



CFP2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F0 (600 MHz)

SPECfp2000 = 252

SPECfp_base2000 = 245

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Mar-2001 | Hardware Avail: Jun-2001 | Software Avail: Apr-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
168.wupwise	1600	383	417	374	427	
171.swim	3100	1442	215	1439	215	
172.mgrid	1800	1059	170	919	196	
173.applu	2100	1001	210	956	220	
177.mesa	1400	618	226	602	232	
178.galgel	2900	820	353	783	370	
179.art	2600	1073	242	1122	232	
183.earthquake	1300	561	232	562	231	
187.facerec	1900	676	281	669	284	
188.amp	2200	962	229	854	258	
189.lucas	2000	776	258	762	262	
191.fma3d	2100	939	224	898	234	
200.sixtrack	1100	623	177	621	177	
301.apsi	2600	889	293	889	292	

Hardware

CPU: RS64 IV
CPU MHz: 600
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1
Parallel: No
Primary Cache: 128KBI+128KBD (on chip)
Secondary Cache: 2MB unified (off chip)
L3 Cache: None
Other Cache: None
Memory: 2GB
Disk Subsystem: 2x9.1GB SCSI
Other Hardware: None

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.earthquake: -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

APAR IY 17356 was applied to AIX 4.3.3 to enable new hardware support.

fdpr: Feedback directed program restructuring tool