



CFP2000 Result

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Fujitsu Siemens Computers
PRIMEPOWER800/1000/2000 (675MHz)

SPECfp2000 = **456**
SPECfp_base2000 = **332**

SPEC license #: 22 Tested by: Fujitsu Limited Test date: Aug-2001 Hardware Avail: Nov-2001 Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	1000 2000 3000 4000			
168.wupwise	1600	500	320	339	472	[Bar chart]			
171.swim	3100	941	329	852	364	[Bar chart]			
172.mgrid	1800	765	235	583	309	[Bar chart]			
173.applu	2100	1108	190	528	398	[Bar chart]			
177.mesa	1400	395	354	372	376	[Bar chart]			
178.galgel	2900	266	1089	228	1269	[Bar chart]			
179.art	2600	544	478	105	2472	[Bar chart]			
183.earthquake	1300	742	175	389	334	[Bar chart]			
187.facerec	1900	382	497	305	623	[Bar chart]			
188.amp	2200	535	411	509	432	[Bar chart]			
189.lucas	2000	768	260	755	265	[Bar chart]			
191.fma3d	2100	854	246	838	251	[Bar chart]			
200.sixtrack	1100	394	279	348	316	[Bar chart]			
301.apsi	2600	744	350	731	356	[Bar chart]			

Hardware

CPU: SPARC64 GP
CPU MHz: 675
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 4 to 16/4 to 32/8 to 128
Parallel: None
Primary Cache: 128KBI+128KBD on chip
Secondary Cache: 8MB(I+D) off chip, per CPU
L3 Cache: None
Other Cache: None
Memory: 8192MB
Disk Subsystem: 1 x 18.2GB SCSI (10025rpm)
Other Hardware: Ethernet

Software

Operating System: Solaris 8 4/01
Compiler: Fujitsu Parallelnavi 1.0.2
Sun Forte Developer 6 update 2
File System: ufs
System State: single user

Notes/Tuning Information

```
FDO: (Parallelnavi 1.0.2)
fdo_pre0=rm -rf `pwd`/*.*.d
PASS1=-Kpg PASS2=-Kpu
FDO: (Forte Developer 6 update 2)
fdo_pre0=rm -rf `pwd`/../feedback.profile
PASS1=-xprofile=collect:`pwd`/../feedback
PASS2=-xprofile=use:`pwd`/../feedback
Baseline :
(using Fortran compiler of Parallelnavi 1.0.2)
-Kfast_GP=2,largepage -O4 -fs FDO

(using C compiler of Parallelnavi 1.0.2)
-Kfast_GP=2,largepage FDO

Peak:
(using Fortran compiler of Parallelnavi 1.0.2)
168.wupwise: -Kfast_GP=2,prefetch=4,nounroll -x dir=`pwd`/../../src -fs
```



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Notes/Tuning Information (Continued)

FDO ONESTEP=yes

171.swim: -Kfast_GP=2,GREG,preex,ilfunc,prefetch=3,largepage,commonpad=152,prefetch_iteration=3,unroll=2,nogs,frecipro
-O4 -fs

172.mgrid: -Kfast_GP=2,preex,GREG,commonpad=144,unroll=3,largepage,prefetch=3
-O4 -fs

178.galgel: -Kfast_GP=2,GREG,largepage,preex,unroll=2,prefetch_iteration=2,commonpad=24
-O4 -lssl2mtfma -fs FDO

RM_SOURCES=lapak.f90

189.lucas: -Kfast_GP=2,GREG,preex,largepage,nounroll -O4 -fs FDO

191.fma3d: -Kfast_GP=2,preex,GREG,nounroll,prefetch=4,largepage -O4 -fs FDO

200.sixtrack: -Kfast_GP=2,GREG,noprefetch,unroll=4,largepage,frecipro -fs

301.apsi: -Kfast_GP=2,GREG,preex,largepage,unroll=2 -O4 -fs FDO

(using C compiler of Parallelnavi 1.0.2)

188.ammp: -Kfast_GP=2,GREG,popt,prefetch=4,preex,preload,largepage,fuse,unroll=3 -x-

(using FORTRAN77 compiler of Forte Developer 6 update 2)

173.applu: -fast -Qoption iropt -whole,-Adata_access,-Mt6000,-Mm12000,-Mr40000,-Ma400 -xarch=v8plus -dn
ONESTEP=yes

(using FORTRAN90 compiler of Forte Developer 6 update 2)

187.facerec: -fast -xarch=v9 FDO ONESTEP=yes

(using C compiler of Forte Developer 6 update 2)

177.mesa: -fast -xcrossfile -xrestrict -xalias_level=std -xregs=syst -Wc,-Qgsched-trace_late=1,-Qgsched-trace_spec_load=1
-xarch=v8plus -W2,-Amemopt -dn

FDO ONESTEP=yes

179.art: -fast -xalias_level=strong -xdepend -xregs=syst -W2,-whole,-Amemopt
-xarch=v8plus -lmopt -lm -dn FDO ONESTEP=yes

183.quake: -fast -xalias_level=strong -xdepend -W2,-whole,-Amemopt
-xarch=v8plus -lmopt -lm FDO ONESTEP=yes

Portability:

(for Parallelnavi 1.0.2)

178.galgel: -Am -Fixed

187.facerec: -Am

191.fma3d: -Am

Note:

System Tunables: (for /etc/system)

consistent_coloring=1, tune_t_fsflushr=86400, autoup=86400,

shmsys:shminfo_shmmax=8589934592, shmsys:shminfo_shmmni=1024, shmsys:shminfo_shmseg=1024

(for /etc/opt/FJSVpnm/lpg.conf)

TSS=512M, SHMSEGSIZE=256M

Feedback directed optimization was used for all baseline benchmarks and peak benchmarks except following peak benchmarks: 171.swim, 172.mgrid, 173.applu, 188.ammp, 200.sixtrack.

System board used with only one CPU present.