CFP2000 Result

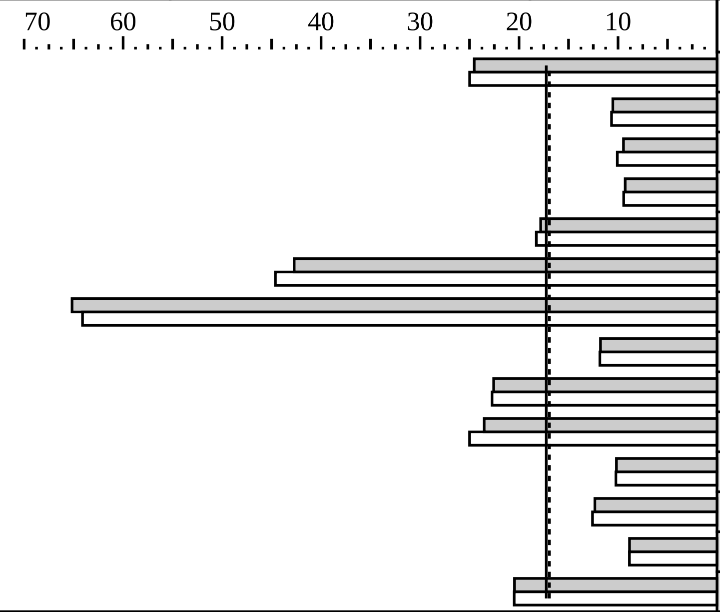
IBM Corporation

IBM eServer pSeries 620 Model 6F1 (668MHz,8MB L2)

SPECfp_rate2000 = 17.3

SPECfp_rate_base2000 = 16.9

SPEC license #: 11	Tested by: IBM, Austin, TX	Test date: Mar-2001	Hardware Avail: Apr-2001	Software Avail: Apr-2001



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	6	454	24.5	6	446	25.0
171.swim	6	2050	10.5	6	2025	10.7
172.mgrid	6	1326	9.45	6	1244	10.1
173.applu	6	1576	9.28	6	1550	9.43
177.mesa	6	547	17.8	6	534	18.3
178.galgel	6	472	42.7	6	452	44.6
179.art	6	278	65.2	6	282	64.1
183.equake	6	769	11.8	6	765	11.8
187.facerec	6	586	22.6	6	582	22.7
188.ammp	6	651	23.5	6	613	25.0
189.lucas	6	1370	10.2	6	1363	10.2
191.fma3d	6	1184	12.3	6	1162	12.6
200.sixtrack	6	866	8.84	6	865	8.85
301.apsi	6	885	20.5	6	883	20.5

Hardware

CPU:	RS64 IV
CPU MHz:	668
FPU:	Integrated
CPU(s) enabled:	6 cores, 6 chips, 1 core/chip
CPU(s) orderable:	6
Parallel:	No
Primary Cache:	128KBI+128KBD (on chip)
Secondary Cache:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	2x9.1GB SCSI
Other Hardware:	Ethernet

Software

Operating System:	AIX 4.3.3
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 Flags:
  Fortran: -O5 -lmass
  C: -O5 -lmass
Peak Flags:
   168.wupwise: -qpdf1/pdf2 -O4 -qipa=level=2 -lmass, fdpr -v -R3
   171.swim:    -qpdf1/pdf2 -O4 -qipa=level=2 -lmass -qhot, fdpr -v -R3
   172.mgrid:   -O4 -qarch=pwr3
   173.applu:   -O3
   177.mesa:    -qpdf1/pdf2 -O3 -qarch=rs64c    -L/usr/vac/lib, fdpr -v -R3
   178.galgel:  -qpdf1/pdf2 -O3 -lmass, fdpr -v -R3
   179.art:     -O5 -lmass
   183.equake:  -O5 -lmass
   187.facerec: -O5 -lmass
   188.ammp:    -qpdf1/pdf2 -O3 -lhmu -lmass  -L/usr/vac/lib, fdpr -v -R3
```

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Notes/Tuning Information (Continued)

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189.lucas:   -qpdf1/pdf2 -O3 -qarch=rs64b -lmass, fdpr -v -R3
191.fma3d:   -qpdf1/pdf2 -O3 -lmass
200.sixtrack:-O3  -qarch=rs64c
301.apsi:    -O5 -lmass
Tests were run with APAR IY 17356 applied to AIX 4.3.3 to enable new hardware support.
fdpr: Feedback directed program restructuring tool
```