



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

IBM Corporation  
RS/6000 Model 7026-M80 (8 CPU)

SPECint\_rate2000 = 25.1  
SPECint\_rate\_base2000 = 24.0

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

					Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio				
45	40	35	30	25	20	15	10	5	164.gzip	8	586	22.2	8	559	23.3
									175.vpr	8	446	29.1	8	441	29.5
									176.gcc	8	410	24.9	8	401	25.4
									181.mcf	8	572	29.2	8	571	29.3
									186.crafty	8	390	23.8	8	376	24.7
									197.parser	8	907	18.4	8	815	20.5
									252.eon	8	638	18.9	8	625	19.3
									253.perlbnk	8	920	18.2	8	839	19.9
									254.gap	8	559	18.3	8	543	18.8
									255.vortex	8	776	22.7	8	678	26.0
									256.bzip2	8	471	29.5	8	462	30.1
									300.twolf	8	665	41.9	8	654	42.6

### Hardware

CPU: IBM PowerPC RS64-III  
 CPU MHz: 500  
 FPU: Integrated  
 CPU(s) enabled: 8 cores, 8 chips, 1 core/chip  
 CPU(s) orderable: 2,4,6,8  
 Parallel: No  
 Primary Cache: 128KBI+128KBD (on chip)  
 Secondary Cache: 4MB (I+D) (off chip, per CPU)  
 L3 Cache: None  
 Other Cache: None  
 Memory: 4GB  
 Disk Subsystem: 2x9.1GB 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' 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 -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 -lhmud
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
```



# CINT2000 Result

Copyright ©1999-2004, Standard Performance Evaluation Corporation

IBM Corporation  
RS/6000 Model 7026-M80 (8 CPU)

SPECint\_rate2000 = 25.1  
SPECint\_rate\_base2000 = 24.0

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

## 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
```