



CINT2000 Result

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IBM Corporation

IBM eServer pSeries 630 Model 6E4 (1450 Mhz, 1 CPU)

SPECint2000 = --

SPECint_base2000 = 856

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

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio	300 600 900 1200			
164.gzip	1400	223	629			[Bar chart showing ratio]			
175.vpr	1400	196	713			[Bar chart showing ratio]			
176.gcc	1100	118	930			[Bar chart showing ratio]			
181.mcf	1800	164	1097			[Bar chart showing ratio]			
186.crafty	1000	129	773			[Bar chart showing ratio]			
197.parser	1800	245	736			[Bar chart showing ratio]			
252.eon	1300	132	988			[Bar chart showing ratio]			
253.perlbmk	1800	256	702			[Bar chart showing ratio]			
254.gap	1100	142	777			[Bar chart showing ratio]			
255.vortex	1900	181	1050			[Bar chart showing ratio]			
256.bzip2	1500	164	912			[Bar chart showing ratio]			
300.twolf	3000	260	1152			[Bar chart showing ratio]			

Hardware

CPU: POWER4+
 CPU MHz: 1450
 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 (on chip) per chip
 L3 Cache: 8MB unified (off-chip) per SCM, 1 SCM 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

3 processors were 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