



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 660 Model 6H0 (750 MHz)

SPECfp2000 = 410

SPECfp\_base2000 = 396

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	316	506	312	513
171.swim	3100	873	355	873	355
172.mgrid	1800	819	220	702	256
173.applu	2100	798	263	734	286
177.mesa	1400	477	294	477	294
178.galgel	2900	268	1081	268	1081
179.art	2600	204	1272	204	1272
183.earthquake	1300	399	326	396	328
187.facerec	1900	405	469	385	493
188.amp	2200	579	380	514	428
189.lucas	2000	585	342	583	343
191.fma3d	2100	742	283	699	301
200.sixtrack	1100	439	250	440	250
301.apsi	2600	664	391	655	397

### Hardware

CPU: RS64 IV  
CPU MHz: 750  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2,4  
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: -qpdf1/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.quake:   -O5 -lmass -lhmu
187.facerec: -O5 -qarch=pwr3 -lmass -qfdpr, fdpr -v -R3
188.amp:     -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.
```