



CFP2000 Result

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IBM Corporation
RS/6000 Model 7026-M80 (1 CPU)

SPECfp2000 = 250

SPECfp_base2000 = 243

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	440	364	420	381	
171.swim	3100	1322	234	1308	237	
172.mgrid	1800	1066	169	1019	177	
173.applu	2100	1099	191	1041	202	
177.mesa	1400	734	191	732	191	
178.galgel	2900	676	429	687	422	
179.art	2600	530	491	530	491	
183.quake	1300	630	206	603	216	
187.facerec	1900	691	275	691	275	
188.amp	2200	1003	219	908	242	
189.lucas	2000	868	231	844	237	
191.fma3d	2100	1057	199	1000	210	
200.sixtrack	1100	725	152	725	152	
301.apsi	2600	988	263	988	263	

Hardware

CPU: IBM PowerPC RS64-III
 CPU MHz: 500
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 2,4,6,8
 Parallel: No
 Primary Cache: 128KBI+128KBD (on chip)
 Secondary Cache: 4MB (I+D) (off chip, per CPU)
 L3 Cache: None
 Other Cache: None
 Memory: 4GB
 Disk Subsystem: 2x9.1GB Ultra SCSI, 7200RPM
 Other Hardware: None

Software

Operating System: AIX 4.3.3 plus APAR IY09807
 Compiler: Fortran 77 and 90: IBM XL Fortran 7.1 invoked as 'xlF90'
 C: IBM VAC 5.0.1 invoked as 'xlc'
 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.lucus: -qpdf1/pdf2 -O3 -qarch=rs64b -lmass,fdpr -v -R3
191.fma3d: -O3 -lmass
200.sixtrack: -O5 -lmass
301.apsi: -O5 -lmass
```

NOTE: 8 CPUs were installed, but 7 were disabled via the service processor setup menu.