



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6C1 333MHz

SPECfp2000 = 333

SPECfp\_base2000 = 329

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Jan-2002 | Hardware Avail: Feb-2002 | Software Avail: Feb-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	311	514	311	514	
171.swim	3100	849	365	849	365	
172.mgrid	1800	666	270	666	270	
173.applu	2100	733	287	738	285	
177.mesa	1400	593	236	586	239	
178.galgel	2900	435	666	435	666	
179.art	2600	429	606	429	606	
183.earthquake	1300	273	477	254	511	
187.facerec	1900	555	342	555	342	
188.amp	2200	883	249	865	254	
189.lucas	2000	857	233	847	236	
191.fma3d	2100	729	288	698	301	
200.sixtrack	1100	630	175	630	175	
301.apsi	2600	976	266	976	266	

### Hardware

CPU: POWER3-II  
CPU MHz: 333  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2  
Parallel: No  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 4MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 2GB  
Disk Subsystem: 2x18GB 10000RPM  
Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
Compiler: IBM XL FORTRAN for AIX, Version 7.1.1.0  
IBM VisualAge C++ for AIX, Version 5.0.2.1  
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: -O5 -lmass -qipa=partition=large  
177.mesa: -O5 -lmass -qipa=partition=large, fdpr -v -R3  
178.galgel: (basepeak=1)  
179.art: (basepeak=1)  
183.earthquake: -O5 -lmass -lhmu -qinline  
187.facerec: (basepeak=1)  
188.amp: -O3 -qarch=pwr3



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## Notes/Tuning Information (Continued)

```
189.lucas:      -qpdf1/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)
fpdr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O
APAR IY22854 was applied to AIX 5L V5.1 to enable new hardware support
ulimits set to unlimited
Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked
as xlf90 for Fortran 90 and as xlf for Fortran 77
C: IBM VAC++ 5.0.2.1 invoked as xlc
```