CINT2000 Result

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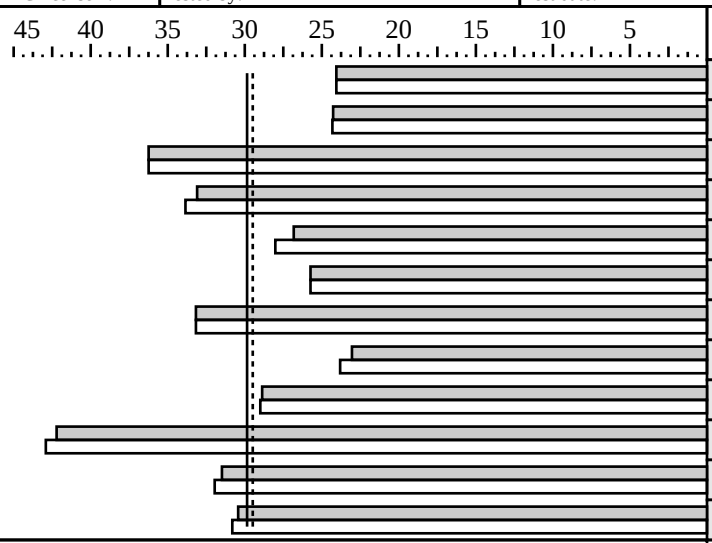
IBM Corporation

IBM eServer OpenPower 710 (1650MHz, 2 CPU, Linux)

SPECint_rate2000 = 29.8

SPECint_rate_base2000 = 29.5

SPEC license #: 11 | Tested by: IBM | Test date: Jan-2005 | Hardware Avail: Feb-2005 | Software Avail: Mar-2005



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	270	24.1	4	270	24.1
175.vpr	4	268	24.3	4	267	24.3
176.gcc	4	141	36.2	4	141	36.2
181.mcf	4	252	33.1	4	247	33.9
186.crafty	4	173	26.8	4	166	28.0
197.parser	4	325	25.7	4	325	25.7
252.eon	4	182	33.2	4	182	33.2
253.perlbmk	4	362	23.0	4	351	23.8
254.gap	4	177	28.9	4	176	29.0
255.vortex	4	209	42.2	4	205	42.9
256.bzip2	4	221	31.5	4	218	32.0
300.twolf	4	457	30.4	4	452	30.8

Hardware

CPU:	POWER5
CPU MHz:	1650
FPU:	Integrated
CPU(s) enabled:	2 cores, 1 chip, 2 cores/chip (SMT on)
CPU(s) orderable:	1,2
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip)/core
Secondary Cache:	1920KB unified (on chip)/chip
L3 Cache:	36MB unified (off chip)/DCM, 1 DCM/SUT
Other Cache:	None
Memory:	8x2 GB
Disk Subsystem:	1X73GB SCSI, 15K RPM
Other Hardware:	None

Software

Operating System:	Red Hat Enterprise Linux AS 4
Compiler:	XL C/C++ Enterprise Edition Version 7.0 for Linux
File System:	EXT2
System State:	Multi-User, run level 3

Notes/Tuning Information

```
Integer Portability Flags:
  gcc:     -DHOST_WORDS_BIG_ENDIAN
  crafty:  -DLINUX_PPC32
  eon:     -DHAS_ERRLIST
   srcalt=fmax_errno
  perlbmk: -DSPEC_CPU2000_LINUX_PPC32 -DSPEC_CPU2000_NEED_BOOL -DHAS_FGETPOS -DHAS_FSETPOS
  gap:     -DSYS_STRING_H -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_CALLOC_PROTO
  twolf:   -DHAVE_SIGNED_CHAR
  mcf:     None
  crafty:  -DLINUX_PPC32
  parser:  None
  vortex:  srcalt=closed_files
  bzip2:   None
  twolf:   -DHAVE_SIGNED_CHAR
Base Optimization Flags:
  C:
   -qpdf1/pdf2
   -O5
  C++:
   -qpdf1/pdf2
```

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Notes/Tuning Information (Continued)

```
    -O5

Integer Peak Optimization Flags
164.gzip
 basepeak=1
175.vpr: -qpdf1/qpdf2
 -O5 -qhot=arraypad -Q
176.gcc
 basepeak=1
181.mcf
 -O4 -qarch=pwr4 -qtune=pwr4
186.crafty:  -qpdf1/pdf2
 -O4 -qarch=pwr3 -qtune=pwr3
197.parser
 basepeak=1
252.eon:
 basepeak=1
253.perlbmk:  -qpdf1/pdf2
 -O4 -qarch=pwr5 -qtune=pwr5
254.gap: -qpdf1/pdf2
 -O5  -qarch=pwr4 -qtune=pwr4
255.vortex:  -qpdf1/pdf2
 -O4  -qarch=pwr4 -qtune=pwr4
256.bzip2:
 -O5  -qarch=pwr5 -qtune=pwr5
300.twolf:
        "C invoked as /opt/ibmcmp/vac/7.0/bin/xlc"
 -O4 -qarch=pwr5 -qtune=pwr5

SMT: Acronym for "Simultaneous Multi-Threading". A processor technology that allows
   the simultaneous execution of multiple thread contexts within a single processor
   core. (Enabled by default)
DCM: Acronym for "Dual-Chip Module" (one dual-core processor chip + one L3-cache chip)
SUT: Acronym for "System Under Test"
Stack size set to unlimited using "ulimit -s unlimited"
C:   IBM XL C/C++ for Linux invoked as cc unless explicitly reassigned
C:   IBM XL C/C++ for Linux invoked as xlc where noted
C++: IBM XL C/C++ for Linux invoked as xlC
cleanpdf used with -qpdf1/pdf2 to erase the information in the PDF directory if any
     exists to ensure no feedback information is reused between compilations.
Flag file: IBM-20050209-Linux.txt
```