



# CINT2000 Result

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## IBM Corporation

### IBM eServer pSeries 610 Mod 6E1 375MHz

SPECint\_rate2000 = 6.34

SPECint\_rate\_base2000 = 5.95

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

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.gzip	2	619	5.25	2	621	5.23
175.vpr	2	547	5.94	2	545	5.96
176.gcc	2	390	6.54	2	390	6.54
181.mcf	2	543	7.69	2	543	7.69
186.crafty	2	423	5.49	2	328	7.07
197.parser	2	1076	3.88	2	990	4.22
252.eon	2	399	7.57	2	399	7.57
253.perlbnk	2	935	4.47	2	804	5.19
254.gap	2	480	5.31	2	480	5.32
255.vortex	2	766	5.75	2	606	7.28
256.bzip2	2	581	5.99	2	563	6.18
300.twolf	2	738	9.43	2	725	9.60

### Hardware

CPU: POWER3-II  
 CPU MHz: 375  
 FPU: Integrated  
 CPU(s) enabled: 2 cores, 2 chips, 1 core/chip  
 CPU(s) orderable: 1,2  
 Parallel: No  
 Primary Cache: 32KBI+64KBD (on chip)  
 Secondary Cache: 4MB 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
```