### CFP2000 Result

**IBM Corporation**  
**RS/6000 44P-170 (450 MHz)**  
**SPECfp2000 =** 409  
**SPECfp_base2000 =** 356

**Hardware**  
- **CPU:** IBM Power3-II  
- **CPU MHz:** 450  
- **FPU:** Integrated  
- **CPU(s) enabled:** 1 core, 1 chip, 1 core/chip  
- **CPU(s) orderable:** 1  
- **Parallel:** No  
- **Primary Cache:** 32KBI+64KBD (on chip)  
- **Secondary Cache:** 8MB (I+D) (off chip)  
- **L3 Cache:** None  
- **Other Cache:** None  
- **Memory:** 512MB  
- **Disk Subsystem:** 1X9.1GB IBM Ultra-2 SCSI, 7200 RPM

**Software**  
- **Operating System:** AIX 4.3.3 + beta of APAR IY12051  
- **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 =-{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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RS/6000 44P-170 (450 MHz)

Notes/Tuning Information (Continued)

173.applu: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
177.mesa: -O5 -lmass
178.sycl: -O4 -qipa=level=2 -qhot -lmass
179.art: -O5 -lmass
183.equake: -O5 -lmass -lhm
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