



# CFP2000 Result

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IBM Corporation  
RS/6000 44P-270 (450MHz, 8MBL2)

SPECfp\_rate2000 = 8.99  
SPECfp\_rate\_base2000 = 8.91

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Sep-2001 | Hardware Avail: Oct-2001 | Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	303	12.2	2	303	12.2
171.swim	2	1098	6.55	2	1098	6.55
172.mgrid	2	625	6.68	2	625	6.68
173.applu	2	794	6.14	2	780	6.25
177.mesa	2	432	7.51	2	424	7.66
178.galgel	2	307	21.9	2	307	21.9
179.art	2	255	23.7	2	261	23.1
183.quake	2	330	9.13	2	314	9.59
187.facerec	2	430	10.2	2	430	10.2
188.amp	2	614	8.31	2	601	8.50
189.lucas	2	787	5.90	2	757	6.13
191.fma3d	2	694	7.02	2	693	7.03
200.sixtrack	2	432	5.91	2	432	5.91
301.apsi	2	746	8.08	2	746	8.08

**Hardware**

CPU: POWER3-II  
CPU MHz: 450  
FPU: Integrated  
CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
CPU(s) orderable: 2,4  
Parallel: No  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 8MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 2GB  
Disk Subsystem: 2x18GB 10000RPM  
Other Hardware: None

**Software**

Operating System: AIX 5L V5.1  
Compiler: Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked as 'xlF90' for Fortran 90 and as xlf for Fortran 77  
C: IBM VAC++ 5.0.2.0 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: (basepeak=1)  
171.swim: (basepeak=1)  
172.mgrid: (basepeak=1)  
173.applu: -O5 -lmass -qipa=partition=large  
177.mesa: -O5 -lmass -qipa=partition=large, fdpr -v -R3  
178.galgel: (basepeak=1)  
179.art: -O5 -lmass -qalign=natural  
183.quake: -O5 -lmass -lhmu -qinline  
187.facerec: (basepeak=1)  
188.amp: -O3 -qarch=pwr3



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## Notes/Tuning Information (Continued)

189.lucas: -qpdf1/pdf2 -O3 -lhm -lmas  
-qipa=partition=large, fdpr -v -R3  
191.fma3d: -O4 -lmas -qipa=partition=large  
200.sixtrack: (basepeak=1)  
301.apsi: (basepeak=1)  
fpdr: Feedback directed program restructuring tool  
/usr/spec2000 filesystem mounted with no JFS log file I/O  
APAR IY 21957 was applied to AIX 5L V5.1 to enable new hardware support