



CFP2000 Result

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IBM Corporation

IBM eServer pSeries 620 Model 6F0 (750 MHz)

SPECfp2000 = 410

SPECfp_base2000 = 396

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

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|----------------|----------------|--------------|------------|---------|-------|
| 168.wupwise | 1600 | 316 | 506 | 312 | 513 |
| 171.swim | 3100 | 873 | 355 | 873 | 355 |
| 172.mgrid | 1800 | 819 | 220 | 702 | 256 |
| 173.applu | 2100 | 798 | 263 | 734 | 286 |
| 177.mesa | 1400 | 477 | 294 | 477 | 294 |
| 178.galgel | 2900 | 268 | 1081 | 268 | 1081 |
| 179.art | 2600 | 204 | 1272 | 204 | 1272 |
| 183.earthquake | 1300 | 399 | 326 | 396 | 328 |
| 187.facerec | 1900 | 405 | 469 | 385 | 493 |
| 188.amp | 2200 | 579 | 380 | 514 | 428 |
| 189.lucas | 2000 | 585 | 342 | 583 | 343 |
| 191.fma3d | 2100 | 742 | 283 | 699 | 301 |
| 200.sixtrack | 1100 | 439 | 250 | 440 | 250 |
| 301.apsi | 2600 | 664 | 391 | 655 | 397 |

Hardware

CPU: RS64 IV
CPU MHz: 750
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 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: -qpdf1/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.ammp:     -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.
```