



CINT2000 Result

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IBM Corporation
IBM eServer pSeries 640 Model B80

SPECint_rate2000 = 15.2
SPECint_rate_base2000 = 14.2

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	4	538	12.1	4	540	12.0
175.vpr	4	445	14.6	4	442	14.7
176.gcc	4	332	15.4	4	332	15.4
181.mcf	4	385	21.7	4	385	21.7
186.crafty	4	359	12.9	4	278	16.7
197.parser	4	896	9.32	4	824	10.1
252.eon	4	333	18.1	4	333	18.1
253.perlbnk	4	785	10.6	4	669	12.5
254.gap	4	460	11.1	4	460	11.1
255.vortex	4	641	13.8	4	506	17.4
256.bzip2	4	477	14.6	4	462	15.1
300.twolf	4	637	21.9	4	623	22.3

Hardware

CPU: POWER3-II
CPU MHz: 450
FPU: Integrated
CPU(s) enabled: 4 cores, 4 chips, 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
perlbnk: -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.perlbnk: -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
```