CFP2000 Result

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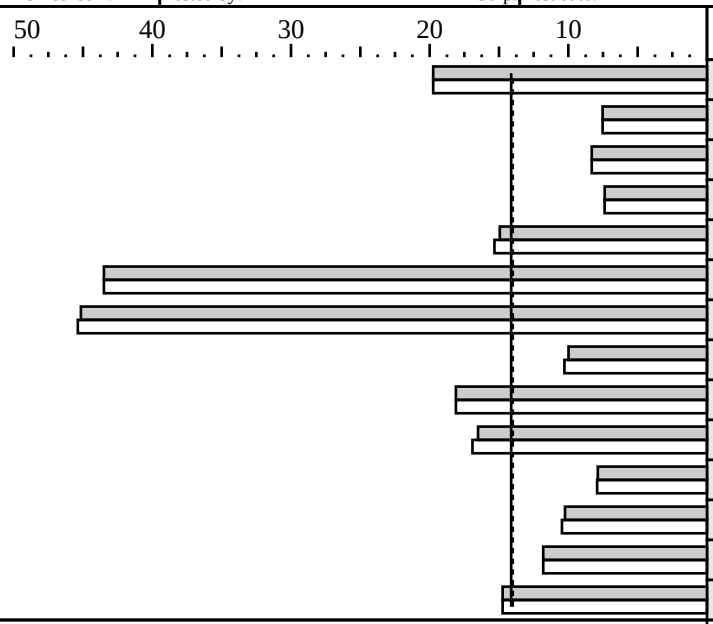
IBM Corporation
RS/6000 44P-270 (450MHz, 8MBL2)

SPECfp_rate2000 = 14.1

SPECfp_rate_base2000 = 14.0

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	4	376	19.7	4	376	19.7
171.swim	4	1911	7.53	4	1911	7.53
172.mgrid	4	1005	8.31	4	1005	8.31
173.applu	4	1320	7.38	4	1320	7.38
177.mesa	4	435	14.9	4	424	15.3
178.galgel	4	309	43.5	4	309	43.5
179.art	4	267	45.2	4	266	45.4
183.equake	4	604	9.99	4	587	10.3
187.facerec	4	487	18.1	4	487	18.1
188.ammp	4	618	16.5	4	604	16.9
189.lucas	4	1179	7.87	4	1171	7.92
191.fma3d	4	952	10.2	4	932	10.5
200.sixtrack	4	432	11.8	4	432	11.8
301.apsi	4	819	14.7	4	819	14.7

Hardware

CPU:	POWER3-II
CPU MHz:	450
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 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.equake:   -O5 -lmass -lhmu -qinline
  187.facerec:  (basepeak=1)
  188.ammp:     -O3 -qarch=pwr3
```

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Notes/Tuning Information (Continued)

```
  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)
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
```