



CINT2000 Result

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IBM Corporation
RS/6000 44P-170 (400 MHz)

SPECint2000 = 249
SPECint_base2000 = 239

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	725	193	669	209	
175.vpr	1400	641	218	626	224	
176.gcc	1100	384	287	389	283	
181.mcf	1800	583	309	575	313	
186.crafty	1000	394	254	377	265	
197.parser	1800	1232	146	983	183	
252.eon	1300	530	245	526	247	
253.perlbmk	1800	877	205	881	204	
254.gap	1100	473	233	449	245	
255.vortex	1900	629	302	629	302	
256.bzip2	1500	723	208	699	215	
300.twolf	3000	877	342	842	356	

Hardware

CPU: Power3-II
 CPU MHz: 400
 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: 4MB 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
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
```