SPEC® CFP2006 Result

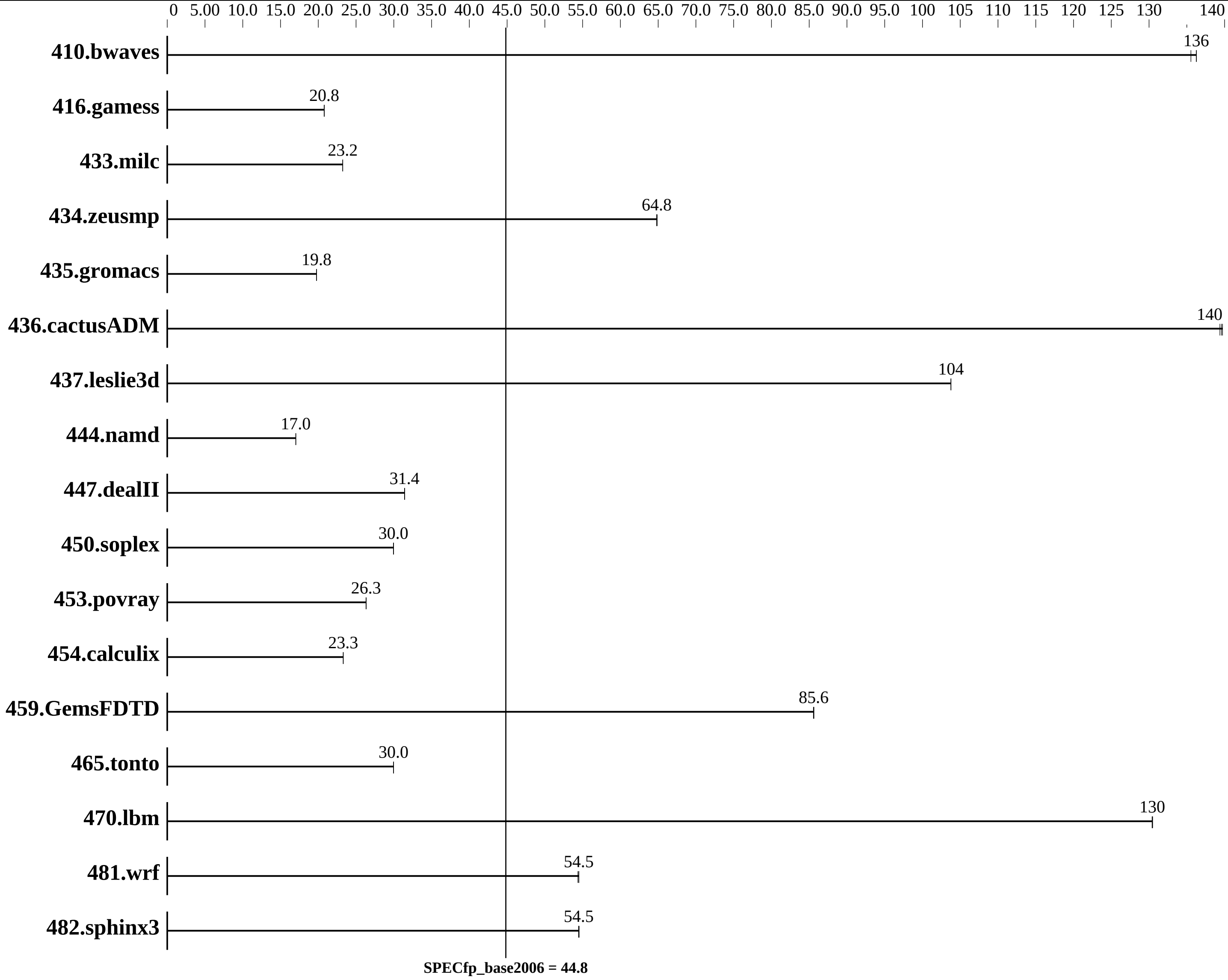
Sun Microsystems

Sun Blade X6270 (Sun Studio, autopar, base-only)

SPECfp®2006 = Not Run

SPECfp_base2006 = 44.8

CPU2006 license: 6		**Test date:**	May-2009
Test sponsor:	Sun Microsystems	**Hardware Availability:**	Apr-2009
Tested by:	Sun Microsystems	**Software Availability:**	Jun-2009



Hardware

CPU Name:	Intel Xeon X5570
CPU Characteristics:	Intel Turbo Boost Technology up to 3.33 GHz
CPU MHz:	2933
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip, 2 threads/core
CPU(s) orderable:	1 or 2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	256 KB I+D on chip per core

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Software

Operating System:	OpenSolaris 2008.11
Compiler:	Sun Studio 12 Update 1 (internal build 41.1)
Auto Parallel:	Yes
File System:	zfs with gzip compression
System State:	Default
Base Pointers:	64-bit
Peak Pointers:	Not Applicable

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L3 Cache:	8 MB I+D on chip per chip
Other Cache:	None
Memory:	24 GB (6 x 4 GB DDR3-1333)
Disk Subsystem:	1 x 146 GB Sun 10,000 RPM SAS
Other Hardware:	None

Other Software: none

Results Table

Benchmark	Base						Peak					
	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	100	136	99.7	136	**99.7**	**136**						
416.gamess	942	20.8	**942**	**20.8**	942	20.8						
433.milc	395	23.2	395	23.2	**395**	**23.2**						
434.zeusmp	**140**	**64.8**	140	64.8	140	64.9						
435.gromacs	361	19.8	361	19.8	**361**	**19.8**						
436.cactusADM	**85.6**	**140**	85.7	139	85.5	140						
437.leslie3d	**90.6**	**104**	90.6	104	90.6	104						
444.namd	471	17.0	471	17.0	**471**	**17.0**						
447.dealII	364	31.4	364	31.4	**364**	**31.4**						
450.soplex	**278**	**30.0**	278	30.0	278	30.0						
453.povray	**202**	**26.3**	202	26.3	202	26.3						
454.calculix	354	23.3	**354**	**23.3**	354	23.3						
459.GemsFDTD	124	85.6	124	85.6	**124**	**85.6**						
465.tonto	328	30.0	328	30.0	**328**	**30.0**						
470.lbm	105	130	**105**	**130**	105	130						
481.wrf	**205**	**54.5**	205	54.5	205	54.4						
482.sphinx3	358	54.5	**358**	**54.5**	357	54.5						

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

Submit Notes

```
The config file option 'submit' was used, along with 'pbind', to
assign processes to cores.
```

Operating System Notes

```
ulimit -s 131072  (shell): increases stack
For more information on shell/tuning paramaters, please
see the "Platform settings" section of the flags file.

/etc/system parameters
   tune_t_fsflushr=10
   autoup=900
   set lpg_alloc_prefer=1
   set zfs:zfs_arc_max = 0x10000000
```

Platform Notes

```
 AMIBIOS Build Date 1/26/09 ID 07.01.36.00
   Default BIOS settings used except:
   Intel VT-d: Disabled.  VT-d, if enabled, supports
   remapping of I/O DMA transfers for virtualization.
```

General Notes

```
Environment variables set by runspec before the start of the run:
OMP_NUM_THREADS = "8"
SUNW_MP_PROCBIND = "true"
SUNW_MP_THR_IDLE = "SPIN"
```

Base Compiler Invocation

C benchmarks:
    cc

C++ benchmarks:
    CC

Fortran benchmarks:
    f90

Benchmarks using both Fortran and C:
    cc f90

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
436.cactusADM: -DSPEC_CPU_LP64
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64

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Base Portability Flags (Continued)

481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_WORDS_LITTLEENDIAN
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
-fast -xipo=2 -m64 -xvector=simd -xautopar

C++ benchmarks:
-fast -xipo=2 -m64 -xvector=simd -library=stlport4

Fortran benchmarks:
-fast -xipo=2 -m64 -xvector=simd -xautopar

Benchmarks using both Fortran and C:
-fast(cc) -xipo=2 -m64 -xvector=simd -xautopar -fast(f90)

Base Other Flags

C benchmarks:
-V -# -xjobs=16

C++ benchmarks:
-verbose=diags,version -xjobs=16

Fortran benchmarks:
-V -v -xjobs=16

Benchmarks using both Fortran and C:
-V -# -xjobs=16 -v

The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.01.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.01.xml

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

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