



# SPEC® CFP2006 Result

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## Sun Microsystems

### SPECfp®2006 = Not Run

### Sun Blade X6270 (Sun Studio no autopar, base only)

### SPECfp\_base2006 = 29.1

CPU2006 license: 6

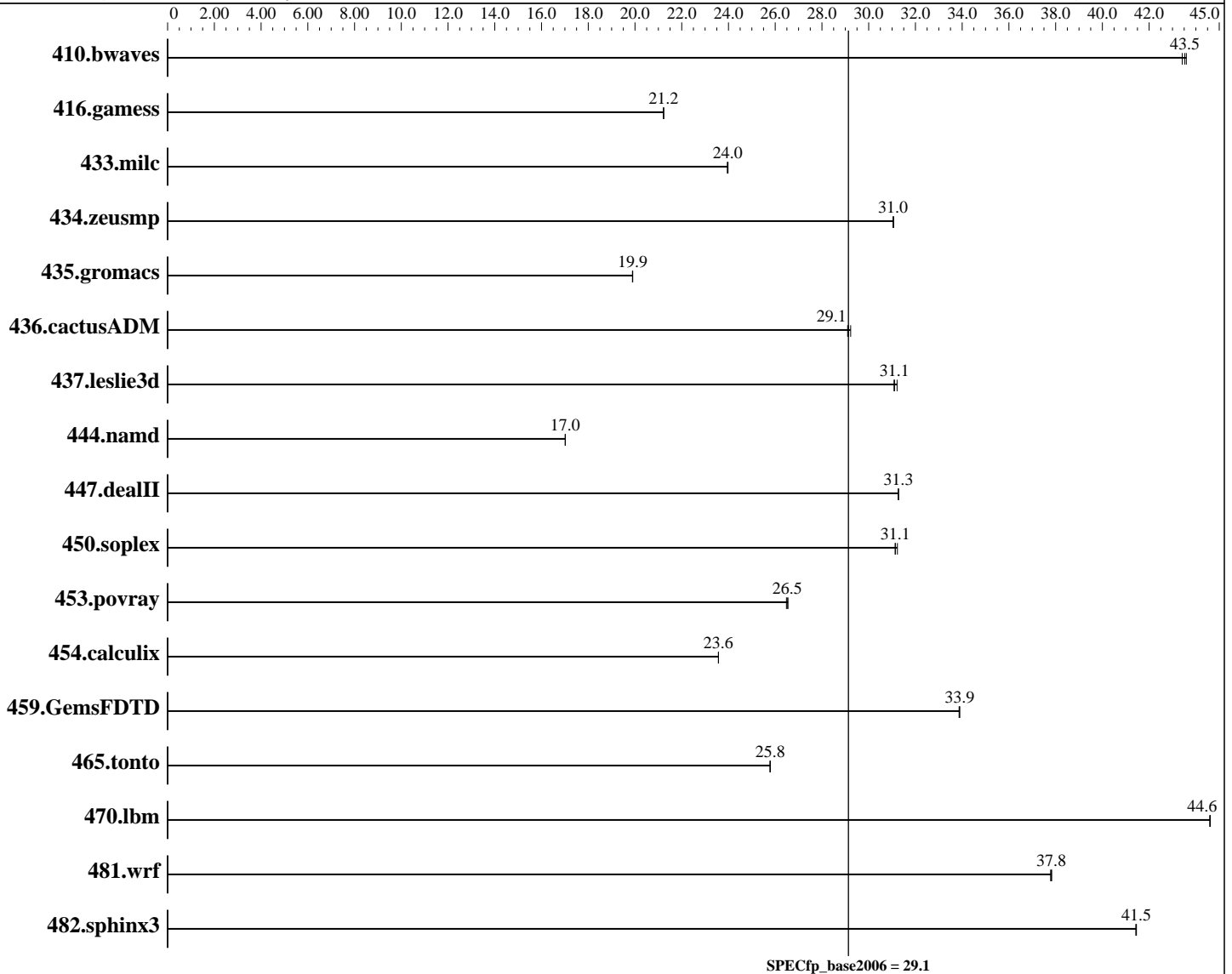
Test date: May-2009

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 43)  
 Auto Parallel: No  
 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	<b><u>312</u></b>	<b><u>43.5</u></b>	312	43.6	313	43.4						
416.gamess	922	21.2	923	21.2	<b><u>923</u></b>	<b><u>21.2</u></b>						
433.milc	383	24.0	<b><u>383</u></b>	<b><u>24.0</u></b>	383	24.0						
434.zeusmp	293	31.1	<b><u>293</u></b>	<b><u>31.0</u></b>	293	31.0						
435.gromacs	359	19.9	359	19.9	<b><u>359</u></b>	<b><u>19.9</u></b>						
436.cactusADM	411	29.1	<b><u>410</u></b>	<b><u>29.1</u></b>	409	29.2						
437.leslie3d	301	31.2	302	31.1	<b><u>302</u></b>	<b><u>31.1</u></b>						
444.namd	471	17.0	<b><u>471</u></b>	<b><u>17.0</u></b>	471	17.0						
447.dealII	<b><u>366</u></b>	<b><u>31.3</u></b>	366	31.3	366	31.3						
450.soplex	<b><u>268</u></b>	<b><u>31.1</u></b>	267	31.2	268	31.1						
453.povray	<b><u>201</u></b>	<b><u>26.5</u></b>	201	26.5	200	26.5						
454.calculix	<b><u>350</u></b>	<b><u>23.6</u></b>	350	23.6	350	23.6						
459.GemsFDTD	313	33.9	313	33.9	<b><u>313</u></b>	<b><u>33.9</u></b>						
465.tonto	382	25.8	<b><u>382</u></b>	<b><u>25.8</u></b>	382	25.8						
470.lbm	308	44.6	308	44.6	<b><u>308</u></b>	<b><u>44.6</u></b>						
481.wrf	296	37.8	<b><u>295</u></b>	<b><u>37.8</u></b>	295	37.8						
482.sphinx3	470	41.4	470	41.5	<b><u>470</u></b>	<b><u>41.5</u></b>						

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 run each benchmark on a specific core.

## Operating System Notes

ulimit -s 131072 (shell): increases stack  
For more information on shell/tuning parameters, 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
```



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## 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.

## 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  
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 -xpagesize=2M

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## Base Optimization Flags (Continued)

C++ benchmarks:

-fast -xipo=2 -m64 -xvector=simd -xpagesize=2M -library=stlport4

Fortran benchmarks:

-fast -xipo=2 -m64 -xvector=simd -xpagesize=2M

Benchmarks using both Fortran and C:

-fast(cc) -xipo=2 -m64 -xvector=simd -xpagesize=2M -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](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](http://www.spec.org/cpu2006/flags/Sun-OpenSolaris-Studio-x86_64.20090710.01.xml)

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For questions about this result, please contact the tester.  
For other inquiries, please contact [webmaster@spec.org](mailto:webmaster@spec.org).

Tested with SPEC CPU2006 v1.1.

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