



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

45 40 35 30 25 20 15 10 5					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.perlbnk	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_erno
perlbnk: -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)

-05

Integer Peak Optimization Flags

164.gzip

basepeak=1

175.vpr: -qpdf1/qpdf2

-05 -qhot=arraypad -Q

176.gcc

basepeak=1

181.mcf

-04 -qarch=pwr4 -qtune=pwr4

186.crafty: -qpdf1/pdf2

-04 -qarch=pwr3 -qtune=pwr3

197.parser

basepeak=1

252.eon:

basepeak=1

253.perlbmk: -qpdf1/pdf2

-04 -qarch=pwr5 -qtune=pwr5

254.gap: -qpdf1/pdf2

-05 -qarch=pwr4 -qtune=pwr4

255.vortex: -qpdf1/pdf2

-04 -qarch=pwr4 -qtune=pwr4

256.bzip2:

-05 -qarch=pwr5 -qtune=pwr5

300.twolf:

"C invoked as /opt/ibmcmp/vac/7.0/bin/xlc"

-04 -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