



SPEC® CFP2006 Result

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NTT System S. A.
NTT Business W 986G

SPECfp®_rate2006 = 31.9
SPECfp_rate_base2006 = 30.8

CPU2006 license: 9013

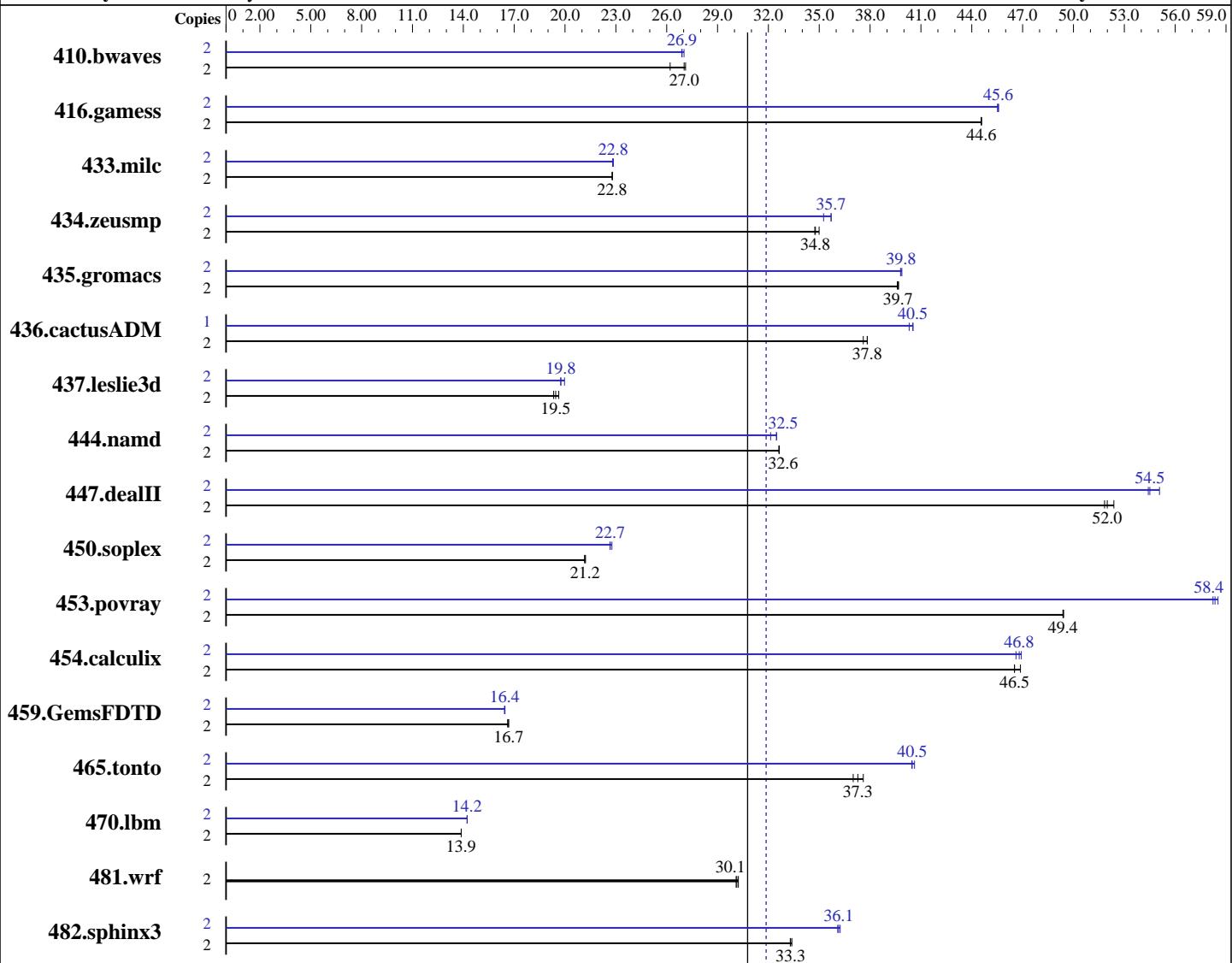
Test sponsor: NTT System S. A.

Tested by: NTT System S. A.

Test date: Nov-2008

Hardware Availability: Nov-2008

Software Availability: Nov-2008



Hardware

CPU Name: Intel Core 2 Duo E8400
CPU Characteristics:
CPU MHz: 3000
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: 6 MB I+D on chip per chip

Software

Operating System: SuSe Linux SLES10 SP1, Kernel 2.6.16.60-0.21-smp
Compiler: Intel C++ and Fortran Compiler 11.0 for Linux Build 20080930 Package ID: l_cproc_p_11.0.066, l_cprof_p_11.0.066
Auto Parallel: Yes
File System: ReiserFS
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 32/64-bit

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L3 Cache: None
Other Cache: None
Memory: 4 GB (4x1GB)
Disk Subsystem: 250 GB SATA, 7200RPM
Other Hardware: None

Other Software: Microquill SmartHeap V8.1
Binutils 2.18.50.0.7.20080502

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	2	1037	26.2	1002	27.1	1006	27.0	2	1011	26.9	1010	26.9	1006	27.0
416.gamess	2	879	44.5	879	44.6	879	44.6	2	859	45.6	860	45.5	859	45.6
433.milc	2	806	22.8	806	22.8	805	22.8	2	805	22.8	804	22.8	804	22.8
434.zeusmp	2	524	34.7	523	34.8	520	35.0	2	510	35.7	510	35.7	516	35.3
435.gromacs	2	360	39.7	360	39.7	361	39.6	2	359	39.8	358	39.9	359	39.8
436.cactusADM	2	636	37.6	632	37.8	632	37.8	1	296	40.3	295	40.5	295	40.5
437.leslie3d	2	967	19.5	958	19.6	973	19.3	2	952	19.7	952	19.8	941	20.0
444.namd	2	491	32.6	492	32.6	491	32.6	2	499	32.1	494	32.5	494	32.5
447.dealII	2	440	52.0	441	51.8	437	52.4	2	415	55.1	420	54.4	420	54.5
450.soplex	2	788	21.2	786	21.2	789	21.2	2	736	22.7	733	22.8	736	22.7
453.povray	2	215	49.4	215	49.4	215	49.4	2	182	58.4	182	58.5	183	58.2
454.calculix	2	355	46.5	355	46.5	352	46.9	2	354	46.6	353	46.8	352	46.9
459.GemsFDTD	2	1277	16.6	1273	16.7	1273	16.7	2	1291	16.4	1291	16.4	1289	16.5
465.tonto	2	528	37.3	532	37.0	523	37.6	2	484	40.6	486	40.5	486	40.5
470.lbm	2	1980	13.9	1980	13.9	1980	13.9	2	1933	14.2	1931	14.2	1931	14.2
481.wrf	2	741	30.1	739	30.2	742	30.1	2	741	30.1	739	30.2	742	30.1
482.sphinx3	2	1170	33.3	1168	33.4	1171	33.3	2	1078	36.1	1080	36.1	1076	36.2

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

Submit Notes

The config file option 'submit' was used.
taskset was used to bind processes to cores except for 436.cactusADM peak
OMP_NUM_THREADS set to number of processors
KMP_AFFINITY set to "physical,0"
KMP_STACKSIZE set to 64M

Base Compiler Invocation

C benchmarks:
icc

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Base Compiler Invocation (Continued)

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort

Base Portability Flags

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

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

C++ benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

Fortran benchmarks:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

Benchmarks using both Fortran and C:

-xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch



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Peak Compiler Invocation

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

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.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
  470.lbm: -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) -xSSE4.1 -ipo -O3
           -no-prec-div -static -fno-alias

  470.lbm: -xSSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch
           -auto-ilp32

  482.sphinx3: -m32 -xSSE4.1 -ipo -O3 -no-prec-div -static -unroll2
```

C++ benchmarks:

```
444.namd: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
           -no-prec-div -static -fno-alias -auto-ilp32
```

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Peak Optimization Flags (Continued)

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll2 -ansi-alias -scalar-rep

450.soplex: -m32 -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo
-O3 -no-prec-div -static -opt-malloc-options=3

453.povray: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll4 -ansi-alias

Fortran benchmarks:

410.bwaves: -xsSE4.1 -ipo -O3 -no-prec-div -static -opt-prefetch

416.gamess: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll2 -Ob0 -ansi-alias
-scalar-rep

434.zeusmp: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static

437.leslie3d: -m32 -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo
-O3 -no-prec-div -static -opt-malloc-options=3
-opt-prefetch

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll2 -Ob0 -opt-prefetch

465.tonto: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll4 -auto

Benchmarks using both Fortran and C:

435.gromacs: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -opt-prefetch -auto-ilp32

436.cactusADM: -prof-gen(pass 1) -prof-use(pass 2) -xsSE4.1 -ipo -O3
-no-prec-div -static -unroll2 -opt-prefetch -parallel
-auto-ilp32

454.calculix: -xsSE4.1 -ipo -O3 -no-prec-div -static -auto-ilp32

481.wrf: basepeak = yes

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.html>

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.06.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2006/flags/Intel-Linux64-Platform.20090710.xml>

<http://www.spec.org/cpu2006/flags/Intel-ic11.0-fp-linux64-revA.20090710.06.xml>



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

Tested with SPEC CPU2006 v1.1.

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