



# CINT2000 Result

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IBM Corporation  
RS/6000 44P-170 (333 MHz)

SPECint2000 = 202  
SPECint\_base2000 = 196

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Feb-2000 | Software Avail: Apr-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	756	185	731	191	
175.vpr	1400	874	160	881	159	
176.gcc	1100	529	208	529	208	
181.mcf	1800	964	187	964	187	
186.crafty	1000	486	206	436	229	
197.parser	1800	1312	137	1220	148	
252.eon	1300	440	296	445	292	
253.perlbnk	1800	1011	178	931	193	
254.gap	1100	524	210	512	215	
255.vortex	1900	845	225	845	225	
256.bzip2	1500	854	176	803	187	
300.twolf	3000	1317	228	1304	230	

### Hardware

CPU: POWER3-II  
 CPU MHz: 333  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
 CPU(s) orderable: 1  
 Parallel: No  
 Primary Cache: 32KBI+64KBD (on chip)  
 Secondary Cache: 1MB unified (off chip)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 512MB  
 Disk Subsystem: 1x9.1GB 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
    EXTRA_LDFLAGS=-I. -DNDEBUG
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 -v -R3
175.vpr: -O5 -qunroll=8
176.gcc: basepeak=1
181.mcf: basepeak=1
186.crafty: -O3 -lhmu -q64
197.parser: -qpdf1/pdf2 -O4 -lpdf -L/usr/vac/lib
    -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
```



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## Notes/Tuning Information (Continued)

```
252.eon:      -O4 -lmass, fdpr -v -R3
253.perlbnk:  -qpdf1/pdf2 -O3 -lhmu -lpdf -L/usr/vac/lib
              -qarch=pwr3 -qdatalocal -qunroll=8
254.gap:      -O4 -qarch=pwr3, fdpr -v -R3
255.vortex:   basepeak=1
256.bzip2:    -O5 -qunroll=8
300.twolf:    CC=/usr/vac/bin/xlc, -qpdf1/pdf2 -O5
              -lpdf -L/usr/vac/lib, fdpr -v -R3
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 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 beta compiler will be available by Sep-2002.
```