



CFP2000 Result

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Fujitsu Limited
PRIMEPOWER1500 (2160MHz)

SPECfp_rate2000 = 552
SPECfp_rate_base2000 = 506

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	32	170	350	32	147	404
171.swim	32	135	853	32	90.7	1268
172.mgrid	32	399	167	32	396	169
173.applu	32	176	443	32	163	478
177.mesa	32	145	359	32	111	469
178.galgel	32	61.4	1752	32	53.3	2019
179.art	32	10.5	9186	32	10.5	9156
183.quake	32	136	354	32	136	356
187.facerec	32	114	618	32	114	620
188.amp	32	175	466	32	148	551
189.lucas	32	380	196	32	380	195
191.fma3d	32	351	222	32	347	224
200.sixtrack	32	145	282	32	145	282
301.apsi	32	213	454	32	213	454

Hardware	Software
CPU: SPARC64 V	Operating System: Solaris 10
CPU MHz: 2160	Compiler: Studio 11
FPU: Integrated	
CPU(s) enabled: 32 cores, 32 chips, 1 core/chip	File System: ufs
CPU(s) orderable: 1 to 32 (increments of 1)	System State: multi user
Parallel: None	
Primary Cache: 128KBI + 128KBD on chip	
Secondary Cache: 4MB(I+D) on chip	
L3 Cache: None	
Other Cache: None	
Memory: 64GB (512MB x 128)	
Disk Subsystem: 1 x 36.4GB SCSI (10000rpm)	
Other Hardware: None	

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)

```

172.mgrid: -xpad=common:1700 -Qoption iropt -Ainline:cs=700,Atile:skewp:b10
           -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: -fixed

System Tunables:

```

(for /etc/system)
  set consistent_coloring=1
  set tune_t_fsflushr=86400
  set autoup=86400
  set memscrub_period_sec=172800

```

Shell Environments:

```

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

```

Extended Interleave Mode enabled.

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