



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 450MHz

SPECfp2000 = 433

SPECfp\_base2000 = 426

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

| Benchmark      | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|----------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise    | 1600           | 277          | 577        | 277     | 577   |  |
| 171.swim       | 3100           | 772          | 402        | 772     | 402   |  |
| 172.mgrid      | 1800           | 546          | 330        | 546     | 330   |  |
| 173.applu      | 2100           | 651          | 323        | 648     | 324   |  |
| 177.mesa       | 1400           | 432          | 324        | 420     | 333   |  |
| 178.galgel     | 2900           | 303          | 958        | 303     | 958   |  |
| 179.art        | 2600           | 242          | 1074       | 240     | 1084  |  |
| 183.earthquake | 1300           | 248          | 524        | 228     | 571   |  |
| 187.facerec    | 1900           | 417          | 455        | 417     | 455   |  |
| 188.amp        | 2200           | 603          | 365        | 588     | 374   |  |
| 189.lucas      | 2000           | 704          | 284        | 681     | 294   |  |
| 191.fma3d      | 2100           | 598          | 351        | 584     | 359   |  |
| 200.sixtrack   | 1100           | 432          | 255        | 432     | 255   |  |
| 301.apsi       | 2600           | 718          | 362        | 718     | 362   |  |

### Hardware

CPU: POWER3-II  
CPU MHz: 450  
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: 8MB 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: -O5 -lmass -qalign=natural  
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 IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```