



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.amp	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

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.amp: -qpdf1/pdf2 -O3 -lhmu -lmass -L/usr/vac/lib, fdpr -v -R3



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Notes/Tuning Information (Continued)

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