



CFP2000 Result

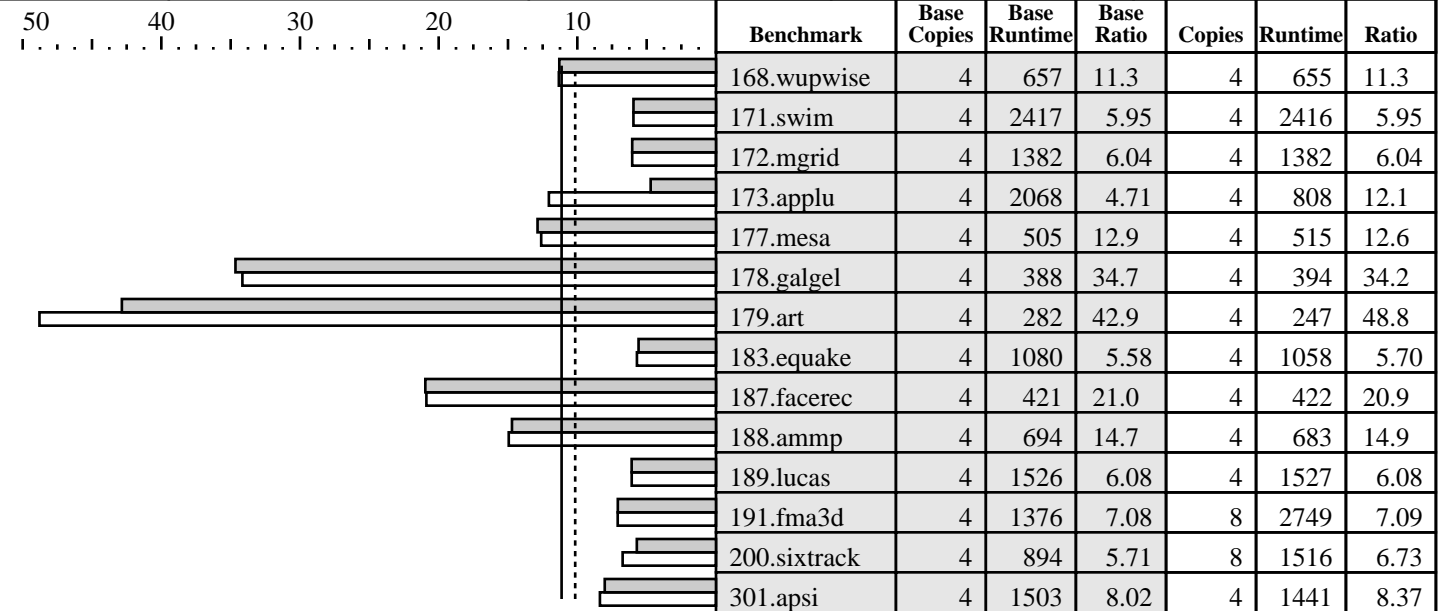
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Sun Microsystems
Sun Enterprise 450

SPECfp_rate2000 = 11.1

SPECfp_rate_base2000 = 10.2

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



Hardware

CPU: UltraSPARC II
CPU MHz: 480
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 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: 1024MB
Disk Subsystem: 1*9.1GB(7200 RPM) + 1*4.5GB(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.equake : -fast -xcrossfile -xalias_level=strong -xdepend -xprofile -dn

187.facerec : -fast -xcrossfile -xprofile



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Notes/Tuning Information (Continued)

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188.ammmp      : -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.