



# CINT2000 Result

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IBM Corporation  
IBM IntelliStation POWER Model 265

SPECint\_rate2000 = 7.30  
SPECint\_rate\_base2000 = 6.84

SPEC license #: 11 | Tested by: IBM Corp. | Test date: Jan-2002 | Hardware Avail: Mar-2002 | Software Avail: Dec-2001

Benchmark	Base Copies	Base Runtime	Base Ratio	Copies	Runtime	Ratio
164.zip	2	534	6.08	2	536	6.06
175.vpr	2	488	6.66	2	483	6.72
176.gcc	2	333	7.65	2	333	7.65
181.mcf	2	539	7.74	2	539	7.74
186.crafty	2	359	6.46	2	278	8.35
197.parser	2	922	4.53	2	839	4.98
252.eon	2	328	9.18	2	328	9.18
253.perlbnk	2	789	5.29	2	675	6.19
254.gap	2	420	6.08	2	420	6.07
255.vortex	2	656	6.72	2	520	8.48
256.bzip2	2	501	6.95	2	486	7.16
300.twolf	2	642	10.8	2	635	11.0

### Hardware

CPU: POWER3-II  
 CPU MHz: 450  
 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.zip: -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 IY22854 was applied to AIX 5L V5.1 to enable new hardware support
```