



CFP2000 Result

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IBM Corporation
RS/6000 SP-450MHz T/W(4 CPU)

SPECfp_rate2000 = 14.1
SPECfp_rate_base2000 = 14.0

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Sep-2001 | Hardware Avail: Jan-2002 | Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	4	376	19.7	4	376	19.7
171.swim	4	1911	7.53	4	1911	7.53
172.mgrid	4	1005	8.31	4	1005	8.31
173.applu	4	1320	7.38	4	1320	7.38
177.mesa	4	435	14.9	4	424	15.3
178.galgel	4	309	43.5	4	309	43.5
179.art	4	267	45.2	4	266	45.4
183.quake	4	604	9.99	4	587	10.3
187.facerec	4	487	18.1	4	487	18.1
188.amp	4	618	16.5	4	604	16.9
189.lucas	4	1179	7.87	4	1171	7.92
191.fma3d	4	952	10.2	4	932	10.5
200.sixtrack	4	432	11.8	4	432	11.8
301.apsi	4	819	14.7	4	819	14.7

Hardware

CPU: POWER3-II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 1 core/chip
CPU(s) orderable: 2,4
Parallel: No
Primary Cache: 32KBI+64KBD (on chip)
Secondary Cache: 8MB 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: -O5 -lmass -qalign=natural
183.quake: -O5 -lmass -lhmu -qinline
187.facerec: (basepeak=1)
188.amp: -O3 -qarch=pwr3



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Notes/Tuning Information (Continued)

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