CFP2000 Result

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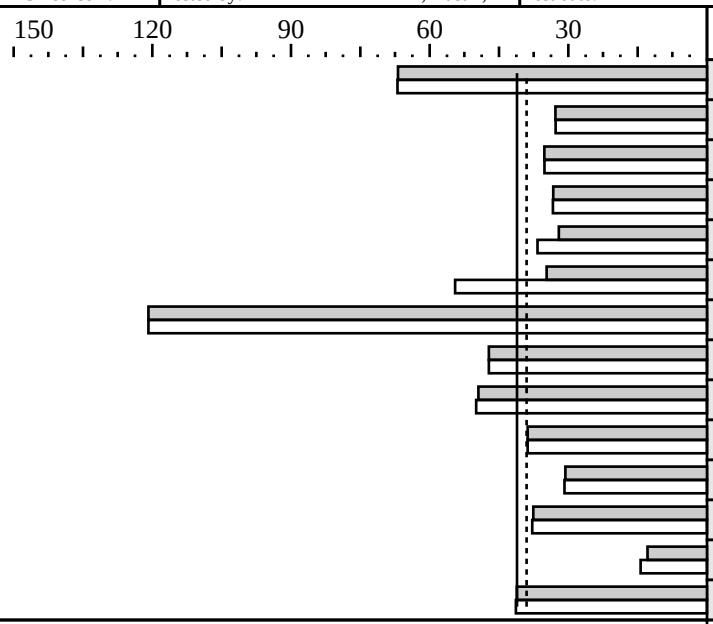
IBM Corporation

RS/6000 SP-375MHz High Node(12 CPU)

SPECfp_rate2000 = 41.1

SPECfp_rate_base2000 = 39.0

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	12	333	66.9	12	333	67.0
171.swim	12	1316	32.8	12	1318	32.7
172.mgrid	12	712	35.2	12	713	35.2
173.applu	12	879	33.3	12	877	33.3
177.mesa	12	608	32.1	12	531	36.7
178.galgel	12	1163	34.7	12	741	54.5
179.art	12	299	121	12	299	121
183.equake	12	383	47.2	12	383	47.2
187.facerec	12	535	49.5	12	530	49.9
188.ammp	12	789	38.8	12	789	38.8
189.lucas	12	909	30.6	12	903	30.8
191.fma3d	12	778	37.6	12	773	37.8
200.sixtrack	12	1190	12.9	12	1066	14.4
301.apsi	12	880	41.1	12	875	41.3

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	12 cores, 12 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 4 were disabled via the service processor setup menu.
```