



SPEC® CFP2006 Result

Copyright 2006-2014 Standard Performance Evaluation Corporation

NEC Corporation

Express5800/i120Rg-1
(Intel Xeon processor L5310)

SPECfp®2006 = 11.5

SPECfp_base2006 = 11.2

CPU2006 license: 9006

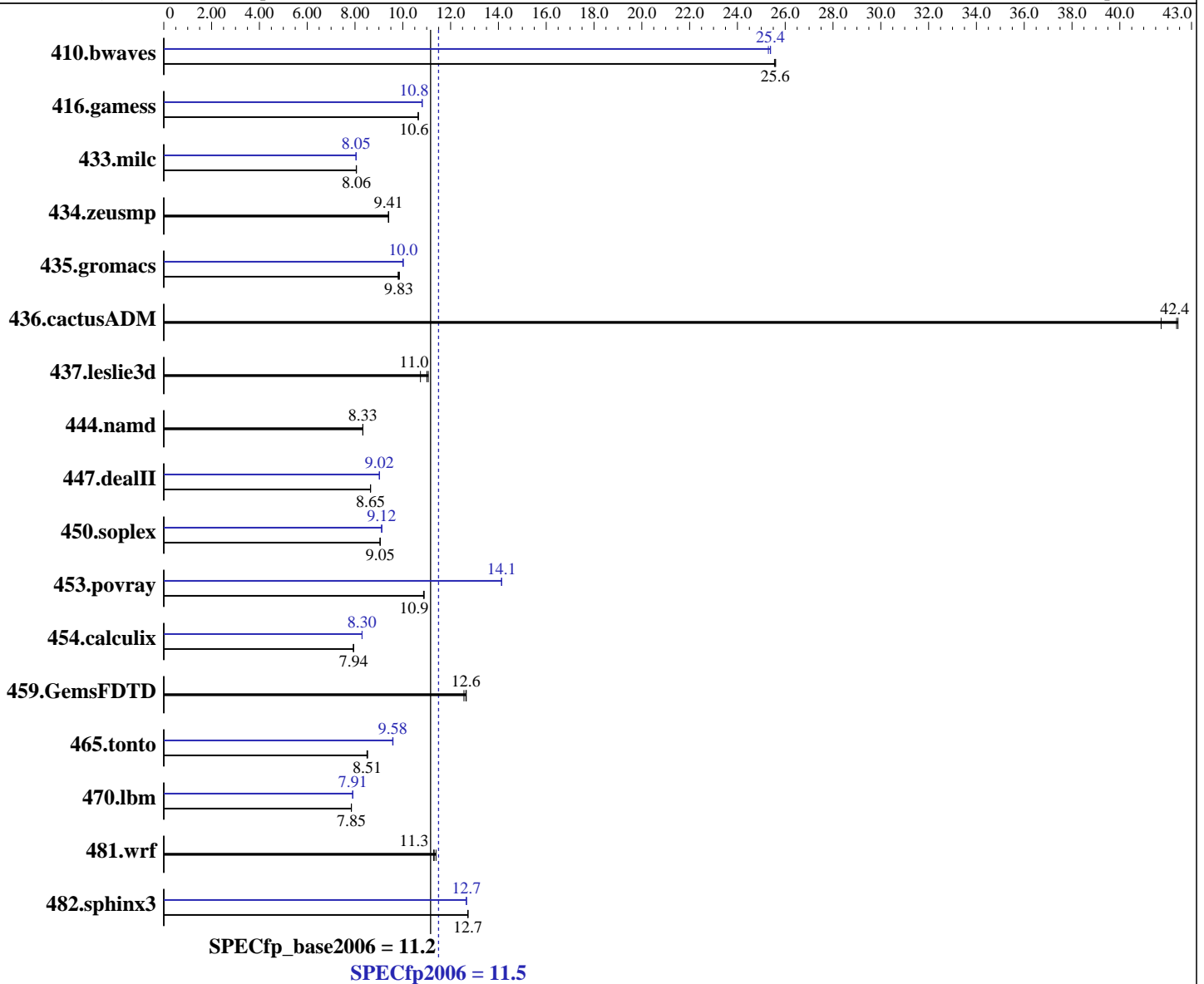
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Aug-2007

Hardware Availability: Aug-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon L5310
 CPU Characteristics: 1.60 GHz, 2x4 MB L2 shared, 1066 MHz bus
 CPU MHz: 1600
 FPU: Integrated
 CPU(s) enabled: 8 cores, 2 chips, 4 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 8 MB I+D on chip per chip, 4 MB shared / 2 cores

Continued on next page

Software

Operating System: Windows Server 2003, Standard x64 Edition
 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
 System State: Default

Continued on next page



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L3 Cache: None
Other Cache: None
Memory: 8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
Disk Subsystem: 1x73.2 GB SAS, 15000RPM
Other Hardware: None

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	532	25.5	531	25.6	<u>531</u>	<u>25.6</u>	<u>535</u>	<u>25.4</u>	535	25.4	537	25.3
416.gamess	<u>1839</u>	<u>10.6</u>	1839	10.6	1840	10.6	1812	10.8	1811	10.8	<u>1811</u>	<u>10.8</u>
433.milc	1139	8.06	<u>1139</u>	<u>8.06</u>	1140	8.05	<u>1140</u>	<u>8.05</u>	1140	8.05	1142	8.04
434.zeusmp	967	9.41	969	9.39	<u>967</u>	<u>9.41</u>	967	9.41	969	9.39	<u>967</u>	<u>9.41</u>
435.gromacs	<u>726</u>	<u>9.83</u>	724	9.86	728	9.80	<u>713</u>	<u>10.0</u>	713	10.0	714	10.0
436.cactusADM	<u>282</u>	<u>42.4</u>	282	42.4	286	41.7	<u>282</u>	<u>42.4</u>	282	42.4	286	41.7
437.leslie3d	849	11.1	<u>854</u>	<u>11.0</u>	875	10.7	849	11.1	<u>854</u>	<u>11.0</u>	875	10.7
444.namd	963	8.33	<u>963</u>	<u>8.33</u>	963	8.33	963	8.33	<u>963</u>	<u>8.33</u>	963	8.33
447.dealII	1322	8.65	<u>1322</u>	<u>8.65</u>	1323	8.65	<u>1268</u>	<u>9.02</u>	1268	9.02	1268	9.02
450.soplex	921	9.06	<u>921</u>	<u>9.05</u>	922	9.05	915	9.12	<u>915</u>	<u>9.12</u>	915	9.12
453.povray	<u>489</u>	<u>10.9</u>	489	10.9	490	10.9	377	14.1	<u>376</u>	<u>14.1</u>	376	14.1
454.calculix	1039	7.94	<u>1039</u>	<u>7.94</u>	1040	7.93	994	8.30	995	8.29	<u>994</u>	<u>8.30</u>
459.GemsFDTD	838	12.7	<u>839</u>	<u>12.6</u>	845	12.6	838	12.7	<u>839</u>	<u>12.6</u>	845	12.6
465.tonto	1154	8.53	1158	8.50	<u>1156</u>	<u>8.51</u>	1027	9.58	<u>1027</u>	<u>9.58</u>	1026	9.59
470.lbm	1751	7.85	<u>1751</u>	<u>7.85</u>	1751	7.85	1738	7.90	1738	7.91	<u>1738</u>	<u>7.91</u>
481.wrf	981	11.4	989	11.3	<u>987</u>	<u>11.3</u>	981	11.4	989	11.3	<u>987</u>	<u>11.3</u>
482.sphinx3	<u>1532</u>	<u>12.7</u>	1531	12.7	1532	12.7	<u>1539</u>	<u>12.7</u>	1540	12.7	1539	12.7

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.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

```

Peak Compiler Invocation

```

C benchmarks:
  icl -Qvc8 -Qc99

C++ benchmarks:
  icl -Qvc8

Fortran benchmarks:
  ifort

```

Continued on next page



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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

Continued on next page



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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-cpu2006-ic91-win-flags.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/NEC-cpu2006-ic91-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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