CFP2000 Result

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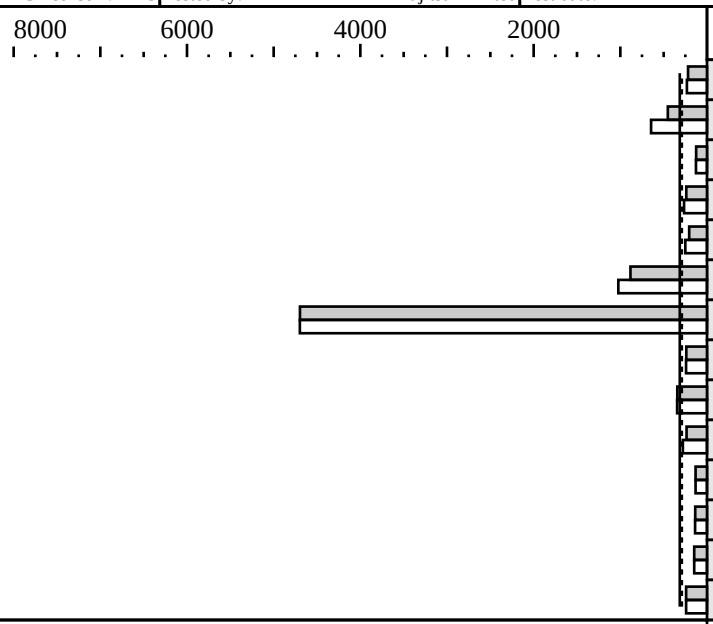
Fujitsu Limited
PRIMEPOWER1500 (2160MHz)

SPECfp_rate2000 = 314

SPECfp_rate_base2000 = 291

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	16	136	219	16	128	232
171.swim	16	127	452	16	89.2	645
172.mgrid	16	267	125	16	262	127
173.applu	16	163	239	16	147	265
177.mesa	16	126	206	16	104	250
178.galgel	16	60.9	883	16	52.6	1023
179.art	16	10.3	4697	16	10.3	4698
183.equake	16	101	239	16	99.9	242
187.facerec	16	103	343	16	102	345
188.ammp	16	173	236	16	147	278
189.lucas	16	282	132	16	281	132
191.fma3d	16	287	136	16	284	137
200.sixtrack	16	138	148	16	138	148
301.apsi	16	200	241	16	200	241

Hardware

CPU:	SPARC64 V
CPU MHz:	2160
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 chips, 1 core/chip
CPU(s) orderable:	1 to 32 (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:	64GB (512MB x 128)
Disk Subsystem:	1 x 36.4GB SCSI (10000rpm)
Other Hardware:	None

Software

Operating System:	Solaris 10
Compiler:	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)

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

4 CPUs each on 4 system boards. Unused CPUs have physically removed.

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