# CFP2000 Result

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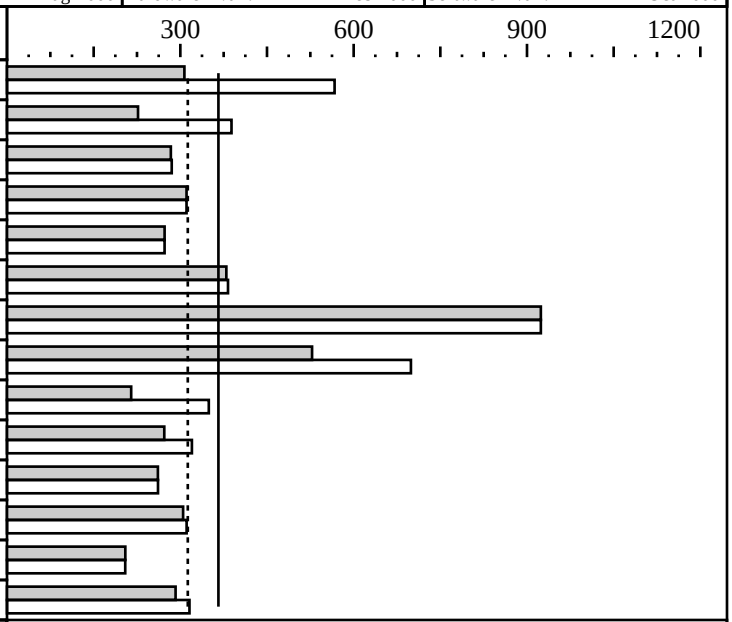
## IBM Corporation
## RS/6000 44P-270 (1 CPU, 4MB L2)

SPECfp2000 = 366

SPECfp_base2000 = 313

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 168.wupwise | 1600 | 521 | 307 | 282 | 567 |
| 171.swim | 3100 | 1367 | 227 | 798 | 389 |
| 172.mgrid | 1800 | 635 | 284 | 631 | 285 |
| 173.applu | 2100 | 676 | 311 | 676 | 311 |
| 177.mesa | 1400 | 513 | 273 | 513 | 273 |
| 178.galgel | 2900 | 764 | 380 | 758 | 383 |
| 179.art | 2600 | 281 | 924 | 281 | 924 |
| 183.equake | 1300 | 246 | 528 | 186 | 699 |
| 187.facerec | 1900 | 884 | 215 | 544 | 349 |
| 188.ammp | 2200 | 808 | 272 | 687 | 320 |
| 189.lucas | 2000 | 766 | 261 | 765 | 261 |
| 191.fma3d | 2100 | 689 | 305 | 676 | 311 |
| 200.sixtrack | 1100 | 537 | 205 | 538 | 205 |
| 301.apsi | 2600 | 891 | 292 | 823 | 316 |




### Hardware

| | |
|---|---|
| CPU: | IBM 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: | No |
| Primary Cache: | 32KBI+64KBD (on chip) |
| Secondary Cache: | 4MB (I+D) (off chip) |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4GB |
| Disk Subsystem: | 1x9.1GB IBM Ultra-2 SCSI, 10000RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | AIX 4.3.3 + beta of APAR IY12051 |
| Compiler: | Fortran 77 and 90: IBM xl Fortran 6.1 invoked as 'xlf90'<br>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  ={libraries} -L{pdf library location} -lpdf
  PASS2_FLAGS    =-qpdf2 {optimization flags}
  PASS2_LDFLAGS  =-{libraries}
Base Optimization Flags:
  Fortran: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  C: -O5 -lmass
Peak Optimization 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
```