



# CFP2000 Result

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IBM Corporation  
IBM IntelliStation POWER Model 265

SPECfp2000 = 401  
SPECfp\_base2000 = 396

SPEC license #: 11 Tested by: IBM Corp. Test date: Jan-2002 Hardware Avail: Mar-2002 Software Avail: Dec-2001

| Benchmark      | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|----------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise    | 1600           | 281          | 570        | 281     | 570   |  |
| 171.swim       | 3100           | 771          | 402        | 771     | 402   |  |
| 172.mgrid      | 1800           | 555          | 325        | 555     | 325   |  |
| 173.applu      | 2100           | 661          | 318        | 656     | 320   |  |
| 177.mesa       | 1400           | 444          | 316        | 439     | 319   |  |
| 178.galgel     | 2900           | 327          | 886        | 327     | 886   |  |
| 179.art        | 2600           | 346          | 751        | 346     | 751   |  |
| 183.earthquake | 1300           | 263          | 495        | 244     | 533   |  |
| 187.facerec    | 1900           | 460          | 413        | 460     | 413   |  |
| 188.amp        | 2200           | 682          | 323        | 669     | 329   |  |
| 189.lucas      | 2000           | 724          | 276        | 705     | 284   |  |
| 191.fma3d      | 2100           | 623          | 337        | 589     | 356   |  |
| 200.sixtrack   | 1100           | 476          | 231        | 476     | 231   |  |
| 301.apsi       | 2600           | 796          | 327        | 796     | 327   |  |

### 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: 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.earthquake: -O5 -lmass -lhmu -qinline  
187.facerec: (basepeak=1)  
188.amp: -O3 -qarch=pwr3



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|                    |                      |                     |                          |                          |
|--------------------|----------------------|---------------------|--------------------------|--------------------------|
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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
```