SPEC® CFP2006 Result

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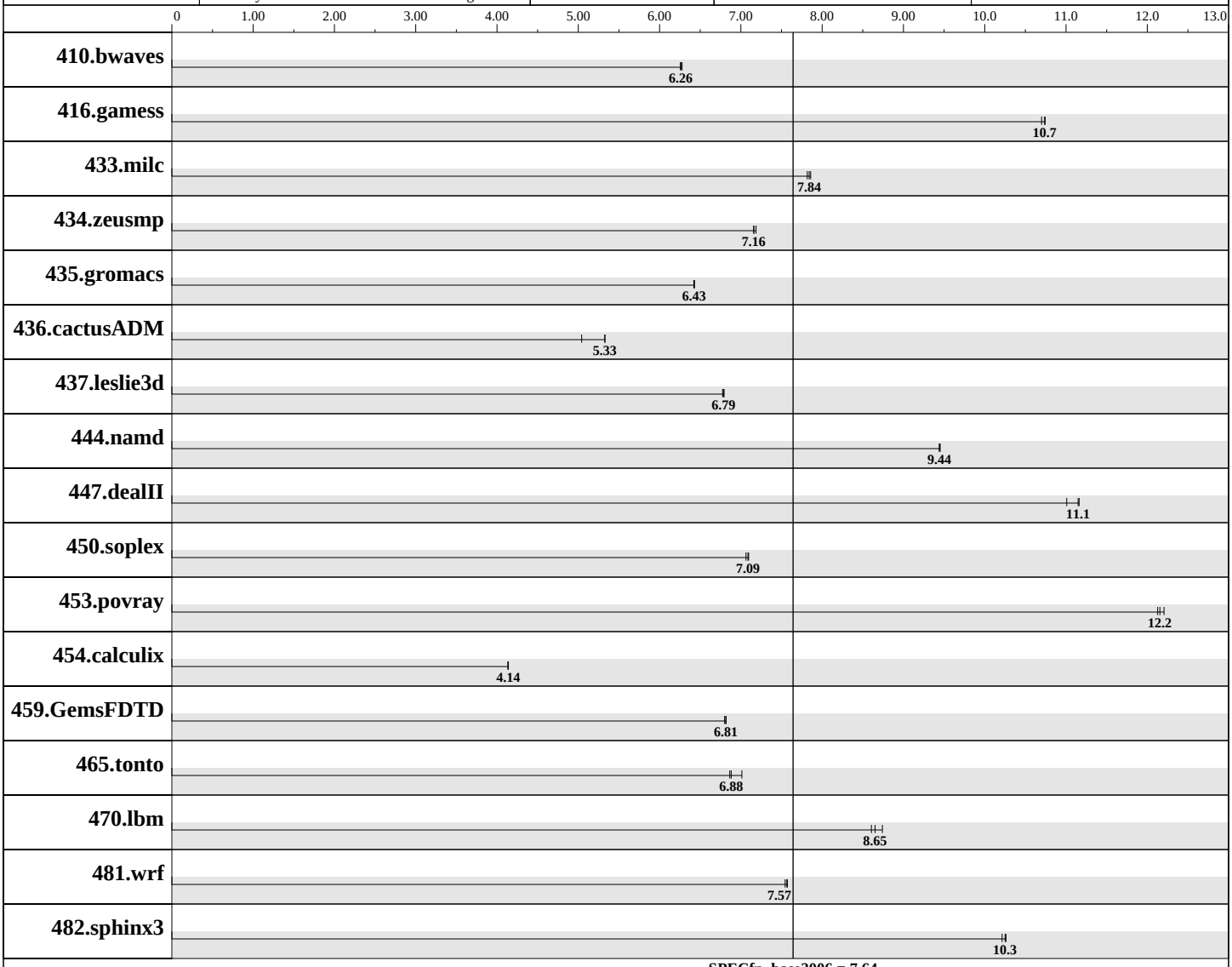
Dual Core AMD Opteron 270 (4 nucleos)

Dual Core AMD Opteron 270

SPECfp®2006 = Not Run

SPECfp_base2006 = 7.64

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



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:	No
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	2170	6.26	**2170**	**6.26**	2170	6.28						
416.gamess	1830	10.7	**1820**	**10.7**	1820	10.7						
433.milc	**1170**	**7.84**	1170	7.82	1170	7.86						
434.zeusmp	1270	7.19	**1270**	**7.16**	1270	7.16						
435.gromacs	**1110**	**6.43**	1110	6.43	1110	6.42						
436.cactusADM	2240	5.33	**2240**	**5.33**	2370	5.04						
437.leslie3d	**1390**	**6.79**	1380	6.79	1390	6.78						
444.namd	849	9.45	**849**	**9.44**	850	9.44						
447.dealII	**1030**	**11.1**	1020	11.2	1040	11.0						
450.soplex	**1180**	**7.09**	1180	7.06	1180	7.10						
453.povray	439	12.1	**438**	**12.2**	436	12.2						
454.calculix	2000	4.13	1990	4.14	**1990**	**4.14**						
459.GemsFDTD	1560	6.82	1560	6.80	**1560**	**6.81**						
465.tonto	1400	7.01	1430	6.86	**1430**	**6.88**						
470.lbm	**1590**	**8.65**	1600	8.61	1570	8.74						
481.wrf	1480	7.54	**1480**	**7.57**	1480	7.57						
482.sphinx3	1910	10.2	**1900**	**10.3**	1900	10.3						

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 -funroll-loops -fno-inline-functions -ftree-vectorize
C++ base flags:-O3 -funroll-loops -fno-inline-functions -ftree-vectorize
Fortran base flags: -O3 -funroll-loops -fno-inline-funcions -ftree-vectorize
wrf needs wrf_data_header_size=8
to read the unformatted data input file correctly
This i sbecause gcc 4.2 still expects 8 byte
by default (at least with the 20060715 snapshot)
```

Base Compiler Invocation

C benchmarks:
gcc

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Base Compiler Invocation (Continued)

C++ benchmarks:
g++

Fortran benchmarks:
gfortran

Benchmarks using both Fortran and C:
gcc gfortran

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 -funroll-loops -fno-inline-functions -ftree-vectorize

C++ benchmarks:
-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

Fortran benchmarks:
-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

Benchmarks using both Fortran and C:
-O3 -funroll-loops -fno-inline-functions -ftree-vectorize

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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