CINT2000 Result

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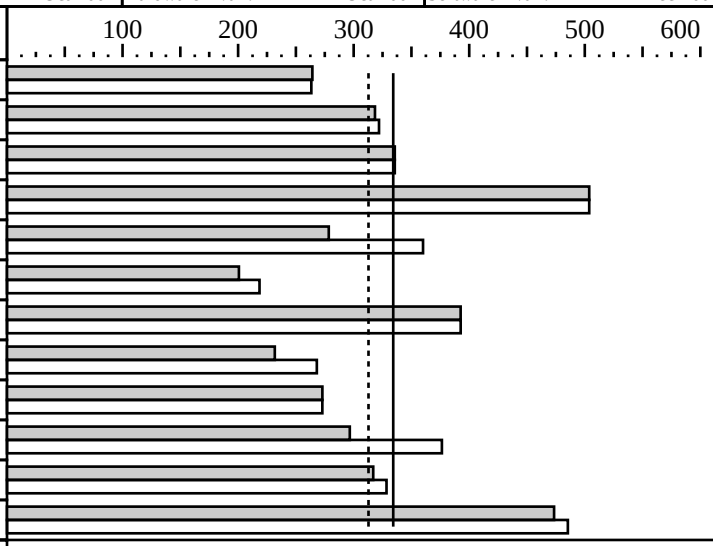
IBM Corporation
IBM eServer pSeries 640 Model B80

SPECint2000 = 334

SPECint_base2000 = 313

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Oct-2001 | Hardware Avail: Oct-2001 | Software Avail: Dec-2001

Benchmark	Reference Time	Base Runtime	Base Ratio	Runtime	Ratio
164.gzip	1400	530	264	532	263
175.vpr	1400	440	318	435	322
176.gcc	1100	328	336	328	336
181.mcf	1800	357	504	357	504
186.crafty	1000	359	278	278	360
197.parser	1800	897	201	824	219
252.eon	1300	331	393	331	393
253.perlbmk	1800	777	232	671	268
254.gap	1100	403	273	403	273
255.vortex	1900	640	297	505	376
256.bzip2	1500	473	317	457	328
300.twolf	3000	634	473	618	485



Hardware

CPU:	POWER3-II
CPU MHz:	450
FPU:	Integrated
CPU(s) enabled:	1 core, 1 chip, 1 core/chip
CPU(s) orderable:	2,4
Parallel:	No
Primary Cache:	32KBI+64KBD (on chip)
Secondary Cache:	8MB unified (off chip)
L3 Cache:	None
Other Cache:	None
Memory:	2GB
Disk Subsystem:	2x18GB 10000RPM
Other Hardware:	None

Software

Operating System:	AIX 5L V5.1
Compiler:	C: IBM VAC++ 5.0.2.0 invoked as cc except where noted as xlc C++: IBM VAC++ 5.0.2.0 invoked as xlC
File System:	AIX/JFS
System State:	Multi-user

Notes/Tuning Information

```
Portability Flags:
  gcc:     -ma -qlanglvl=ansi -DHOST_WORDS_BIG_ENDIAN
  crafty:  -DAIX
  eon:     -DNEED_EXPLICIT_SPECIALIZATION
  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:           -O4 -lmass
  C++:         -O4 -lmass
Peak Optimization Flags
  164.gzip:    -O4 -lhmu, fdpr -R3 -p -x -o
  175.vpr:     -O5 -qunroll=8
  176.gcc:     (basepeak=1)
  181.mcf:     (basepeak=1)
  186.crafty:  -O3 -lhmu -q64
  197.parser:  -qpdf1/pdf2 -O4 -lpdf
               -bnso -bI:/lib/syscalls.exp, fdpr -R3  -p -x
  252.eon:     -O4 -lmass, fdpr -R3 -p -x -o
```

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Notes/Tuning Information (Continued)

```
  253.perlbmk: -qpdf1/pdf2 -O3 -lhmu -lpdf -qarch=pwr3
               -qdatalocal -qunroll=8, fdpr -R3 -p -x
  254.gap:     -O4 -qarch=pwr3, fdpr -R3 -p -x -o
  255.vortex:  -O3 -lhmu -lmass -qipa=partition=large,
               fdpr -v -R3 -p -x
  256.bzip2:   -O5 -qunroll=8, fdpr -R3 -p -x -o
  300.twolf:   -qpdf1/pdf2 -O5 -lpdf, fdpr -R3 -p -x
                CC=/usr/vac/bin/xlc
fpdr: Feedback directed program restructuring tool
APAR IY 21957 was applied to AIX 5L V5.1 to enable new hardware support
```