



# CFP2000 Result

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**Fujitsu Limited**  
**PRIMEPOWER250 (1650MHz)**

SPECfp2000 = **1816**  
SPECfp\_base2000 = **1669**

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	115	1395	114	1402
171.swim	3100	119	2604	86.1	3599
172.mgrid	1800	172	1047	158	1140
173.applu	2100	149	1406	133	1574
177.mesa	1400	153	915	124	1125
178.galgel	2900	85.2	3402	70.7	4101
179.art	2600	12.9	20102	13.0	20075
183.earthquake	1300	57.9	2244	52.8	2463
187.facerec	1900	76.9	2470	75.5	2516
188.amp	2200	224	983	193	1143
189.lucas	2000	181	1105	180	1108
191.fma3d	2100	223	944	224	937
200.sixtrack	1100	181	608	181	608
301.apsi	2600	230	1129	230	1129

### Hardware

CPU: SPARC64 V  
 CPU MHz: 1650  
 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
-Inline: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.quake: -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.