



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/120Li
(Intel Xeon processor 5160)

SPECfp®2006 = 17.2

SPECfp_base2006 = 16.6

CPU2006 license: 9006

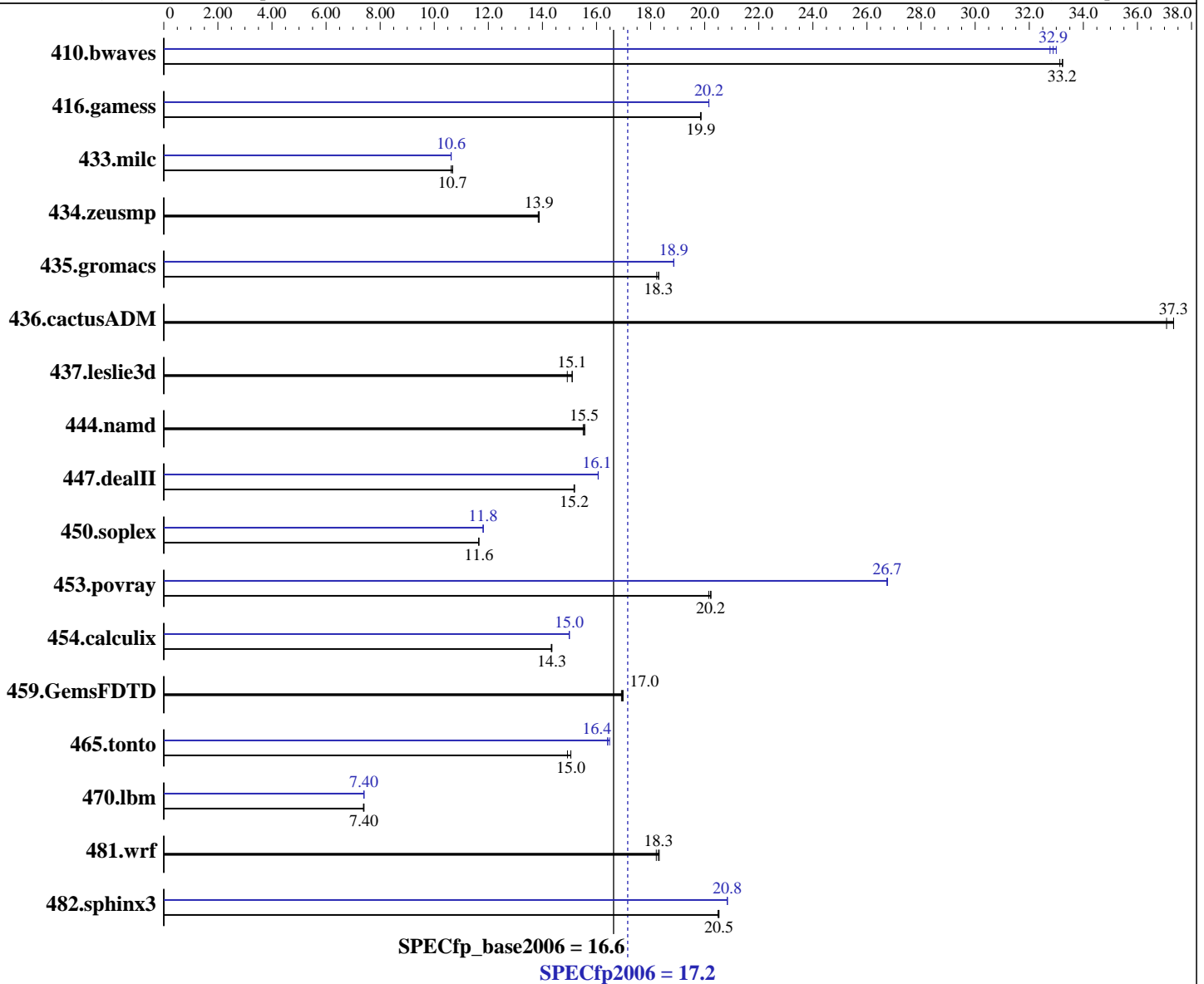
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Oct-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4 MB L2, 1333 MHz bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 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: 8 GB (8x1 GB PC2-5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x36.3 GB SAS, 15000RPM
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	410	33.1	409	33.2	409	33.2	412	33.0	413	32.9	415	32.8
416.gamess	987	19.8	986	19.9	986	19.9	971	20.2	972	20.2	972	20.2
433.milc	864	10.6	860	10.7	860	10.7	864	10.6	864	10.6	864	10.6
434.zeusmp	657	13.8	656	13.9	656	13.9	657	13.8	656	13.9	656	13.9
435.gromacs	390	18.3	390	18.3	392	18.2	379	18.9	379	18.9	379	18.9
436.cactusADM	320	37.3	320	37.3	322	37.1	320	37.3	320	37.3	322	37.1
437.leslie3d	622	15.1	623	15.1	630	14.9	622	15.1	623	15.1	630	14.9
444.namd	516	15.5	517	15.5	515	15.6	516	15.5	517	15.5	515	15.6
447.dealII	754	15.2	754	15.2	753	15.2	712	16.1	712	16.1	712	16.1
450.soplex	716	11.6	716	11.6	716	11.6	706	11.8	706	11.8	706	11.8
453.povray	263	20.2	264	20.2	263	20.2	199	26.7	199	26.8	199	26.7
454.calculix	576	14.3	575	14.3	575	14.3	550	15.0	550	15.0	550	15.0
459.GemsFDTD	625	17.0	626	17.0	627	16.9	625	17.0	626	17.0	627	16.9
465.tonto	654	15.1	654	15.0	659	14.9	600	16.4	597	16.5	600	16.4
470.lbm	1857	7.40	1861	7.38	1857	7.40	1857	7.40	1856	7.40	1856	7.40
481.wrf	610	18.3	611	18.3	613	18.2	610	18.3	611	18.3	613	18.2
482.sphinx3	951	20.5	950	20.5	949	20.5	935	20.8	936	20.8	935	20.8

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

Base Compiler Invocation

C benchmarks:
icl -Qvc8 -Qc99

C++ benchmarks:
icl -Qvc8

Fortran benchmarks:
ifort

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



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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.deallI: -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

```

Peak Compiler Invocation

```

C benchmarks:
  icl -Qvc8 -Qc99

C++ benchmarks:
  icl -Qvc8

Fortran benchmarks:
  ifort

```

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Peak Compiler Invocation (Continued)

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

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

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Peak Optimization Flags (Continued)

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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