CFP2000 Result

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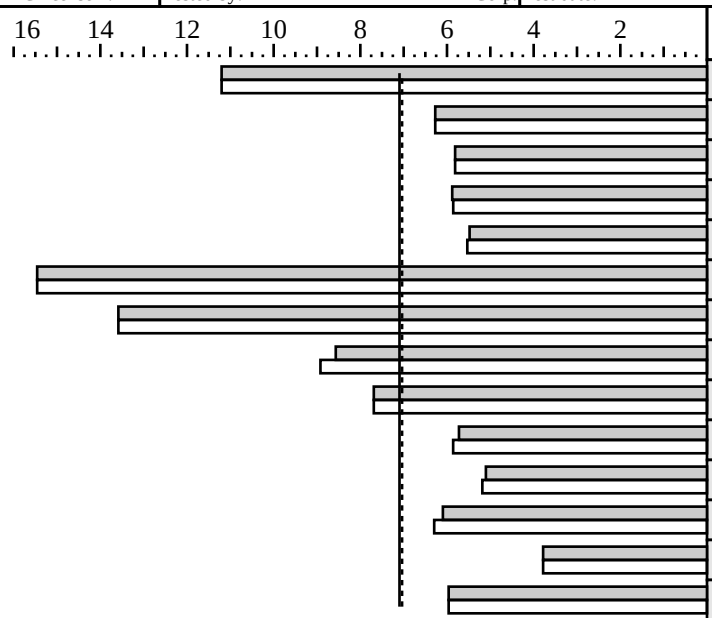
IBM Corporation

IBM eServer pSeries 610 Mod 6E1 333MHz

SPECfp_rate2000 = 7.10

SPECfp_rate_base2000 = 7.04

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	331	11.2	2	331	11.2
171.swim	2	1147	6.27	2	1147	6.27
172.mgrid	2	718	5.81	2	718	5.81
173.applu	2	829	5.88	2	832	5.86
177.mesa	2	593	5.48	2	587	5.53
178.galgel	2	435	15.5	2	435	15.5
179.art	2	444	13.6	2	444	13.6
183.equake	2	352	8.57	2	338	8.92
187.facerec	2	573	7.69	2	573	7.69
188.ammp	2	892	5.72	2	871	5.86
189.lucas	2	909	5.10	2	895	5.18
191.fma3d	2	799	6.09	2	774	6.30
200.sixtrack	2	675	3.78	2	675	3.78
301.apsi	2	1012	5.96	2	1012	5.96

Hardware

CPU:	POWER3-II
CPU MHz:	333
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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
```