CFP2000 Result

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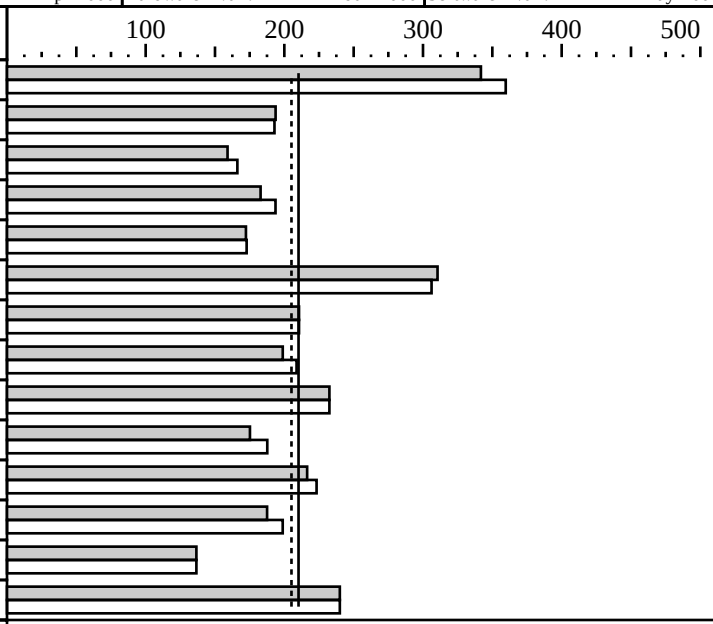
IBM Corporation
RS/6000 Model 7026-F80 (1 CPU)

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.equake	1300	654	199	623	209
187.facerec	1900	817	233	817	233
188.ammp	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 -lhmu
187.facerec: -O5 -lmass
188.ammp:    -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
```