



# CINT2000 Result

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IBM Corporation

IBM eServer pSeries 610 Mod 6E1 375MHz

SPECint2000 = 277

SPECint\_base2000 = 259

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	615	228	617	227	
175.vpr	1400	542	258	537	261	
176.gcc	1100	389	283	389	283	
181.mcf	1800	503	358	503	358	
186.crafty	1000	423	236	328	305	
197.parser	1800	1076	167	989	182	
252.eon	1300	398	327	398	327	
253.perlbnk	1800	925	195	804	224	
254.gap	1100	469	235	469	235	
255.vortex	1900	768	248	607	313	
256.bzip2	1500	577	260	559	269	
300.twolf	3000	736	408	719	417	

### Hardware

CPU: POWER3-II  
 CPU MHz: 375  
 FPU: Integrated  
 CPU(s) enabled: 1 core, 1 chip, 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
```