



# CINT2000 Result

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## IBM Corporation

### IBM eServer pSeries 655 (1700 Mhz, 1 CPU LPAR)

SPECint2000 = --

SPECint\_base2000 = 1023

SPEC license #: 11 | Tested by: IBM, Austin, Tx | Test date: Jul-2003 | Hardware Avail: Jul-2003 | Software Avail: May-2003

| Benchmark   | Reference Time | Base Runtime | Base Ratio | Runtime | Ratio |  |
|-------------|----------------|--------------|------------|---------|-------|--|
| 164.gzip    | 1400           | 186          | 754        |         |       |  |
| 175.vpr     | 1400           | 170          | 824        |         |       |  |
| 176.gcc     | 1100           | 99.5         | 1105       |         |       |  |
| 181.mcf     | 1800           | 131          | 1376       |         |       |  |
| 186.crafty  | 1000           | 109          | 918        |         |       |  |
| 197.parser  | 1800           | 206          | 873        |         |       |  |
| 252.eon     | 1300           | 105          | 1237       |         |       |  |
| 253.perlbmk | 1800           | 215          | 838        |         |       |  |
| 254.gap     | 1100           | 119          | 922        |         |       |  |
| 255.vortex  | 1900           | 151          | 1260       |         |       |  |
| 256.bzip2   | 1500           | 139          | 1078       |         |       |  |
| 300.twolf   | 3000           | 224          | 1337       |         |       |  |

### Hardware

CPU: POWER4+  
 CPU MHz: 1700  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 4 chips, 1 cores/chip, 4 chips/MCM  
 CPU(s) orderable: 1 MCM (order by # MCM)  
 Parallel: No  
 Primary Cache: 64KBI+32KBD (on chip) per core  
 Secondary Cache: 1536KB unified (off chip) per chip  
 L3 Cache: 128MB unified (off-chip) per MCM, 1 MCM in SUT  
 Other Cache: None  
 Memory: 8 GB  
 Disk Subsystem: 1x36GB SCSI, 10K RPM  
 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, May 2003 PTF  
 IBM XL Fortran Version 8.1 for Linux on pSeries, May 2003 PTF  
 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

Running in 1-CPU partition with 8 GB memory on 4-CPU 16GB p655 system.  
 No other partitions running on the system.

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

perlbmk: -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