



CINT2000 Result

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IBM Corporation
RS/6000 Model 7026-F80 (1 CPU)

SPECint2000 = 234
SPECint_base2000 = 225

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	642	218	610	229	
175.vpr	1400	524	267	530	264	
176.gcc	1100	452	243	445	247	
181.mcf	1800	788	228	799	225	
186.crafty	1000	433	231	419	239	
197.parser	1800	1034	174	930	193	
252.eon	1300	706	184	692	188	
253.perlbmk	1800	1028	175	938	192	
254.gap	1100	597	184	580	190	
255.vortex	1900	877	217	768	247	
256.bzip2	1500	573	262	564	266	
300.twolf	3000	763	393	771	389	

Hardware

CPU: IBM PowerPC RS64-III
 CPU MHz: 450
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 1 core/chip
 CPU(s) orderable: 1
 Parallel: No
 Primary Cache: 128KBI+128KBD (on chip)
 Secondary Cache: 2MB (I+D) (off chip, per CPU)
 L3 Cache: None
 Other Cache: None
 Memory: 2GB
 Disk Subsystem: 2x18.2GB Ultra SCSI,7200 RPM
 Other Hardware: None

Software

Operating System: AIX 4.3.3 plus APAR IY09807
 Compiler: C: IBM VAC 5.0.1 invoked as 'cc'
 C: 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 -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 = {libraries} -L{pdf library location} -lpdf
PASS2_FLAGS = --qpdf2 {optimization flags}
PASS2_LDFLAGS = --{libraries}
```

Base Flags:

```
C: -O4 -lhu
C++: -qpdf1/pdf2 -O3 qarch=ppc qtune=rs64b
```

Peak Flags:

```
164.gzip: CC=xlc, -O5 -qarch=ppc, fdpr -v -R3
175.vpr: CC=xlc, -qpdf1/pdf2 -O3 -qarch=rs64b -Q=500 -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
```



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Notes/Tuning Information (Continued)

```
176.gcc:      -qpdf1/pdf2 -O3 -qarch=pwr3 -lhmu, fdpr -v -R3
181.mcf:      -O4
186.crafty:   -O4 -qarch=rs64b, fdpr -v -R3
197.parser:   CC=xlc,-O4 -qarch=rs64b -bnso -bI:/lib/syscalls.exp, fdpr -v -R3 -q pdf1/pdf2
252.eon:      -qpdf1/pdf2 -O3 -qarch=ppc -qtune=pwr3 -lhmu, fdpr -v -R3
253.perlbnk:  -qpdf1/pdf2 -O3 -qarch=rs64b -qdatalocal -qunroll=8 -lhmu, fdpr -v -R3
254.gap:      -O4 , fdpr -v -R3 -qarch=rs64b
255.vortex:   -qpdf1/pdf2 -O5 -Q=500 -lhmu
256.bzip2:    -O4 -qarch=rs64b, fdpr -v -R3
300.twolf:    CC=xlc,-O5 , fdpr -v -R3
```