CFP2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

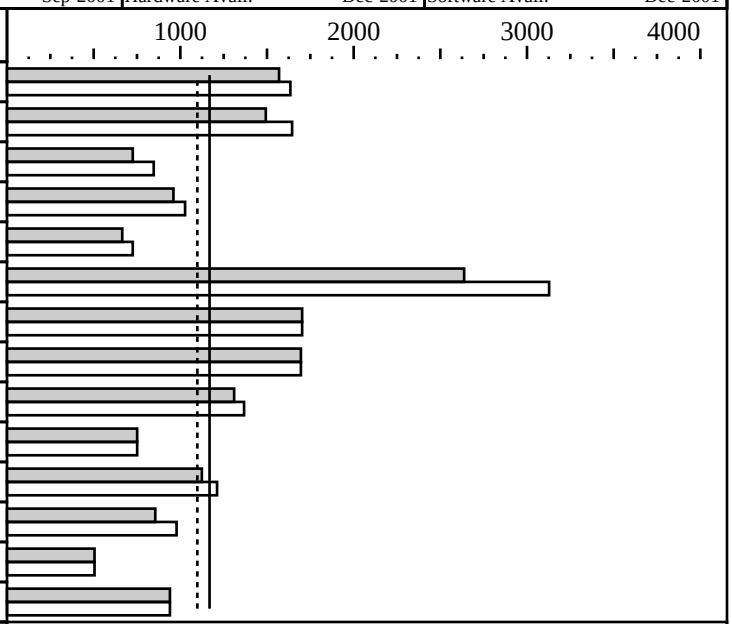
IBM Corporation
IBM eServer pSeries 690 Turbo

SPECfp2000 = 1169

SPECfp_base2000 = 1098

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
168.wupwise	1600	102	1570	97.9	1635
171.swim	3100	208	1493	188	1645
172.mgrid	1800	248	726	213	846
173.applu	2100	219	960	204	1027
177.mesa	1400	211	665	193	725
178.galgel	2900	110	2637	92.7	3128
179.art	2600	153	1703	153	1703
183.equake	1300	76.7	1696	76.7	1696
187.facerec	1900	145	1310	139	1368
188.ammp	2200	293	751	293	751
189.lucas	2000	178	1124	165	1212
191.fma3d	2100	245	855	215	978
200.sixtrack	1100	218	505	218	505
301.apsi	2600	277	940	277	940



Hardware

CPU:	POWER4
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	1 core, 8 chips, 2 cores/chip, 4 chips/MCM
CPU(s) orderable:	2,3,4 MCMs (order by # MCMs)
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip) per core
Secondary Cache:	1440KB unified (on chip) per chip
L3 Cache:	128MB unified (off Chip)
Other Cache:	None
Memory:	16GB
Disk Subsystem:	1x18GB 10000 RPM
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' C: IBM VAC for AIX 6.0 BETA invoked as 'xlc' Other Software: ESSL 3.3
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 -lhmu -lmass -qalign=natural
  C:         -O5 -lhmu -lmass -qalign=natural
Peak Optimization Flags:
  168.wupwise: -O5 -lmass, fdpr -v -R3
  171.swim:    -O4 -q64
  172.mgrid:   -O3 -qarch=pwr3 -qtune=pwr3 -lmass -qhot -qalign=natural
  173.applu:   -O3 -qarch=pwr3 -qtune=pwr3 -lmass -qhot
  177.mesa:    -O5 -lmass -lhmu -qalign=natural -q64
  178.galgel:  -O5 -qpdf1/pdf2 -lessl -lmass -qalign=natural -qessl=yes,
               fdpr -v -R3
  179.art:     basepeak=1
  183.equake:  basepeak=1
  187.facerec: -O5 -lmass, fdpr -v -R3
```

Copyright ©1999-2004, Standard Performance Evaluation Corporation

Notes/Tuning Information (Continued)

```
  188.ammp:    basepeak=1
  189.lucas:   -O3 -q64
  191.fma3d:   -O4 -qarch=pwr3 -qtune=pwr3 -lmass -qipa=partition=large
               -qalign=natural
  200.sixtrack basepeak=1
  301.apsi:    basepeak=1
fdpr: Feedback directed program restructuring tool
APAR IY 22854 was applied to AIX 5L V5.1 to enable new hardware support.
/usr/spec2000 file system mounted with no JFS log file I/O.
The final version of the beta compiler will be available by Dec-2002.
```