



CFP2000 Result

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IBM Corporation
RS/6000 Model 7026-F80 (1 CPU)

SPECfp2000 = 210

SPECfp_base2000 = 205

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	468	342	445	360	
171.swim	3100	1600	194	1607	193	
172.mgrid	1800	1132	159	1083	166	
173.applu	2100	1148	183	1084	194	
177.mesa	1400	812	172	810	173	
178.galgel	2900	934	310	947	306	
179.art	2600	1235	211	1235	211	
183.quake	1300	654	199	623	209	
187.facerec	1900	817	233	817	233	
188.amp	2200	1256	175	1172	188	
189.lucas	2000	924	216	896	223	
191.fma3d	2100	1120	188	1056	199	
200.sixtrack	1100	805	137	805	137	
301.apsi	2600	1083	240	1083	240	

Hardware

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