CINT2000 Result

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IBM Corporation

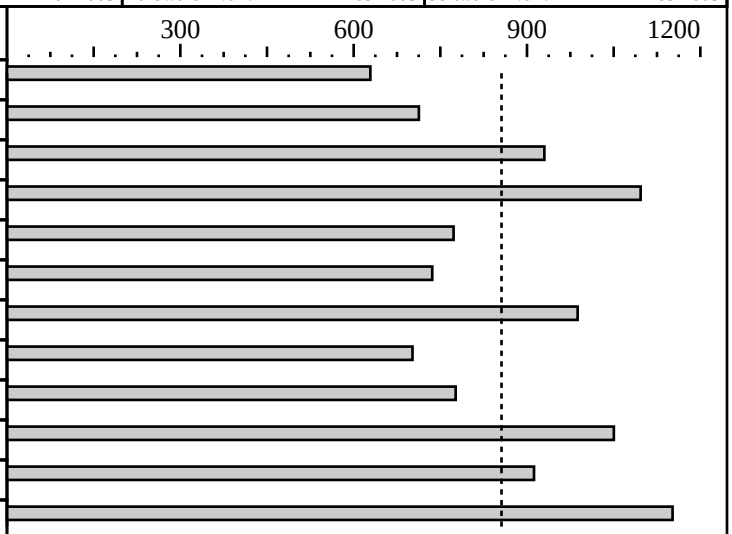
IBM eServer pSeries 630 Model 6E4 (1450 Mhz, 1 CPU)

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
164.gzip	1400	223	629		
175.vpr	1400	196	713		
176.gcc	1100	118	930		
181.mcf	1800	164	1097		
186.crafty	1000	129	773		
197.parser	1800	245	736		
252.eon	1300	132	988		
253.perlbmk	1800	256	702		
254.gap	1100	142	777		
255.vortex	1900	181	1050		
256.bzip2	1500	164	912		
300.twolf	3000	260	1152		



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

   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
```