CFP2000 Result

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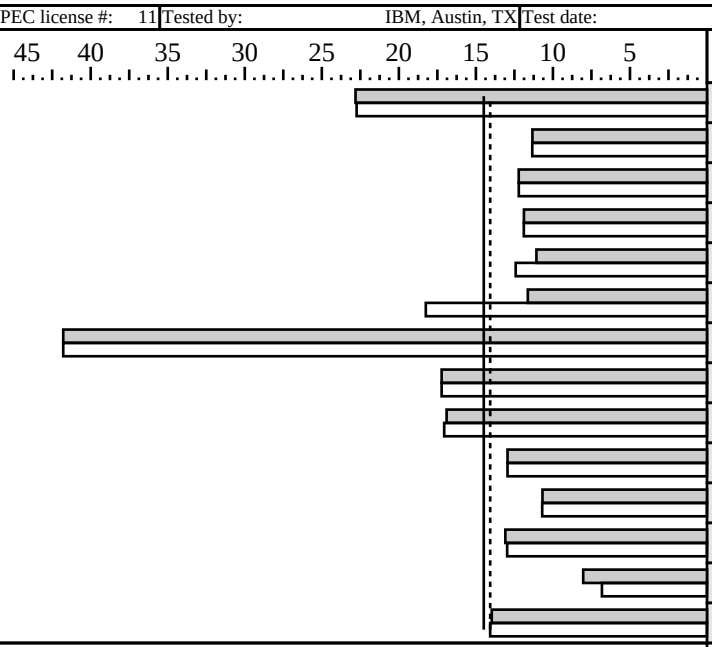
IBM Corporation
RS/6000 SP-375MHz High Node(4 CPU)

SPECfp_rate2000 = 14.5

SPECfp_rate_base2000 = 14.1

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jun-2000 | Hardware Avail: Aug-2000 | Software Avail: Jul-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	325	22.8	4	326	22.7
171.swim	4	1269	11.3	4	1268	11.3
172.mgrid	4	683	12.2	4	684	12.2
173.applu	4	820	11.9	4	820	11.9
177.mesa	4	587	11.1	4	523	12.4
178.galgel	4	1157	11.6	4	737	18.3
179.art	4	289	41.8	4	289	41.8
183.equake	4	350	17.2	4	350	17.2
187.facerec	4	522	16.9	4	517	17.1
188.ammp	4	788	12.9	4	788	12.9
189.lucas	4	869	10.7	4	868	10.7
191.fma3d	4	745	13.1	4	751	13.0
200.sixtrack	4	635	8.03	4	748	6.82
301.apsi	4	864	14.0	4	857	14.1

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	4,8,12,16
Parallel:	None
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	8MB unified (off chip, per CPU)
L3 Cache:	None
Other Cache:	None
Memory:	32GB
Disk Subsystem:	2x18GB SCSI,7200RPM
Other Hardware:	Ethernet

Software

Operating System:	AIX 4.3.3 plus beta of APAR IY11202
Compiler:	Fortran 77 and 90: IBM xl Fortran 7.1 invoked as 'xlf90' C: IBM VAC 5.0.1 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: -O5 -lmass -qipa=partition=large
171.swim:    -qpdf1/pdf2 -O5 -qipa=partition=large -lmass, fdpr -v -R3
172.mgrid:   -O4
173.applu:   -O5 -lmass -qipa=partition=large
177.mesa:    -O5 -lmass -qipa=partition=large, fdpr -v -R3
178.galgel:  -qpdf1/pdf2 -O3 -qarch=pwr3 -qtune=pwr3 -lessl, fdpr -v -R3
179.art:     -O5 -lmass (basepeak=1)
183.equake:  -O5 -lmass (basepeak=1)
187.facerec: -qpdf1/pdf2 -O5 -qipa=partition=large -lmass
188.ammp:    -O5 -lmass (basepeak=1)
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Notes/Tuning Information (Continued)

```
189.lucas:    -O3
191.fma3d:    -O4 -lmass -qipa=partition=large
200.sixtrack:-O3 -qarch=pwr3 -qtune=pwr3 -lmass -qhot
301.apsi:     -O4 -lmass -qipa=partition=large
NOTE: 16 CPUs were installed, but 12 were disabled via the service processor setup menu.
```