



# CINT2000 Result

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## IBM Corporation

IBM eServer pSeries 630 Model 6C4 (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	
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