



# CFP2000 Result

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IBM Corporation

IBM eServer pSeries 660 Model 6H0 (600 MHz)

SPECfp\_rate2000 = 11.1

SPECfp\_rate\_base2000 = 10.9

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Mar-2001 | Hardware Avail: Jun-2001 | Software Avail: Apr-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	428	17.3	4	425	17.5
171.swim	4	1632	8.82	4	1662	8.65
172.mgrid	4	1210	6.90	4	1107	7.54
173.applu	4	1303	7.48	4	1296	7.52
177.mesa	4	618	10.5	4	603	10.8
178.galgel	4	641	21.0	4	611	22.0
179.art	4	565	21.4	4	579	20.8
183.quake	4	677	8.91	4	687	8.78
187.facerec	4	661	13.3	4	670	13.2
188.amp	4	803	12.7	4	746	13.7
189.lucas	4	1106	8.39	4	1121	8.28
191.fma3d	4	1070	9.10	4	1063	9.17
200.sixtrack	4	801	6.37	4	799	6.39
301.apsi	4	955	12.6	4	958	12.6

### Hardware

CPU: RS64 IV  
 CPU MHz: 600  
 FPU: Integrated  
 CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
 CPU(s) orderable: 2,4  
 Parallel: No  
 Primary Cache: 128KBI+128KBD (on chip)  
 Secondary Cache: 4MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2GB  
 Disk Subsystem: 2x9.1GB SCSI  
 Other Hardware: None

### 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.quake: -O5 -lmass  
 187.facerec: -O5 -lmass  
 188.amp: -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

APAR IY 17356 was applied to AIX 4.3.3 to enable new hardware support.

fdpr: Feedback directed program restructuring tool