



# CINT2000 Result

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IBM Corporation  
RS/6000 44P-270 (1 CPU)

SPECint2000 = 251  
SPECint\_base2000 = 242

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	100 200 300 400 500				
164.gzip	1400	715	196	686	204	..... ..... ..... ..... .....				
175.vpr	1400	604	232	586	239	..... ..... ..... ..... .....				
176.gcc	1100	386	285	386	285	..... ..... ..... ..... .....				
181.mcf	1800	493	365	479	376	..... ..... ..... ..... .....				
186.crafty	1000	406	247	390	256	..... ..... ..... ..... .....				
197.parser	1800	1259	143	1003	179	..... ..... ..... ..... .....				
252.eon	1300	560	232	559	232	..... ..... ..... ..... .....				
253.perlbmk	1800	920	196	920	196	..... ..... ..... ..... .....				
254.gap	1100	501	219	473	233	..... ..... ..... ..... .....				
255.vortex	1900	641	297	640	297	..... ..... ..... ..... .....				
256.bzip2	1500	699	215	672	223	..... ..... ..... ..... .....				
300.twolf	3000	806	372	806	372	..... ..... ..... ..... .....				

### Hardware

CPU: Power3-II  
CPU MHz: 375  
FPU: Integrated  
CPU(s) enabled: 1 core, 1 chip, 1 core/chip  
CPU(s) orderable: 1,2,3,4  
Parallel: None  
Primary Cache: 32KBI+64KBD (on chip)  
Secondary Cache: 4MB unified (off chip)  
L3 Cache: None  
Other Cache: None  
Memory: 4GB  
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
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
```

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 -lhma
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 -lhma
253.perlbnk: -qpdf1/pdf2 -O3 -qarch=pwr3 -lhma
254.gap: -O5 -qansialias -lhma
255.vortex: -qpdf1/pdf2 -O5 -Q=500
256.bzip2: xlc -O3 -qarch=pwr3 -lhma
300.twolf: xlc -O5 -Q=500 -lhma
NOTE: 4 CPUs were installed, but 3 were disabled via the service processor setup menu.
```