



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

IBM Corporation
IBM System p5 185 (2500 MHz, 2 CPU)

SPECint_rate2000 = 30.9
SPECint_rate_base2000 = 29.5

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	135	24.1	2	121	26.8
175.vpr	2	175	18.5	2	174	18.6
176.gcc	2	73.1	34.9	2	72.2	35.3
181.mcf	2	192	21.8	2	191	21.9
186.crafty	2	73.4	31.6	2	59.3	39.1
197.parser	2	140	29.9	2	138	30.2
252.eon	2	61.0	49.5	2	61.0	49.5
253.perlbmk	2	144	29.0	2	135	30.8
254.gap	2	91.2	28.0	2	90.6	28.2
255.vortex	2	91.2	48.3	2	82.7	53.3
256.bzip2	2	169	20.5	2	165	21.1
300.twolf	2	208	33.5	2	200	34.8

Hardware

CPU: IBM PowerPC 970MP
 CPU MHz: 2500
 FPU: Integrated
 CPU(s) enabled: 2 cores, 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 -qfdr -Q -qmaxmem=-1 -q64 -blpdata -lhu -qenablevmx
          fdpr -q -O3
175.vpr: -qpdf1/pdf2
         -O5 -qalign=natural -qhot=arraypad -qfdr -Q -qmaxmem=-1 -blpdata -lhu
```



CINT2000 Result

Copyright ©1999-2005, Standard Performance Evaluation Corporation

IBM Corporation
IBM System p5 185 (2500 MHz, 2 CPU)

SPECint_rate2000 = 30.9
SPECint_rate_base2000 = 29.5

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

Notes/Tuning Information (Continued)

```

176.gcc:      fdpr -q -O3
              -qpdf1/pdf2
              -O5 -D_ILS_MACROS -blpdata
181.mcf:      -qpdf1/pdf2
              -O5 -qalign=natural -qhot=arraypad -qfdpr -Q -qmaxmem=-1 -blpdata
186.crafty:   fdpr -q -O3
              -qpdf1/pdf2
              -O5 -qfdpr -q64 -lhmu
197.parser:   fdpr -q -O3
              -qpdf1/pdf2
              -O4 -qfdpr -D_ILS_MACROS -blpdata
              fdpr -q -O3
252.eon:      -qpdf1/pdf2
              -O4 -qalign=natural
253.perlbnk:  -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 lpgg_regions=100 -o lpgg_size=16777216
chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
shutdown -rF
export MEMORY_AFFINITY=MCM

```

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.