

SPEC[®] CFP2006 Result

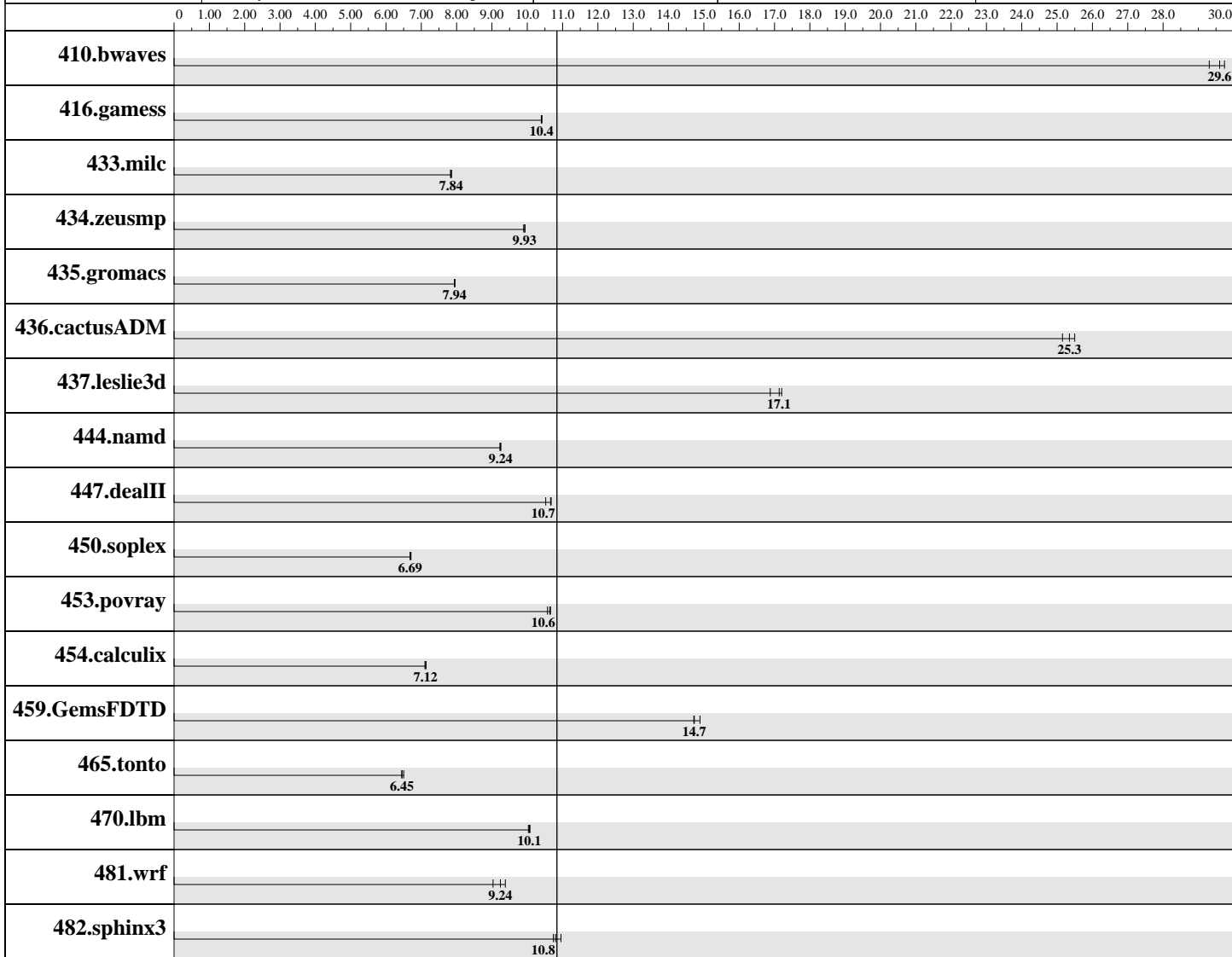
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Dual Core AMD Opteron 270 (4 nucleos)
Dual Core AMD Opteron 270

SPECfp[®]2006 = Not Run

SPECfp_base2006 = 10.8

CPU2006 license #: 2433 | Test sponsor: DPT Comp.Sciences, Univ.Valladolid | Test date: Feb-2008 | Hardware Availability: Oct-2007 | Software Availability: Feb-2008
Tested by: Sergio Aldea



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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: Sun C 5.9 Linux_i386 Patch 124871-01
 Sun C++ 5.9 Linux_i386 Patch 124865-01
 Sun Fortran 95 8.3 Linux_i386 Patch 127145-01
 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	<u>459</u>	<u>29.6</u>	464	29.3	457	29.7						
416.gamess	1880	10.4	1880	10.4	<u>1880</u>	<u>10.4</u>						
433.milc	<u>1170</u>	<u>7.84</u>	1170	7.86	1170	7.83						
434.zeusmp	919	9.90	<u>917</u>	<u>9.93</u>	916	9.94						
435.gromacs	899	7.94	<u>899</u>	<u>7.94</u>	898	7.95						
436.cactusADM	475	25.2	<u>471</u>	<u>25.3</u>	469	25.5						
437.leslie3d	557	16.9	<u>549</u>	<u>17.1</u>	546	17.2						
444.namd	867	9.25	<u>868</u>	<u>9.24</u>	869	9.23						
447.dealII	1070	10.7	<u>1070</u>	<u>10.7</u>	1090	10.5						
450.soplex	1250	6.68	1240	6.71	<u>1250</u>	<u>6.69</u>						
453.povray	503	10.6	499	10.7	<u>500</u>	<u>10.6</u>						
454.calculix	1160	7.13	1160	7.10	<u>1160</u>	<u>7.12</u>						
459.GemsFDTD	713	14.9	721	14.7	<u>720</u>	<u>14.7</u>						
465.tonto	<u>1520</u>	<u>6.45</u>	1530	6.45	1510	6.50						
470.lbm	1370	10.0	1360	10.1	<u>1370</u>	<u>10.1</u>						
481.wrf	1190	9.38	1240	9.03	<u>1210</u>	<u>9.24</u>						
482.sphinx3	1780	11.0	1820	10.7	<u>1800</u>	<u>10.8</u>						

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: -fast -xarch=sse3 -m64 -xautopar -xreduction
 C++ base flags: -fast -xarch=sse3 -m64 -library=stlport4 (except for 453.povray) -xautopar -xreduction
 Fortran base flags: -fast -xarch=sse3 -m64 -xautopar -xreduction
 wrf_data_header_size=4

Base Compiler Invocation

C benchmarks:
 suncc

C++ benchmarks:
 CC

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Base Compiler Invocation (Continued)

Fortran benchmarks:

f90

Benchmarks using both Fortran and C:

suncc f90

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:

-fast -xarch=sse3 -xautopar -xreduction -m64

C++ benchmarks (except as noted below):

-fast -library=stlport4 -xarch=sse3 -xautopar -xreduction -m64

453.povray: -fast -xarch=sse3 -xautopar -xreduction -m64

Fortran benchmarks:

-fast -xarch=sse3 -xautopar -xreduction -m64

Benchmarks using both Fortran and C:

-fast(cc) -fast(f90) -xarch=sse3 -xautopar -xreduction -m64

Base Other Flags

C benchmarks:

No flags used

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Base Other Flags (Continued)

C++ benchmarks:

No flags used

Fortran benchmarks:

No flags used

Benchmarks using both Fortran and C:

No flags used

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