CINT2000 Result

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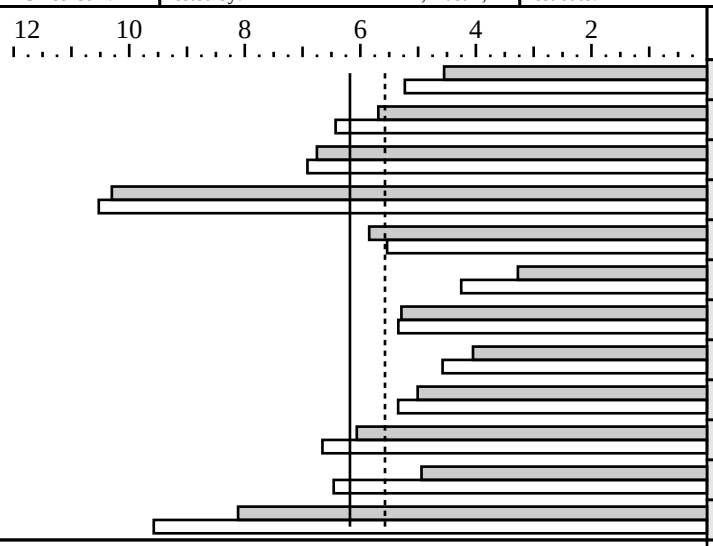
IBM Corporation
IBM eServer pSeries 640 (8 MB L2)

SPECint_rate2000 = 6.18

SPECint_rate_base2000 = 5.57

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



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	714	4.55	2	621	5.23
175.vpr	2	571	5.69	2	505	6.43
176.gcc	2	378	6.75	2	369	6.92
181.mcf	2	405	10.3	2	397	10.5
186.crafty	2	397	5.85	2	419	5.54
197.parser	2	1276	3.27	2	982	4.25
252.eon	2	570	5.29	2	565	5.34
253.perlbmk	2	1031	4.05	2	912	4.58
254.gap	2	510	5.01	2	477	5.35
255.vortex	2	727	6.06	2	662	6.66
256.bzip2	2	704	4.94	2	539	6.46
300.twolf	2	858	8.12	2	727	9.58

Hardware

CPU:	IBM Power3-II
CPU MHz:	375
FPU:	Integrated
CPU(s) enabled:	2 cores, 2 chips, 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
```