



# CFP2000 Result

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## IBM Corporation

IBM eServer pSeries 620 Model 6F1 (600 MHz, 2MB L2)

SPECfp2000 = 252

SPECfp\_base2000 = 245

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Mar-2001 | Hardware Avail: Apr-2001 | Software Avail: Apr-2001

| Benchmark      | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|----------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise    | 1600           | 383          | 417        | 374     | 427   |  |
| 171.swim       | 3100           | 1442         | 215        | 1439    | 215   |  |
| 172.mgrid      | 1800           | 1059         | 170        | 919     | 196   |  |
| 173.applu      | 2100           | 1001         | 210        | 956     | 220   |  |
| 177.mesa       | 1400           | 618          | 226        | 602     | 232   |  |
| 178.galgel     | 2900           | 820          | 353        | 783     | 370   |  |
| 179.art        | 2600           | 1073         | 242        | 1122    | 232   |  |
| 183.earthquake | 1300           | 561          | 232        | 562     | 231   |  |
| 187.facerec    | 1900           | 676          | 281        | 669     | 284   |  |
| 188.ammpp      | 2200           | 962          | 229        | 854     | 258   |  |
| 189.lucas      | 2000           | 776          | 258        | 762     | 262   |  |
| 191.fma3d      | 2100           | 939          | 224        | 898     | 234   |  |
| 200.sixtrack   | 1100           | 623          | 177        | 621     | 177   |  |
| 301.apsi       | 2600           | 889          | 293        | 889     | 292   |  |

### Hardware

CPU: RS64 IV  
 CPU MHz: 600  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 128KBI+128KBD (on chip)  
 Secondary Cache: 2MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2GB  
 Disk Subsystem: 2x9.1GB SCSI  
 Other Hardware: Ethernet

### Software

Operating System: AIX 4.3.3  
 Compiler: Fortran 77 and 90: IBM xl Fortran 7.1 invoked as 'xlf90'. C: IBM VAC++ 5.0.1 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 Flags:

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

### Peak Flags:

168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass, fdpr -v -R3  
 171.swim: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass -qhot, fdpr -v -R3  
 172.mgrid: -O4 -qarch=pwr3  
 173.applu: -O3  
 177.mesa: -qpdf1/pdf2 -O3 -qarch=rs64c -L/usr/vac/lib, fdpr -v -R3  
 178.galgel: -qpdf1/pdf2 -O3 -lmass, fdpr -v -R3  
 179.art: -O5 -lmass  
 183.earthquake: -O5 -lmass  
 187.facerec: -O5 -lmass  
 188.ammpp: -qpdf1/pdf2 -O3 -lhmu -lmass -L/usr/vac/lib, fdpr -v -R3



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## Notes/Tuning Information (Continued)

189.lucas: -qpdf1/pdf2 -O3 -qarch=rs64b -lmass, fdpr -v -R3

191.fma3d: -qpdf1/pdf2 -O3 -lmass

200.sixtrack:-O3 -qarch=rs64c

301.apsi: -O5 -lmass

Tests were run with APAR IY 17356 applied to AIX 4.3.3 to enable new hardware support.

fdpr: Feedback directed program restructuring tool