



SPEC® CFP2006 Result

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NTT System S. A.
NTT Business W 986G

SPECfp®2006 = 22.3

SPECfp_base2006 = 21.5

CPU2006 license: 9013

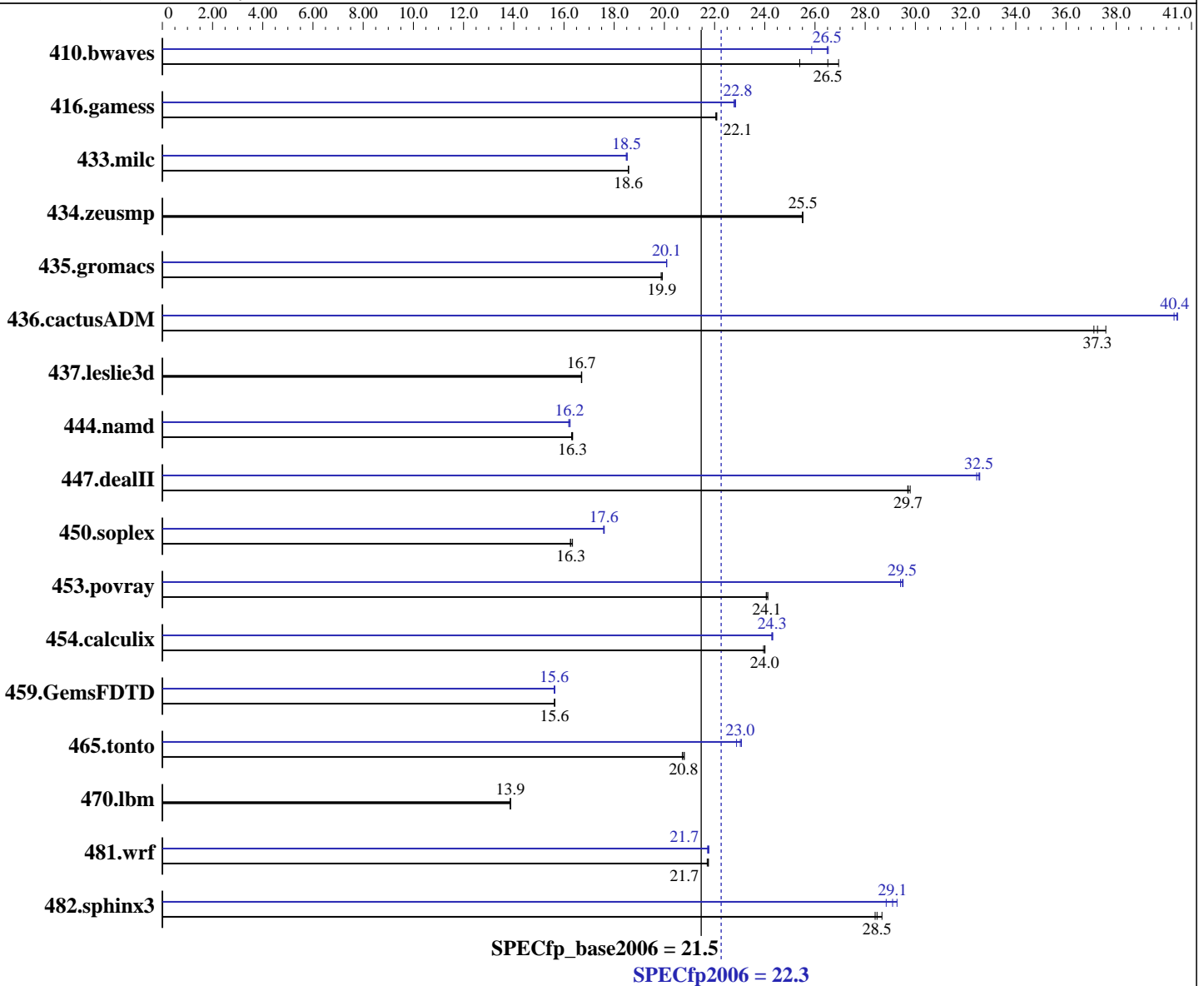
Test sponsor: NTT System S. A.

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

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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 | | | | | |
|---------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 410.bwaves | 535 | 25.4 | 504 | 26.9 | 513 | 26.5 | 512 | 26.5 | 513 | 26.5 | 525 | 25.9 |
| 416.gamess | 887 | 22.1 | 887 | 22.1 | 888 | 22.0 | 857 | 22.8 | 858 | 22.8 | 860 | 22.8 |
| 433.milc | 495 | 18.6 | 494 | 18.6 | 494 | 18.6 | 496 | 18.5 | 497 | 18.5 | 496 | 18.5 |
| 434.zeusmp | 357 | 25.5 | 357 | 25.5 | 357 | 25.5 | 357 | 25.5 | 357 | 25.5 | 357 | 25.5 |
| 435.gromacs | 359 | 19.9 | 358 | 19.9 | 359 | 19.9 | 355 | 20.1 | 355 | 20.1 | 355 | 20.1 |
| 436.cactusADM | 321 | 37.3 | 318 | 37.6 | 322 | 37.1 | 296 | 40.4 | 296 | 40.3 | 295 | 40.4 |
| 437.leslie3d | 563 | 16.7 | 563 | 16.7 | 563 | 16.7 | 563 | 16.7 | 563 | 16.7 | 563 | 16.7 |
| 444.namd | 491 | 16.3 | 491 | 16.3 | 492 | 16.3 | 494 | 16.2 | 494 | 16.2 | 495 | 16.2 |
| 447.dealII | 385 | 29.7 | 384 | 29.8 | 385 | 29.7 | 351 | 32.6 | 352 | 32.5 | 353 | 32.4 |
| 450.soplex | 512 | 16.3 | 510 | 16.3 | 513 | 16.3 | 474 | 17.6 | 474 | 17.6 | 474 | 17.6 |
| 453.povray | 221 | 24.1 | 221 | 24.1 | 221 | 24.1 | 180 | 29.5 | 181 | 29.4 | 180 | 29.5 |
| 454.calculix | 344 | 24.0 | 344 | 24.0 | 344 | 24.0 | 340 | 24.3 | 339 | 24.3 | 340 | 24.3 |
| 459.GemsFDTD | 679 | 15.6 | 679 | 15.6 | 679 | 15.6 | 680 | 15.6 | 679 | 15.6 | 680 | 15.6 |
| 465.tonto | 474 | 20.8 | 475 | 20.7 | 473 | 20.8 | 427 | 23.0 | 430 | 22.9 | 427 | 23.1 |
| 470.lbm | 991 | 13.9 | 991 | 13.9 | 991 | 13.9 | 991 | 13.9 | 991 | 13.9 | 991 | 13.9 |
| 481.wrf | 514 | 21.7 | 513 | 21.8 | 515 | 21.7 | 514 | 21.7 | 513 | 21.8 | 514 | 21.7 |
| 482.sphinx3 | 680 | 28.7 | 686 | 28.4 | 685 | 28.5 | 676 | 28.8 | 666 | 29.3 | 670 | 29.1 |

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

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

Fortran benchmarks:

ifort

Benchmarks using both Fortran and C:

icc ifort



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Software Availability: Nov-2008

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.deall: -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 -parallel -opt-prefetch

C++ benchmarks:
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Fortran benchmarks:
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

Benchmarks using both Fortran and C:
-xSSE4.1 -ipo -O3 -no-prec-div -static -parallel -opt-prefetch

```

Peak Compiler Invocation

```

C benchmarks:
icc

C++ benchmarks:
icpc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

```



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Tested by: NTT System S. A.

Software Availability: Nov-2008

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
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
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: basepeak = yes

```

```

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

```

```

447.dealII: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
           -no-prec-div -static -unroll2 -ansi-alias -scalar-rep-
           -opt-prefetch

```

```

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
           -parallel

```

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| | | |
|---|--------------------------|-------------|
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|---------------------------------------|--|
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| Tested by: NTT System S. A. | Software Availability: Nov-2008 |

Peak Optimization Flags (Continued)

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: basepeak = yes

437.leslie3d: basepeak = yes

459.GemsFDTD: -prof-gen(pass 1) -prof-use(pass 2) -xSSE4.1 -ipo -O3
 -no-prec-div -static -unroll2 -Ob0 -opt-prefetch
 -parallel

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

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

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