



CFP2000 Result

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Sun Microsystems
Sun Enterprise 450

SPECfp2000 = 291

SPECfp_base2000 = 274

SPEC license #: 6 Tested by: Sun Microsystems, Palo Alto Test date: Aug-2000 Hardware Avail: Aug-2000 Software Avail: Oct-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	563	284	563	284
171.swim	3100	1090	285	1090	285
172.mgrid	1800	796	226	795	226
173.applu	2100	1405	150	749	280
177.mesa	1400	513	273	518	270
178.galgel	2900	395	735	393	737
179.art	2600	283	920	249	1044
183.earthquake	1300	873	149	846	154
187.facerec	1900	414	459	414	459
188.ammmp	2200	702	313	687	320
189.lucas	2000	978	205	978	205
191.fma3d	2100	1016	207	1016	207
200.sixtrack	1100	692	159	689	160
301.apsi	2600	1378	189	1328	196

Hardware

CPU: UltraSPARC II
 CPU MHz: 480
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1 to 4
 Parallel: None
 Primary Cache: 16KBI+16KBD on chip
 Secondary Cache: 8MB(I+D) off chip
 L3 Cache: None
 Other Cache: None
 Memory: 512MB
 Disk Subsystem: 2*9.1GB(7200 RPM)
 Other Hardware:

Software

Operating System: Solaris 8
 Compiler: Forte Developer 6 update 1
 File System: UFS
 System State: single user

Notes/Tuning Information

Portability: 178.galgel: -e -fixed

Base C flags: -fast -xcrossfile -xprofile -xalias_level=std

Base F90 flags: -fast -xcrossfile -xprofile

Peak flags:

168.wupwise : -fast -xcrossfile -xprofile

171.swim : -fast -xcrossfile -stackvar -xprofile -dn

172.mgrid : -fast -xcrossfile -xprofile

173.applu : -fast -Qoption iropt -Adata_access,-Mt6000,-Mm12000,-Mr40000,-Ma400,-whole -dn

177.mesa : -fast -xcrossfile -xalias_level=std -xprofile -dn

178.galgel : -fast -xcrossfile -stackvar -xprofile -dn

179.art : -fast -W2,-O4+ansi_alias -xrestrict -W2,-O4+restrict_g -xprofile

183.earthquake : -fast -xcrossfile -xalias_level=strong -xdepend -xprofile -dn

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Notes/Tuning Information (Continued)

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187.facerec : -fast -xcrossfile -xprofile
188.ammpp   : -fast -xcrossfile -xalias_level=strong -xdepend -xprofile -dn
189.lucas   : -fast -xcrossfile -xprofile -
191.fma3d   : -fast -xcrossfile -xprofile
200.sixtrack: -fast -xcrossfile -xprofile
301.apsi    : -fast -xcrossfile -Qoption f90comp -expansion -xprofile -dn
```

Proper operation of -xcrossfile requires simultaneous presentation of all source files to the compiler. This is accomplished within the SPECcpu2000 suite by setting ONESTEP = yes.

Baseline: f90 used for all benchmarks.

Peak: f90 used for the Fortran90 benchmarks (178.galgel, 187.facerec, 189.lucas, 191.fma3d) and for 301.apsi. f77 used for the other Fortran benchmarks.