CFP2000 Result

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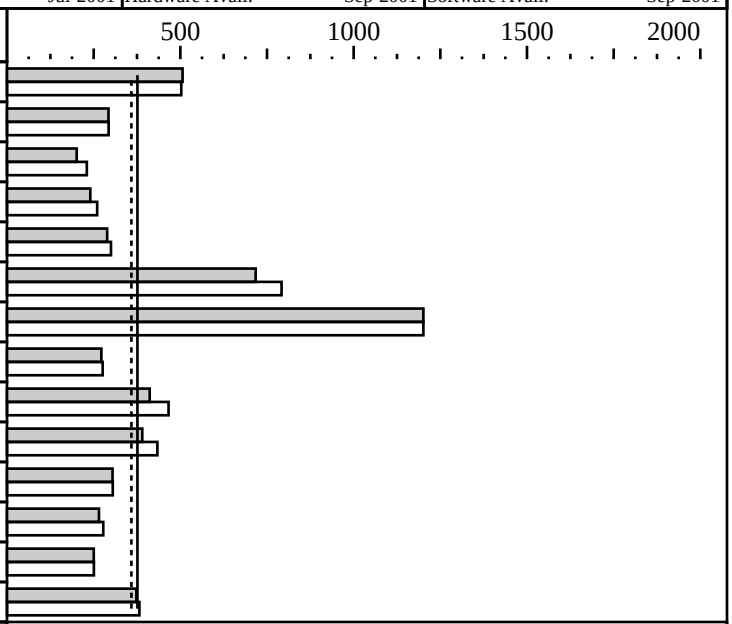
IBM Corporation
IBM RS/6000 Model M80 (750 MHz)

SPECfp2000 = 376

SPECfp_base2000 = 359

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Jul-2001 | Hardware Avail: Sep-2001 | Software Avail: Sep-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	316	506	318	503
171.swim	3100	1059	293	1057	293
172.mgrid	1800	895	201	782	230
173.applu	2100	874	240	807	260
177.mesa	1400	485	289	467	300
178.galgel	2900	404	717	366	792
179.art	2600	216	1201	216	1201
183.equake	1300	478	272	471	276
187.facerec	1900	462	412	408	466
188.ammp	2200	564	390	507	434
189.lucas	2000	657	304	656	305
191.fma3d	2100	792	265	756	278
200.sixtrack	1100	440	250	439	251
301.apsi	2600	697	373	681	382



Hardware

CPU:	RS64 IV
CPU MHz:	750
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:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	2GB
Disk Subsystem:	1x9.1GB, 1x4.3GB Fast SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	Fortran 77 and 90: IBM xl Fortran 7.1.0.2 invoked as 'xlf90' for Fortran 90 and as 'xlf' for Fortran 77 C: IBM VAC++ 5.0.0.2 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
Base Flags:
  Fortran: -O5 -lmass
  C:       -O5 -lmass
Peak Flags:
  168.wupwise: -qpdf1/pdf2 -O5 -lmass -lhmu -L/usr/lpp/xlf/lib/pdf
  171.swim:    -O4 -qarch=pwr3 -lmass
  172.mgrid:   -O4 -qarch=pwr3
  173.applu:   -qpdf1/pdf2 -O3 -lmass -qipa=level=2:partition=large
  177.mesa:    -qpdf1/pdf2 -O3 -qarch=rs64b -L/usr/vac/lib, fdpr -v -R3
  178.galgel:  -O4 -qarch=rs64b -lessl
  179.art:     basepeak=1
  183.equake:  -O5 -lmass -lhmu
  187.facerec: -O5 -qarch=pwr3 -lmass -qhot fdpr -v -R3
  188.ammp:    -O5 -qarch=pwr3 -qipa=partition=large -qalign=natural -lmass
```

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Notes/Tuning Information (Continued)

```
  189.lucas:    -O3 -lmass -lhmu
  191.fma3d:    -O3 -lmass -lhmu
  200.sixtrack:-O3 -qarch=rs64c
  301.apsi:     -O4 -qarch=pwr3 -lmass -qhot
fdpr: Feedback directed program restructuring tool
APAR IY 21957 was applied to AIX 5.1.0 to enable new hardware support.
/usr/spec2000 file system mounted with no JFS log file I/O.
```