CFP2000 Result

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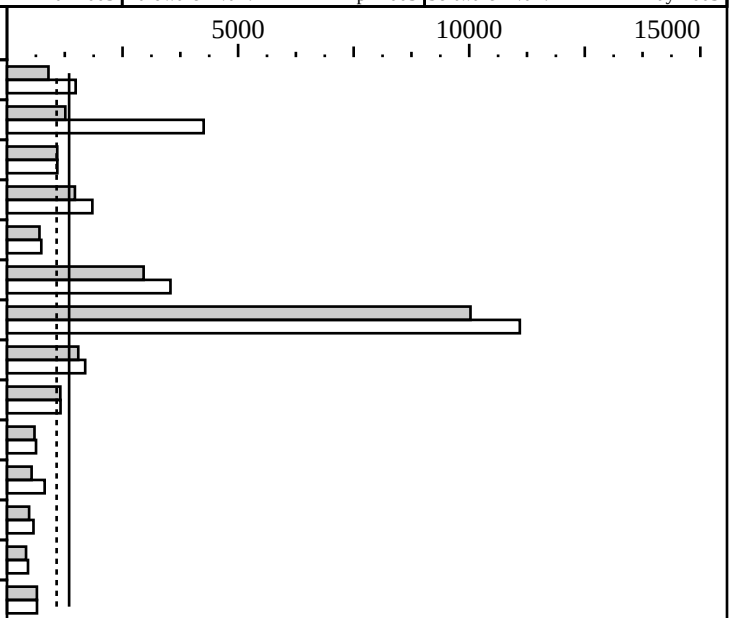
Sun Microsystems
Sun Blade 2000 (1.2GHz)

SPECfp2000 = 1344

SPECfp_base2000 = 1074

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	178	897	108	1486
171.swim	3100	246	1262	72.9	4255
172.mgrid	1800	166	1087	165	1089
173.applu	2100	143	1469	114	1847
177.mesa	1400	199	702	189	742
178.galgel	2900	98.1	2956	82.0	3537
179.art	2600	25.9	10027	23.4	11095
183.equake	1300	84.3	1542	76.8	1692
187.facerec	1900	165	1154	164	1158
188.ammp	2200	370	595	350	628
189.lucas	2000	376	532	245	815
191.fma3d	2100	439	478	367	573
200.sixtrack	1100	267	412	242	454
301.apsi	2600	402	647	401	649



Hardware

CPU:	UltraSPARC III Cu
CPU MHz:	1200
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1-2
Parallel:	Yes
Primary Cache:	32KBI+64KBD on chip
Secondary Cache:	8MB(I+D) off chip
L3 Cache:	None
Other Cache:	None
Memory:	2GB 4-way interleaved
Disk Subsystem:	1 x 73GB 10K RPM FC-AL Disk, Sun Option X6805A
Other Hardware:	None

Software

Operating System:	Solaris 9 12/02
Compiler:	Sun ONE Studio 8 (pre-FCS build 3/09) Sun Performance Library 8 (pre-FCS build 3/09)
File System:	ufs with ufs logging
System State:	Multi-User

Notes/Tuning Information

```
Compiler invocation:
  C: 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 -xautopar with ONESTEP=yes and feedback

Floating point peak flags:
 ONESTEP=yes and feedback for all benchmarks, unless otherwise noted

 168.wupwise: -fast -xautopar -xreduction -xipo=2
              -Qoption iropt -Ainline:mi
 171.swim:    -fast -xautopar -xreduction -xpad=common:3969 -xpagesize=64K
              -xprefetch=latx:1.6 -Qoption iropt -Atile:skewp:b46,
              -Ainline:cs=700,-Aloop_dist:ignore_parallel,
```

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Notes/Tuning Information (Continued)

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                -Addint:ignore_parallel (no feedback)
 172.mgrid:     -fast -xautopar -xreduction -xipo=2
 173.applu:     -fast -xautopar -xreduction -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 -xautopar -xreduction -xipo=2 -xpagesize=512K
                -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.equake:    -fast -xalias_level=strong -xautopar -xreduction
                -xprefetch_level=2 -W2,-whole,-Amemopt:arrayloc
                -Wc,-Qms_pipe+prefolim=12 -lmopt -lm
 187.facerec:   -fast -xipo=2 -xautopar -xreduction
 188.ammp:      -fast -xipo -xalias_level=std -xpagesize=512K -lmopt -lm
 189.lucas:     -fast -xautopar -xreduction -xprefetch_level=3
                -Qoption f90comp -array_pad_rows,1977
                -Qoption iropt -Aivsub3,-Apf:pdl=1
 191.fma3d:     -fast -xautopar -xreduction -xipo=2 -stackvar
                -xprefetch_level=3 -Qoption iropt -Apf:pdl=1
 200.sixtrack:-O -dalign -xchip=ultra3 -xarch=v8plusb -fsimple=2
 301.apsi:      -fast -xipo=2 -xautopar -xreduction -xpagesize=512K

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
  PARALLEL=2
  STACKSIZE=9000

Kernel Parameters (/etc/system):
  autoup=900
  tune_t_fsflushr=1
```