CFP2000 Result

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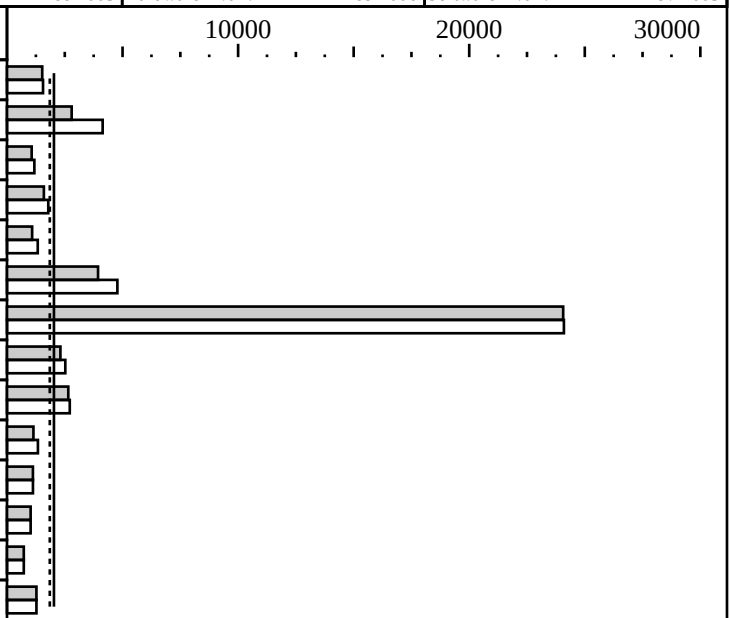
Fujitsu Limited
PRIMEPOWER250 (1980MHz)

SPECfp2000 = 2031

SPECfp_base2000 = 1852

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	105	1525	103	1559
171.swim	3100	111	2798	74.9	4139
172.mgrid	1800	169	1068	152	1184
173.applu	2100	132	1596	118	1786
177.mesa	1400	129	1088	105	1331
178.galgel	2900	73.6	3940	60.7	4776
179.art	2600	10.8	24066	10.8	24097
183.equake	1300	56.3	2311	51.5	2523
187.facerec	1900	71.6	2652	70.0	2716
188.ammp	2200	192	1144	164	1338
189.lucas	2000	178	1122	178	1123
191.fma3d	2100	205	1023	205	1023
200.sixtrack	1100	151	727	151	727
301.apsi	2600	204	1274	204	1274



Hardware

CPU:	SPARC64 V
CPU MHz:	1980
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1 to 2 (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:	8GB (1GB x 8)
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.
```