



CINT2000 Result

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IBM Corporation
IBM eServer pSeries 640 (8 MB L2)

SPECint2000 = 273
SPECint_base2000 = 247

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Aug-2000 | Hardware Avail: Oct-2000 | Software Avail: Oct-2000

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	
164.gzip	1400	713	196	608	230	
175.vpr	1400	559	251	495	283	
176.gcc	1100	370	297	362	304	
181.mcf	1800	371	486	358	502	
186.crafty	1000	389	257	412	243	
197.parser	1800	1250	144	965	186	
252.eon	1300	557	233	556	234	
253.perlbmk	1800	996	181	898	200	
254.gap	1100	496	222	464	237	
255.vortex	1900	710	268	657	289	
256.bzip2	1500	683	220	523	287	
300.twolf	3000	842	356	712	421	

Hardware

CPU: IBM Power3-II
CPU MHz: 375
FPU: Integrated
CPU(s) enabled: 1 core, 1 chip, 1 core/chip
CPU(s) orderable: 2,4
Parallel: No
Primary Cache: 32KBI+64KBD (on chip)
Secondary Cache: 8MB (I+D) (off chip)
L3 Cache: None
Other Cache: None
Memory: 4GB
Disk Subsystem: 1x9.1GB IBM Ultra-2 SCSI, 10000RPM
Other Hardware: None

Software

Operating System: AIX 4.3.3 + beta of APAR IY12051
Compiler: C: IBM VAC 5.0.1 invoked as 'cc' except where noted as 'xlc'
C++: IBM C++ 3.6.6.0 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 -D SYS_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 Optimization Flags:

```
C: -qpdf1/pdf2 -O3 -lhma -qarch=pwr3
C++: -qpdf1/pdf2 -O3 -qarch=ppc -qtune=pwr3
```

Peak Optimization Flags

```
175.vpr: CC=xlc, -O4 -qarch=ppc, -bnso -bI:/lib/syscalls.exp
176.gcc: -qpdf1/pdf2 -O3 -lhma -qarch=pwr3, fdpr -v -R3
```



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Notes/Tuning Information (Continued)

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