



SPEC[®] CFP2006 Result

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NEC Corporation

Express5800/110Rh-1
(Intel Xeon processor 3060)

SPECfp[®]_rate2006 = 24.4

SPECfp_rate_base2006 = 23.7

CPU2006 license: 9006

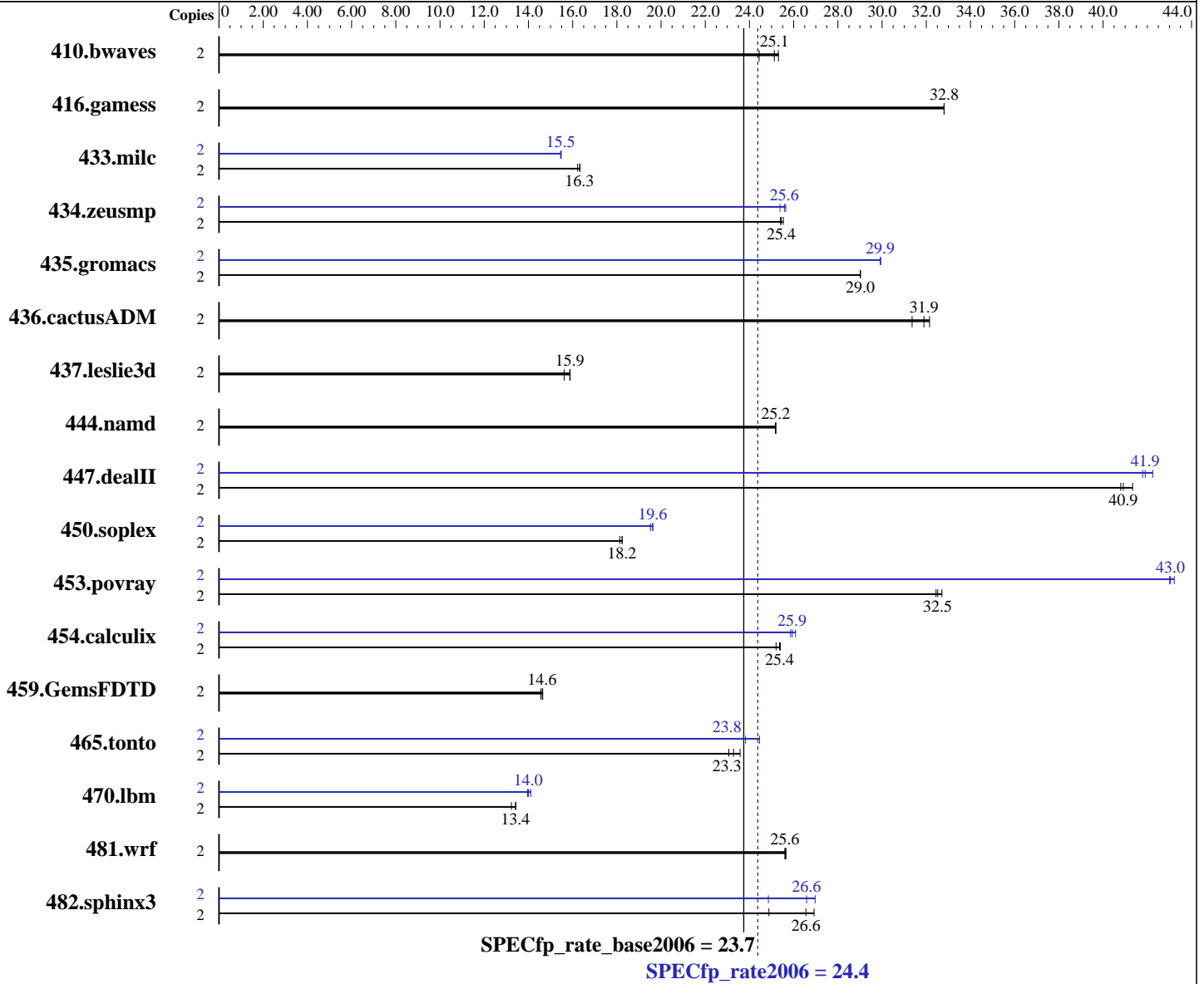
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: Nov-2007

Hardware Availability: Nov-2006

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 3060
 CPU Characteristics: 2.40 GHz, 4 MB L2, 1066 MHz bus
 CPU MHz: 2400
 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

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Software

Operating System: SUSE Linux Enterprise Server 10 (x86_64),
Kernel 2.6.16.21-0.8-smpp
 Compiler: Intel C++ Compiler for Linux32 and Linux64
version 9.1 Build 20070320 Package ID:
l_cc_c_9.1.049
Intel Fortran Compiler for Linux32 and Linux64
version 9.1 Build 20070320 Package ID:
l_fc_c_9.1.045
 Auto Parallel: No

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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

File System: ext2
System State: Multiuser, Runlevel 3
Base Pointers: 64-bit
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	2	1112	24.4	1082	25.1	1074	25.3	2	1112	24.4	1082	25.1	1074	25.3
416.gamess	2	1194	32.8	1194	32.8	1194	32.8	2	1194	32.8	1194	32.8	1194	32.8
433.milc	2	1132	16.2	1125	16.3	1124	16.3	2	1186	15.5	1188	15.5	1188	15.5
434.zeusmp	2	715	25.4	716	25.4	713	25.5	2	710	25.6	717	25.4	712	25.6
435.gromacs	2	492	29.0	492	29.0	492	29.0	2	477	29.9	477	29.9	477	29.9
436.cactusADM	2	762	31.4	749	31.9	743	32.1	2	762	31.4	749	31.9	743	32.1
437.leslie3d	2	1204	15.6	1185	15.9	1183	15.9	2	1204	15.6	1185	15.9	1183	15.9
444.namd	2	637	25.2	637	25.2	637	25.2	2	637	25.2	637	25.2	637	25.2
447.dealII	2	559	40.9	561	40.8	554	41.3	2	546	41.9	547	41.8	542	42.2
450.soplex	2	920	18.1	914	18.2	915	18.2	2	850	19.6	855	19.5	850	19.6
453.povray	2	325	32.7	328	32.4	327	32.5	2	247	43.0	246	43.2	247	43.0
454.calculix	2	655	25.2	651	25.4	650	25.4	2	633	26.1	638	25.9	636	25.9
459.GemsFDTD	2	1458	14.6	1449	14.6	1451	14.6	2	1458	14.6	1449	14.6	1451	14.6
465.tonto	2	853	23.1	835	23.6	845	23.3	2	829	23.7	826	23.8	805	24.5
470.lbm	2	2077	13.2	2046	13.4	2049	13.4	2	1963	14.0	1968	14.0	1948	14.1
481.wrf	2	872	25.6	872	25.6	871	25.7	2	872	25.6	872	25.6	871	25.7
482.sphinx3	2	1567	24.9	1448	26.9	1468	26.6	2	1466	26.6	1568	24.9	1445	27.0

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

General Notes

The system bus runs at 1066 MHz
All binaries were built with 64-bit Intel compiler except:
433.milc, 434.zeusmp, 450.soplex, 470.lbm and 482.sphinx3 in peak were built with
32-bit Intel compiler by changing the path for include and library files.



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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:

```
/opt/intel/cc/9.1.049/bin/icc -I/opt/intel/cc/9.1.049/include  
-L/opt/intel/cc/9.1.049/lib
```

C++ benchmarks (except as noted below):

icpc

```
450.soplex: /opt/intel/cc/9.1.049/bin/icpc  
-I/opt/intel/cc/9.1.049/include -L/opt/intel/cc/9.1.049/lib
```

Fortran benchmarks (except as noted below):

ifort

```
434.zeusmp: /opt/intel/fc/9.1.045/bin/ifort  
-I/opt/intel/fc/9.1.045/include -L/opt/intel/fc/9.1.045/lib
```

Benchmarks using both Fortran and C:

icc ifort

Peak Portability Flags

```
410.bwaves: -DSPEC_CPU_LP64  
416.gamess: -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.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
```

```
470.lbm: Same as 433.milc
```

```
482.sphinx3: -fast
```

C++ benchmarks:

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Peak Optimization Flags (Continued)

444.namd: basepeak = yes

447.dealII: -prof_gen(pass 1) -prof_use(pass 2) -fast

450.soplex: Same as 447.dealII

453.povray: Same as 447.dealII

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: basepeak = yes

434.zeusmp: -fast

437.leslie3d: basepeak = yes

459.GemsFDTD: basepeak = yes

465.tonto: -prof_gen(pass 1) -prof_use(pass 2) -fast

Benchmarks using both Fortran and C:

435.gromacs: -prof_gen(pass 1) -prof_use(pass 2) -fast

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-linux-flags.html>

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

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

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For other inquiries, please contact webmaster@spec.org.

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