CFP2000 Result

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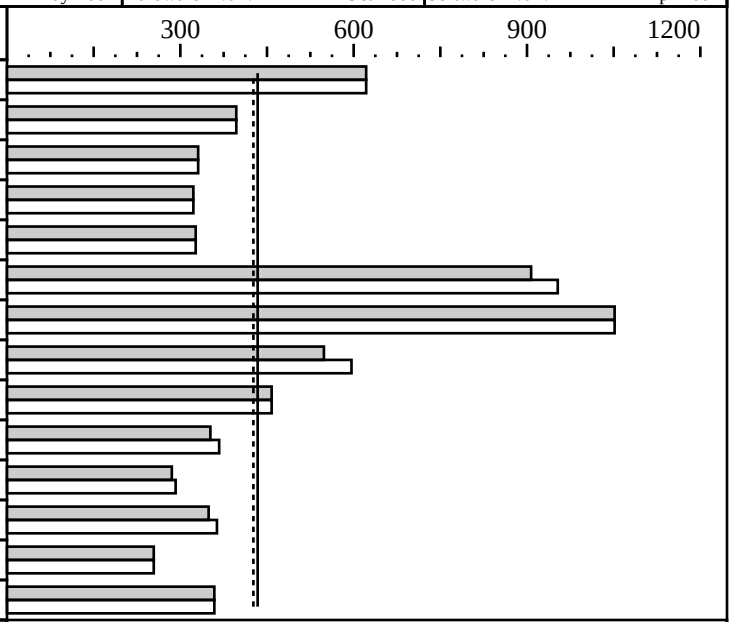
IBM Corporation
RS/6000 44P-170 (450 MHz)

SPECfp2000 = 434

SPECfp_base2000 = 426

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	257	622	257	622
171.swim	3100	781	397	781	397
172.mgrid	1800	544	331	544	331
173.applu	2100	651	323	651	323
177.mesa	1400	429	327	429	327
178.galgel	2900	320	907	304	953
179.art	2600	247	1052	247	1052
183.equake	1300	237	549	218	596
187.facerec	1900	415	458	415	458
188.ammp	2200	625	352	599	367
189.lucas	2000	701	285	685	292
191.fma3d	2100	602	349	578	363
200.sixtrack	1100	433	254	433	254
301.apsi	2600	724	359	724	359



Hardware

CPU:	POWER3-II
CPU MHz:	450
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:	8MB 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.
```