CFP2000 Result

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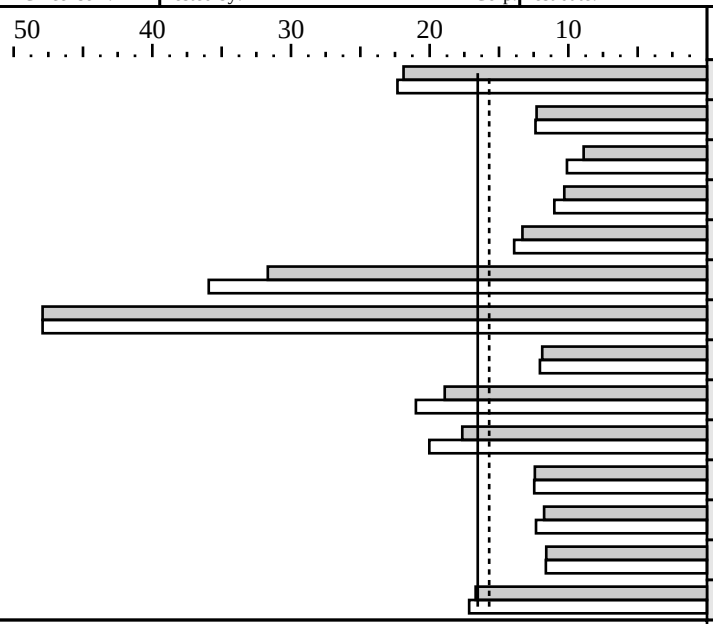
IBM Corporation

IBM eServer pSeries 660 Model 6M1 (750 MHz)

SPECfp_rate2000 = 16.5

SPECfp_rate_base2000 = 15.7

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	4	339	21.9	4	333	22.3
171.swim	4	1170	12.3	4	1163	12.4
172.mgrid	4	939	8.90	4	827	10.1
173.applu	4	947	10.3	4	885	11.0
177.mesa	4	488	13.3	4	467	13.9
178.galgel	4	425	31.7	4	374	35.9
179.art	4	252	47.9	4	252	47.9
183.equake	4	508	11.9	4	501	12.0
187.facerec	4	466	18.9	4	420	21.0
188.ammp	4	578	17.6	4	510	20.0
189.lucas	4	747	12.4	4	745	12.5
191.fma3d	4	829	11.7	4	790	12.3
200.sixtrack	4	440	11.6	4	439	11.6
301.apsi	4	723	16.7	4	703	17.2

Hardware

CPU:	RS64 IV
CPU MHz:	750
FPU:	Integrated
CPU(s) enabled:	4 cores, 4 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.
```