CFP2000 Result

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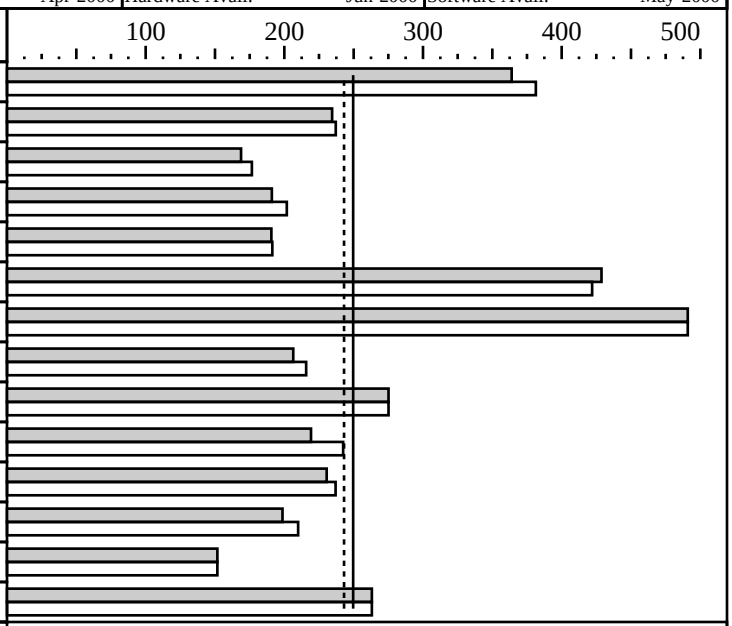
IBM Corporation
RS/6000 Model 7026-M80 (1 CPU)

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.equake	1300	630	206	603	216
187.facerec	1900	691	275	691	275
188.ammp	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.equake:  -O5 -lmass -lhmu
187.facerec: -O5 -lmass
188.ammp:    -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.
```