



CFP2000 Result

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IBM Corporation
RS/6000 44P-170 (400 MHz)

SPECfp2000 = 344
SPECfp_base2000 = 295

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jan-2000 | Hardware Avail: Feb-2000 | Software Avail: Feb-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	490	327	267	599	
171.swim	3100	1430	217	813	381	
172.mgrid	1800	612	294	610	295	
173.applu	2100	647	325	647	325	
177.mesa	1400	486	288	487	287	
178.galgel	2900	939	309	935	310	
179.art	2600	568	458	568	458	
183.earthquake	1300	238	545	183	709	
187.facerec	1900	860	221	560	339	
188.ammpp	2200	978	225	856	257	
189.lucas	2000	752	266	752	266	
191.fma3d	2100	657	319	641	327	
200.sixtrack	1100	528	208	528	208	
301.apsi	2600	912	285	816	319	

Hardware

CPU: Power3-II
CPU MHz: 400
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: None
Primary Cache: 32KBI+64KBD (on chip)
Secondary Cache: 4MB unified (off chip)
L3 Cache: None
Other Cache: None
Memory: 1GB
Disk Subsystem: 2x9.1GB IBM Fast/Wide SCSI 7200 RPM
Other Hardware: None

Software

Operating System: AIX 4.3.3
Compiler: Fortran 77 and 90: IBM XL Fortran 6.1 invoked as 'xlF90'
C: IBM VAC 5.0 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

NOTE: The flag combination "qpdf1/qpdf2" indicates a 2 step compilation process
the exact process is as follows:

```
fdo_pre0 = rm -rf ${PDFDIR}; mkdir -p ${PDFDIR}
PASS1_FLAGS    ==-qpdf1 <optimization flags>
PASS1_LDFLAGS  =<optimized libraries> -L<pdf library location> -lpdf
PASS2_FLAGS    ==-qpdf2 <optimization flags>
PASS2_LDFLAGS  ==<optimized libraries>
```

Base Flags:

```
Fortran: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
C: -O5 -lmass
```

Peak Flags:

```
168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass
171.swim: -qpdf1/pdf2 -O4 -qipa=level=2 -qhot -lmass
172.mgrid: -O3 -qarch=pwr3 -qhot
```



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Notes/Tuning Information (Continued)

```
173.applu: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
177.mesa: -O5 -lmass
178.galgel: -O4 -qipa=level=2 -qhot -lmass
179.art: -O5 -lmass
183.quake: -O5 -lmass -lhm
187.facerec: -O3 -qarch=pwr3 -qhot -lmass
188.amp: -O3 -qarch=pwr3 -bnso -bI:/lib/syscalls.exp
189.lucas: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
191.fma3d: -O4 -qipa=level=2 -qhot -lmass
200.sixtrack: -O3 -qarch=pwr3
301.apsi: -O4 -qipa=level=2 -qhot -lmass -bnso -bI:/lib/syscalls.exp
```