



# CFP2000 Result

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

SPECfp2000 = 277  
SPECfp\_base2000 = 274

SPEC license #: 11 Tested by: IBM, Austin, TX Test date: May-2002 Hardware Avail: Feb-2000 Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	320	499	320	499	
171.swim	3100	991	313	991	313	
172.mgrid	1800	728	247	728	247	
173.applu	2100	746	281	746	281	
177.mesa	1400	634	221	634	221	
178.galgel	2900	705	412	689	421	
179.art	2600	906	287	906	287	
183.earthquake	1300	281	462	268	484	
187.facerec	1900	687	277	687	277	
188.amp	2200	1373	160	1351	163	
189.lucas	2000	894	224	886	226	
191.fma3d	2100	743	283	722	291	
200.sixtrack	1100	604	182	604	182	
301.apsi	2600	1262	206	1262	206	

### Hardware

CPU: POWER3-II  
 CPU MHz: 333  
 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: 1MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 512MB  
 Disk Subsystem: 1x9.1GB SCSI  
 Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
 Compiler: IBM XL FORTRAN for AIX, Version 7.1.1.1  
 IBM VisualAge C++ for AIX, Version 6.0 BETA  
 Other Software: MASS 2.7  
 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 Optimization Flags:

Fortran: -O5 -lmass  
 C: -O5 -lmass

### Peak Optimization Flags:

168.wupwise: basepeak=1  
 171.swim: basepeak=1  
 172.mgrid: basepeak=1  
 173.applu: basepeak=1  
 177.mesa: basepeak=1  
 178.galgel: -O5  
 179.art: basepeak=1  
 183.earthquake: -O5 -lmass -lhmu -qinline  
 187.facerec: basepeak=1



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## Notes/Tuning Information (Continued)

```
188. ammp:      -O3 -qarch=pwr3
189. lucas:     -qpdl1/pdf2 -O3 -lhm -lmas
               -qipa=partition=large, fdpr -v -R3
191. fma3d:    -O4 -lmas -qipa=partition=large
200. sixtrack: basepeak=1
301. apsi:     basepeak=1
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX 5L V5.1 to enable new hardware support.
ulimits set to unlimited.
Fortran 77 and 90: IBM XL Fortran 7.1.1.1 for AIX invoked
as xlf90.
C: IBM VAC++ invoked as xlc.
The final version of the beta compiler will be available by Sep-2002.
```