



CINT2000 Result

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IBM Corporation
RS/6000 7026-H80 (6 CPU)

SPECint_rate2000 = 18.0
SPECint_rate_base2000 = 17.3

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
164.gzip	6	590	16.5	6	563	17.3
175.vpr	6	469	20.8	6	468	20.8
176.gcc	6	404	19.0	6	398	19.2
181.mcf	6	793	15.8	6	795	15.8
186.crafty	6	390	17.9	6	376	18.5
197.parser	6	909	13.8	6	816	15.3
252.eon	6	636	14.2	6	624	14.5
253.perlbnk	6	921	13.6	6	840	14.9
254.gap	6	598	12.8	6	590	13.0
255.vortex	6	778	17.0	6	681	19.4
256.bzip2	6	480	21.7	6	471	22.2
300.twolf	6	664	31.4	6	653	32.0

Hardware

CPU: IBM PowerPC RS64-III
 CPU MHz: 500
 FPU: Integrated
 CPU(s) enabled: 6 cores, 6 chips, 1 core/chip
 CPU(s) orderable: 6
 Parallel: No
 Primary Cache: 128KBI+128KBD (on chip)
 Secondary Cache: 4MB (I+D) (off chip, per CPU)
 L3 Cache: None
 Other Cache: None
 Memory: 2GB
 Disk Subsystem: 1x4.5GB LVD SCSI, 1x9.1GB SSA
 Other Hardware: None

Software

Operating System: AIX 4.3.3 plus APAR IY09807
 Compiler: 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 -lhmw
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
```