CFP2000 Result

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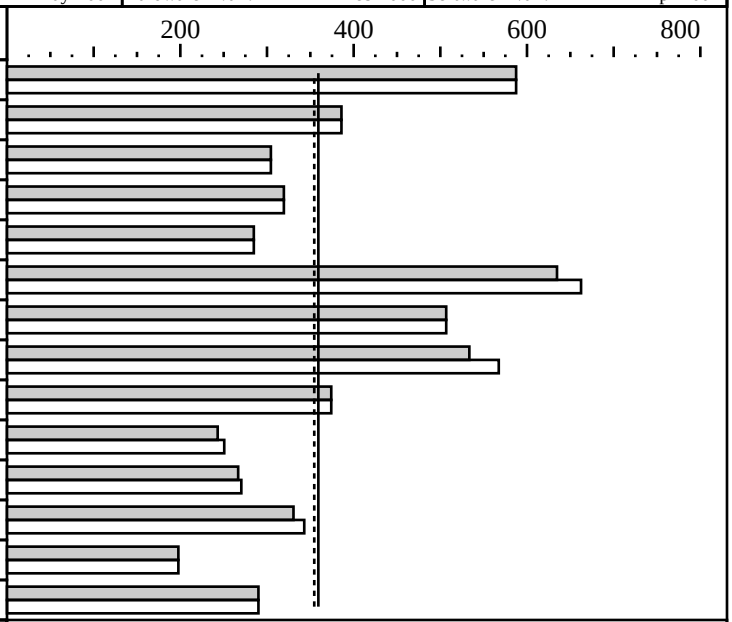
IBM Corporation
RS/6000 44P-170 (400MHz)

SPECfp2000 = 359

SPECfp_base2000 = 355

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Feb-2000 | Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	272	587	272	587
171.swim	3100	803	386	803	386
172.mgrid	1800	591	304	591	304
173.applu	2100	657	319	657	319
177.mesa	1400	492	285	492	285
178.galgel	2900	457	635	438	662
179.art	2600	513	507	513	507
183.equake	1300	244	533	229	567
187.facerec	1900	508	374	508	374
188.ammp	2200	905	243	878	251
189.lucas	2000	750	267	740	270
191.fma3d	2100	635	331	612	343
200.sixtrack	1100	556	198	556	198
301.apsi	2600	896	290	896	290



Hardware

CPU:	POWER3-II
CPU MHz:	400
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1
Parallel:	No
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	4MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	512MB
Disk Subsystem:	1x9.1GB SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	IBM XL FORTRAN for AIX, Version 7.1.1.1 IBM VisualAge C++ for AIX, Version 6.0 BETA Other Software: MASS 2.7
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:    basepeak=1
  177.mesa:     basepeak=1
  178.galgel:   -O5
  179.art:      basepeak=1
  183.equake:   -O5 -lmass -lhmu -qinline
  187.facerec:  basepeak=1
```

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Notes/Tuning Information (Continued)

```
  188.ammp:     -O3 -qarch=pwr3
  189.lucas:    -qpdf1/pdf2 -O3 -lhmu -lmass
                -qipa=partition=large, fdpr -v -R3
  191.fma3d:    -O4 -lmass -qipa=partition=large
  200.sixtrack: basepeak=1
  301.apsi:     basepeak=1
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX 5L V5.1 to enable new hardware support.
ulimits set to unlimited.
Fortran 77 and 90: IBM XL Fortran 7.1.1.1 for AIX invoked
as xlf90.
C: IBM VAC++ invoked as xlc.
The final version of the beta compiler will be available by Sep-2002.
```