



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Fire V250 (1.28GHz)

SPECfp_rate2000 = 18.3

SPECfp_rate_base2000 = 16.4

SPEC license #: 6 Tested by: Sun Microsystems, Santa Clara Test date: Sep-2003 Hardware Avail: Sep-2003 Software Avail: Aug-2003

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	202	18.4	2	187	19.9
171.swim	2	624	11.5	2	304	23.6
172.mgrid	2	422	9.89	2	425	9.84
173.applu	2	326	14.9	2	254	19.2
177.mesa	2	208	15.6	2	193	16.8
178.galgel	2	256	26.3	2	217	31.0
179.art	2	49.9	121	2	47.5	127
183.quake	2	145	20.8	2	142	21.2
187.facerec	2	223	19.8	2	202	21.9
188.amp	2	549	9.30	2	558	9.14
189.lucas	2	439	10.6	2	436	10.6
191.fma3d	2	499	9.76	2	468	10.4
200.sixtrack	2	257	9.92	2	245	10.4
301.apsi	2	376	16.0	2	377	16.0

Hardware

CPU: UltraSPARC IIIi
CPU MHz: 1280
FPU: Integrated
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip
CPU(s) orderable: 1-2
Parallel: No
Primary Cache: 32KBI+64KBD on chip
Secondary Cache: 1MB(I+D) on chip
L3 Cache: None
Other Cache: None
Memory: 8GB 16-way interleaved
Disk Subsystem: 1 x 36GB SEAGATE ST336607LSUN36G
Other Hardware: None

Software

Operating System: Solaris 9 8/03
Compiler: Sun ONE Studio 8
Sun Performance Library 8
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:384 -xprefetch=latx:1.6
-Qoption iropt -Atile:skewp:b6,-Ainline:cs=700
(no feedback)



CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Sun Microsystems
Sun Fire V250 (1.28GHz)

SPECfp_rate2000 = 18.3
SPECfp_rate_base2000 = 16.4

SPEC license #: 6 | Tested by: Sun Microsystems, Santa Clara | Test date: Sep-2003 | Hardware Avail: Sep-2003 | Software Avail: Aug-2003

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 -xprefetch=latx:1.5
183.equake: -fast -xipo=2 -xalias_level=strong -xprefetch_level=2
187.facerec: -fast -xipo=2 -xprefetch=latx:1.5
188.ammp: -fast -xipo=2 -xalias_level=std -lmopt -lm
189.lucas: -fast -xprefetch_level=3 -Qoption iropt -Apf:pdl=1
           -Qoption f90comp -array_pad_rows,1977
191.fma3d: -fast -stackvar -xprefetch_level=3
           -Qoption iropt -Apf:pdl=1
200.sixtrack: -O -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=2
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

```