



# 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, Version 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 -lhm -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 -lhm -qalign=natural -L/usr/vac/lib
181.mcf: -O3 -lhm -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 -lhm -qalign=natural -L/usr/vac/lib
```



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## Notes/Tuning Information (Continued)

```
254.gap:      basepeak=1
255.vortex:   -qpdf1/pdf2 -O5 -lhm -qalign=natural -L/usr/vac/lib
256.bzip2:    basepeak=1
300.twolf:    CC=/usr/vac/bin/xlc, -O5 -qpdf1/pdf2 -lhm
              -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.
```