



SPEC[®] CFP2006 Result

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Sun Microsystems
Sun Blade T6320

SPECfp[®]_rate2006 = **NC**
SPECfp_rate_base2006 = **NC**

CPU2006 license: 6
Test sponsor: Sun Microsystems
Tested by: Sun Microsystems

Test date: Oct-2007
Hardware Availability: Oct-2007
Software Availability: Sep-2007

SPEC has determined that this result was not in compliance with the SPEC CPU2006 run and reporting rules. Specifically, the submitter reported that the result would not meet the 3 month availability requirement in the SPEC CPU2006 run rules due to a change in the availability date of the system.

Hardware

CPU Name: UltraSPARC T2
CPU Characteristics:
CPU MHz: 1417
FPU: Integrated
CPU(s) enabled: 8 cores, 1 chip, 8 cores/chip, 8 threads/core
CPU(s) orderable: 1 chip
Primary Cache: 16 KB I + 8 KB D on chip per core
Secondary Cache: 4 MB I+D on chip per chip
L3 Cache: None
Other Cache: None
Memory: 64 GB (16 x 4 GB)
Disk Subsystem: 1 x SUN72G 10K RPM SAS disk
ufs fragment size 8192 bytes
Other Hardware: None

Software

Operating System: Solaris 10 8/07 (build s10s_u4wos_12b)
Compiler: Sun Studio 12 (patch build 2007/08/30)
Auto Parallel: No
File System: ufs
System State: Default
Base Pointers: 32-bit
Peak Pointers: 32-bit
Other Software: None

Non-Compliant



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Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
410.bwaves	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
416.gamess	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
433.milc	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
434.zeusmp	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
435.gromacs	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
436.cactusADM	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
437.leslie3d	63	NC	NC	NC	NC	NC	NC	48	NC	NC	NC	NC	NC	NC		
444.namd	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
447.dealII	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
450.soplex	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
453.povray	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
454.calculix	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
459.GemsFDTD	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
465.tonto	63	NC	NC	NC	NC	NC	NC	56	NC	NC	NC	NC	NC	NC		
470.lbm	63	NC	NC	NC	NC	NC	NC	8	NC	NC	NC	NC	NC	NC		
481.wrf	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		
482.spm	63	NC	NC	NC	NC	NC	NC	63	NC	NC	NC	NC	NC	NC		

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

Compiler Invocation Notes

Compiler patches are available at
http://developers.sun.com/sunstudio/downloads/patches/ss12_patches.jsp



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Operating System Notes

Processes were bound to cores using "sbind" and "pbind".

ulimit -s 131072 was used to limit the space consumed by the stack (and therefore make more space available to the heap)

```
/etc/system parameters
autoup=600
    Causes pages older than the listed number of seconds to
    be written by fsflush.
tune_t_fsflushr=10
    Controls how many seconds elapse between runs of the
    page flush daemon, fsflush.
```

The "webconsole" service was turned off using
svcadm disable webconsole

Base Compiler Invocation

C benchmarks:

```
cc
```

C++ benchmarks:

```
cc
```

Fortran benchmarks:

```
f90
```

Benchmarks using both Fortran and C:

```
cc f90
```



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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
```

C++ benchmarks:

```
-g0 -library=stlport4 -fast -xipo=2 -xpagesize=4M -xprefetch_level=2  
-xdepend -xalias_level=compatible
```

Fortran benchmarks:

```
-g -fast -xipo=2 -xpagesize=4M -xprefetch_level=2
```

Benchmarks using both Fortran and C:

```
-g -fast(cc) -fast(f90) -xipo=2 -xpagesize=4M -xprefetch_level=2  
-xalias_level=std -xprefetch_level=3  
-xprefetch_auto_type=indirect_array_access
```

Base Other Flags

C benchmarks:

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

C++ benchmarks:

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

Fortran benchmarks:

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

Benchmarks using both Fortran and C:

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



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Peak Compiler Invocation

C benchmarks:
cc
C++ benchmarks:
CC
Fortran benchmarks:
f90
Benchmarks using both Fortran and C:
cc f90

Peak Optimization Flags

C benchmarks:
433.milc: basepeak=yes
470.lbm: -g -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M -xprefetch_level=3 -xipo=2 -xrestrict
482.sphinx: -g -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M -xinline= -xprefetch_level=2 -Wc,-Qlp-ol=1 -xrestrict -xalias_level=strong -fsimple=1 -xlinkopt=2 -lfast
C++ benchmarks:
444.namd: -g0 -library=stlport4 -xprofile=collect:./feedback(pass 1) -xprofile=use:./feedback(pass 2) -fast -xpagesize=4M -xdepend -xalias_level=compatible -xprefetch_level=1 -xlinkopt=2

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Peak Optimization Flags (Continued)

447.dealIII: basepeak = yes

450.soplex: basepeak = yes

453.povray: -g0 -library=stdcall -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-xdepend -xalias_level=compatible -xipo=2 -xrestrict
-xlinkopt=2

Fortran benchmarks:

410.bwaves: basepeak = yes

416.gamess: -g -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast -xpagesize=4M
-xlinkopt=2

434.zeusmp: -g -fast -xpagesize=4M -xipo=1 -qoption cg -Qeps:enabled=1
-qoption cg -Qeps:ws=8 -lmopt

437.leslie3d: -g -fast -xpagesize_heap=4M -xpagesize_stack=64K
-xprefetch_level=3 -xprefetch=latx:1.6 -qoption cg -Qlp=1
-qoption cg -Qlp-fa=0 -qoption cg -Qlp-fl=1
-qoption cg -Qlp-av=448 -qoption cg -Qlp-t=4

442.gamess: -g -fast -xpagesize=4M -fsimple=1

465.tonto: -g -fast -xpagesize=4M -xipo=2 -lfast

Benchmarks using both Fortran and C:

435.gromacs: -g -xprofile=collect:./feedback(pass 1)
-xprofile=use:./feedback(pass 2) -fast(cc) -fast(f90)
-xpagesize=4M -xipo=1 -xinline= -xarch=generic
-xchip=generic -fsimple=0

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Peak Optimization Flags (Continued)

```
436.cactusADM: -g -xprofile=collect:./feedback(pass 1)
               -xprofile=use:./feedback(pass 2) -fast(cc) -fast(f90)
               -xpagesize=4M -xipo=2 -fsimple -xlinkopt=2

454.calculix: basepeak = yes

481.wrf: -g -xprofile=collect:./feedback(pass 1)
         -xprofile=use:./feedback(pass 2) -fast(cc) -fast(f90)
         -xpagesize=4M -xlinkopt=2
```

Peak Other Flags

```
C benchmarks:
  -xjobs=32 -V

C++ benchmarks:
  -xjobs=32 -verbose -diags,version

Fortran benchmark:
  -xjobs=32 -V

Benchmarks using both Fortran and C:
  -xjobs=32 -V
```

The flags file that was used to format this result can be browsed at
<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss.20090714.html>

You can also download the XML flags source by saving the following link:
<http://www.spec.org/cpu2006/flags/Sun-Solaris-Studio12-and-gccfss.20090714.xml>



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

Tested with SPEC CPU2006 v1.0.1.
Report generated on Tue Jul 22 14:37:30 2014 by SPEC CPU2006 PS/PDF formatter v6932.
Originally published on 13 November 2007.