



# CINT2000 Result

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IBM Corporation  
IBM eServer pSeries 640 Model B80

SPECint\_rate2000 = 7.70  
SPECint\_rate\_base2000 = 7.20

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	534	6.08	2	536	6.06
175.vpr	2	441	7.36	2	438	7.42
176.gcc	2	329	7.75	2	329	7.75
181.mcf	2	369	11.3	2	369	11.3
186.crafty	2	359	6.47	2	278	8.35
197.parser	2	896	4.66	2	824	5.07
252.eon	2	332	9.08	2	332	9.08
253.perlbnk	2	784	5.33	2	672	6.22
254.gap	2	417	6.12	2	417	6.12
255.vortex	2	639	6.90	2	504	8.75
256.bzip2	2	475	7.32	2	459	7.58
300.twolf	2	634	11.0	2	618	11.3

### Hardware

CPU: POWER3-II  
 CPU MHz: 450  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 2,4  
 Parallel: No  
 Primary Cache: 32KBI+64KBD (on chip)  
 Secondary Cache: 8MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 2GB  
 Disk Subsystem: 2x18GB 10000RPM  
 Other Hardware: None

### Software

Operating System: AIX 5L V5.1  
 Compiler: C: IBM VAC++ 5.0.2.0 invoked as cc except where noted as xlc  
 C++: IBM VAC++ 5.0.2.0 invoked as xlc  
 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
perlbnk: -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: -O4 -lmass
C++: -O4 -lmass
```

### Peak Optimization Flags

```
164.gzip: -O4 -lhmu, fdpr -R3 -p -x -o
175.vpr: -O5 -qunroll=8
176.gcc: (basepeak=1)
181.mcf: (basepeak=1)
186.crafty: -O3 -lhmu -q64
197.parser: -qpdf1/pdf2 -O4 -lpdf
           -bnso -bI:/lib/syscalls.exp, fdpr -R3 -p -x
252.eon: -O4 -lmass, fdpr -R3 -p -x -o
```



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## Notes/Tuning Information (Continued)

```
253.perlbnk: -qpdf1/pdf2 -O3 -lhmu -lpdf -qarch=pwr3
              -qdatalocal -qunroll=8, fdpr -R3 -p -x
254.gap:      -O4 -qarch=pwr3, fdpr -R3 -p -x -o
255.vortex:   -O3 -lhmu -lmass -qipa=partition=large,
              fdpr -v -R3 -p -x
256.bzip2:    -O5 -qunroll=8, fdpr -R3 -p -x -o
300.twolf:    -qpdf1/pdf2 -O5 -lpdf, fdpr -R3 -p -x
              CC=/usr/vac/bin/xlc
fpdr: Feedback directed program restructuring tool
APAR IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```