



# CFP2000 Result

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IBM Corporation  
RS/6000 SP-375MHz High Node(4 CPU)

SPECfp\_rate2000 = 14.5  
SPECfp\_rate\_base2000 = 14.1

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jun-2000 | Hardware Avail: Aug-2000 | Software Avail: Jul-2000

							Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio		
45	40	35	30	25	20	15	10	5	168.wupwise	4	325	22.8	4	326	22.7
							171.swim	4	1269	11.3	4	1268	11.3		
							172.mgrid	4	683	12.2	4	684	12.2		
							173.applu	4	820	11.9	4	820	11.9		
							177.mesa	4	587	11.1	4	523	12.4		
							178.galgel	4	1157	11.6	4	737	18.3		
							179.art	4	289	41.8	4	289	41.8		
							183.quake	4	350	17.2	4	350	17.2		
							187.facerec	4	522	16.9	4	517	17.1		
							188.amp	4	788	12.9	4	788	12.9		
							189.lucas	4	869	10.7	4	868	10.7		
							191.fma3d	4	745	13.1	4	751	13.0		
							200.sixtrack	4	635	8.03	4	748	6.82		
							301.apsi	4	864	14.0	4	857	14.1		

### Hardware

CPU: Power3-II  
CPU MHz: 375  
FPU: Integrated  
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip  
CPU(s) orderable: 4,8,12,16  
Parallel: None  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 8MB unified (off chip, per CPU)  
L3 Cache: None  
Other Cache: None  
Memory: 32GB  
Disk Subsystem: 2x18GB SCSI,7200RPM  
Other Hardware: Ethernet

### Software

Operating System: AIX 4.3.3 plus beta of APAR IY11202  
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 Optimization Flags:

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

### Peak Optimization Flags

168.wupwise: -O5 -lmass -qipa=partition=large  
171.swim: -qpdf1/pdf2 -O5 -qipa=partition=large -lmass, fdpr -v -R3  
172.mgrid: -O4  
173.applu: -O5 -lmass -qipa=partition=large  
177.mesa: -O5 -lmass -qipa=partition=large, fdpr -v -R3  
178.galgel: -qpdf1/pdf2 -O3 -qarch=pwr3 -qtune=pwr3 -lessl, fdpr -v -R3  
179.art: -O5 -lmass (basepeak=1)  
183.quake: -O5 -lmass (basepeak=1)  
187.facerec: -qpdf1/pdf2 -O5 -qipa=partition=large -lmass  
188.amp: -O5 -lmass (basepeak=1)



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## Notes/Tuning Information (Continued)

```
189.lucas: -O3
191.fma3d: -O4 -lmass -qipa=partition=large
200.sixtrack:-O3 -qarch=pwr3 -qtune=pwr3 -lmass -qhot
301.apsi: -O4 -lmass -qipa=partition=large
NOTE: 16 CPUs were installed, but 12 were disabled via the service processor setup menu.
```