CFP2000 Result

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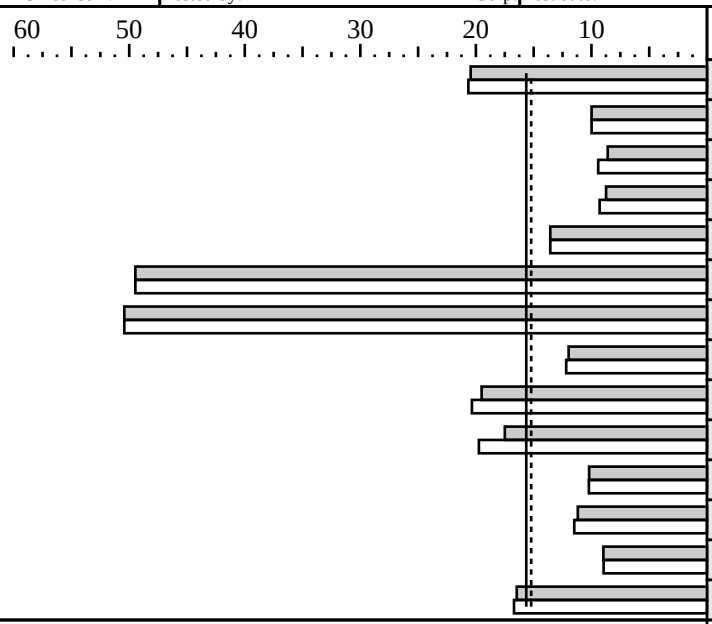
IBM Corporation

IBM eServer pSeries 620 Model 6F0 (750 MHz)

SPECfp_rate2000 = 15.6

SPECfp_rate_base2000 = 15.2

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Mar-2002 | Hardware Avail: Apr-2002 | Software Avail: Apr-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	363	20.5	4	360	20.6
171.swim	4	1440	9.99	4	1440	9.99
172.mgrid	4	972	8.59	4	887	9.41
173.applu	4	1116	8.73	4	1049	9.29
177.mesa	4	479	13.6	4	479	13.6
178.galgel	4	272	49.5	4	272	49.5
179.art	4	239	50.4	4	239	50.4
183.equake	4	504	12.0	4	495	12.2
187.facerec	4	452	19.5	4	433	20.3
188.ammp	4	583	17.5	4	517	19.7
189.lucas	4	910	10.2	4	908	10.2
191.fma3d	4	872	11.2	4	848	11.5
200.sixtrack	4	569	8.97	4	570	8.95
301.apsi	4	733	16.5	4	722	16.7

Hardware

CPU:	RS64 IV
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	1,2,4
Parallel:	No
Primary Cache:	128KBI+128KBD (on chip)
Secondary Cache:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	4GB
Disk Subsystem:	2x4.5GB
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	Fortran 77 and 90: IBM xl Fortran 7.1.1.0 C++: IBM VisualAge C++ for AIX, Version 6.0 Beta Other Software: MASS 2.7
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: F77=xlf90 -O3 -qarch=pwr3 -qtune=pwr3
               -qipa=level=2 -lmass
  171.swim:    basepeak=1
  172.mgrid:   -O5 -qarch=ppc -qtune=pwr3 -lmass -qfdpr,
               fdpr -v -R3
  173.applu:   -qpdf1/pdf2 -O3 -lmass
               -qipa=level=2:partition=large -qfdpr,
               fdpr -v -R3
  177.mesa:    basepeak=1
  178.galgel:  basepeak=1
```

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Notes/Tuning Information (Continued)

```
    179.art:     basepeak=1
    183.equake:  -O5 -lmass -lhmu
    187.facerec: -O5 -qarch=pwr3 -lmass -qfdpr, fdpr -v -R3
    188.ammp:    -O5 -qarch=pwr3 -qipa=partition=large
    189.lucas:   -O3 -lmass -lhmu
    191.fma3d:   -O3 -lmass -lhmu
    200.sixtrack:-O3 -qarch=rs64c
    301.apsi:    -qpdf1/pdf2 -O4 -qarch=ppc -qtune=pwr3
  fdpr: Feedback directed program restructuring tool
  /usr/spec2000 filesystem mounted with no JFS log file I/O
  APAR IY28102 was applied to AIX 5L V5.1 to enable new hardware
  ulimits set to unlimited.
Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked
as xlf90.
C++: IBM VAC++ for AIX 6.0 BETA invoked as xlc
The final version of the compiler will be available by Dec-2002.
```