



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 375MHz

SPECfp\_rate2000 = 7.82

SPECfp\_rate\_base2000 = 7.74

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Sep-2001 | Hardware Avail: Oct-2001 | Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	329	11.3	2	329	11.3
171.swim	2	1094	6.58	2	1094	6.58
172.mgrid	2	684	6.11	2	684	6.11
173.applu	2	803	6.07	2	798	6.11
177.mesa	2	526	6.17	2	514	6.32
178.galgel	2	379	17.8	2	379	17.8
179.art	2	382	15.8	2	382	15.8
183.quake	2	351	8.60	2	337	8.94
187.facerec	2	513	8.60	2	513	8.60
188.amp	2	776	6.58	2	763	6.69
189.lucas	2	835	5.56	2	812	5.72
191.fma3d	2	754	6.46	2	732	6.66
200.sixtrack	2	519	4.91	2	519	4.91
301.apsi	2	892	6.76	2	892	6.76

### Hardware

CPU: POWER3-II  
CPU MHz: 375  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 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: 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++ 5.0.2.0 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

### 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.quake: -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 IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```