CFP2000 Result

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IBM Corporation

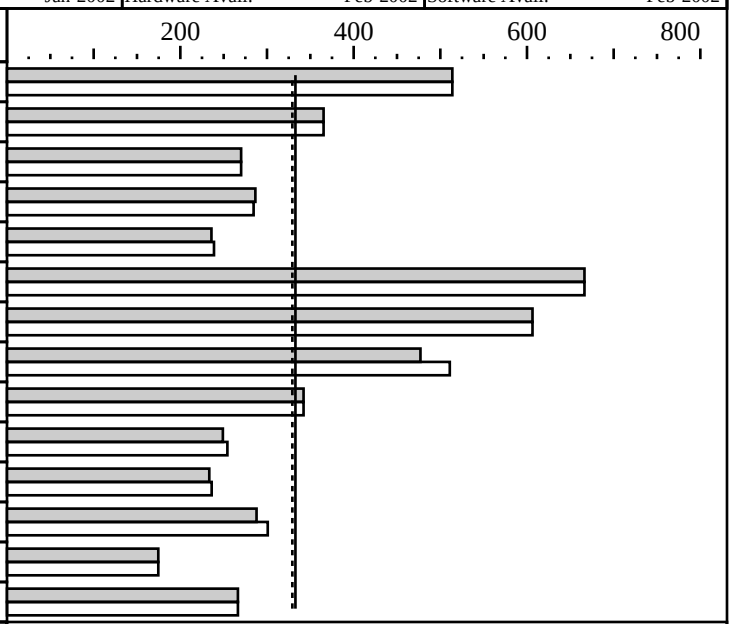
IBM eServer pSeries 610 Mod 6C1 333MHz

SPECfp2000 = 333

SPECfp_base2000 = 329

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	311	514	311	514
171.swim	3100	849	365	849	365
172.mgrid	1800	666	270	666	270
173.applu	2100	733	287	738	285
177.mesa	1400	593	236	586	239
178.galgel	2900	435	666	435	666
179.art	2600	429	606	429	606
183.equake	1300	273	477	254	511
187.facerec	1900	555	342	555	342
188.ammp	2200	883	249	865	254
189.lucas	2000	857	233	847	236
191.fma3d	2100	729	288	698	301
200.sixtrack	1100	630	175	630	175
301.apsi	2600	976	266	976	266



Hardware

CPU:	POWER3-II
CPU MHz:	333
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	4MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	2GB
Disk Subsystem:	2x18GB 10000RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	IBM XL FORTRAN for AIX, Version 7.1.1.0 IBM VisualAge C++ for AIX, Version 5.0.2.1
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:  (basepeak=1)
  171.swim:     (basepeak=1)
  172.mgrid:    (basepeak=1)
  173.applu:    -O5 -lmass -qipa=partition=large
  177.mesa:     -O5 -lmass -qipa=partition=large, fdpr -v -R3
  178.galgel:   (basepeak=1)
  179.art:      (basepeak=1)
  183.equake:   -O5 -lmass -lhmu -qinline
  187.facerec:  (basepeak=1)
  188.ammp:     -O3 -qarch=pwr3
```

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Notes/Tuning Information (Continued)

```
  189.lucas:    -qpdf1/pdf2 -O3 -lhmu -lmass
                -qipa=partition=large, fdpr -v -R3
  191.fma3d:    -O4 -lmass -qipa=partition=large
  200.sixtrack: (basepeak=1)
  301.apsi:     (basepeak=1)
fpdr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O
APAR IY22854 was applied to AIX 5L V5.1 to enable new hardware support
ulimits set to unlimited
Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked
as xlf90 for Fortran 90 and as xlf for Fortran 77
C: IBM VAC++ 5.0.2.1 invoked as xlc
```