CFP2000 Result

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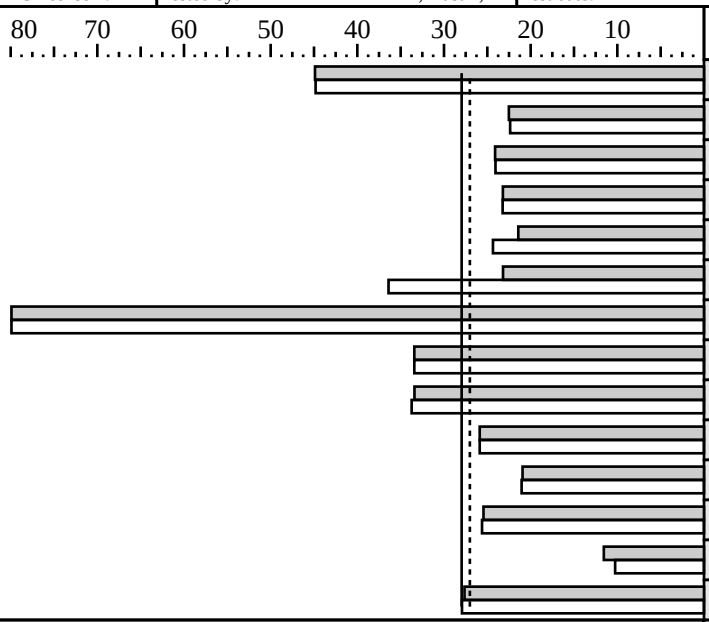
IBM Corporation
RS/6000 SP-375MHz High Node(8 CPU)

SPECfp_rate2000 = 28.0

SPECfp_rate_base2000 = 27.0

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	8	331	44.9	8	331	44.8
171.swim	8	1278	22.5	8	1286	22.4
172.mgrid	8	693	24.1	8	694	24.1
173.applu	8	840	23.2	8	839	23.2
177.mesa	8	606	21.4	8	534	24.4
178.galgel	8	1160	23.2	8	739	36.4
179.art	8	302	79.9	8	302	79.9
183.equake	8	361	33.4	8	361	33.4
187.facerec	8	528	33.4	8	523	33.7
188.ammp	8	789	25.9	8	789	25.9
189.lucas	8	886	20.9	8	882	21.0
191.fma3d	8	766	25.4	8	761	25.6
200.sixtrack	8	883	11.6	8	995	10.3
301.apsi	8	873	27.6	8	864	27.9

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 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 8 were disabled via the service processor setup menu.
```