SPEC® CFP2006 Result

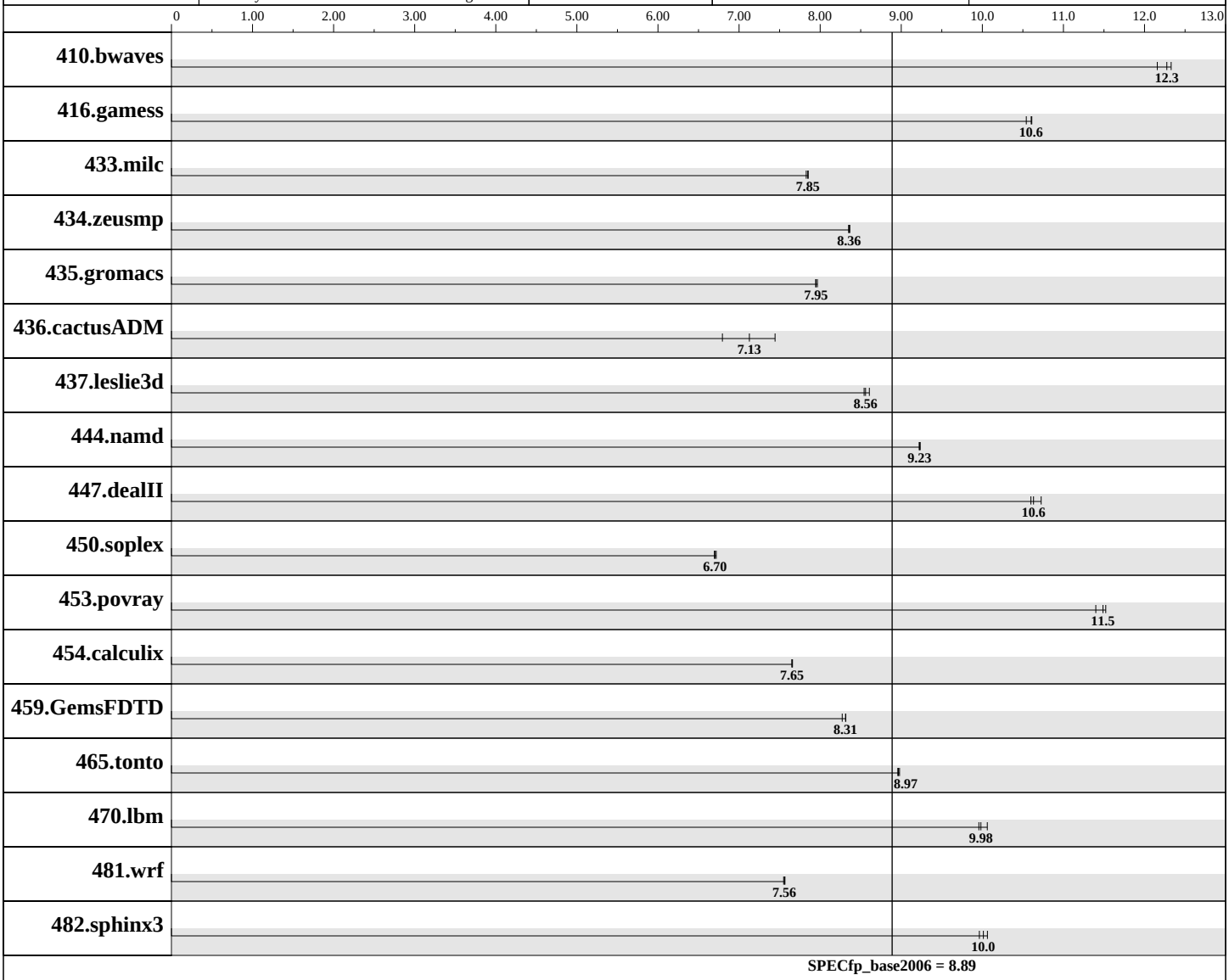
Dual Core AMD Opteron 270 (4 nucleos)

Dual Core AMD Opteron 270

SPECfp®2006 = Not Run

SPECfp_base2006 = 8.89

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



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	**1110**	**12.3**	1100	12.3	1120	12.2						
416.gamess	1850	10.6	**1850**	**10.6**	1860	10.5						
433.milc	**1170**	**7.85**	1170	7.85	1170	7.83						
434.zeusmp	**1090**	**8.36**	1090	8.37	1090	8.35						
435.gromacs	899	7.94	896	7.97	**898**	**7.95**						
436.cactusADM	1610	7.44	1760	6.79	**1680**	**7.13**						
437.leslie3d	**1100**	**8.56**	1090	8.61	1100	8.54						
444.namd	870	9.22	869	9.23	**869**	**9.23**						
447.dealII	1080	10.6	1070	10.7	**1080**	**10.6**						
450.soplex	1240	6.72	1250	6.70	**1240**	**6.70**						
453.povray	462	11.5	467	11.4	**463**	**11.5**						
454.calculix	**1080**	**7.65**	1080	7.66	1080	7.65						
459.GemsFDTD	1280	8.32	**1280**	**8.31**	1280	8.27						
465.tonto	**1100**	**8.97**	1100	8.98	1100	8.96						
470.lbm	**1380**	**9.98**	1370	10.1	1380	9.96						
481.wrf	**1480**	**7.56**	1480	7.55	1480	7.57						
482.sphinx3	1940	10.1	1960	9.96	**1950**	**10.0**						

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

C++ benchmarks (except as noted below):
-fast -library=stlport4 -xarch=sse3 -m64

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

Fortran benchmarks:
-fast -xarch=sse3 -m64

Benchmarks using both Fortran and C:
-fast(cc) -fast(f90) -xarch=sse3 -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
```