CFP2000 Result

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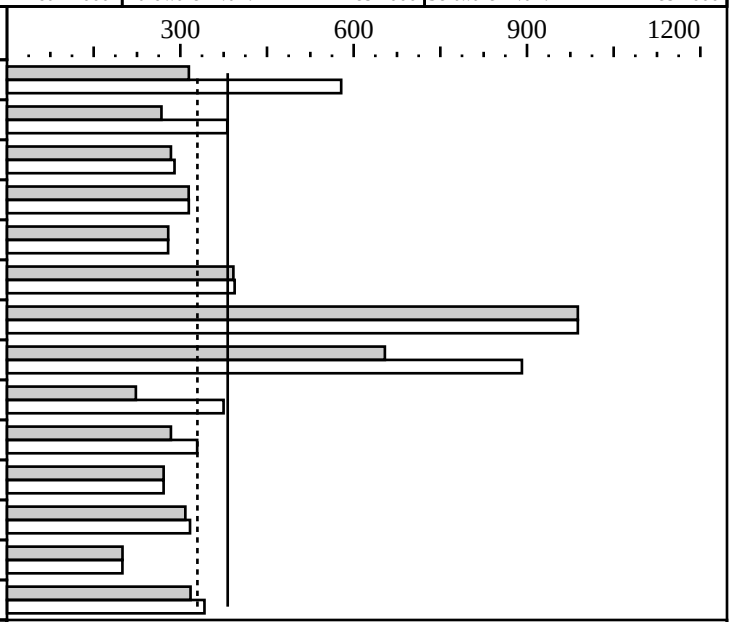
IBM Corporation
RS/6000 SP-375MHz T/W (1 CPU)

SPECfp2000 = 382

SPECfp_base2000 = 330

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	508	315	277	578
171.swim	3100	1160	267	813	381
172.mgrid	1800	634	284	621	290
173.applu	2100	668	314	667	315
177.mesa	1400	502	279	502	279
178.galgel	2900	740	392	736	394
179.art	2600	263	988	263	988
183.equake	1300	199	654	146	891
187.facerec	1900	852	223	507	375
188.ammp	2200	775	284	668	329
189.lucas	2000	738	271	738	271
191.fma3d	2100	680	309	663	317
200.sixtrack	1100	550	200	551	200
301.apsi	2600	818	318	761	342



Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	2,4
Parallel:	None
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	2x9.1GB IBM Fast/Wide SCSI 7200 RPM
Other Hardware:	Ethernet

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: 2 CPUs were installed, but one was disabled via the service processor setup menu.
```