CINT2000 Result

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IBM Corporation

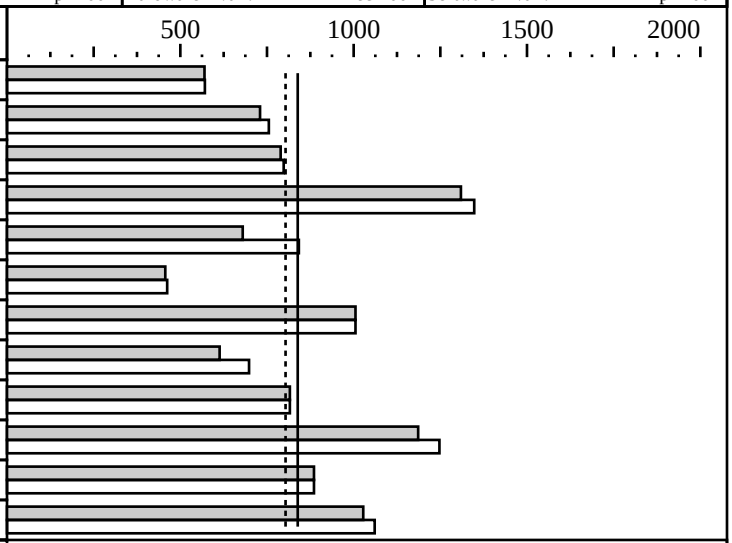
IBM eServer pSeries 690 Turbo (1300 MHz)

SPECint2000 = 839

SPECint_base2000 = 804

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Apr-2002 | Hardware Avail: Dec-2001 | Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	246	570	245	571
175.vpr	1400	192	730	185	755
176.gcc	1100	139	789	138	798
181.mcf	1800	137	1309	134	1348
186.crafty	1000	147	680	119	842
197.parser	1800	394	457	390	462
252.eon	1300	129	1005	129	1005
253.perlbmk	1800	293	613	258	698
254.gap	1100	135	816	135	816
255.vortex	1900	160	1186	152	1247
256.bzip2	1500	169	886	169	886
300.twolf	3000	292	1028	283	1061



Hardware

CPU:	POWER4
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	1 core, 4 chips, 2 cores/chip, 4 chips/MCM
CPU(s) orderable:	1,2,3,4 MCMs (order by # MCM)
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:	64GB
Disk Subsystem:	1x18.2GB SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	IBM VisualAge C++ for AIX, Versioni 6.0 BETA
File System:	AIX/JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  gcc:     -ma -qlanglvl=ansi -DHOST_WORDS_BIG_ENDIAN
  crafty:  -DAIX
  eon:     -DNEED_EXPLICIT_SPECIALIZATION -I. -DNDEBUG
  perlbmk: -DSPEC_CPU2000_AIX
  gap:     -DSYS_IS_BSD -DSYS_STRING_H -DSYS_HAS_TIME_PROTO
           -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  twolf:   -DHAVE_SIGNED_CHAR
Base Optimization Flags:
  C:   -qpdf1/pdf2 -O5 -blpdata -qalign=natural
  C++: -qpdf1/pdf2 -O5 -lhmu -qalign=natural
Peak Optimization Flags
  164.gzip:    CC=/usr/vac/bin/xlc, -O4 -qpdf1/pdf2 -L/usr/vac/lib
  175.vpr:     -O4 -qarch=ppc -qtune=pwr3 -blpdata, fdpr -v -R3
  176.gcc:     -qpdf1/pdf2 -O5 -lhmu -qalign=natural -L/usr/vac/lib
  181.mcf:     -O3 -lhmu -qipa=partition=large -blpdata, fdpr -v -R3
  186.crafty:  -O4 -q64, fdpr -v -R3
  197.parser:  -O5 -blpdata, fdpr -v -R3
  252.eon:     basepeak=1
  253.perlbmk: -qpdf1/pdf2 -O5 -lhmu -qalign=natural -L/usr/vac/lib
```

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Notes/Tuning Information (Continued)

```
254.gap:     basepeak=1
255.vortex:  -qpdf1/pdf2 -O5 -lhmu -qalign=natural -L/usr/vac/lib
256.bzip2:   basepeak=1
300.twolf:   CC=/usr/vac/bin/xlc, -O5 -qpdf1/pdf2 -lhmu
             -qalign=natural -L/usr/vac/lib -blpdata
fpdr: 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 support.
ulimits set to unlimited
C: IBM VAC++ invoked as cc except where noted as xlc
C++: IBM VAC++ invoked as xlC
The final version of the compiler will be available by Dec-2002.
Large page mode and memory affinity were set as follows:
vmtune -g 16777216 -L 1024 -y1.
```