CFP2000 Result

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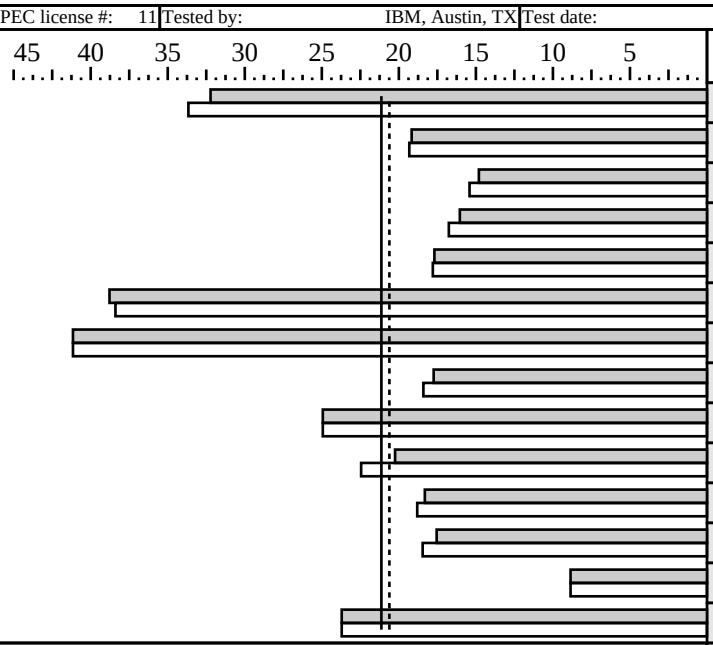
IBM Corporation
RS/6000 Model 7026-M80 (8 CPU)

SPECfp_rate2000 = 21.1

SPECfp_rate_base2000 = 20.6

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	8	461	32.2	8	441	33.7
171.swim	8	1501	19.2	8	1489	19.3
172.mgrid	8	1128	14.8	8	1084	15.4
173.applu	8	1215	16.0	8	1163	16.8
177.mesa	8	734	17.7	8	730	17.8
178.galgel	8	694	38.8	8	701	38.4
179.art	8	586	41.2	8	586	41.2
183.equake	8	680	17.7	8	655	18.4
187.facerec	8	707	24.9	8	707	24.9
188.ammp	8	1008	20.2	8	909	22.4
189.lucas	8	1013	18.3	8	987	18.8
191.fma3d	8	1111	17.5	8	1056	18.5
200.sixtrack	8	1153	8.86	8	1153	8.86
301.apsi	8	1018	23.7	8	1018	23.7

Hardware

CPU:	IBM PowerPC RS64-III
CPU MHz:	500
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 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,7200 RPM
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.lucas:   -qpdf1/pdf2 -O3 -qarch=rs64b -lmass,fdpr -v -R3
191.fma3d:   -O3 -lmass
200.sixtrack:-O5 -lmass
301.apsi:    -O5 -lmass
```