CFP2000 Result

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IBM Corporation

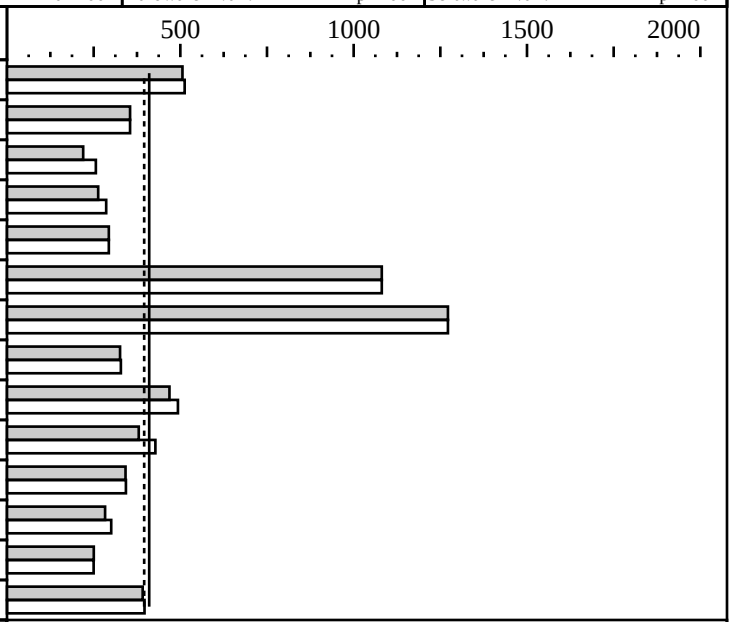
IBM eServer pSeries 660 Model 6H1 (750 MHz)

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.equake	1300	399	326	396	328
187.facerec	1900	405	469	385	493
188.ammp	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:	1,2,4,6
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=xlf90 -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.equake:  -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.
```