



# CINT2000 Result

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IBM Corporation  
IBM eServer pSeries 640 Model B80

SPECint2000 = 334  
SPECint\_base2000 = 313

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	530	264	532	263	
175.vpr	1400	440	318	435	322	
176.gcc	1100	328	336	328	336	
181.mcf	1800	357	504	357	504	
186.crafty	1000	359	278	278	360	
197.parser	1800	897	201	824	219	
252.eon	1300	331	393	331	393	
253.perlbnk	1800	777	232	671	268	
254.gap	1100	403	273	403	273	
255.vortex	1900	640	297	505	376	
256.bzip2	1500	473	317	457	328	
300.twolf	3000	634	473	618	485	

### Hardware

CPU: POWER3-II  
CPU MHz: 450  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 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
```