CFP2000 Result

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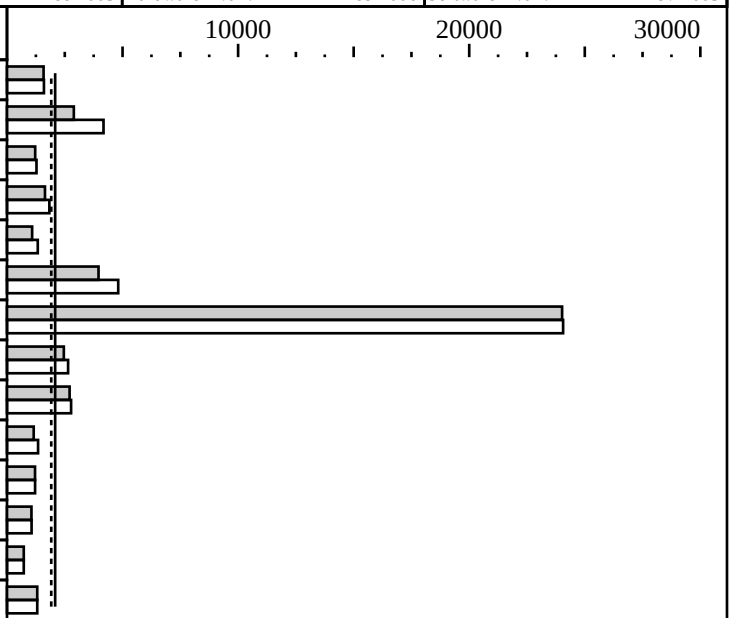
Fujitsu Limited
PRIMEPOWER450 (1980MHz)

SPECfp2000 = 2084

SPECfp_base2000 = 1915

SPEC license #: 19 | Tested by: Fujitsu Limited | Test date: Dec-2005 | Hardware Avail: Feb-2006 | Software Avail: Nov-2005

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	101	1583	100	1598
171.swim	3100	107	2892	74.2	4176
172.mgrid	1800	148	1220	141	1276
173.applu	2100	128	1644	115	1833
177.mesa	1400	129	1088	105	1332
178.galgel	2900	73.2	3960	60.3	4813
179.art	2600	10.8	24019	10.8	24062
183.equake	1300	52.9	2459	49.2	2644
187.facerec	1900	70.1	2709	68.5	2773
188.ammp	2200	190	1155	164	1345
189.lucas	2000	165	1213	165	1215
191.fma3d	2100	198	1058	197	1063
200.sixtrack	1100	152	725	152	725
301.apsi	2600	199	1309	199	1309



Hardware

CPU:	SPARC64 V
CPU MHz:	1980
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 to 4 (increments of 1)
Parallel:	None
Primary Cache:	128KBI + 128KBD on chip
Secondary Cache:	3MB(I+D) on chip
L3 Cache:	None
Other Cache:	None
Memory:	16GB (1GB x 16)
Disk Subsystem:	1 x 36.4GB SCSI (10000rpm)
Other Hardware:	None

Software

Operating System:	Solaris 10
Compiler:	Sun Studio 11
File System:	ufs
System State:	multi user

Notes/Tuning Information

```
FDO: (for Sun Studio 11)
fdo_pre0=rm -rf ./feedback.profile ./SunWS_cache
PASS1=-xprofile=collect:./feedback
PASS2=-xprofile=use:./feedback

Floating point base flags:
(using Fortran compiler of Sun Studio 11)
-fast -xtarget=ultra3cu -xipo=2 ONESTEP=yes FDO
(using C compiler of Sun Studio 11)
-fast -xtarget=ultra3 -xipo=2 ONESTEP=yes FDO

Floating point peak flags:
(using Fortran compiler of Sun Studio 11)
168.wupwise:  -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
              -xipo=1 -Qoption iropt -Ainline:inc=800:cp=1 ONESTEP=yes FDO
171.swim:     -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
```

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Notes/Tuning Information (Continued)

```
                -xprefetch=latx:2.8 -Qoption iropt
                -Ainline:cs=700,-Atile:skewp:b19 -xpad=common:1500
    172.mgrid:  -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -stackvar -xipo=2 -xpad=common:800 -xprefetch=latx:1.6
                ONESTEP=yes FDO
    173.applu:  -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -stackvar -xipo=2 -Qoption cg -Qlp=1-av=192-t=4-fa=1-fl=0
                -Qoption iropt -Aujam:inner=g ONESTEP=yes FDO
    178.galgel: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xipo=2 -Qoption iropt -Addint:sf=9 -xlic_lib=sunperf
                RM_SOURCES=lapak.f90 ONESTEP=yes FDO
    187.facerec: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xprefetch=latx:1.6 ONESTEP=yes FDO
    189.lucas:  -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -stackvar -xipo=2 ONESTEP=yes FDO
    191.fma3d:  -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xipo=2 ONESTEP=yes FDO
    200.sixtrack: basepeak=yes
    301.apsi:   basepeak=yes

    (using C compiler of Sun Studio 11)
    177.mesa:   -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xchip=ultra2 -xalias_level=strong -xipo=2 -xrestrict
                ONESTEP=yes FDO
    179.art:    -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xipo=2 ONESTEP=yes FDO
    183.equake: -fast -xarch=v8plusb -xchip=ultra3cu -xcache=128/64/2:4096/64/4
                -xalias_level=strong -W2,-whole -Wc,-Qms_pipe-pref,
                -Qlp=1-av=512-t=6-fa=1-fl=1 ONESTEP=yes FDO
    188.ammp:   -fast -xalias_level=std -xipo=2 ONESTEP=yes FDO

    Portability:
    178.galgel: -e -fixed

    System Tunables:
    (for /etc/system)
          set consistent_coloring=1
          set tune_t_fsflushr=86400
          set autoup=86400

    Shell Environments:
          Stack size set to unlimited via "ulimit -s unlimited"
          MPSSHEAP=4M
          MPSSSTACK=4M
          LD_PRELOAD=mpss.so.1

    System board used with only ONE CPU present.

    Sun Studio 11, posted at URL http://www.sun.com/software/products/studio/index.xml
    was used for this submission.
```