CFP2000 Result

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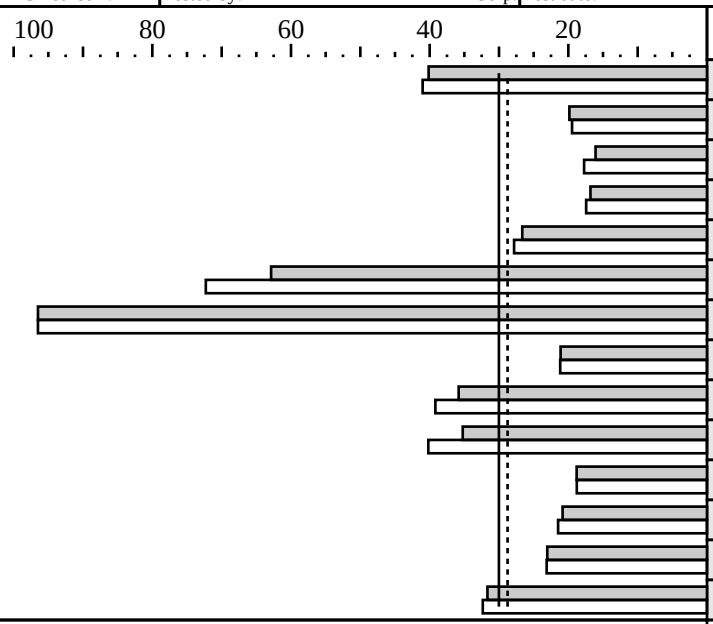
IBM Corporation

IBM eServer pSeries 660 Model 6M1 (750 MHz)

SPECfp_rate2000 = 30.0

SPECfp_rate_base2000 = 28.8

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
168.wupwise	8	370	40.2	8	362	41.0
171.swim	8	1449	19.8	8	1478	19.5
172.mgrid	8	1039	16.1	8	942	17.7
173.applu	8	1159	16.8	8	1118	17.4
177.mesa	8	488	26.6	8	467	27.8
178.galgel	8	428	62.9	8	372	72.3
179.art	8	250	96.5	8	250	96.5
183.equake	8	571	21.1	8	570	21.2
187.facerec	8	492	35.8	8	450	39.2
188.ammp	8	579	35.2	8	508	40.2
189.lucas	8	987	18.8	8	988	18.8
191.fma3d	8	936	20.8	8	907	21.5
200.sixtrack	8	443	23.0	8	441	23.1
301.apsi	8	762	31.7	8	746	32.3

Hardware

CPU:	RS64 IV
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	8 cores, 8 chips, 1 core/chip
CPU(s) orderable:	2,4,6,8
Parallel:	No
Primary Cache:	128KBI+128KBD (on chip)
Secondary Cache:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	2GB
Disk Subsystem:	1x9.1GB, 1x4.3GB Fast SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	Fortran 77 and 90: IBM xl Fortran 7.1.0.2 invoked as 'xlf90' for Fortran 90 and as 'xlf' for Fortran 77 C: IBM VAC++ 5.0.0.2 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 Flags:
  Fortran: -O5 -lmass
  C:       -O5 -lmass
Peak Flags:
  168.wupwise: -qpdf1/pdf2 -O5 -lmass -lhmu -L/usr/lpp/xlf/lib/pdf
  171.swim:    -O4 -qarch=pwr3 -lmass
  172.mgrid:   -O4 -qarch=pwr3
  173.applu:   -qpdf1/pdf2 -O3 -lmass -qipa=level=2:partition=large
  177.mesa:    -qpdf1/pdf2 -O3 -qarch=rs64b -L/usr/vac/lib, fdpr -v -R3
  178.galgel:  -O4 -qarch=rs64b -lessl
  179.art:     basepeak=1
  183.equake:  -O5 -lmass -lhmu
  187.facerec: -O5 -qarch=pwr3 -lmass -qhot fdpr -v -R3
  188.ammp:    -O5 -qarch=pwr3 -qipa=partition=large -qalign=natural -lmass
```

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Notes/Tuning Information (Continued)

```
  189.lucas:    -O3 -lmass -lhmu
  191.fma3d:    -O3 -lmass -lhmu
  200.sixtrack:-O3 -qarch=rs64c
  301.apsi:     -O4 -qarch=pwr3 -lmass -qhot
fdpr: Feedback directed program restructuring tool
APAR IY 21957 was applied to AIX 5.1.0 to enable new hardware support.
/usr/spec2000 file system mounted with no JFS log file I/O.
```