



# CFP2000 Result

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IBM Corporation  
RS/6000 SP-375MHz High Node(16 CPU)

SPECfp\_rate2000 = 51.7  
SPECfp\_rate\_base2000 = 49.7

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
168.wupwise	16	342	86.7	16	341	87.2
171.swim	16	1385	41.5	16	1373	41.9
172.mgrid	16	738	45.3	16	736	45.4
173.applu	16	937	41.6	16	936	41.6
177.mesa	16	604	43.0	16	531	48.9
178.galgel	16	1183	45.5	16	748	72.0
179.art	16	306	158	16	306	158
183.quake	16	466	51.8	16	466	51.8
187.facerec	16	542	65.0	16	537	65.7
188.amp	16	790	51.7	16	790	51.7
189.lucas	16	944	39.3	16	937	39.6
191.fma3d	16	795	49.0	16	791	49.3
200.sixtrack	16	1383	14.8	16	1494	13.7
301.apsi	16	895	53.9	16	885	54.5

**Hardware**

CPU: Power3-II  
CPU MHz: 375  
FPU: Integrated  
CPU(s) enabled: 16 cores, 16 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: -03
191.fma3d: -04 -lmass -qipa=partition=large
200.sixtrack:-03 -qarch=pwr3 -qtune=pwr3 -lmass -qhot
301.apsi: -04 -lmass -qipa=partition=large
```