# CINT2000 Result

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## IBM Corporation

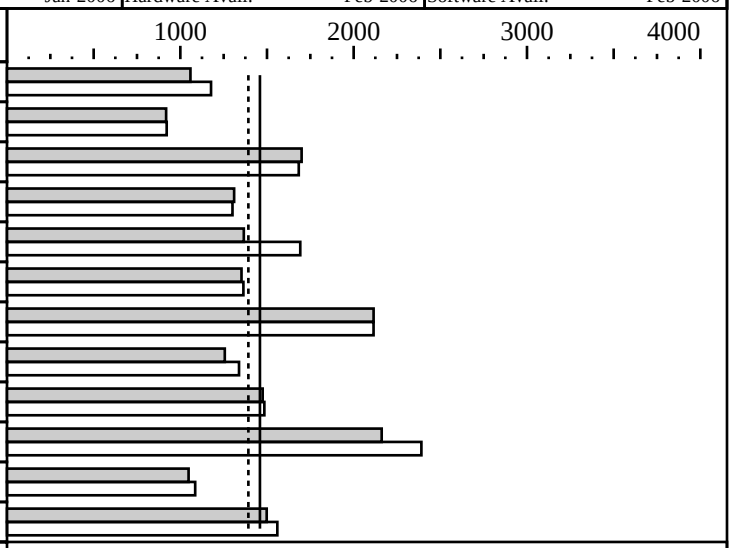
IBM IntelliStation POWER 185 (2500 MHz, 1 CPU)

SPECint2000 = 1459

SPECint_base2000 = 1393

SPEC license #: 11 | Tested by: IBM | Test date: Jan-2006 | Hardware Avail: Feb-2006 | Software Avail: Feb-2006

| Benchmark | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |
|---|---|---|---|---|---|
| 164.gzip | 1400 | 132 | 1058 | 119 | 1177 |
| 175.vpr | 1400 | 152 | 918 | 152 | 921 |
| 176.gcc | 1100 | 64.7 | 1700 | 65.3 | 1683 |
| 181.mcf | 1800 | 137 | 1310 | 138 | 1301 |
| 186.crafty | 1000 | 73.2 | 1366 | 59.1 | 1692 |
| 197.parser | 1800 | 133 | 1353 | 132 | 1364 |
| 252.eon | 1300 | 61.5 | 2115 | 61.5 | 2115 |
| 253.perlbmk | 1800 | 143 | 1256 | 134 | 1339 |
| 254.gap | 1100 | 74.6 | 1475 | 74.1 | 1485 |
| 255.vortex | 1900 | 87.9 | 2162 | 79.5 | 2391 |
| 256.bzip2 | 1500 | 143 | 1048 | 138 | 1086 |
| 300.twolf | 3000 | 200 | 1498 | 192 | 1560 |




### Hardware

| | |
|---|---|
| CPU: | IBM PowerPC 970MP |
| CPU MHz: | 2500 |
| FPU: | Integrated |
| CPU(s) enabled: | 1 core, 2 chips, 1 core/chip |
| CPU(s) orderable: | 1,2 |
| Parallel: | No |
| Primary Cache: | 64KBI+32KBD (on chip)/core |
| Secondary Cache: | 1MB unified (on chip)/core |
| L3 Cache: | None |
| Other Cache: | None |
| Memory: | 4x2GB |
| Disk Subsystem: | 2x73GB SCSI, 10K RPM |
| Other Hardware: | None |

### Software

| | |
|---|---|
| Operating System: | AIX 5L V5.3 |
| Compiler: | XL C/C++ Enterprise Edition Version 8.0 for AIX |
| File System: | AIX/JFS2 |
| System State: | Multi-user |

## Notes/Tuning Information

```
Portability Flags:
  176.gcc:      -ma -DHOST_WORDS_BIG_ENDIAN
  186.crafty:   -DAIX
  253.perlbmk:  -DSPEC_CPU2000_AIX
  254.gap:      -DSYS_IS_BSD -DSYS_STRING_H
                -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  300.twolf:    -DHAVE_SIGNED_CHAR

Base Optimization Flags:
  C:    -qpdf1/pdf2
        -O5 -blpdata -D_ILS_MACROS
  C++:  -qpdf1/pdf2
        -O4 -qalign=natural

Peak Optimization Flags
  164.gzip:     -qpdf1/pdf2
            -O5 -qalign=natural -qhot=arraypad -qfdpr -Q -qmaxmem=-1 -q64 -blpdata -lhmu -qenablevmx
                fdpr -q -O3
  175.vpr:      -qpdf1/pdf2
               -O5 -qalign=natural -qhot=arraypad -qfdpr -Q -qmaxmem=-1 -blpdata -lhmu
```

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## Notes/Tuning Information (Continued)

```
                fdpr -q -O3
  176.gcc:      -qpdf1/pdf2
                -O5 -D_ILS_MACROS -blpdata
  181.mcf:      -qpdf1/pdf2
                -O5 -qalign=natural -qhot=arraypad -qfdpr -Q -qmaxmem=-1 -blpdata
                fdpr -q -O3
  186.crafty:   -qpdf1/pdf2
                -O5 -qfdpr -q64 -lhmu
                fdpr -q -O3
  197.parser:   -qpdf1/pdf2
                -O4 -qfdpr -D_ILS_MACROS -blpdata
                 fdpr -q -O3
  252.eon:      -qpdf1/pdf2
                 -O4 -qalign=natural
  253.perlbmk:  -qpdf1/pdf2
                 -O4 -qalign=natural -D_ILS_MACROS -blpdata -lhmu -qenablevmx
  254.gap:      -qpdf1/pdf2
                 -O5 -D_ILS_MACROS -blpdata -lhmu -qenablevmx
  255.vortex:   -qpdf1/pdf2
                -O4 -qfdpr -blpdata -lhmu
                 fdpr -q -O3
  256.bzip2:    -qpdf1/pdf2
                -O5 -qfdpr -blpdata
                fdpr -q -O3
  300.twolf:    -qpdf1/pdf2
                -O4 -qfdpr -qarch=pwr3 -qtune=pwr3 -blpdata
                fdpr -q -O3


The installed OS level is AIX 5L for POWER version 5.3 with the 5300-04 Recommended Technology Level.

Extended C:     IBM XL C for AIX invoked as cc
C++:            IBM XL C for AIX invoked as xlC

ulimits set to unlimited.
Large page mode and memory affinity were set as follows:
    vmo -r -o lgpg_regions=100 -o lgpg_size=16777216
    chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
    shutdown -rF
    export MEMORY_AFFINITY=MCM
One core was deconfigured at the open-firmware prompt, using the command
    boot -s cpu=1

The following config-file entry was used to assign each benchmark process to a core:
     submit = bindprocessor $$ $SPECUSERNUM; $command
The "bindprocessor" AIX command binds a process to a CPU core.

This result was measured on an IBM System p5 185. The IBM System p5 185 and IBM IntelliStation
POWER 185 models are electronically equivalent.
```