SPEC® CFP2006 Result

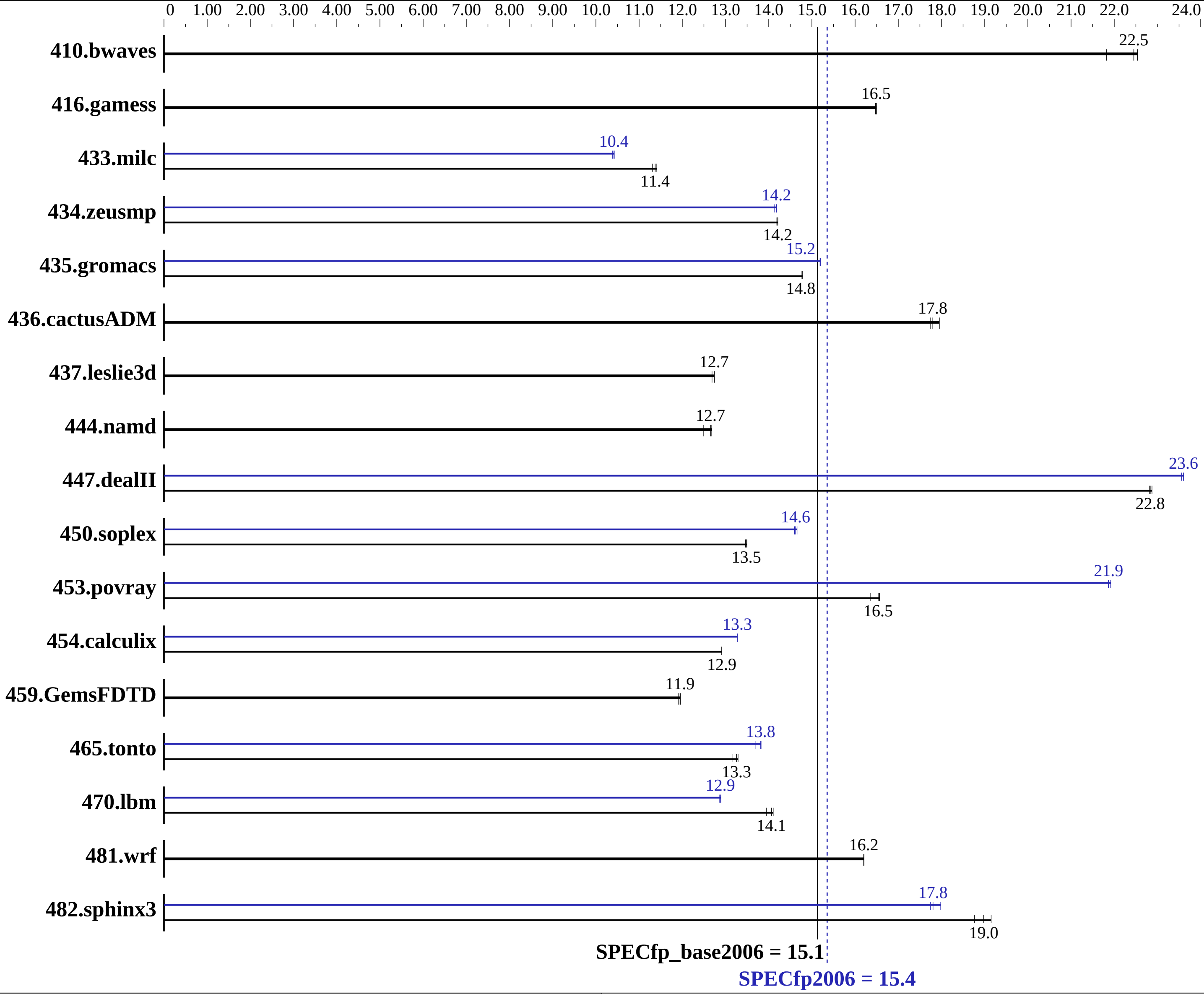
NEC Corporation

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

SPECfp®2006 = 15.4

SPECfp_base2006 = 15.1

CPU2006 license:	9006	**Test date:**	Nov-2007
Test sponsor:	NEC Corporation	**Hardware Availability:**	Nov-2006
Tested by:	NEC Corporation	**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-smp
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	File System:	ext2
Other Cache:	None	System State:	Multiuser, Runlevel 3
Memory:	4 GB (4x1 GB PC2-5300E, 2 rank, CL5-5-5, ECC)	Base Pointers:	64-bit
Disk Subsystem:	1x80 GB SATAII, 7200RPM	Peak Pointers:	32/64-bit
Other Hardware:	None	Other Software:	None

Results Table

	Base						Peak					
Benchmark	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**	**Seconds**	**Ratio**
410.bwaves	623	21.8	**605**	**22.5**	603	22.5	623	21.8	**605**	**22.5**	603	22.5
416.gamess	1189	16.5	1187	16.5	**1188**	**16.5**	1189	16.5	1187	16.5	**1188**	**16.5**
433.milc	811	11.3	**807**	**11.4**	805	11.4	884	10.4	**881**	**10.4**	881	10.4
434.zeusmp	642	14.2	640	14.2	**640**	**14.2**	642	14.2	**642**	**14.2**	644	14.1
435.gromacs	**483**	**14.8**	483	14.8	483	14.8	**470**	**15.2**	470	15.2	470	15.2
436.cactusADM	666	18.0	674	17.7	**671**	**17.8**	666	18.0	674	17.7	**671**	**17.8**
437.leslie3d	741	12.7	**738**	**12.7**	738	12.7	741	12.7	**738**	**12.7**	738	12.7
444.namd	**634**	**12.7**	642	12.5	632	12.7	**634**	**12.7**	642	12.5	632	12.7
447.dealII	500	22.9	501	22.8	**501**	**22.8**	486	23.6	485	23.6	**485**	**23.6**
450.soplex	620	13.5	618	13.5	**619**	**13.5**	571	14.6	**570**	**14.6**	569	14.7
453.povray	321	16.6	325	16.3	**322**	**16.5**	243	21.9	243	21.9	**243**	**21.9**
454.calculix	639	12.9	**639**	**12.9**	639	12.9	622	13.3	**622**	**13.3**	621	13.3
459.GemsFDTD	891	11.9	**888**	**11.9**	887	12.0	891	11.9	**888**	**11.9**	887	12.0
465.tonto	748	13.2	740	13.3	**742**	**13.3**	712	13.8	**712**	**13.8**	718	13.7
470.lbm	985	14.0	974	14.1	**977**	**14.1**	1068	12.9	**1067**	**12.9**	1066	12.9
481.wrf	690	16.2	689	16.2	**689**	**16.2**	690	16.2	689	16.2	**689**	**16.2**
482.sphinx3	1039	18.8	1018	19.2	**1027**	**19.0**	1098	17.7	**1095**	**17.8**	1084	18.0

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
```

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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Test date: Nov-2007
Hardware Availability: Nov-2006
Software Availability: Apr-2007

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.dealII: -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:

Continued on next page

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

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

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