



CFP2000 Result

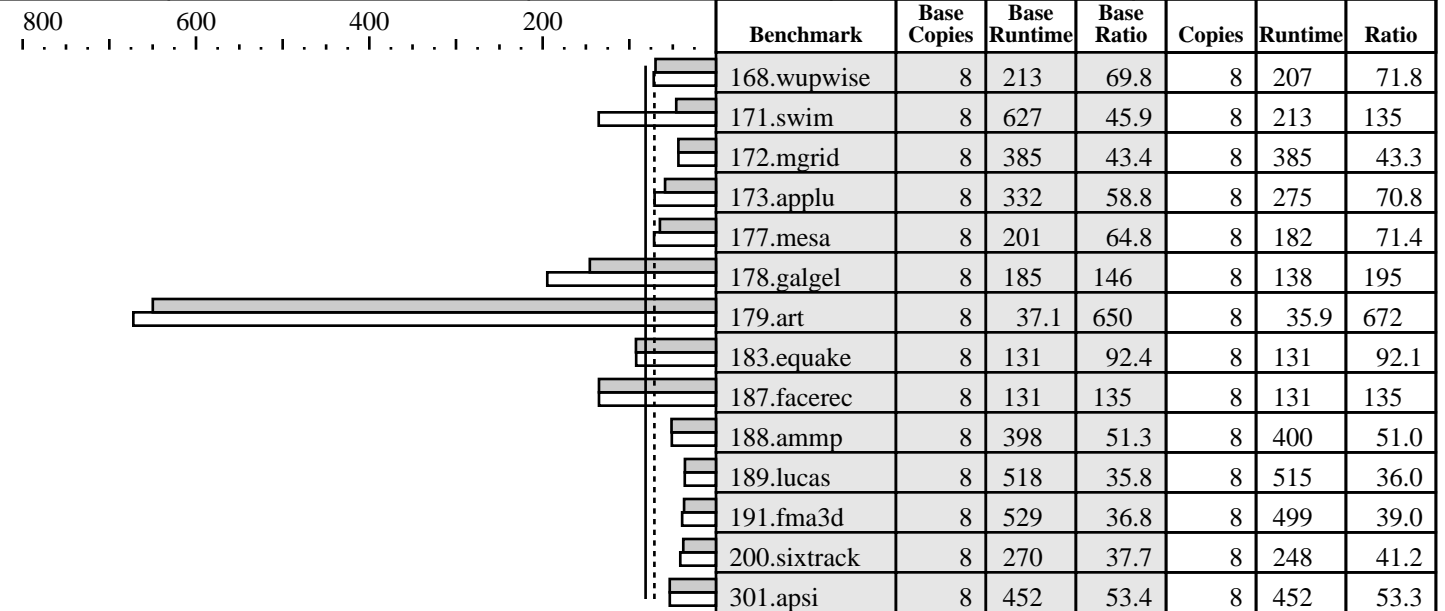
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Sun Microsystems
Sun Fire V890 (4 processor)

SPECfp_rate2000 = 81.3

SPECfp_rate_base2000 = 71.1

SPEC license #: 6 Tested by: Sun Microsystems Test date: Aug-2004 Hardware Avail: Sep-2004 Software Avail: Sep-2004



Hardware

CPU: UltraSPARC IV
 CPU MHz: 1200
 FPU: Integrated
 CPU(s) enabled: 8 cores, 4 chips, 2 cores/chips
 CPU(s) orderable: 4,8 (order by # of chips)
 Parallel: No
 Primary Cache: 32KBI+64KBD per core on chip (64KBI+128KBD on chip)
 Secondary Cache: 8MB(I+D) per core off chip (16MB(I+D) off chip)
 L3 Cache: None
 Other Cache: None
 Memory: 16GB 8-way interleaved
 Disk Subsystem: 1 x 73GB
 Other Hardware: None

Software

Operating System: Solaris 9 9/04
 Compiler: Sun Studio 9
 File System: ufs with ufs logging
 System State: Multi-User

Notes/Tuning Information

Compiler invocation:

C: cc
 CXX: CC
 F90: f90
 F77: f90

Floating point base flags:

C: -fast -xipo=2 -xalias_level=std with ONESTEP=yes and feedback
 F90: -fast -xipo=2 with ONESTEP=yes and feedback

Floating point peak flags:

ONESTEP=yes and feedback for all benchmarks, unless otherwise noted

168.wupwise: -fast -xipo=2 -Qoption iropt -Ainline:inc=800:cp=1
 171.swim: -fast -xpad=common:3969 -xpagesize=64K -xprefetch=latx:1.6
 -Qoption iropt -Atile:skewp,-Ainline:cs=700
 (no feedback)



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Notes/Tuning Information (Continued)

```

172.mgrid: -fast -xipo=2
173.applu: -fast -xipo=2
           -Qoption cg -Qlp=1-av=192-fa=1,-Qms_pipe+prefolim=7
           -Qoption iropt -Aujam:inner=g
177.mesa: -fast -xipo=2 -xalias_level=strong -xrestrict
           -Wc,-Qms_pipe+unoovf
178.galgel: -fast -xipo=2 -Qoption iropt -Addint:sf=9 -xlic_lib=sunperf
            RM_SOURCES=lapak.f90
179.art: -fast -xipo=2 -xalias_level=std
          -Wc,-Qms_pipe-prefst,-Qms_pipe+prefolim=11
183.quake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: basepeak=yes
188.ammp: -fast -xipo=2 -xalias_level=std -xpagesize=512K -lmopt -lm

189.lucas: -fast -xipo=2 -xprefetch_level=3
           -Qoption iropt -Apf:pdl=1 -Qoption f90comp
           -array_pad_rows,1977
191.fma3d: -fast -xipo=2 -stackvar -xprefetch_level=3
           -Qoption iropt -Apf:pdl=1
200.sixtrack: -xO4 -dalign -xchip=ultra3 -xarch=v8plusb
              -fsimple=2 -xprefetch=no
301.apsi: -fast -xipo=2

```

Feedback is done as follows, unless otherwise noted:

```

fdo_pre0: rm -rf ./feedback.profile ./SunWS_cache
PASS1: -xprofile=collect:./feedback
PASS2: -xprofile=use:./feedback

```

Portability:

178.galgel: -e -fixed

Shell Environments:

```

Stack size set to unlimited via "ulimit -s unlimited"
MPSSHEAP=512K
MPSSSTACK=512K
LD_PRELOAD=mpss.so.1

```

Kernel Parameters (/etc/system):

```

autoup=900
tune_t_fsflushr=1

```