CFP2000 Result

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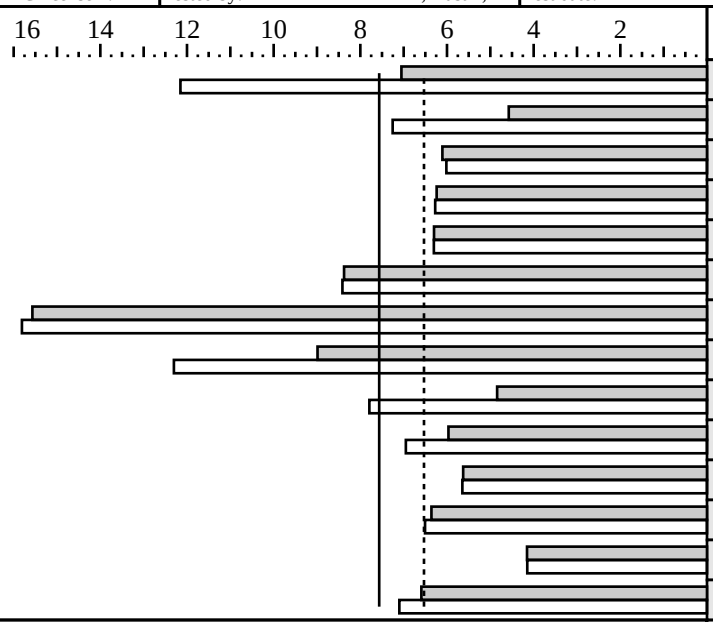
IBM Corporation
RS/6000 44P-270 (2 CPU)

SPECfp_rate2000 = 7.56

SPECfp_rate_base2000 = 6.53

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jan-2000 | Hardware Avail: Feb-2000 | Software Avail: Feb-2000



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	526	7.05	2	305	12.2
171.swim	2	1572	4.57	2	991	7.25
172.mgrid	2	684	6.11	2	694	6.01
173.applu	2	781	6.24	2	777	6.27
177.mesa	2	516	6.30	2	515	6.30
178.galgel	2	803	8.38	2	800	8.41
179.art	2	387	15.6	2	382	15.8
183.equake	2	336	8.99	2	245	12.3
187.facerec	2	910	4.84	2	566	7.79
188.ammp	2	855	5.97	2	734	6.95
189.lucas	2	825	5.63	2	822	5.65
191.fma3d	2	766	6.36	2	749	6.51
200.sixtrack	2	614	4.15	2	615	4.15
301.apsi	2	915	6.59	2	850	7.10

Hardware

CPU:	Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 1 core/chip
CPU(s) orderable:	1,2,3,4
Parallel:	None
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	4MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	2x9.1GB IBM Fast/Wide SCSI 7200 RPM
Other Hardware:	None

Software

Operating System:	AIX 4.3.3
Compiler:	Fortran 77 and 90: IBM XL Fortran 6.1 invoked as 'xlf90' C: IBM VAC 5.0 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
NOTE: The flag combination "qpdf1/qpdf2" indicates a 2 step compilation process
      the exact process is as follows:
  fdo_pre0 = rm -rf ${PDFDIR}; mkdir -p ${PDFDIR}
  PASS1_FLAGS    =-qpdf1 <optimization flags>
  PASS1_LDFLAGS  =<optimized libraries> -L<pdf library location> -lpdf
  PASS2_FLAGS    =-qpdf2 <optimization flags>
  PASS2_LDFLAGS  =-<optimized libraries>
Base Flags:
  Fortran: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  C: -O5 -lmass
Peak Flags:
  168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass
  171.swim: -qpdf1/pdf2 -O4 -qipa=level=2 -qhot -lmass
  172.mgrid:-O3 -qarch=pwr3 -qhot
```

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Notes/Tuning Information (Continued)

```
  173.applu: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  177.mesa: -O5 -lmass
  178.galgel: -O4 -qipa=level=2 -qhot -lmass
  179.art: -O5 -lmass
  183.equake: -O5 -lmass -lhmu
  187.facerec: -O3 -qarch=pwr3 -qhot -lmass
  188.ammp: -O3 -qarch=pwr3 -bnso -bI:/lib/syscalls.exp
  189.lucas: -qpdf1/pdf2 -O3 -qarch=pwr3 -lmass
  191.fma3d: -O4  -qipa=level=2 -qhot -lmass
  200.sixtrack: -O3 -qarch=pwr3
  301.apsi: -O4 -qipa=level=2 -qhot -lmass -bnso -bI:/lib/syscalls.exp
NOTE: 4 CPUs were installed, but 2 were disabled via the service processor setup menu.
```