



CFP2000 Result

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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.quake	1300	76.7	1696	76.7	1696	
187.facerec	1900	145	1310	139	1368	
188.ampp	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.quake: basepeak=1
 187.facerec: -O5 -lmass, fdpr -v -R3



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Notes/Tuning Information (Continued)

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188.ammf: 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.
```