# CINT2000 Result

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## IBM Corporation

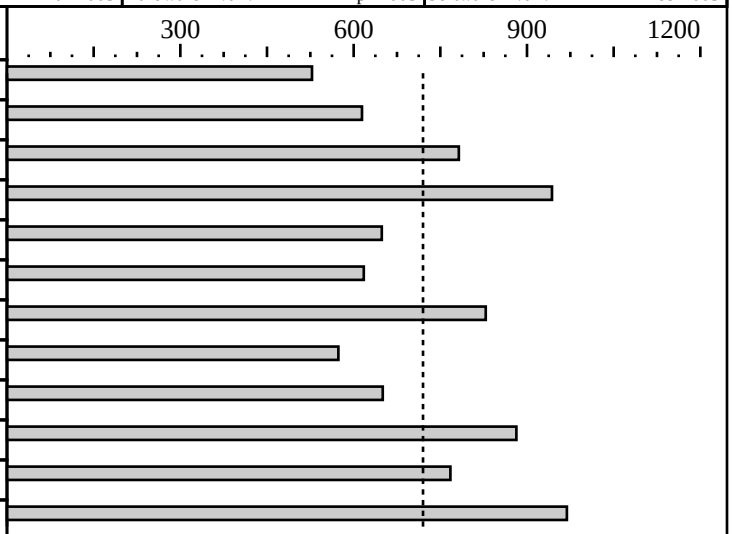
IBM eServer pSeries 630 Model 6C4 (1200 MHz, 1 CPU)

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<br><br>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

   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
```