



CFP2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6C1 450MHz

SPECfp2000 = 433

SPECfp_base2000 = 426

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio | |
|----------------|----------------|--------------|------------|---------|-------|--|
| 168.wupwise | 1600 | 277 | 577 | 277 | 577 | |
| 171.swim | 3100 | 772 | 402 | 772 | 402 | |
| 172.mgrid | 1800 | 546 | 330 | 546 | 330 | |
| 173.applu | 2100 | 651 | 323 | 648 | 324 | |
| 177.mesa | 1400 | 432 | 324 | 420 | 333 | |
| 178.galgel | 2900 | 303 | 958 | 303 | 958 | |
| 179.art | 2600 | 242 | 1074 | 240 | 1084 | |
| 183.earthquake | 1300 | 248 | 524 | 228 | 571 | |
| 187.facerec | 1900 | 417 | 455 | 417 | 455 | |
| 188.amp | 2200 | 603 | 365 | 588 | 374 | |
| 189.lucas | 2000 | 704 | 284 | 681 | 294 | |
| 191.fma3d | 2100 | 598 | 351 | 584 | 359 | |
| 200.sixtrack | 1100 | 432 | 255 | 432 | 255 | |
| 301.apsi | 2600 | 718 | 362 | 718 | 362 | |

Hardware

CPU: POWER3-II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 1,2
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.earthquake: -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
```