# CINT2000 Result

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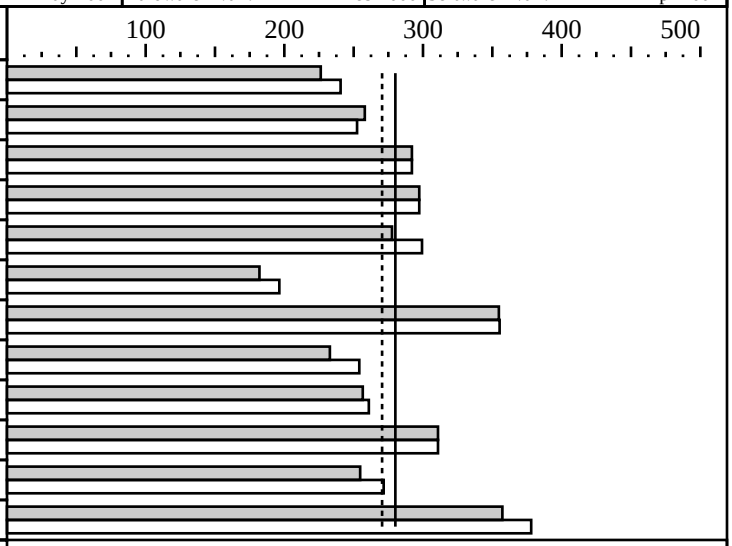
## IBM Corporation
## RS/6000 44P-170 (400MHz)

SPECint2000 = 280

SPECint_base2000 = 271

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: May-2002 | Hardware Avail: Feb-2000 | Software Avail: Apr-2002

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 619 | 226 | 582 | 241 |
| 175.vpr | 1400 | 543 | 258 | 555 | 252 |
| 176.gcc | 1100 | 377 | 292 | 377 | 292 |
| 181.mcf | 1800 | 605 | 297 | 605 | 297 |
| 186.crafty | 1000 | 360 | 278 | 334 | 299 |
| 197.parser | 1800 | 989 | 182 | 917 | 196 |
| 252.eon | 1300 | 366 | 355 | 366 | 355 |
| 253.perlbmk | 1800 | 773 | 233 | 709 | 254 |
| 254.gap | 1100 | 429 | 257 | 422 | 261 |
| 255.vortex | 1900 | 611 | 311 | 611 | 311 |
| 256.bzip2 | 1500 | 589 | 255 | 552 | 272 |
| 300.twolf | 3000 | 840 | 357 | 794 | 378 |




### Hardware

| | |
|---|---|
| CPU: | POWER3-II |
| CPU MHz: | 400 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 1 chip, 1 core/chip |
| CPU(s) orderable: | 1 |
| Parallel: | No |
| Primary Cache: | 32KBI+64KBD (on chip) |
| Secondary Cache: | 4MB unified (off chip) |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 512MB |
| Disk Subsystem: | 1x9.1GB SCSI |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | AIX 5L V5.1 |
| Compiler: | IBM VisualAge C++ for AIX, Version 6.0 BETA |
| 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
           EXTRA_LDFLAGS=-I. -DNDEBUG
  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
Base Optimization Flags:
  C:           -O4 -lmass
  C++:         -O4 -lmass
Peak Optimization Flags:
  164.gzip:    -O4 -lhmu, fdpr -v -R3
  175.vpr:     -O5 -qunroll=8
  176.gcc:     basepeak=1
  181.mcf:     basepeak=1
  186.crafty:  -O3 -lhmu -q64
  197.parser:  -qpdf1/pdf2 -O4 -lpdf -L/usr/vac/lib
               -bnso -bI:/lib/syscalls.exp, fdpr -v -R3
```

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## Notes/Tuning Information (Continued)

```
  252.eon:     -O4 -lmass,  fdpr -v -R3
  253.perlbmk: -qpdf1/pdf2 -O3 -lhmu -lpdf -L/usr/vac/lib
               -qarch=pwr3 -qdatalocal -qunroll=8
  254.gap:     -O4 -qarch=pwr3,  fdpr -v -R3
  255.vortex:  basepeak=1
  256.bzip2:   -O5 -qunroll=8
  300.twolf:   CC=/usr/vac/bin/xlc, -qpdf1/pdf2 -O5
               -lpdf -L/usr/vac/lib,  fdpr -v -R3
fdpr: Feedback directed program restructuring tool.
/usr/spec2000 filesystem mounted with no JFS log file I/O.
APAR IY31315 was applied to AIX 5L V5.1 to enable new hardware support.
ulimits set to unlimited.
C: IBM VAC++ invoked as cc except where noted as xlc.
C++: IBM VAC++ invoked as xlC.
The final version of the beta compiler will be available by Sep-2002.
```