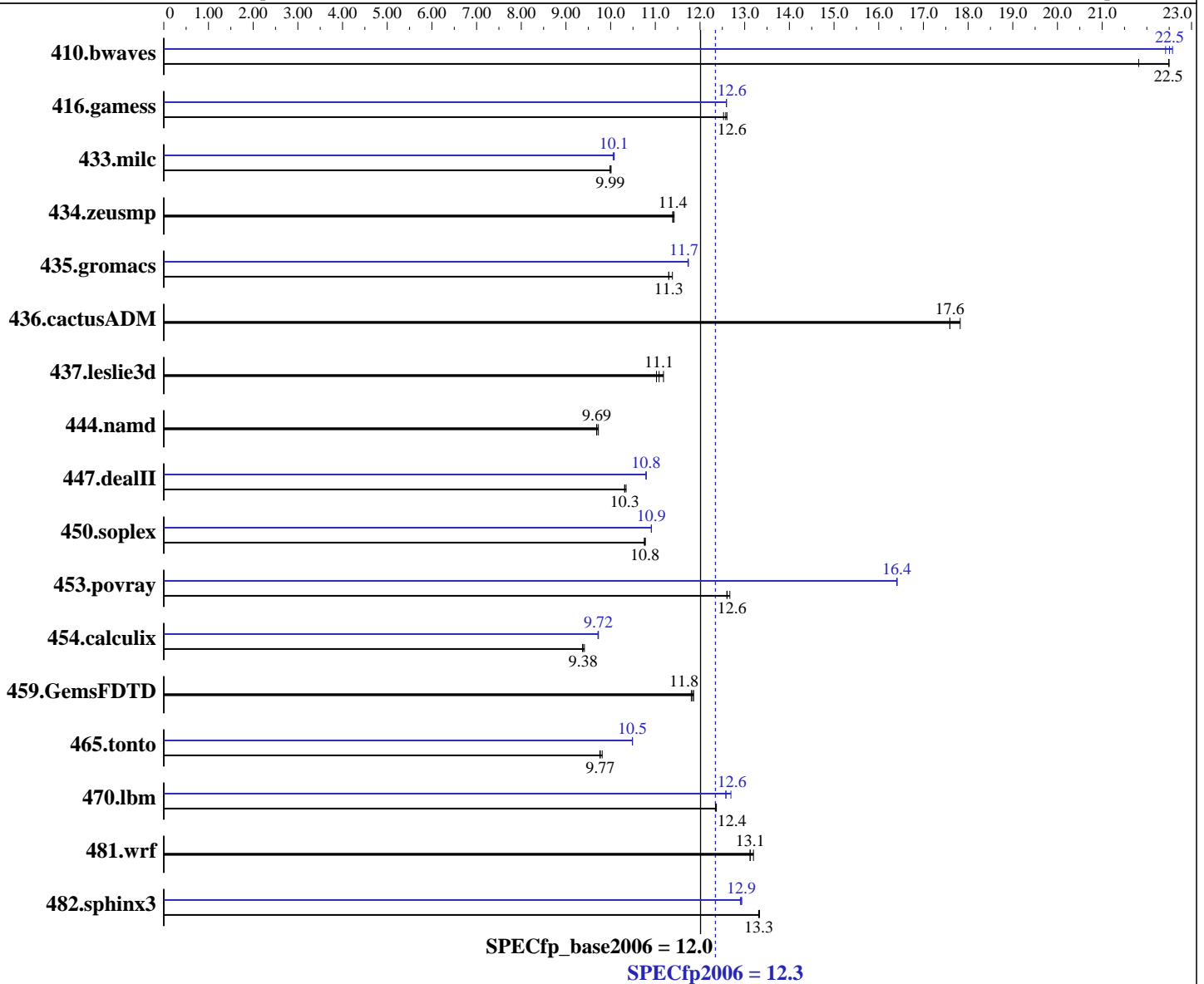
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Oct-2007

Hardware Availability: Nov-2006

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 3040
 CPU Characteristics: 1.86 GHz, 2 MB L2, 1066 MHz bus
 CPU MHz: 1866
 FPU: Integrated
 CPU(s) enabled: 2 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 2 MB I+D on chip per chip

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Software

Operating System: Windows Server 2003 Standard x64 Edition Service Pack1
 Compiler: Intel C++ Compiler for EM64T version 9.1 Build 20070322, Package-ID W_CC_C_9.1.037
 Intel Fortran Compiler for EM64T version 9.1 Build 20070322, Package-ID W_FC_C_9.1.037
 Microsoft Visual Studio 2005 (libr. & linker)
 Auto Parallel: Yes
 File System: NTFS

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L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1 GB PC2-5300E, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x80 GB SATAII, 7200RPM
Other Hardware: None

System State: Default
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other Software: None

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	623	21.8	604	22.5	604	22.5	606	22.4	602	22.6	604	22.5
416.gamess	1554	12.6	1557	12.6	1563	12.5	1555	12.6	1555	12.6	1555	12.6
433.milc	919	9.99	919	9.99	917	10.0	913	10.1	911	10.1	911	10.1
434.zeusmp	797	11.4	799	11.4	798	11.4	797	11.4	799	11.4	798	11.4
435.gromacs	627	11.4	632	11.3	632	11.3	608	11.7	609	11.7	608	11.7
436.cactusADM	670	17.8	679	17.6	679	17.6	670	17.8	679	17.6	679	17.6
437.leslie3d	841	11.2	853	11.0	848	11.1	841	11.2	853	11.0	848	11.1
444.namd	825	9.73	828	9.69	828	9.69	825	9.73	828	9.69	828	9.69
447.dealII	1106	10.3	1109	10.3	1109	10.3	1060	10.8	1060	10.8	1060	10.8
450.soplex	775	10.8	776	10.8	774	10.8	764	10.9	764	10.9	764	10.9
453.povray	420	12.7	422	12.6	422	12.6	324	16.4	324	16.4	324	16.4
454.calculix	876	9.41	879	9.38	880	9.37	849	9.72	848	9.73	848	9.72
459.GemsFDTD	895	11.9	897	11.8	899	11.8	895	11.9	897	11.8	899	11.8
465.tonto	1003	9.81	1008	9.76	1007	9.77	938	10.5	938	10.5	938	10.5
470.lbm	1113	12.3	1112	12.4	1111	12.4	1083	12.7	1092	12.6	1092	12.6
481.wrf	846	13.2	851	13.1	851	13.1	846	13.2	851	13.1	851	13.1
482.sphinx3	1462	13.3	1464	13.3	1464	13.3	1507	12.9	1508	12.9	1510	12.9

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

General Notes

The system bus runs at 1066 MHz
All binaries were built with 64-bit Intel compiler.

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc8 -Qc99 ifort

Base Portability Flags

410.bwaves: -DSPEC_CPU_P64
416.gamess: -DSPEC_CPU_P64
433.milc: -D_Complex= -DSPEC_CPU_P64
434.zeusmp: -DSPEC_CPU_P64
435.gromacs: -D_Complex= -DSPEC_CPU_P64
436.cactusADM: -D_Complex= -DSPEC_CPU_P64 -Qlowercase /assume:underscore
437.leslie3d: -DSPEC_CPU_P64
444.namd: -DSPEC_CPU_P64 /TP
447.dealII: -D_Complex= -DSPEC_CPU_P64 -DBOOST_NO_INTRINSIC_WCHAR_T
-DDEAL_II_MEMBER_VAR_SPECIALIZATION_BUG
450.soplex: -DSPEC_CPU_P64
453.povray: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
454.calculix: -D_Complex= -DSPEC_CPU_P64 -DSPEC_CPU_NOZMODIFIER
-Qlowercase
459.GemsFDTD: -DSPEC_CPU_P64
465.tonto: -DSPEC_CPU_P64
470.lbm: -D_Complex= -DSPEC_CPU_P64
481.wrf: -DSPEC_CPU_P64 -DSPEC_CPU_WINDOWS_ICL
482.sphinx3: -D_Complex= -DSPEC_CPU_P64

Base Optimization Flags

C benchmarks:
-fast -Qparallel -F950000000 -link -FORCE:MULTIPLE

C++ benchmarks:
-fast -Qparallel -Qcxx-features -F950000000
-link -FORCE:MULTIPLE

Fortran benchmarks:
-fast -Qparallel -F950000000 -link -FORCE:MULTIPLE

Benchmarks using both Fortran and C:
-fast -Qparallel -F950000000 -link -FORCE:MULTIPLE



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Peak Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icl -Qvc8 -Qc99 ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
-Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
-link -FORCE:MULTIPLE

C++ benchmarks:

444.namd: basepeak = yes

447.dealII: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qcxx-features
-F950000000 -link -FORCE:MULTIPLE

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -Qparallel
-F950000000 -link -FORCE:MULTIPLE

416.gamess: -fast -F950000000 -link -FORCE:MULTIPLE

434.zeusmp: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

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Peak Optimization Flags (Continued)

465.tonto: Same as 410.bwaves

Benchmarks using both Fortran and C:

435.gromacs: -Qprof_gen(pass 1) -Qprof_use(pass 2) -fast -F950000000
-link -FORCE:MULTIPLE

436.cactusADM: basepeak = yes

454.calculix: Same as 435.gromacs

481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/NEC-ic91-FP-win-flags.html>

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

<http://www.spec.org/cpu2006/flags/NEC-ic91-FP-win-flags.xml>

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

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