



CFP2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6C1 375MHz

SPECfp_rate2000 = 7.82

SPECfp_rate_base2000 = 7.74

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Sep-2001 | Hardware Avail: Oct-2001 | Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	2	329	11.3	2	329	11.3
171.swim	2	1094	6.58	2	1094	6.58
172.mgrid	2	684	6.11	2	684	6.11
173.applu	2	803	6.07	2	798	6.11
177.mesa	2	526	6.17	2	514	6.32
178.galgel	2	379	17.8	2	379	17.8
179.art	2	382	15.8	2	382	15.8
183.quake	2	351	8.60	2	337	8.94
187.facerec	2	513	8.60	2	513	8.60
188.amp	2	776	6.58	2	763	6.69
189.lucas	2	835	5.56	2	812	5.72
191.fma3d	2	754	6.46	2	732	6.66
200.sixtrack	2	519	4.91	2	519	4.91
301.apsi	2	892	6.76	2	892	6.76

Hardware

CPU: POWER3-II
CPU MHz: 375
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: 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++ 5.0.2.0 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 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.quake: -O5 -lmass -lhmu -qinline
187.facerec: (basepeak=1)
188.amp: -O3 -qarch=pwr3



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Notes/Tuning Information (Continued)

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189.lucas:      -qpdf1/pdf2 -O3 -lhm -lmas
                -qipa=partition=large, fdpr -v -R3
191.fma3d:      -O4 -lmas -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 IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```