CINT2000 Result

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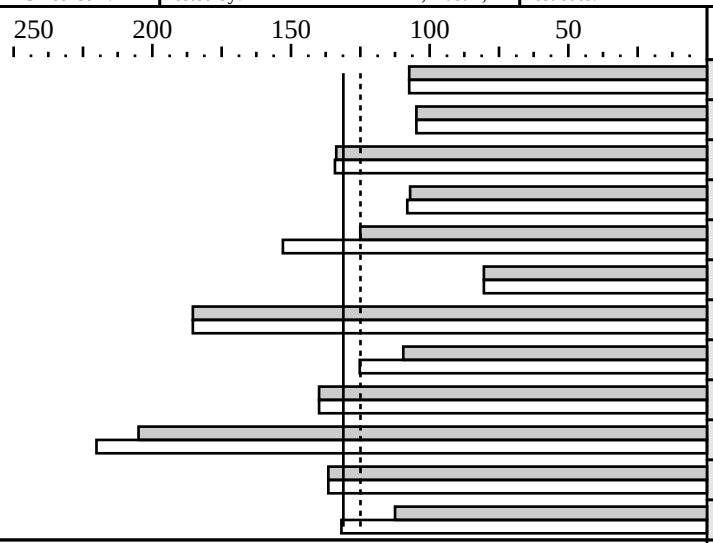
IBM Corporation

IBM eServer pSeries 690 Turbo (1300 MHz, 16 CPU)

SPECint_rate2000 = 131

SPECint_rate_base2000 = 125

SPEC license #: 11 | Tested by: IBM, Austin, TX | Test date: Jun-2002 | Hardware Avail: Dec-2001 | Software Avail: Sep-2002



Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	16	242	107	16	242	107
175.vpr	16	248	105	16	248	105
176.gcc	16	153	134	16	152	134
181.mcf	16	312	107	16	309	108
186.crafty	16	148	125	16	121	153
197.parser	16	415	80.5	16	415	80.5
252.eon	16	130	185	16	130	185
253.perlbmk	16	305	110	16	267	125
254.gap	16	146	140	16	146	140
255.vortex	16	172	205	16	160	220
256.bzip2	16	204	137	16	204	137
300.twolf	16	495	112	16	422	132

Hardware

CPU:	POWER4
CPU MHz:	1300
FPU:	Integrated
CPU(s) enabled:	16 cores, 8 chips, 2 cores/chip, 4 chips/MCM
CPU(s) orderable:	1,2,3,4 (order by # MCM)
Parallel:	No
Primary Cache:	64KBI+32KBD (on chip) per core
Secondary Cache:	1440KB unified (on chip) per chip
L3 Cache:	128MB unified (off-chip) per MCM, 2 MCMs in SUT (4 chips per MCM)
Other Cache:	None
Memory:	64 GB
Disk Subsystem:	1X16GB 1X8GB
Other Hardware:	None

Software

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

Notes/Tuning Information

```
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)

```
    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
    -qpdf1/pdf2
    -O5 -lhmu -qalign=natural -blpdata

    fpdr: Feedback directed program restructuring tool.
    /usr/spec2000 filesystem mounted with no JFS log file I/O.
    APAR IY 28102 was applied to AIX to enable new hardware support.
    ulimits set to unlimited.
    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 1024 -y1

  MCM = Multi-chip Module
  SUT = System under Test
```