



CFP2000 Result

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Fujitsu Limited
PRIMEPOWER650 (2160MHz)

SPECfp_rate2000 = 155
SPECfp_rate_base2000 = 143

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

4000	3000	2000	1000	Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
				168.wupwise	8	144	103	8	123	121
				171.swim	8	110	262	8	77.1	373
				172.mgrid	8	351	47.6	8	345	48.4
				173.applu	8	149	131	8	141	138
				177.mesa	8	120	108	8	97.6	133
				178.galgel	8	59.0	456	8	50.5	533
				179.art	8	10.1	2400	8	10.1	2399
				183.equake	8	110	109	8	111	109
				187.facerec	8	98.9	178	8	98.3	179
				188.amp	8	165	123	8	141	145
				189.lucas	8	348	53.3	8	348	53.3
				191.fma3d	8	313	62.2	8	309	63.0
				200.sixtrack	8	135	75.7	8	135	75.7
				301.apsi	8	198	122	8	198	122

Hardware		Software	
CPU:	SPARC64 V	Operating System:	Solaris 10
CPU MHz:	2160	Compiler:	Sun Studio 11
FPU:	Integrated	File System:	ufs
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip	System State:	multi user
CPU(s) orderable:	1 to 8 (increments of 1)		
Parallel:	None		
Primary Cache:	128KBI + 128KBD on chip		
Secondary Cache:	4MB(I+D) on chip		
L3 Cache:	None		
Other Cache:	None		
Memory:	16GB (512MB x 32)		
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)

```

-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.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

```

Extended Interleave Mode enabled.

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