



# CFP2000 Result

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IBM Corporation  
RS/6000 44P-170 (333 MHz)

SPECfp2000 = 266  
SPECfp\_base2000 = 225

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	581	275	311	515	
171.swim	3100	2402	129	1003	309	
172.mgrid	1800	752	239	750	240	
173.applu	2100	738	284	738	285	
177.mesa	1400	600	233	599	234	
178.galgel	2900	1419	204	1430	203	
179.art	2600	972	267	972	267	
183.quake	1300	275	472	230	566	
187.facerec	1900	1064	179	744	255	
188.amp	2200	1509	146	1322	166	
189.lucas	2000	900	222	900	222	
191.fma3d	2100	773	272	754	278	
200.sixtrack	1100	615	179	617	178	
301.apsi	2600	1282	203	1086	239	

### Hardware

CPU: Power3-II  
CPU MHz: 333  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: None  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 1MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 1GB  
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.quake: -O5 -lmass -lhm
187.facerec: -O3 -qarch=pwr3 -qhot -lmass
188.amp: -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
```