



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 660 Model 6H1 (750 MHz)

SPECfp\_rate2000 = 15.6

SPECfp\_rate\_base2000 = 15.2

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

| Benchmark    | Base Copies | Base Runtime | Base Ratio | Copies | Runtime | Ratio |
|--------------|-------------|--------------|------------|--------|---------|-------|
| 168.wupwise  | 4           | 363          | 20.5       | 4      | 360     | 20.6  |
| 171.swim     | 4           | 1440         | 9.99       | 4      | 1440    | 9.99  |
| 172.mgrid    | 4           | 972          | 8.59       | 4      | 887     | 9.41  |
| 173.applu    | 4           | 1116         | 8.73       | 4      | 1049    | 9.29  |
| 177.mesa     | 4           | 479          | 13.6       | 4      | 479     | 13.6  |
| 178.galgel   | 4           | 272          | 49.5       | 4      | 272     | 49.5  |
| 179.art      | 4           | 239          | 50.4       | 4      | 239     | 50.4  |
| 183.quake    | 4           | 504          | 12.0       | 4      | 495     | 12.2  |
| 187.facerec  | 4           | 452          | 19.5       | 4      | 433     | 20.3  |
| 188.amp      | 4           | 583          | 17.5       | 4      | 517     | 19.7  |
| 189.lucas    | 4           | 910          | 10.2       | 4      | 908     | 10.2  |
| 191.fma3d    | 4           | 872          | 11.2       | 4      | 848     | 11.5  |
| 200.sixtrack | 4           | 569          | 8.97       | 4      | 570     | 8.95  |
| 301.apsi     | 4           | 733          | 16.5       | 4      | 722     | 16.7  |

### Hardware

CPU: RS64 IV  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
CPU(s) orderable: 1,2,4,6  
Parallel: No  
Primary Cache: 128KBI+128KBD (on chip)  
Secondary Cache: 8MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 4GB  
Disk Subsystem: 2x4.5GB  
Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
Compiler: Fortran 77 and 90: IBM xl Fortran 7.1.1.0  
C++: IBM VisualAge C++ for AIX, Version 6.0 Beta  
Other Software: MASS 2.7  
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: F77=xl f90 -O3 -qarch=pwr3 -qtune=pwr3  
-qipa=level=2 -lmass  
171.swim: basepeak=1  
172.mgrid: -O5 -qarch=ppc -qtune=pwr3 -lmass -qfdpr,  
fdpr -v -R3  
173.applu: -qpdl1/pdf2 -O3 -lmass  
-qipa=level=2:partition=large -qfdpr,  
fdpr -v -R3  
177.mesa: basepeak=1  
178.galgel: basepeak=1



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## Notes/Tuning Information (Continued)

```
179.art:      basepeak=1
183.earthquake: -O5 -lmass -lhmu
187.facerec:  -O5 -qarch=pwr3 -lmass -qfdpr, fdpr -v -R3
188.ammp:     -O5 -qarch=pwr3 -qipa=partition=large
189.lucas:    -O3 -lmass -lhmu
191.fma3d:    -O3 -lmass -lhmu
200.sixtrack:-O3 -qarch=rs64c
301.apsi:     -qpdf1/pdf2 -O4 -qarch=ppc -qtune=pwr3
fdpr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O
APAR IY28102 was applied to AIX 5L V5.1 to enable new hardware
ulimits set to unlimited.
Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked
as xlf90.
C++: IBM VAC++ for AIX 6.0 BETA invoked as xlc
The final version of the compiler will be available by Dec-2002.
```