CINT2000 Result

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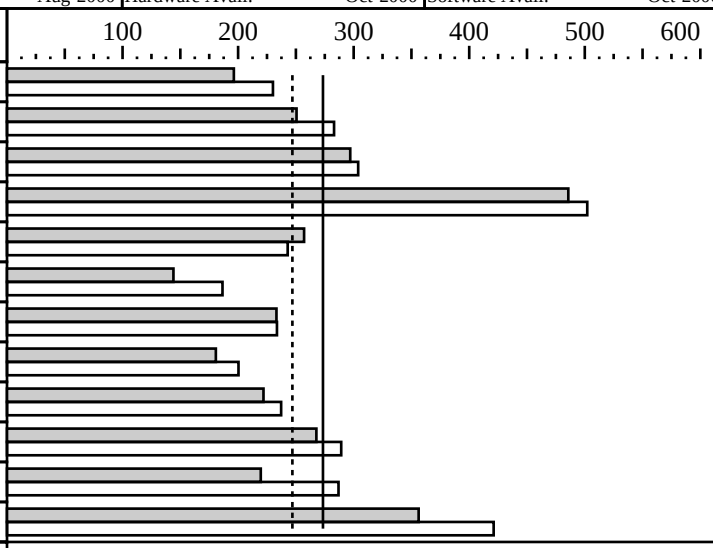
IBM Corporation
IBM eServer pSeries 640 (8 MB L2)

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 -lhmu -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 -lhmu -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.perlbmk: -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
```