CFP2000 Result

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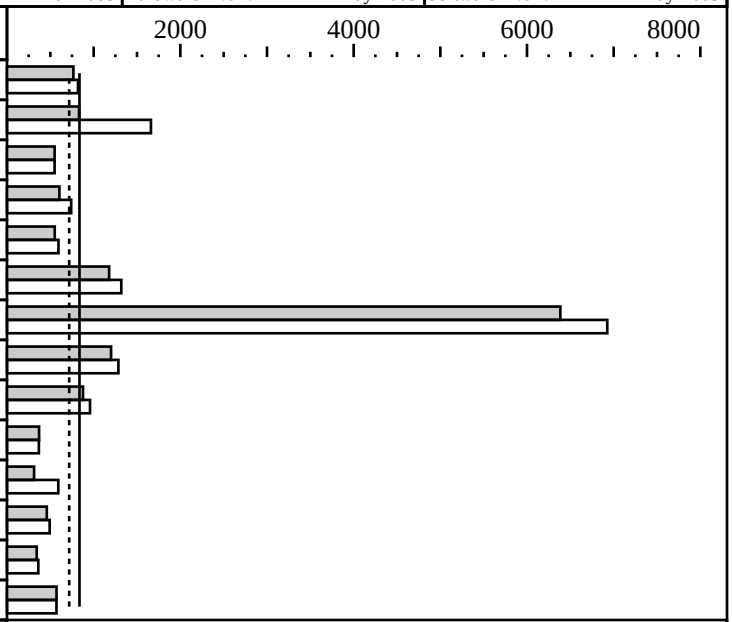
Sun Microsystems
Sun Fire V240 (1002MHz)

SPECfp2000 = 836

SPECfp_base2000 = 718

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	209	766	195	819
171.swim	3100	373	831	187	1661
172.mgrid	1800	328	550	328	549
173.applu	2100	347	604	284	741
177.mesa	1400	254	551	236	594
178.galgel	2900	246	1178	220	1319
179.art	2600	40.7	6385	37.5	6926
183.equake	1300	108	1201	101	1286
187.facerec	1900	217	877	198	958
188.ammp	2200	594	370	598	368
189.lucas	2000	640	312	338	592
191.fma3d	2100	457	459	427	492
200.sixtrack	1100	321	343	305	361
301.apsi	2600	455	571	455	571



Hardware

CPU:	UltraSPARC IIIi
CPU MHz:	1002
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 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:	4GB 8-way interleaved
Disk Subsystem:	2 x 36GB SEAGATE ST336605L
Other Hardware:	None

Software

Operating System:	Solaris 8 HW 12/02
Compiler:	Sun ONE Studio 8 (pre-FCS build 03/9) Sun Performance Library 8 (pre-FCS build 3/9)
File System:	ufs with ufs logging
System State:	Multi-User

Notes/Tuning Information

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  SPEC has determined that this result was not in compliance
  with the SPEC continued availability policy.  Specifically,
  although the configuration tested was available within the
  required 3 months of publication, it was then unavailable for
  a period of 30 days or more during the first 90 days after
  initial overall availability.  The vendor informs SPEC that
  the configuration is again available, on or before the date
  of this notice, 08/13/2003.

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Compiler invocation:
  C: cc
  CXX: CC
```

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Notes/Tuning Information (Continued)

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    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)
   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 -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:-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"
    PRISM_HEAP=268435456
    PRISM_MODE=2


  Kernel Parameters (/etc/system):
    default
    autoup=900
    tune_t_fsflushr=1
  System Settings:
    2nd CPU physically removed from the system
```