CFP2000 Result

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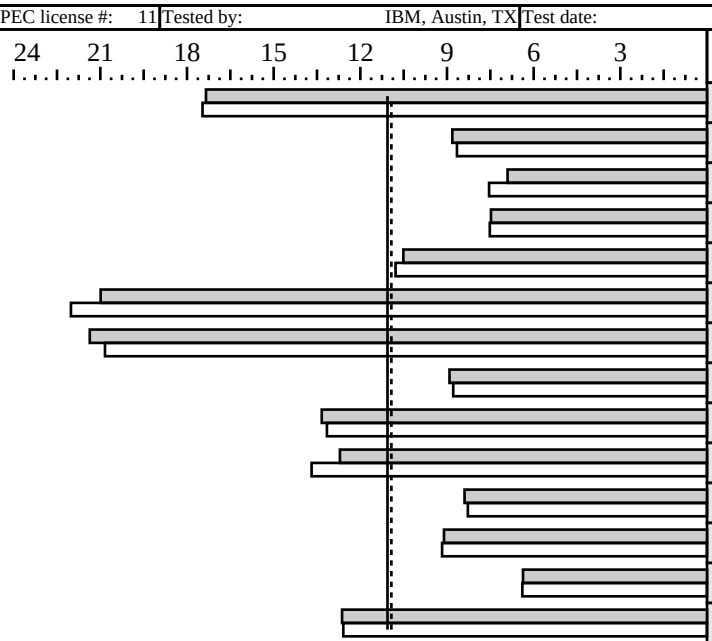
IBM Corporation

IBM eServer pSeries 620 Model 6F1 (600 MHz, 4MB L2)

SPECfp_rate2000 = 11.1

SPECfp_rate_base2000 = 10.9

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	4	428	17.3	4	425	17.5
171.swim	4	1632	8.82	4	1662	8.65
172.mgrid	4	1210	6.90	4	1107	7.54
173.applu	4	1303	7.48	4	1296	7.52
177.mesa	4	618	10.5	4	603	10.8
178.galgel	4	641	21.0	4	611	22.0
179.art	4	565	21.4	4	579	20.8
183.equake	4	677	8.91	4	687	8.78
187.facerec	4	661	13.3	4	670	13.2
188.ammp	4	803	12.7	4	746	13.7
189.lucas	4	1106	8.39	4	1121	8.28
191.fma3d	4	1070	9.10	4	1063	9.17
200.sixtrack	4	801	6.37	4	799	6.39
301.apsi	4	955	12.6	4	958	12.6

Hardware

CPU:	RS64 IV
CPU MHz:	600
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 chips, 1 core/chip
CPU(s) orderable:	2,4
Parallel:	No
Primary Cache:	128KBI+128KBD (on chip)
Secondary Cache:	4MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	2GB
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

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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
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