CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

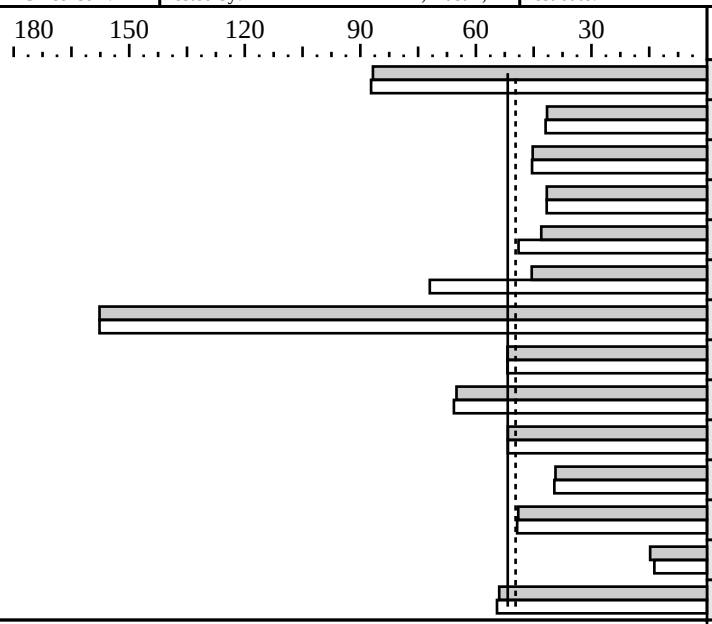
IBM Corporation

RS/6000 SP-375MHz High Node(16 CPU)

SPECfp_rate2000 = 51.7

SPECfp_rate_base2000 = 49.7

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	16	342	86.7	16	341	87.2
171.swim	16	1385	41.5	16	1373	41.9
172.mgrid	16	738	45.3	16	736	45.4
173.applu	16	937	41.6	16	936	41.6
177.mesa	16	604	43.0	16	531	48.9
178.galgel	16	1183	45.5	16	748	72.0
179.art	16	306	158	16	306	158
183.equake	16	466	51.8	16	466	51.8
187.facerec	16	542	65.0	16	537	65.7
188.ammp	16	790	51.7	16	790	51.7
189.lucas	16	944	39.3	16	937	39.6
191.fma3d	16	795	49.0	16	791	49.3
200.sixtrack	16	1383	14.8	16	1494	13.7
301.apsi	16	895	53.9	16	885	54.5

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	16 cores, 16 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)
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

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
```