



CFP2000 Result

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Sun Microsystems Sun Enterprise 420R

SPECfp2000 = 265

SPECfp_base2000 = 251

SPEC license #: 1986 Tested by: gcocco software, inc Test date: Mar-2001 Hardware Avail: Jun-2000 Software Avail: Jan-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	666	240	666	240
171.swim	3100	1006	308	1007	308
172.mgrid	1800	798	226	798	226
173.applu	2100	1411	149	807	260
177.mesa	1400	571	245	588	238
178.galgel	2900	430	674	432	671
179.art	2600	307	847	282	921
183.earthquake	1300	879	148	850	153
187.facerec	1900	612	311	612	311
188.amp	2200	1047	210	1022	215
189.lucas	2000	960	208	898	223
191.fma3d	2100	1102	191	1102	191
200.sixtrack	1100	724	152	724	152
301.apsi	2600	1367	190	1276	204

Hardware

CPU: UltraSPARC II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1 to 4
Parallel: No
Primary Cache: 16KBI+16KBD on chip
Secondary Cache: 4MB(I+D) off chip
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 2*36GB(10000 RPM)
Other Hardware: None

Software

Operating System: Solaris 8 - 01/2001
Compiler: Forte Developer 6 update 1
File System: UFS
System State: multi user

Notes/Tuning Information

Forte Developer Version 6.1 Compilers

Portability Flags:

178.galgel: -e -fixed

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

Base F90 flags: -fast -xcrossfile -xprofile

Peak Flags:

168.wupwise: basepeak = yes

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

172.mgrid: basepeak = yes

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

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

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

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

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Notes/Tuning Information (Continued)

```
-W2,-O4+restrict_g -xprofile
183.equake: -fast -xcrossfile -xalias_level=strong -xdepend
            -xprofile -dn
187.facerec: basepeak = yes
188.ammf:   -fast -xcrossfile -xalias_level=std ONESTEP=no (nofdo)
189.lucas:  -fast -xcrossfile ONESTEP=no (nofdo)
191.fma3d:  basepeak = yes
200.sixtrack: basepeak = yes
301.apsi:   -fast -xcrossfile -Qoption f90comp -expansion
            -xprofile -dn
```

(nofdo): no feedback directed optimization
Proper operation of -xcrossfile requires the simultaneous presentation of all source files to the compiler. This is accomplished within the SPECcpu2000 suite by setting ONESTEP=yes.

Base: f90 used for all FORTRAN 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.
For more information, see the tester's website: <http://www.gcocco.com>