



# CINT2000 Result

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

SPECint2000 = 180  
SPECint\_base2000 = 177

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	856	164	875	160	
175.vpr	1400	948	148	944	148	
176.gcc	1100	574	192	596	184	
181.mcf	1800	959	188	959	188	
186.crafty	1000	504	198	502	199	
197.parser	1800	1582	114	1288	140	
252.eon	1300	664	196	645	202	
253.perlbnk	1800	1093	165	1114	162	
254.gap	1100	577	191	601	183	
255.vortex	1900	840	226	834	228	
256.bzip2	1500	1003	150	966	155	
300.twolf	3000	1252	240	1270	236	

### Hardware

CPU: Power3-II  
CPU MHz: 333  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1  
Parallel: None  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 1MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 1GB  
Disk Subsystem: 2x9.1GB IBM Fast/Wide SCSI 7200 RPM  
Other Hardware: None

### Software

Operating System: AIX 4.3.3  
Compiler: C: IBM VAC 5.0 invoked as 'cc' except where noted as 'xlc'  
C++: IBM C++ 3.6.6.1 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
```

NOTE: The flag combination "qpdf1/qpdf2" indicates a 2 step compilation process the exact process is as follows:

```
fdo_pre0 = rm -rf ${PDFDIR}; mkdir -p ${PDFDIR}
PASS1_FLAGS    ==qpdf1 <optimization flags>
PASS1_LDFLAGS  =<optimized libraries> -L<pdf library location> -lpdf
PASS2_FLAGS    ==qpdf2 <optimization flags>
PASS2_LDFLAGS  ==<optimized libraries>
```

### Base Flags:

```
C: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmU
C++: -qpdf1/pdf2 -O3 qarch=ppc qtune=pwr3
```

### Peak Flags:

```
164.gzip: xlc -O5
175.vpr: xlc -qpdf1/pdf2 -O3 -qarch=pwr3 -bnso -bI:/lib/syscalls.exp
```



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## Notes/Tuning Information (Continued)

```
176.gcc: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmu
181.mcf: xlc -qpdf1/pdf2 -O5 -bnso -bI:/lib/syscalls.exp
186.crafty: xlc -qpdf1 -O3 -Q=500 -qarch=pwr3
197.parser: xlc -O5 -qipa=partition=large -bnso -bI:/lib/syscalls.exp
252.eon: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=pwr3 -lhmu
253.perlbnk: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmu
254.gap: -O5 -qansialias -lhmu
255.vortex: -qpdf1/pdf2 -O5 -Q=500
256.bzip2: xlc -O3 -qarch=pwr3 -lhmu
300.twolf: xlc -O5 -Q=500 -lhmu
```