

SPEC® CFP2006 Result

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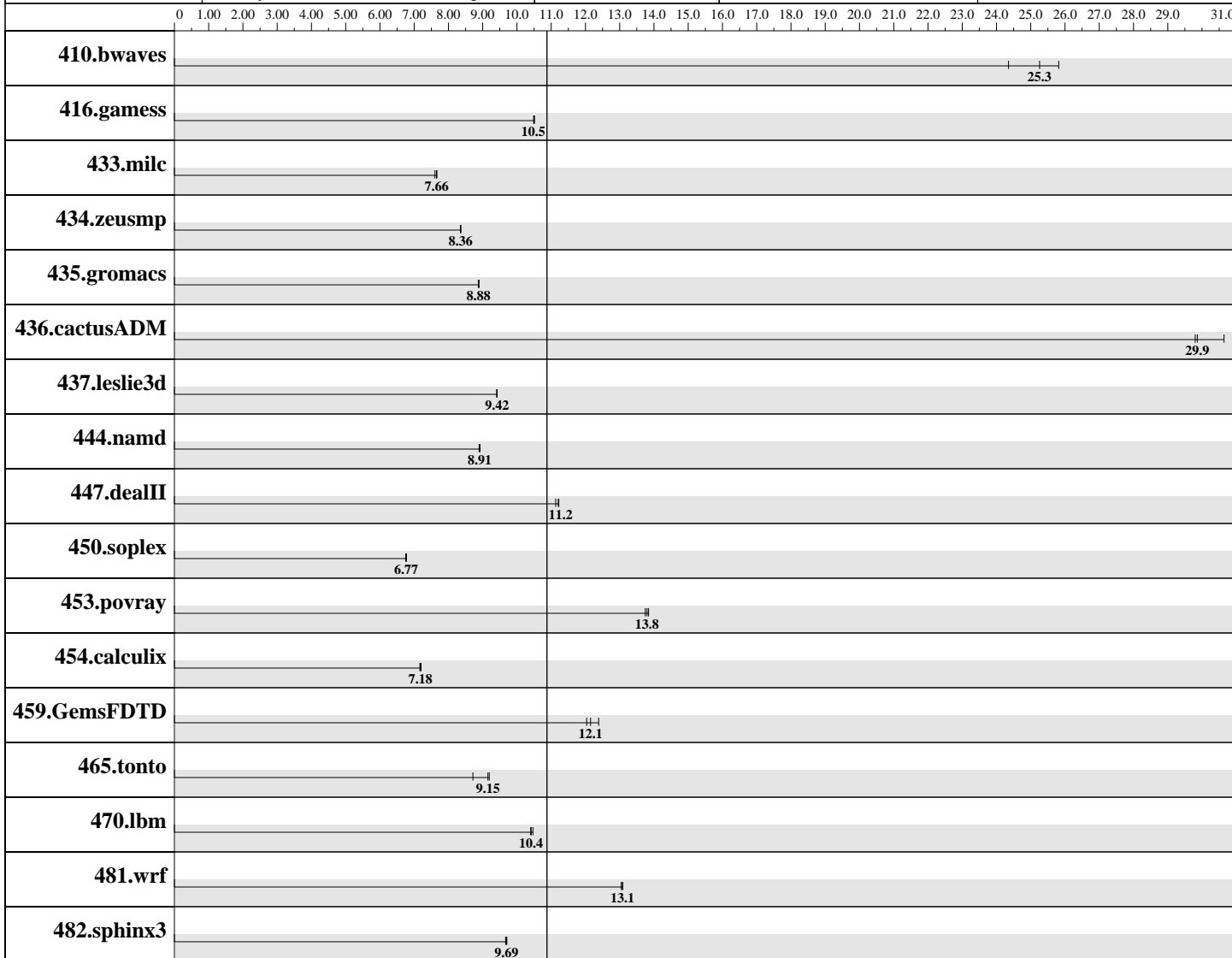
Dual Core AMD Opteron 270 (4 nucleos)

SPECfp®2006 = **Not Run**

Dual Core AMD Opteron 270

SPECfp_base2006 = **10.9**

CPU2006 license #: 2433 | Test sponsor: DPT Comp.Sciences, Univ.Valladolid | Test date: Nov-2007 | Hardware Availability: Oct-2007 | Software Availability: Oct-2007
 Tested by: Sergio Aldea



SPECfp_base2006 = 10.9

Hardware

CPU Name: x86_64 Dual Core AMD Opteron 270 AuthenticAMD
 CPU Characteristics: 2 GHz, 1066 MHz bus
 CPU MHz: 1993
 FPU: Integrated
 CPU(s) enabled: 4 cores, 1 chip, 2 cores/chip
 CPU(s) orderable: 1 chip
 Primary Cache: 64 KB I + 64 KB D on chip per core
 Secondary Cache: 1 MB I+D on chip per core
 L3 Cache: None
 Other Cache: None

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Software

Operating System: Gentoo Base System release 1.12.9
 Compiler: gcc , g++ & gfortran 4.1.2 (Gentoo 4.1.2 p1.0.1)
 Auto Parallel: Yes
 File System: ext3
 System State: runlevel 3
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other Software: None

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Hardware (Continued)

Memory: 4 GB
 Disk Subsystem:
 Other Hardware: --

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	526	25.8	538	25.3	558	24.4						
416.gamess	1860	10.5	1860	10.5	1870	10.5						
433.milc	1200	7.66	1200	7.66	1210	7.61						
434.zeusmp	1090	8.36	1090	8.36	1090	8.35						
435.gromacs	804	8.88	804	8.88	803	8.89						
436.cactusADM	390	30.6	400	29.9	401	29.8						
437.leslie3d	999	9.41	998	9.42	998	9.42						
444.namd	902	8.90	899	8.92	900	8.91						
447.dealII	1020	11.2	1020	11.2	1030	11.1						
450.soplex	1230	6.77	1230	6.75	1230	6.77						
453.povray	387	13.7	384	13.8	386	13.8						
454.calculix	1150	7.18	1150	7.20	1150	7.17						
459.GemsFDTD	873	12.1	882	12.0	857	12.4						
465.tonto	1070	9.19	1130	8.71	1080	9.15						
470.lbm	1310	10.5	1320	10.4	1320	10.4						
481.wrf	856	13.0	854	13.1	853	13.1						
482.sphinx3	2010	9.69	2020	9.67	2010	9.70						

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

General Notes

PORTABILITY=-DSPEC_CPU_LP64 is applied to all benchmarks in base.
 C base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops -parallel
 C++ base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops -parallel
 Fortran base flags: -O3 -ipo -xW -no-prec-div -axW -funroll-all-loops -parallel
 wrf_data_header_size=4 for Intel Compiler

Base Compiler Invocation

C benchmarks:
 icc

C++ benchmarks:
 icpc

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Base Compiler Invocation (Continued)

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
icc ifort

Base Portability Flags

C benchmarks:

-DSPEC_CPU_LP64

C++ benchmarks (except as noted below):

-DSPEC_CPU_LP64

453.povray: -DSPEC_CPU_LP64

Fortran benchmarks:

-DSPEC_CPU_LP64

Benchmarks using both Fortran and C (except as noted below):

-DSPEC_CPU_LP64

436.cactusADM: -DSPEC_CPU_LP64

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX -DSPEC_CPU_CASE_FLAG

Base Optimization Flags

C benchmarks:

-O3 -ipo -parallel -no-prec-div -funroll-all-loops -axW -xW

C++ benchmarks:

-O3 -ipo -parallel -no-prec-div -funroll-all-loops -axW -xW

Fortran benchmarks:

-O3 -ipo -parallel -no-prec-div -funroll-all-loops -axW -xW

Benchmarks using both Fortran and C (except as noted below):

-O3 -ipo -parallel -no-prec-div -funroll-all-loops -axW -xW
-nofor-main(*)

481.wrf: -O3 -ipo -parallel -no-prec-div -funroll-all-loops -axW
-xW

(*) Indicates an optimization flag that was found in a portability variable.

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Base Other Flags

C benchmarks:

No flags used

C++ benchmarks:

No flags used

Fortran benchmarks:

No flags used

Benchmarks using both Fortran and C:

No flags used

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