



CFP2000 Result

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IBM Corporation
RS/6000 Model 7026-F80 (4 CPU)

SPECfp_rate2000 = 9.45
SPECfp_rate_base2000 = 9.26

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Apr-2000 | Hardware Avail: Jun-2000 | Software Avail: May-2000

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	510	14.5	4	491	15.1
171.swim	4	1817	7.92	4	1807	7.96
172.mgrid	4	1288	6.48	4	1250	6.68
173.applu	4	1449	6.72	4	1417	6.88
177.mesa	4	813	7.99	4	809	8.03
178.galgel	4	766	17.6	4	763	17.6
179.art	4	630	19.1	4	630	19.1
183.quake	4	765	7.89	4	742	8.13
187.facerec	4	801	11.0	4	801	11.0
188.amp	4	1110	9.20	4	1003	10.2
189.lucas	4	1243	7.47	4	1230	7.55
191.fma3d	4	1248	7.81	4	1218	8.00
200.sixtrack	4	980	5.21	4	980	5.21
301.apsi	4	1149	10.5	4	1149	10.5

Hardware

CPU: IBM PowerPC RS64-III
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 2,4
Parallel: No
Primary Cache: 128KBI+128KBD (on chip)
Secondary Cache: 4MB (I+D) (off chip, per CPU)
L3 Cache: None
Other Cache: None
Memory: 2GB
Disk Subsystem: 2x18.2GB SCSI, 7200 RPM
Other Hardware: None

Software

Operating System: AIX 4.3.3 plus APAR IY09807
Compiler: IBM XL Fortran 7.1.0
IBM C 5.0.1
File System: AIX/JFS
System State: Multi-user

Notes/Tuning Information

Portability Flags

-qfixed used in: wupwise, swim, mgrid, applu, galgel, sixtrack, apsi
-qsuffix=f=f90 used in: galgel, facerec, lucas, fma3d

NOTE: The flag combination 'qpdf1/qpdf2' indicates a 2 step compilation process, the exact process is as follows:

```
fdo_pre0 = rm -rf ${PDFDIR}; mkdir -p ${PDFDIR}
PASS1_FLAGS    =-qpdf1 {optimization flags}
PASS1_LDFLAGS  ={libraries} -L{pdf library location} -lpdf
PASS2_FLAGS    =-qpdf2 {optimization flags}
PASS2_LDFLAGS  =-{libraries}
```

Base Flags:

Fortran: -O5 -lmass
C: -O5 -lmass

Peak Flags:

168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass, fdpr -v -R3
171.swim: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass -qhot, fdpr -v -R3
172.mgrid: -O4 -qarch=pwr3



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Notes/Tuning Information (Continued)

```
173.applu: -O3
177.mesa: -O3 -qarch=ppc,fdpr -v -R3
178.galgel: -O4 -qipa=level=2 -qhot -lmass, fdpr -v -R3
179.art: -O5 -lmass
183.quake: -O5 -lmass -lhm
187.facerec: -O5 -lmass
188.amp: -O3 -lmass
189.lucas: -qpdf1/pdf2 -O3 -qarch=rs64b -lmass,fdpr -v -R3
191.fma3d: -O3 -lmass
200.sixtrack: -O5 -lmass
301.apsi: -O5 -lmass
```