



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 630 Model 6E4 (1200 MHz, 1 CPU)

SPECint2000 = --

SPECint_base2000 = 720

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Mar-2003 | Hardware Avail: Apr-2003 | Software Avail: Feb-2003

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	300 600 900 1200			
164.gzip	1400	265	528						
175.vpr	1400	228	614						
176.gcc	1100	141	782						
181.mcf	1800	191	943						
186.crafty	1000	154	649						
197.parser	1800	291	618						
252.eon	1300	157	829						
253.perlbmk	1800	314	574						
254.gap	1100	169	650						
255.vortex	1900	216	882						
256.bzip2	1500	195	767						
300.twolf	3000	310	969						

Hardware

CPU: POWER4+
 CPU MHz: 1200
 FPU: Integrated
 CPU(s) enabled: 1 core, 1 chip, 2 cores/chip, 1 chip/SCM
 CPU(s) orderable: 1,2,4 (order by # cores)
 Parallel: No
 Primary Cache: 64KBI+32KBD (on chip) per core
 Secondary Cache: 1536KB unified shared (on chip) per chip
 L3 Cache: 8MB ECC shared per processor card (1 processor card in SUT)
 Other Cache: None
 Memory: 8 GB
 Disk Subsystem: 1x36GB SCSI
 Other Hardware: None

Software

Operating System: SLES 8 for pSeries w/2.4.19 kernel
 Compiler: IBM VisualAge C++ Version 6.0 for Linux on pSeries
 IBM XL Fortran Version 8.1 for Linux on pSeries
 File System: ext2
 System State: Multi-user

Notes/Tuning Information

cfg file: ppc32-linux-ibm-ref-o5.cfg

Compiled 32-bit applications

CC = /opt/ibmcmp/vac/6.0/bin/cc
 CXX = /opt/ibmcmp/vacpp/6.0/bin/xlc

SCM: Acronym for "Single-chip module"
 SUT: Acronym for "System under test"

SLES: SuSE Linux Enterprise Server

1 processor was deconfigured through the configuration menu.

Integer optimization flags
 Int: -qpdf1/pdf2 -O5



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Notes/Tuning Information (Continued)

Integer portability flags

gcc: -DHOST_WORDS_BIG_ENDIAN

mcf: None

crafty: -DLINUX_PPC32

parser: None

eon: -DHAS_ERRLIST

eon:

eon: Using srcalt=fmax_errno

perlbnk: -DSPEC_CPU2000_LINUX_PPC32 -DSPEC_CPU2000_NEED_BOOL

-DHAS_FGETPOS -DHAS_FSETPOS

gap: -DSYS_IS_USG -DSYS_HAS_IOCTL_PROTO -DSYS_HAS_CALLOC_PROTO

vortex: None

bzip2: None

twolf: -DHAVE_SIGNED_CHAR