



# SPEC® CFP2006 Result

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**Sun Microsystems  
Sun Blade 6000**

**SPECfp®\_rate2006 = 571  
SPECfp\_rate\_base2006 = 571**

CPU2006 license: 6

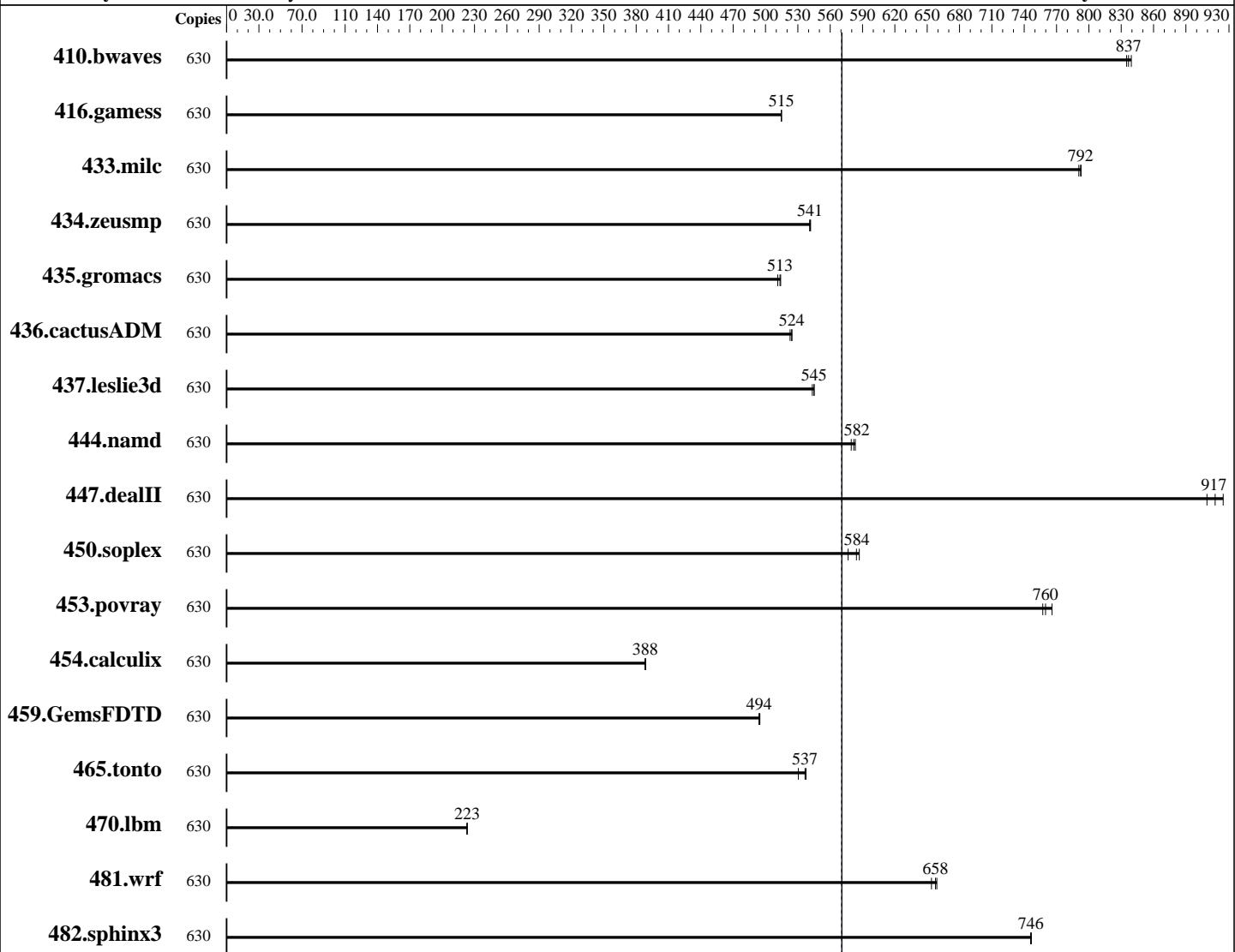
Test sponsor: Sun Microsystems

Tested by: Sun Microsystems

Test date: Mar-2008

Hardware Availability: Feb-2008

Software Availability: Feb-2008



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## Hardware

CPU Name: UltraSPARC T2  
CPU Characteristics:  
CPU MHz: 1417  
FPU: Integrated  
CPU(s) enabled: 80 cores, 10 chips, 8 cores/chip, 8 threads/core  
CPU(s) orderable: 1 to 10 Sun Blade T6320 Modules  
Primary Cache: 16 KB I + 8 KB D on chip per core  
Secondary Cache: 4 MB I+D on chip per chip

## Software

Operating System: Solaris 10 8/07 + patches (see notes)  
Compiler: Sun Studio 12 (see patch information below)  
Auto Parallel: No  
File System: NFSv3  
System State: Default  
Base Pointers: 32-bit  
Peak Pointers: 32-bit  
Other Software: None

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## Operating System Notes (Continued)

system used a 15 January 2008 pre-release build of the patch set.

OS and test harness settings include:

- On each T6320 Module:
  - The "webconsole" service was turned off using  
svcadm disable webconsole
  - /etc/system settings:  
autoup = 600  
set bufhwm\_pct=1  
set segmap\_percent=2  
set tsb\_rss\_factor=128  
tune\_t\_fsflushr = 10
  - Process settings:  
ulimit -s 131072
- The "submit" feature was used with a perl procedure, which did arithmetic to derive processor numbers from the SPEC copy number

Additional details about the above points be found in the "Platform Settings" section of the associated flags file.

## Base Compiler Invocation

C benchmarks:

cc

C++ benchmarks:

CC

Fortran benchmarks:

f90

Benchmarks using both Fortran and C:

cc f90

## Base Optimization Flags

C benchmarks:

```
-g -fast -xipo=2 -xpagesize=4M -xprefetch_level=2 -xalias_level=std
-xprefetch_level=3 -xprefetch_auto_type=indirect_array_access
-M /usr/lib/ld/map.bssalign
```

C++ benchmarks:

```
-g0 -library=stlport4 -fast -xipo=2 -xpagesize=4M -xprefetch_level=2
-xdepend -xalias_level=compatible -M /usr/lib/ld/map.bssalign
```

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## Base Optimization Flags (Continued)

Fortran benchmarks:

```
-g -fast -xipo=2 -xpagesize=4M -xprefetch_level=2  
-M /usr/lib/ld/map.bssalign
```

Benchmarks using both Fortran and C:

```
-g -fast(cc) -fast(f90) -xipo=2 -xpagemap=4M -xprefetch_level=2  
-xalias_level=std -xprefetch_level=3  
-xprefetch_auto_type=indirect_array_access -M /usr/lib/ld/map.bssalign
```

## Base Other Flags

C benchmarks:

```
-xjobs=32 -V -#
```

C++ benchmarks:

```
-xjobs=32 -verbose=diags,version
```

Fortran benchmarks:

```
-xjobs=32 -V -v
```

Benchmarks using both Fortran and C:

```
-xjobs=32 -V -# -v
```

## Peak Optimization Flags

C benchmarks:

```
433.milc: basepeak = yes
```

```
470.lbm: basepeak = yes
```

```
482.sphinx3: basepeak = yes
```

C++ benchmarks:

```
444.namd: basepeak = yes
```

```
447.dealII: basepeak = yes
```

```
450.soplex: basepeak = yes
```

```
453.povray: basepeak = yes
```

Fortran benchmarks:

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## Peak Optimization Flags (Continued)

410.bwaves: basepeak = yes  
416.gamess: basepeak = yes  
434.zeusmp: basepeak = yes  
437.leslie3d: basepeak = yes  
459.GemsFDTD: basepeak = yes  
465.tonto: basepeak = yes

Benchmarks using both Fortran and C:

435.gromacs: basepeak = yes  
436.cactusADM: basepeak = yes  
454.calculix: basepeak = yes  
481.wrf: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss4.2-multinode.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss4.2-multinode.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).

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