



SPEC® CFP2006 Result

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NEC Corporation

Express5800/i110Rc-1h
(Intel Core 2 Duo T7400)

SPECfp®_rate2006 = 18.3

SPECfp_rate_base2006 = 17.3

CPU2006 license: 9006

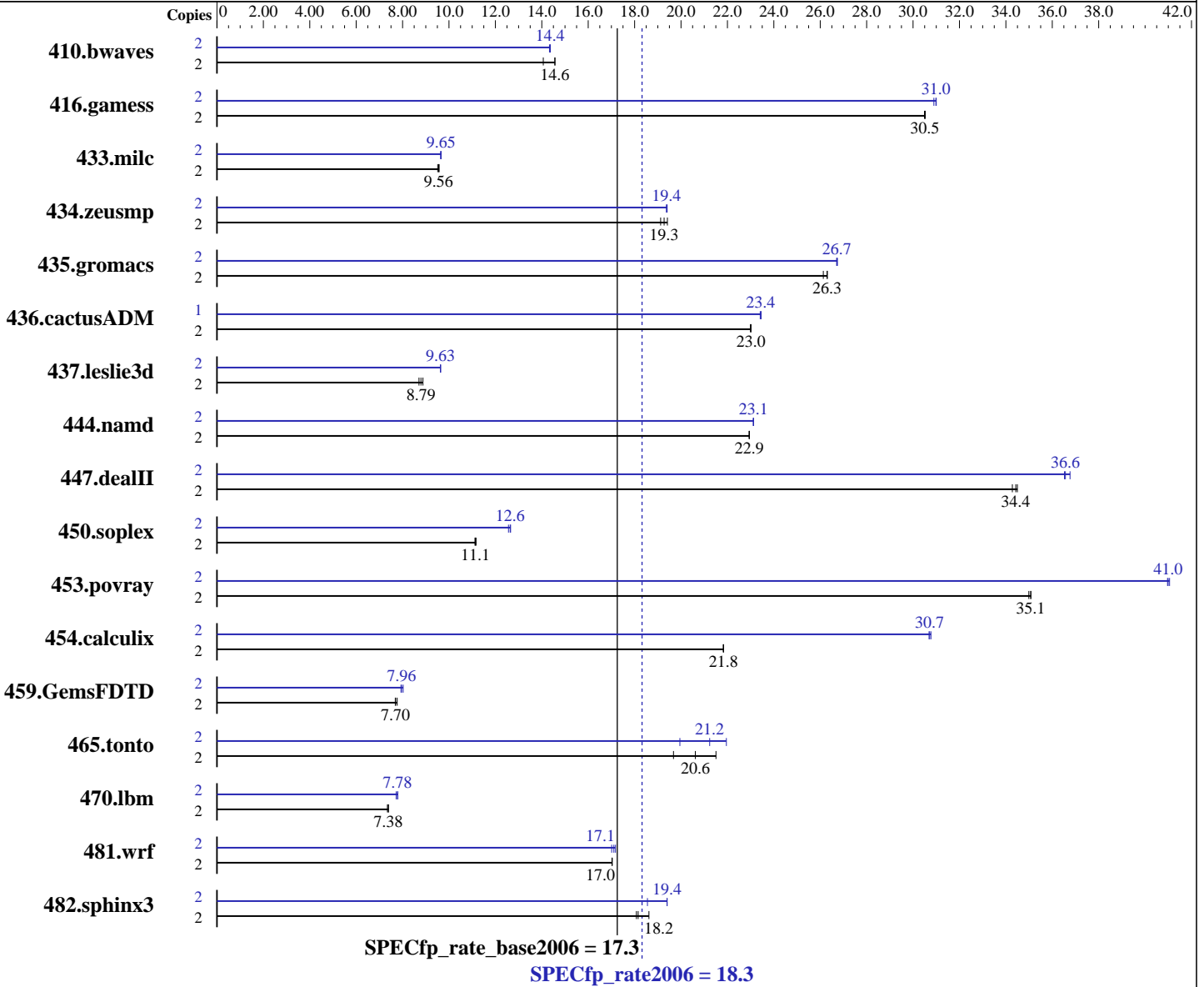
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Mar-2008

Hardware Availability: Oct-2007

Software Availability: Nov-2007



Hardware

CPU Name: Intel Core 2 Duo T7400
 CPU Characteristics: 2.16 GHz, 4 MB L2, 667 MHz bus
 CPU MHz: 2167
 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: 4 MB I+D on chip per chip

Continued on next page

Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64) SP1, Kernel 2.6.16.46-0.12-smpp
 Compiler: Intel C++ and Fortran Compiler for Linux32 and Linux64 version 10.1 Build 20070913 Package ID: l_cc_p_10.1.008, l_fc_p_10.1.008
 Auto Parallel: Yes
 File System: ext2

Continued on next page



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L3 Cache: None
Other Cache: None
Memory: 4 GB (2x2 GB PC2-3200R, 2 rank, CL3-3-3, ECC)
Disk Subsystem: 1x73.2 GB SAS, 10000RPM
Other Hardware: None

System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 32/64-bit
Other Software: binutils-2.17.tar.gz, Version 2.17

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1933	14.1	1866	14.6	<u>1867</u>	<u>14.6</u>	2	1892	14.4	<u>1892</u>	<u>14.4</u>	1897	14.3
416.gamess	2	<u>1284</u>	<u>30.5</u>	1283	30.5	1284	30.5	2	1267	30.9	1263	31.0	<u>1264</u>	<u>31.0</u>
433.milc	2	1930	9.51	1917	9.58	<u>1921</u>	<u>9.56</u>	2	1901	9.66	1904	9.64	<u>1902</u>	<u>9.65</u>
434.zeusmp	2	<u>944</u>	<u>19.3</u>	938	19.4	952	19.1	2	938	19.4	939	19.4	<u>939</u>	<u>19.4</u>
435.gromacs	2	<u>543</u>	<u>26.3</u>	546	26.1	543	26.3	2	535	26.7	<u>534</u>	<u>26.7</u>	534	26.7
436.cactusADM	2	1039	23.0	1039	23.0	<u>1039</u>	<u>23.0</u>	1	510	23.5	<u>510</u>	<u>23.4</u>	510	23.4
437.leslie3d	2	2159	8.71	2118	8.88	<u>2138</u>	<u>8.79</u>	2	<u>1951</u>	<u>9.63</u>	1952	9.63	1950	9.64
444.namd	2	699	22.9	699	22.9	<u>699</u>	<u>22.9</u>	2	<u>694</u>	<u>23.1</u>	694	23.1	694	23.1
447.dealII	2	663	34.5	667	34.3	<u>665</u>	<u>34.4</u>	2	<u>626</u>	<u>36.6</u>	622	36.8	626	36.5
450.soplex	2	1494	11.2	<u>1498</u>	<u>11.1</u>	1500	11.1	2	<u>1320</u>	<u>12.6</u>	1318	12.7	1328	12.6
453.povray	2	<u>303</u>	<u>35.1</u>	304	35.0	303	35.1	2	259	41.1	<u>260</u>	<u>41.0</u>	260	41.0
454.calculix	2	<u>756</u>	<u>21.8</u>	756	21.8	756	21.8	2	536	30.8	<u>537</u>	<u>30.7</u>	538	30.7
459.GemsFDTD	2	2732	7.77	<u>2756</u>	<u>7.70</u>	2761	7.69	2	2644	8.03	2675	7.93	<u>2667</u>	<u>7.96</u>
465.tonto	2	1000	19.7	915	21.5	<u>955</u>	<u>20.6</u>	2	986	20.0	<u>927</u>	<u>21.2</u>	896	22.0
470.lbm	2	3741	7.35	<u>3721</u>	<u>7.38</u>	3718	7.39	2	3558	7.72	<u>3531</u>	<u>7.78</u>	3526	7.79
481.wrf	2	<u>1312</u>	<u>17.0</u>	1311	17.0	1312	17.0	2	<u>1306</u>	<u>17.1</u>	1301	17.2	1313	17.0
482.sphinx3	2	2094	18.6	<u>2147</u>	<u>18.2</u>	2156	18.1	2	2101	18.6	<u>2009</u>	<u>19.4</u>	2009	19.4

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

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs
OMP_NUM_THREADS set to number of cores

General Notes

All benchmarks compiled in 64-bit mode except 437.leslie3d, 450.soplex, 470.lbm and 482.sphinx3, for peak, are compiled in 32-bit mode



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Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

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:

-fast

C++ benchmarks:

-fast

Fortran benchmarks:

-fast

Benchmarks using both Fortran and C:

-fast



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Peak Compiler Invocation

C benchmarks (except as noted below):

```
/opt/intel/cc/10.1.008/bin/icc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

433.milc: icc

C++ benchmarks (except as noted below):

icpc

```
450.soplex: /opt/intel/cc/10.1.008/bin/icpc -L/opt/intel/cc/10.1.008/lib  
-I/opt/intel/cc/10.1.008/include
```

Fortran benchmarks (except as noted below):

ifort

```
437.leslie3d: /opt/intel/fc/10.1.008/bin/ifort -L/opt/intel/fc/10.1.008/lib  
-I/opt/intel/fc/10.1.008/include
```

Benchmarks using both Fortran and C:

icc ifort

Peak 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  
444.namd: -DSPEC_CPU_LP64  
447.deallI: -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  
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
```

Peak Optimization Flags

C benchmarks:

```
433.milc: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias  
-auto-ilp32
```

```
470.lbm: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2  
-scalar-rep- -prefetch -opt-malloc-options=3
```

Continued on next page



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Peak Optimization Flags (Continued)

482.sphinx3: -fast -unroll2

C++ benchmarks:

444.namd: -prof-gen(pass 1) -prof-use(pass 2) -fast -fno-alias
-auto-ilp32

447.dealIII: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-ansi-alias -scalar-rep-

450.soplex: -prof-gen(pass 1) -prof-use(pass 2) -fast
-opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4
-ansi-alias

Fortran benchmarks:

410.bwaves: -fast -prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0
-ansi-alias -scalar-rep-

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -fast

437.leslie3d: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-opt-malloc-options=3

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2 -Ob0
-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -fast -prefetch
-auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -fast -unroll2
-prefetch -parallel -auto-ilp32

454.calculix: -fast -unroll-aggressive -auto-ilp32

481.wrf: -fast -auto-ilp32

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

<http://www.spec.org/cpu2006/flags/NEC-Intel-ic10.1-FP-intel64-linux-flags.20090713.html>



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

<http://www.spec.org/cpu2006/flags/NEC-Intel-ic10.1-FP-intel64-linux-flags.20090713.xml>

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