



CINT2000 Result

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IBM Corporation
RS/6000 Model 7026-M80 (1 CPU)

SPECint2000 = 275
SPECint_base2000 = 264

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	582	241	553	253	
175.vpr	1400	438	319	436	321	
176.gcc	1100	400	275	393	280	
181.mcf	1800	476	378	517	348	
186.crafty	1000	390	256	377	265	
197.parser	1800	908	198	816	221	
252.eon	1300	637	204	615	211	
253.perlbmk	1800	921	195	840	214	
254.gap	1100	548	201	534	206	
255.vortex	1900	779	244	680	279	
256.bzip2	1500	467	322	460	326	
300.twolf	3000	657	457	644	466	

Hardware

CPU: IBM PowerPC RS64-III
 CPU MHz: 500
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 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
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 = {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
```



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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
```

NOTE: 8 CPUs were installed, but 7 were disabled via the service processor setup menu.