



CFP2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F0 (750 MHz)

SPECfp_rate2000 = 15.6

SPECfp_rate_base2000 = 15.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	363	20.5	4	360	20.6
171.swim	4	1440	9.99	4	1440	9.99
172.mgrid	4	972	8.59	4	887	9.41
173.applu	4	1116	8.73	4	1049	9.29
177.mesa	4	479	13.6	4	479	13.6
178.galgel	4	272	49.5	4	272	49.5
179.art	4	239	50.4	4	239	50.4
183.quake	4	504	12.0	4	495	12.2
187.facerec	4	452	19.5	4	433	20.3
188.amp	4	583	17.5	4	517	19.7
189.lucas	4	910	10.2	4	908	10.2
191.fma3d	4	872	11.2	4	848	11.5
200.sixtrack	4	569	8.97	4	570	8.95
301.apsi	4	733	16.5	4	722	16.7

Hardware

CPU: RS64 IV
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 1,2,4
Parallel: No
Primary Cache: 128KBI+128KBD (on chip)
Secondary Cache: 8MB unified (off chip)
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 2x4.5GB
Other Hardware: None

Software

Operating System: AIX 5L V5.1
Compiler: Fortran 77 and 90: IBM xl Fortran 7.1.1.0
C++: IBM VisualAge C++ for AIX, Version 6.0 Beta
Other Software: MASS 2.7
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: F77=xl f90 -O3 -qarch=pwr3 -qtune=pwr3
-qipa=level=2 -lmass
171.swim: basepeak=1
172.mgrid: -O5 -qarch=ppc -qtune=pwr3 -lmass -qfdpr,
fdpr -v -R3
173.applu: -qpdl1/pdf2 -O3 -lmass
-qipa=level=2:partition=large -qfdpr,
fdpr -v -R3
177.mesa: basepeak=1
178.galgel: basepeak=1



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Notes/Tuning Information (Continued)

```
179.art:      basepeak=1
183.earthquake: -O5 -lmass -lhmu
187.facerec:  -O5 -qarch=pwr3 -lmass -qfdpr, fdpr -v -R3
188.ammpp:    -O5 -qarch=pwr3 -qipa=partition=large
189.lucas:    -O3 -lmass -lhmu
191.fma3d:    -O3 -lmass -lhmu
200.sixtrack: -O3 -qarch=rs64c
301.apsi:     -qpdf1/pdf2 -O4 -qarch=ppc -qtune=pwr3
fdpr: Feedback directed program restructuring tool
/usr/spec2000 filesystem mounted with no JFS log file I/O
APAR IY28102 was applied to AIX 5L V5.1 to enable new hardware
ulimits set to unlimited.
Fortran 77 and 90: IBM xl Fortran 7.1.1.0 invoked
as xlf90.
C++: IBM VAC++ for AIX 6.0 BETA invoked as xlc
The final version of the compiler will be available by Dec-2002.
```