CFP2000 Result

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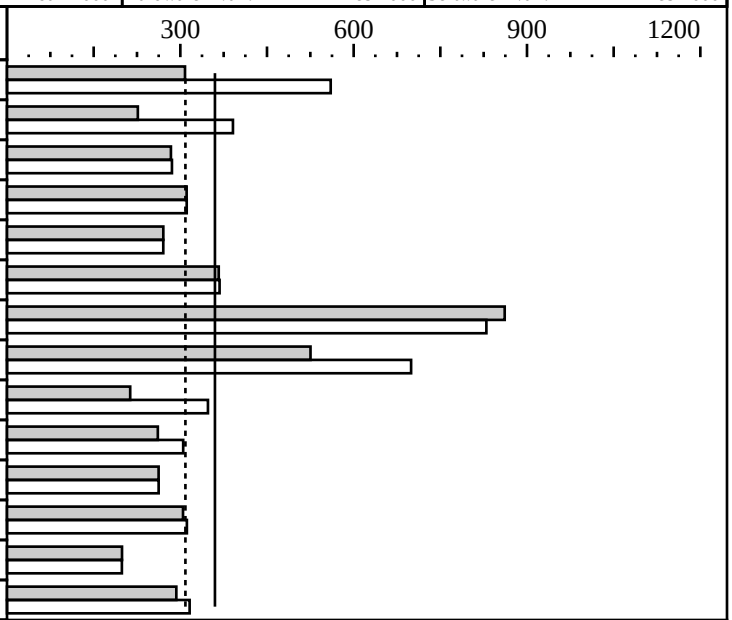
IBM Corporation
RS/6000 44P-270 (1 CPU)

SPECfp2000 = 360

SPECfp_base2000 = 309

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jan-2000 | Hardware Avail: Feb-2000 | Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	519	308	286	560
171.swim	3100	1369	226	793	391
172.mgrid	1800	634	284	631	285
173.applu	2100	675	311	675	311
177.mesa	1400	517	271	518	270
178.galgel	2900	791	366	788	368
179.art	2600	302	861	313	830
183.equake	1300	247	525	186	699
187.facerec	1900	891	213	546	348
188.ammp	2200	843	261	721	305
189.lucas	2000	762	262	762	262
191.fma3d	2100	689	305	675	311
200.sixtrack	1100	553	199	553	199
301.apsi	2600	887	293	823	316



Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2,3,4
Parallel:	None
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	4MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	2x9.1GB IBM Fast/Wide SCSI 7200 RPM
Other Hardware:	None

Software

Operating System:	AIX 4.3.3
Compiler:	Fortran 77 and 90: IBM XL Fortran 6.1 invoked as 'xlf90' C: IBM VAC 5.0 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  =<optimized libraries> -L<pdf library location> -lpdf
  PASS2_FLAGS    =-qpdf2 <optimization flags>
  PASS2_LDFLAGS  =-<optimized libraries>
Base Flags:
  Fortran: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  C: -O5 -lmass
Peak Flags:
  168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass
  171.swim: -qpdf1/pdf2 -O4 -qipa=level=2 -qhot -lmass
  172.mgrid:-O3 -qarch=pwr3 -qhot
```

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Notes/Tuning Information (Continued)

```
  173.applu: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  177.mesa: -O5 -lmass
  178.galgel: -O4 -qipa=level=2 -qhot -lmass
  179.art: -O5 -lmass
  183.equake: -O5 -lmass -lhmu
  187.facerec: -O3 -qarch=pwr3 -qhot -lmass
  188.ammp: -O3 -qarch=pwr3 -bnso -bI:/lib/syscalls.exp
  189.lucas: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  191.fma3d: -O4  -qipa=level=2 -qhot -lmass
  200.sixtrack: -O3 -qarch=pwr3
  301.apsi: -O4 -qipa=level=2 -qhot -lmass -bnso -bI:/lib/syscalls.exp
NOTE: 4 CPUs were installed, but 3 were disabled via the service processor setup menu.
```