CINT2000 Result

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IBM Corporation

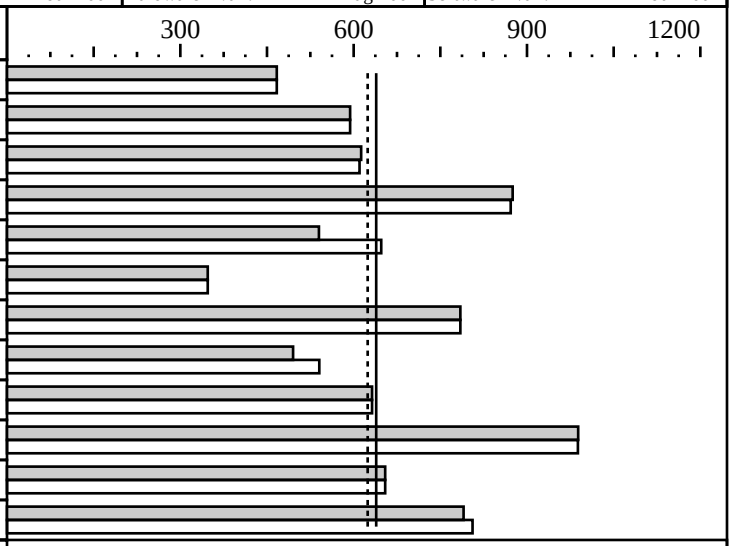
IBM eServer pSeries 630 Model 6C4 (1000 MHz, 1 CPU)

SPECint2000 = 639

SPECint_base2000 = 624

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jul-2002 | Hardware Avail: Aug-2002 | Software Avail: Jul-2002

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	300	467	300	467
175.vpr	1400	236	594	236	594
176.gcc	1100	179	613	180	610
181.mcf	1800	206	875	206	872
186.crafty	1000	185	540	154	648
197.parser	1800	518	347	518	347
252.eon	1300	166	785	166	785
253.perlbmk	1800	364	495	333	541
254.gap	1100	174	632	174	632
255.vortex	1900	192	989	192	988
256.bzip2	1500	229	655	229	655
300.twolf	3000	380	790	372	806



Hardware

CPU:	POWER4
CPU MHz:	1000
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:	1440KB unified (on chip) per chip
L3 Cache:	32MB unified (off chip)/SCM, 1SCM in SUT
Other Cache:	None
Memory:	4GB
Disk Subsystem:	1x18.2GB SCSI
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	IBM VisualAge C++ for AIX, Version 6.0
File System:	AIX/JFS
System State:	Multi-user

Notes/Tuning Information

```
Integer Portability Flags:
  gcc:     -ma -DHOST_WORDS_BIG_ENDIAN
  crafty:  -DAIX
  eon:     -DNEED_EXPLICIT_SPECIALIZATION
            -I. -DNDEBUG
  perlbmk: -DSPEC_CPU2000_AIX
  gap:     -DSYS_IS_BSD -DSYS_STRING_H -DSYS_HAS_TIME_PROTO
           -DSYS_HAS_MALLOC_PROTO -DSYS_HAS_CALLOC_PROTO
  twolf:   -DHAVE_SIGNED_CHAR

Base Optimization Flags:
  C:
  -qpdf1/pdf2
  -O5 -blpdata -qalign=natural
  C++:
  -qpdf1/pdf2
  -O5 -lhmu -qalign=natural

Integer Peak Optimization Flags:
164.gzip
```

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Notes/Tuning Information (Continued)

```
    CC = /usr/vac/bin/xlc
    BASEPEAK = 1
  175.vpr
    BASEPEAK = 1
  176.gcc
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural
  181.mcf
    fdpr -v -R3
    -O3 -lhmu -qipa=partition=large -blpdata
  186.crafty
    fdpr -v -R3
    -O4 -q64
  197.parser
    BASEPEAK = 1
  252.eon
    BASEPEAK = 1
  253.perlbmk
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural
  254.gap
    BASEPEAK = 1
  255.vortex
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural
  256.bzip2
    BASEPEAK = 1
  300.twolf
    CC = /usr/vac/bin/xlc
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural -blpdata

    SCM: Acronym for "Single-Chip Module"
    SUT: Acronym for "System Under Test"

    fpdr: Feedback directed program restructuring tool.
    /usr/spec2000 filesystem mounted with no JFS log file I/O.
    APAR IY31315 was applied to AIX to enable new hardware support.
    ulimits set to unlimited.
    chuser capabilities=CAP_BYPASS_RAC_VMM,CAP_PROPAGATE $USER
    C: IBM VAC++ invoked as cc except where noted as xlc.
    C++: IBM VAC++ invoked as xlC.
    Large page mode and memory affinity were set as follows:
    vmtune -g 16777216 -L 200 -y1
```