SPEC® CFP2006 Result

Sun Microsystems
Sun Blade T6320

SPECfp®_rate2006 = NC

SPECfp_rate_base2006 = NC

CPU2006 license: 6		**Test date:**	Oct-2007
Test sponsor:	Sun Microsystems	**Hardware Availability:**	Oct-2007
Tested by:	Sun Microsystems	**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

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.

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.sphinx3	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
```

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.

Operating System Notes

```
Processes were bound to cores using "submit" 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`

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.

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
```

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.

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.sphinx3: `-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`

Continued on next page

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.

Peak Optimization Flags (Continued)

447.dealII: `basepeak = yes`

450.soplex: `basepeak = yes`

453.povray: `-g0 -library=stlport4 -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`

459.GemsFDTD: `-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`

Continued on next page

SPEC CFP2006 Result

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.

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=0 -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 benchmarks:
`-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

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.

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.